

# SICUTOOL

## UTENSILI 2015



SICUTOOL

catalogo PC

e-commerce

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SOL WEB

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smartphone

CATALOGO WEB



SOL desktop

consegne

SICUTOOL  
MOBILE

tablet

PARTNERSHIP



Copertina interattiva



# Condizioni di vendita

Le Condizioni di Vendita sono parte integrante del Sistema Qualità aziendale secondo le norme UNI EN ISO 9001

## ORDINATIVI

Gli ordini vengono accettati in base alle seguenti condizioni:

## PREZZI, VALORE MINIMO E PAGAMENTI

- 1.** I prezzi si intendono franco nostro magazzino, I.V.A. esclusa.  
Per ordini con termini a scadenza varranno le quotazioni in essere al momento della spedizione.  
I nostri prezzi sono comprensivi di imballo standard.
- 2.** Valore minimo per ogni ordine Euro 100,00 netto.
- 3.** I pagamenti, in base ai termini concordati, dovranno essere sempre intestati alla ns. Società.

- Per eventuali ritardati pagamenti verranno conteggiati gli interessi bancari più eventuali spese accessorie.
- Non vengono accettate trattenute arbitrarie.
- Qualunque modifica alle condizioni di pagamento deve essere preventivamente concordata e non può avere effetto retroattivo.

## SPEDIZIONI E RITIRI

- 4.** Gli ordini vengono evasi a saldo nel limite delle disponibilità, salvo specifica indicazione del Cliente di mantenere in nota le eventuali rimanenze.  
Qualora il Cliente desiderasse tenere sempre in nota il materiale invaso, di tutti i suoi ordini, dovrà darne espressa comunicazione scritta.  
Le rimanenze vengono unite al primo ordine successivo.  
Per ogni ordine il Cliente dovrà specificare un inequivocabile mezzo di trasporto.
- 5.** La merce viaggia a rischio e pericolo del committente, anche se spedita in porto franco con addebito in fattura.  
In caso di danni, furti o perdita della spedizione durante il trasporto, i relativi reclami dovranno essere indirizzati al vettore essendo il diretto responsabile.
- 6.** Si raccomanda di controllare al momento della consegna, oltre all'integrità dell'imballo, che i dati distintivi riportati sulla ns. bolla di accompagnamento corrispondano alla spedizione.  
In presenza di discordanze è necessario far riserva al vettore.

# Newsletter Sicutool

La newsletter è vincolante per comunicazioni che variano il catalogo (caratteristiche tecniche, articoli non più fornibili, istruzioni d'uso, ecc.).

Per iscrivervi, inviate una richiesta a [news@sicutool.it](mailto:news@sicutool.it).

**7.** Per ritiri presso il ns. magazzino di Milano gli ordini dovranno pervenirci su carta intestata o contrassegnati con timbro e firma della persona responsabile della Ditta mandante. L'incaricato dovrà firmare per ricevuta le bolle di accompagnamento, accertandosi che sulle stesse sia stata indicata la data del ritiro ed il numero di colli.

## RECLAMI, RESI E SOSTITUZIONI IN GARANZIA

**8.** I reclami sono accettati entro otto giorni dal ricevimento della merce.

**9.** Resi di materiale per errori di ordinazione o per motivi non imputabili a noi, saranno accettati solo se preventivamente autorizzati. Per questo tipo di reso verrà applicata tassativamente una percentuale di spese del 10% quale concorso alle attività di controllo e di nuova introduzione in magazzino.

**10.** Eventuali utensili difettosi saranno sostituiti in garanzia, previo accordo con la ns. Società.

**11.** Il reso sarà accettato solo se inviato in porto franco e con documento di trasporto riportante i riferimenti alla ns. fattura di vendita/d.d.t.

**12.** In caso di resi è necessario compilare il relativo modulo di accompagnamento, scaricabile dal sito [www.sicutool.com/resi](http://www.sicutool.com/resi).

- Non sostituiamo utensili danneggiati o rotti per imperizia d'uso.

## INFORMAZIONI TECNICHE E COPYRIGHT

**13.** I dati, i colori e le caratteristiche tecniche riportati nel presente catalogo sono indicativi e non vincolanti. Eventuali modifiche per miglioramento potranno verificarsi senza preavviso al committente. Ciò vale anche per l'eliminazione di articoli presenti sul catalogo per sopraggiunte impossibilità di fornitura indipendenti dalla ns. volontà.

- Ricordiamo alla ns. Spettabile Clientela che i testi, le illustrazioni, i marchi e i numeri che distinguono gli articoli del presente catalogo sono protetti ai sensi della legge sui diritti d'Autore.
- La riproduzione anche parziale del catalogo è vietata se non espressamente da noi autorizzata per iscritto.

## CHI CHIEDE SICUTOOL DEVE RICEVERE SICUTOOL

**14.** Ogni richiesta inoltrata dal Consumatore con numero d'articolo inerente a questo catalogo ed evasa con altri similari rivela un raggio del Cliente e ricade nelle penalità previste dalla Legge.

**15.** In caso di contestazione è competente il Foro di Milano.

# Sicutool Utensili 2015

## Il catalogo “**umentato**”



AUGMENTED REALITY  
REALTÀ AUMENTATA

Grazie alla tecnologia della AR, inquadrando le pagine a “realtà aumentata” del catalogo Sicutool Utensili 2015 con il tuo smartphone o tablet potrai accedere a contenuti aggiuntivi:

- Video
- Istruzioni d’uso
- Approfondimenti tecnici
- Risposte a domande frequenti
- Avvisi.

Il numero delle pagine “aumentate” crescerà durante tutto il corso di validità del catalogo, mantenendolo sempre vivo.

**Come accedere**  
**ai contenuti “umentati”**  
**in 3 semplici passaggi**



INTERACTIVE PRINT



Scarica gratis  
la app Layar



Scansiona la pagina  
del catalogo



Accedi ai contenuti  
aggiuntivi

## 1. SCARICA GRATIS LA APP LAYAR

Scarica gratis sul tuo smartphone o tablet la app Layar, disponibile per iOS e Android.

Usa il codice QR qui a fianco per scaricare direttamente la app Layar.



## 2. SCANSIONA LA PAGINA DEL CATALOGO

Inquadra e scansiona una pagina “aumentata” del catalogo Sicutool Utensili 2015.

## 3. ACCEDI AI CONTENUTI AGGIUNTIVI

Dopo qualche istante, sul tuo smartphone o tablet compariranno i contenuti aggiuntivi: video, istruzioni d’uso, approfondimenti tecnici, risposte a domande frequenti, avvisi...

### Come riconosco una pagina aumentata?

Sul catalogo le pagine “aumentate” sono contraddistinte da questo logo:



### Elenco delle nuove pagine aumentate

Per tutta la validità del catalogo pubblicheremo ulteriori contenuti aggiuntivi, incrementando il numero delle pagine “aumentate”.

Per aggiornamenti sulle nuove pagine “aumentate” iscriviti alla nostra **Newsletter** ([news@sicutool.it](mailto:news@sicutool.it)) o visita il sito [www.sicutool.it](http://www.sicutool.it).



SICUTOOL

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THREADING  
MACHINES FOR  
HYDRAULICS



2

PLIERS, CUTTERS,  
SHEARS, TOOLS  
FOR BENDING



3

WRENCHES,  
TROLLEYS,  
WORKSHOP  
FURNITURES



4

DRILLING TOOLS  
TOOLS FOR  
VALVES



5

PULLERS  
NUT SHEARS



6

TOOLS AND  
ACCESSORIES  
FOR MACHINE  
TOOLS



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# Per la **verifica** di utensili a **controllo** di coppia

**Torqueleader**  
**CAPTURE**  
*Display*



## Il nuovo standard di Torque Analyser Systems

### SICUTOOL E PRORE



Attraverso Prore s.r.l. Sicutool offre servizi di taratura della grandezza "momento torcente" per utensili dinamometrici di tutte le marche:

- chiavi dinamometriche
- giraviti a scatto
- giraviti a lettura diretta
- banchi torsionometrici.

Il Certificato garantisce la riferibilità ai campioni di riferimento nazionali, con le incertezze di misura indicate nella relativa tabella di accreditamento.

### PRORE E' CENTRO ACCREDIA LAT N. 0145

Prore s.r.l. è Centro di Taratura accreditato da ACCREDIA LAT N. 0145.

**ACCREDIA**  
L'ENTE ITALIANO DI ACCREDITAMENTO

**LAT N° 0145**  
PER LA GRANDEZZA MOMENTO TORCENTE

Le attività di Prore sono regolate da un Manuale di Qualità e da procedure tecniche e gestionali conformi alle norme UNI CEI EN ISO/IEC 17025.

Per maggiori informazioni, visitate il sito [www.prore.it](http://www.prore.it)









**SICUTOOL**





**All items are in sequence. It's very easy to find them!**

Ratchet threaders			From <b>45G</b> To <b>46G</b>
Electric threading machines			From <b>53G</b> To <b>55G</b>
Accessories for threading			From <b>56</b> To <b>60</b>

**RATCHET THREADERS**

45G

SCU



**Prod. SCU**

RATCHET-type

With octagonal connection bushes, interchangeable with other European products. Steel body and oversized thread chaser holder for perfect threading. Thread chasers in high-resistance steel (HRC 55-58), resharppable. Steel reversible ratchet, soft-coated handles for a more comfortable and efficient grip.

Threading conical gas BSPT. Right-hand use. In rugged plastic case.

Size	1	2	2A
For pipes Ø	poll 3/8-1/2-3/4-1	3/8-1/2-3/4-1-1.1/4	1/4-3/8-1/2-3/4-1-1.1/4
Bushes	Nr 4	5	6
<b>45G</b>	<b>Cad. 281,00</b>	<b>336,00</b>	<b>378,00</b>
Size	3	4	5
For pipes Ø	poll 1.1/2-2	3/8-1/2-3/4-1-1.1/4-1.1/2-2	1/4-3/8-1/2-3/4-1-1.1/4-1.1/2-2
Bushes	Nr 2	7	8
<b>45G</b>	<b>Cad. 305,00</b>	<b>550,00</b>	<b>592,00</b>

SPARE PARTS FOR RATCHET THREADERS 45 G - 46 G

Set of 4 right thread chasers.

For pipes Ø	poll	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
<b>O45GA</b>	Per set	26,10	26,10	26,10	26,10	26,10	36,10	41,70	51,30

Right bushes with thread chasers.

For pipes Ø	poll	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
<b>O45GC</b>	Cad.	45,50	45,50	45,50	45,50	49,70	57,90	97,10	97,10

Loose ratchets for bushes from 1/4" to 1.1/4".

<b>O45GE</b>	Cad.	83,80
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Loose ratchets for bushes from 1.1/2" to 2".

<b>O45GF</b>	Cad.	116,00
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Reduction for installing bushes Art. 045 GC 1/4" - 3/8" - 1/2" - 3/4" - 1" - 1.1/4" on the ratchet Art. 045 GF.

External connection 71mm, internal connection 52mm.

<b>O45GH</b>	Cad.	16,10
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**RATCHET THREADERS WITH EQUIPMENT**

46G

SCU



conic gas BSPT

**Prod. SCU**

RATCHET-type

With octagonal connection bushes, interchangeable with other European productions. Steel body and oversized thread chaser holder for perfect threading. Thread chasers in high-resistance steel (HRC 55-58), resharppable. Steel reversible ratchet, soft-coated handles for a more comfortable and efficient grip.

Threading conical gas BSPT. Right-hand use.

Complete with 1 pipe cutter 2", 1 adjustable pliers 250mm and 1 pipe wrench 1".

In rugged plastic case.

For pipes Ø	poll	1/2-3/4-1-1.1/4-1.1/2-2
Bushes	Nr	6
<b>46G</b>	Cad.	648,00

Spare parts for ratchet threaders, see Art. 045 GA and 045 GH.

**ELECTRIC THREADING MACHINES**

53G

SCU



conic gas BSPT

**Prod. SCU**

For BSPT RIGHT threads from 1/4" to 2".

Portable, light and handy.

1350 Watt engine, 230 V monophase-50 Hz.

Equipped with:

6 right bushes complete with thread chasers 1/2" - 3/4" - 1" - 1.1/4" - 1.1/2" - 2".

1 Reduction for bushes from 1/2" to 1.1/4" - 1 support and oil.

Complete in box.

<b>53G</b>	Cad.	1.350,00
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The same ratchet threader is available on request with 110 V monophase engine-60Hz.

SPARE PARTS FOR RATCHET THREADERS 53 G

Set of 4 right thread chasers.

For pipes Ø	poll	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
<b>O53GA</b>	Per set	26,10	26,10	26,10	26,10	26,10	36,10	41,70	51,30

Right bushes with thread chasers

For pipes Ø	poll	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
<b>O53GC</b>	Cad.	45,50	45,50	45,50	45,50	49,70	57,90	97,10	97,10

Art. O53 C 1/4 and 3/8 are not supplied

For BSPT RIGHT threads from 1/4" to 2".  
 Fixed bench type, professional and powerful.  
 750 Watt condenser engine, 220 Volt monophase-50 Hz.  
 With automatic lubrication system, rotating pipe thread.  
 Speed 28 RPM. Weight kg 65.

Equipped with:

- 1 Chaser holder, manual opening, from 1/2" to 2".
- 2 Sets of 4 thread chasers from 1/2"- 3/4" to 1"- 2".
- 1 Roller pipe cutter, reamer, cutting oil.

**55G** Cad. **4.740,00**

The same ratchet threader is available on request with 110 V monophase engine-60Hz.  
 Pedal control available on request.

**SPARE PARTS FOR RATCHET THREADERS 55 G**

Chaser holder, manual opening, from 1/4" to 2".

**O55GA** Cad. **464,00**

Set of no. 4 thread chasers from 1/4" to 3/8" (not included).

**O55GB** Per set **198,00**

Set of no. 4 thread chasers from 1/2" to 3/4".

**O55GC** Per set **198,00**

Set of no. 4 thread chasers from 1" to 2".

**O55GD** Per set **198,00**

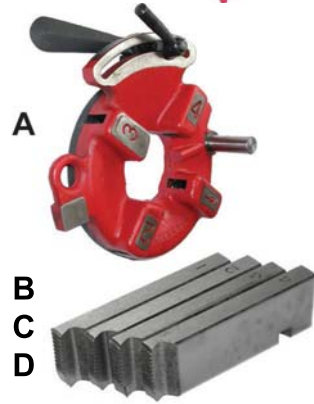
SCU



55G

1

AR



conic gas  
**BSPT** CE

**CUTTING OIL SICUT 22 FOR THREADING MACHINES**

Prod. SCU

Water soluble Type. Suitable for threading pipes in stainless steel.  
 In 5 kg container.

**56** Cad. **63,70**

SCU



56

**PIPE SUPPORTS**

Prod. SCU

Model with adjustable height ranging from 750 - 1,200 mm.  
 Very strong and stable, useful for holding rods or long and heavy tubes, providing the stability which is needed for a perfect rotation and threading.  
 With 2 rollers. Weight 5 Kg.

**60** Cad. **440,00**

SCU



60



# Servizi Web Sicutool

## Il catalogo su carta, flip-book, PDF e web

### RICHIEDERE COPIE DEL CATALOGO SICUTOOL

- [www.sicutool.it/richiesta-cataloghi](http://www.sicutool.it/richiesta-cataloghi)

Compilate l'apposito modulo per richiedere ulteriori copie del catalogo su carta o in PDF su chiavetta USB.

### SFOGLIARE ONLINE IL FLIP-BOOK DEL CATALOGO

- [www.sicutool.it/flip-book](http://www.sicutool.it/flip-book)

Sfogliate online il flip-book in italiano o inglese del catalogo Sicutool Utensili 2015. E' disponibile anche l'archivio storico dei flip-book in italiano relativi alle edizioni precedenti del catalogo.

### SALVARE IL CATALOGO IN PDF

- [www.sicutool.it/pdf](http://www.sicutool.it/pdf)

Salvate il PDF del catalogo in italiano o inglese, nella versione con o senza prezzi, per consultarlo su PC, tablet o smartphone senza disporre di connessione a internet.

### CONSULTARE IL CATALOGO WEB

- [www.sicutool.it/catalogo-web](http://www.sicutool.it/catalogo-web)

Consultate online il catalogo web, in italiano e inglese, ricco di approfondimenti tecnici e sempre aggiornato.

**All items are in sequence. It's very easy to find them!**

Pliers for electronics and fine mechanics		From <b>90A</b> To <b>181G</b>
Wire strippers Cable strippers		From <b>186</b> To <b>202GCE</b>
Crimping pliers Crimping pliers for connectors Crimping pliers for terminals Terminals		From <b>202GCP</b> To <b>209V</b>
Pliers		From <b>210GP</b> To <b>347GR</b>
High insulated VDE tools		From <b>350GA</b> To <b>359GE</b>
Wrenches for control cabinets Unravel chains Pliers & wrenches for special usage Multigrip and click pliers - Grip pliers Punching pliers - Folding pliers Punching pliers for eyelits and seals		From <b>359GL</b> To <b>485GL</b>
Staple guns - Staple remover Riveters Threaded rivets pliers Rivets, threaded inserts Saw setting pliers		From <b>486</b> To <b>522GA</b>
Cutters for synthetic materials and fibers Cutters for electronics Cutters Compound action cutters		From <b>546G</b> To <b>599GB</b>
Iron cutters - Cable cutters Rope cutters Pincers - Scissors Knives Drawsprings		From <b>602E</b> To <b>665E</b>
Snips and shears for plate Bar benders Technical pumps Gully pumps Pipe benders - Flaring and expanding tools		From <b>665T</b> To <b>786E</b>



**ELECTRONICS AND FINE MECHANICS PLIERS**

90A

SCU



**Prod. SCU**

In special steel. Hardened noses. Single hinge.  
Soft feel insulated handles, with spring.  
Burnished finish.

With smooth, straight, flat noses.

Type		140	150
Overall length	mm	140	160
Jaws length	mm	16	26
<b>90A</b>	<b>Each</b>	<b>11,90</b>	<b>12,10</b>

90B

SCU



Product description as Art. 90A

With serrated, straight, flat noses.

Type		140	150
Overall length	mm	140	160
Jaws length	mm	16	26
<b>90B</b>	<b>Each</b>	<b>11,90</b>	<b>12,10</b>

90E

SCU



Product description as Art. 90A

With smooth, straight, fine noses.

Type		140	150
Overall length	mm	140	160
Jaws length	mm	16	26
<b>90E</b>	<b>Each</b>	<b>13,10</b>	<b>13,10</b>

90F

SCU



Product description as Art. 90A

With serrated, straight, fine noses.

Type		140	150
Overall length	mm	140	160
Jaws length	mm	16	26
<b>90F</b>	<b>Each</b>	<b>13,30</b>	<b>13,30</b>

90H

SCU



Product description as Art. 90A

With smooth, straight, half-round noses.

Overall length	mm	160
Jaws length	mm	28
<b>90H</b>	<b>Each</b>	<b>13,20</b>

90I

SCU



Product description as Art. 90A

With serrated, straight, half-round noses.

Overall length	mm	160
Jaws length	mm	28
<b>90I</b>	<b>Each</b>	<b>13,20</b>

90P

SCU



Product description as Art. 90A

With smooth, bent, flat noses.

Overall length	mm	140
Jaws length	mm	25
<b>90P</b>	<b>Each</b>	<b>15,10</b>

90R

SCU



Product description as Art. 90A

With serrated, bent, flat noses.

Overall length	mm	140
Jaws length	mm	25
<b>90R</b>	<b>Each</b>	<b>15,30</b>

Product description as Art. 90A

With smooth, bent, half-round noses.

 Overall length mm 140  
 Jaws length mm 25

<b>90S</b>	Each	<b>16,20</b>
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SCU


**90S**

Product description as Art. 90A

With serrated, bent, half-round noses.

 Overall length mm 140  
 Jaws length mm 25

<b>90T</b>	Each	<b>16,20</b>
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SCU


**90T**

For bolt cutters of the same line, see Art. 550 K a 550 Z.

In special steel. Smooth, hardened noses.

Single hinge. Dual component insulated handles, with spring.

Burnished finish.

With straight, flat, smooth noses.

 Overall length mm 125  
 Jaws length mm 23

<b>92GA</b>	Each	<b>12,80</b>
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SCU


**92GA**

Product description as Art. 92GA

With straight, round, smooth noses.

 Overall length mm 125  
 Jaws length mm 25

<b>92GC</b>	Each	<b>13,90</b>
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SCU


**92GC**

Product description as Art. 92GA

With straight, half-round, knurled noses.

 Overall length mm 125  
 Jaws length mm 23

<b>92GE</b>	Each	<b>14,10</b>
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SCU


**92GE**

Product description as Art. 92GA

With bent, half-round, smooth noses.

 Overall length mm 125  
 Jaws length mm 25

<b>92GL</b>	Each	<b>12,80</b>
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SCU


**92GL**

Product description as Art. 92GA

Type with half-round, fine noses, smooth and straight.

 Overall length mm 150  
 Jaws length mm 45

<b>92GP</b>	Each	<b>14,80</b>
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SCU


**92GP**

Product description as Art. 92GA

Universal pliers type, small and handy. Knurled noses.

Overall length mm 125

<b>92GR</b>	Each	<b>15,70</b>
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SCU


**92GR**

For cutters of the same line see Art. 551 G 3-5-7.

93G

SCU

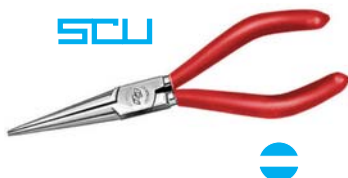


Product description as Art. 92GA  
 Assortment in hard plastic case.  
 The set contains 8 pcs.  
 Composition:  
 1 pliers Art. 92 GE  
 1 pliers Art. 92 GL  
 1 pliers Art. 92 GP  
 1 cutter Art. 551 G 3  
 1 cutter Art. 551 G 7  
 1 tweezers for electronics, fine tips mm 115  
 1 screwdriver for electronics, flat-tipped mm 50x2  
 1 screwdriver for electronics, cross-tipped PH 00

**93G** Each **94,70**

95GA

SCU



Made from forged steel. Extra-long, hardened noses. Single hinge.  
 Plastic-coated handles. Polished finish.  
 Type with straight, grain grip finish, half-round noses.

Overall length mm 160  
 Jaws length mm 58  
**95GA** Each **31,10**

95GE

SCU



Product description as Art. 95GA  
 Type with bent, grain grip finish, half-round noses.

Overall length mm 160  
 Jaws length mm 54  
**95GE** Each **34,30**

100A

SCU

INOX



Made from stainless steel. Long, hardened noses. Single hinge.  
 Plastic-coated handles, with spring.  
 Matt finish.

Type with straight, smooth, flat noses.  
 Overall length mm 150  
 Jaws length mm 47  
**100A** Each **19,60**

100E

SCU

INOX



Product description as Art. 100A  
 Type with straight, smooth, half-round noses.

Overall length mm 150  
 Jaws length mm 47  
**100E** Each **19,60**

100L

SCU

INOX



Product description as Art. 100A  
 Type with bent, smooth, half-round noses.

Overall length mm 150  
 Jaws length mm 43  
**100L** Each **19,60**

For cutters of the same line see Art. 553 A and 553 B

106GA

GEDORE



Orig. Gedore - Art. 8305-9

In special steel. Hardened noses. Double hinge. Dual component insulated handles for comfortable and safe gripping. Double spring-action opening. Polished finish.  
 Type with fine, straight, smooth, flat noses.

Overall length mm 135  
 Jaws length mm 20  
**106GA** Each **55,80**



**Orig. Gedore - Art. 8307-4**

Product description as Art. 106GA

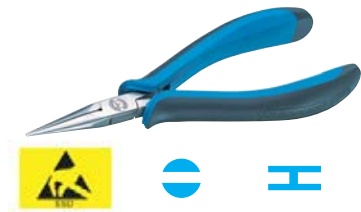
Type with long, fine, smooth, half-round noses.

Overall length	mm	145
Jaws length	mm	31

<b>106GF</b>	Each	<b>56,20</b>
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**GEDORE** 

**106GF**



2

**Orig. Gedore - Art. 8305-2**

Product description as Art. 106GA

Type with extra-long, straight, grain grip finish, half-round noses.

Overall length	mm	165
Jaws length	mm	40

<b>106GL</b>	Each	<b>62,80</b>
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**GEDORE** 

**106GL**



**Orig. Gedore - Art. 8305-6**

Product description as Art. 106GA

Type with extra-long, fine, straight, smooth, half-round noses.

Overall length	mm	160
Jaws length	mm	40

<b>106GP</b>	Each	<b>61,30</b>
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**GEDORE** 

**106GP**



**Orig. Gedore - Art. 8307-3**

Product description as Art. 106GA

Type with fine, bent, grain grip finish, half-round noses.

Overall length	mm	140
Jaws length	mm	31

<b>106GR</b>	Each	<b>60,30</b>
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**GEDORE** 

**106GR**



**Orig. Gedore - Art. 8307-7**

Product description as Art. 106GA

Type with extra-long, bent, smooth, half-round noses.

Overall length	mm	165
Jaws length	mm	35

<b>106GT</b>	Each	<b>56,20</b>
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For cutters in the same range see Art. 557 G to 557 GZ.

**GEDORE** 

**106GT**



**Prod. SCU**

Made from stainless steel. Hardened noses. Double hinge.

Plastic-coated handles, with spring. Polished finish.

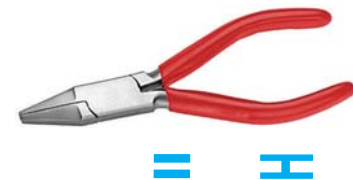
Type with straight, smooth, flat noses.

Overall length	mm	<b>115</b>	<b>130</b>
Jaws length	mm	23	26

<b>110A</b>	Each	<b>16,90</b>	<b>16,90</b>
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**SCU** **INOX**

**110A**



Product description as Art. 110A

Type with straight, grain grip finish, flat noses.

Overall length	mm	130
Jaws length	mm	26

<b>110B</b>	Each	<b>16,90</b>
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**SCU** **INOX**

**110B**





Product description as Art. 110A  
 Type with straight, smooth, round noses.

Overall length	mm	130
Jaws length	mm	26
<b>110C</b>	<b>Each</b>	<b>17,10</b>



Product description as Art. 110A  
 Type with straight, smooth, half-round noses.

Overall length	mm	<b>115</b>	<b>130</b>
Jaws length	mm	23	26
<b>110E</b>	<b>Each</b>	<b>17,20</b>	<b>17,20</b>



Product description as Art. 110A  
 Type with straight, grain grip finish, half-round noses.

Overall length	mm	130
Jaws length	mm	26
<b>110F</b>	<b>Each</b>	<b>17,20</b>



Product description as Art. 110A  
 Type with bent, smooth, half-round noses.

Overall length	mm	140
Jaws length	mm	38
<b>110L</b>	<b>Each</b>	<b>17,60</b>

For bolt cutters of the same line, see Art. 560 A a 560 D.



In stainless steel. Smooth, hardened noses. Double hinge.  
 Plastic-coated handles, with spring. Bright finish.  
 Assortment in sturdy rollable fabric bag.  
 The set contains 6 pcs.  
 Composition:  
 1 pliers Art. 110 A 130  
 1 pliers Art. 110 C  
 1 pliers Art. 110 E 130  
 1 pliers Art. 110 L  
 1 cutter Art. 560 A  
 1 cutter Art. 560 B 130

<b>110T</b>	<b>Each</b>	<b>137,00</b>
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**STAINLESS STEEL, ANTIMAGNETIC PRECISION TWEEZERS FOR ELECTRONICS**



**Prod. SCU**  
 In stainless steel, antimagnetic, non-reflective, hardened.  
 Smooth gripping surfaces, suitable for printed circuits and microelectronics applications.  
 Short tweezers with straight, fine, convex tips

Overall length	mm	110
<b>130A</b>	<b>Each</b>	<b>4,30</b>



Product description as Art. 130A  
 Short tweezers with straight, extra-fine tips (Mod. 5).

Overall length	mm	110
<b>130C</b>	<b>Each</b>	<b>4,54</b>

Product description as Art. 130A

Tweezers with long, straight, fine tips, strong clamping (Mod. 00).

Overall length mm 120  
**130D** Each **4,04**

SCU INOX

130D



Product description as Art. 130A

Tweezers with rounded, straight, flat tips (Mod. 2A).

Overall length mm 120  
**130E** Each **4,30**

SCU INOX

130E



Product description as Art. 130A

Tweezers with straight, fine tips, strong clamping (Mod. AA).

Overall length mm 120  
**130F** Each **4,12**

SCU INOX

130F



Product description as Art. 130A

Narrow, long tweezers with straight, fine tips (Mod. SS).

Overall length mm 135  
**130H** Each **4,34**

SCU INOX

130H



Product description as Art. 130A

Short tweezers with curved, fine, convex tips (Mod. 3CB).

Overall length mm 110  
**130L** Each **4,58**

SCU INOX

130L



Product description as Art. 130A

Short tweezers with oblique, extra-fine tips (Mod. 5A).

Overall length mm 120  
**130M** Each **4,34**

SCU INOX

130M



Product description as Art. 130A

Tweezers with curved, fine tips, strong clamping (Mod. 2B).

Overall length mm 115  
**130P** Each **4,04**

SCU INOX

130P



Product description as Art. 130A

Tweezers with rounded, curved, flat tips (Mod. 2AB).

Overall length mm 120  
**130R** Each **4,00**

SCU INOX

130R



Product description as Art. 130A

Tweezers with curved, fine tips (Mod. SSC).

Overall length mm 135  
**130T** Each **4,00**

SCU INOX

130T



Assortment in a plastic bag.

Contains 6 items.

Composition:

- 1 pliers Art. 130 A
- 1 pliers Art. 130 C
- 1 pliers Art. 130 D
- 1 pliers Art. 130 E
- 1 pliers Art. 130 L
- 1 pliers Art. 130 P.


**131A** Each **25,80**

SCU INOX

131A



**133A** **SCU** **INOX**



In stainless steel, antimagnetic, non-reflective, hardened.  
Smooth gripping surfaces, suitable for handling and assembling electronic components.  
Tweezers with rounded, flat tips.

Overall length	mm	120
<b>133A</b>	<b>Each</b>	<b>3,92</b>

**133B** **SCU** **INOX**



Product description as Art. 133A  
Tweezers with large, flat tips.

Overall length	mm	106
<b>133B</b>	<b>Each</b>	<b>3,92</b>

**133E** **SCU** **INOX**



Product description as Art. 133A  
Self-locking type with sharp tips.

Overall length	mm	120
<b>133E</b>	<b>Each</b>	<b>4,12</b>


**133F** **SCU** **INOX**



Product description as Art. 133A  
Self-locking type with curved sharp tips.

Overall length	mm	120
<b>133F</b>	<b>Each</b>	<b>4,12</b>


**135GA** **SCU** **INOX**



In stainless steel 18/10, hardened.  
Suitable for handling electronic components.  
Smooth gripping surfaces.  
Suitable for flat components.

Overall length	mm	145
Operating parts width	mm	5
<b>135GA</b>	<b>Each</b>	<b>5,48</b>


**135GE 1** **SCU** **INOX**  
**135GE 3**  
**135GF**



Product description as Art. 135GA  
Tweezers with hollow tips for flat components.

Art.	<b>135GE 1</b>	<b>135GE 3</b>	<b>135GF</b>	
Useful capacity Ø	mm	1,5	3,5	5
Operating parts width	mm	3,5	3,5	5
Overall length	mm	120	120	145
<b>Each</b>	<b>6,06</b>	<b>6,06</b>	<b>6,06</b>	

**135GH** **SCU** **INOX**




Product description as Art. 135GA  
Tweezers with hollow tips for oblique components with Ø from 5 mm.

Overall length	mm	145
Operating parts width	mm	5
<b>135GH</b>	<b>Each</b>	<b>6,86</b>

### ELECTRONICS TWEEZERS

**135GP** **SCU**



**Prod. SCU**  
In hardened steel, PTFE-coated.  
Particularly suitable for use with acids, liquid binders, etc.  
With rounded, straight tips.

Overall length	mm	145
<b>135GP</b>	<b>Each</b>	<b>5,48</b>


**135GS** **SCU**



Product description as Art. 135GP  
Type with fine, curved tips. With pin.

Overall length	mm	155
<b>135GS</b>	<b>Each</b>	<b>5,28</b>

**136GA** **SCU**



In hardened steel, PCV-coated. Serrated tips.  
With rounded, straight tips.

Overall length	mm	145
<b>136GA</b>	<b>Each</b>	<b>5,10</b>

**136GB** **SCU**



Product description as Art. 136GA  
With fine, curved tips.

Overall length	mm	155
<b>136GB</b>	<b>Each</b>	<b>5,40</b>

In hardened steel, insulation up to 1000 V. Nickel-plated finish.  
Serrated tips.

With rounded, straight tips.

Overall length	mm	145
<b>138GA</b>	Each	<b>20,40</b>

SCU



**138GA**



Product description as Art. 138GA

With fine, curved tips.

Overall length	mm	155
<b>138GB</b>	Each	<b>21,80</b>

SCU



**138GB**



In stainless steel. Polished finish. Self-locking, serrated tips.

Overall length	mm	160
<b>139</b>	Each	<b>10,90</b>

SCU

INOX

**139**



**PLASTIC TWEEZERS**

**Prod. SCU**

Made from nylon fibre which is resistant to heat up to 130° C and acids. Non-magnetic, insulating.

Type with grain grip finish tips.

Overall length	mm	105
<b>140</b>	Each	<b>1,96</b>

SCU

**140**



**STEEL TWEEZERS**

**Prod. SCU**

In stainless steel

Narrow type with smooth, flat tips.

Overall length	mm	120
<b>142</b>	Each	<b>3,92</b>

SCU

INOX

**142**



Product description as Art. 142

Large type with smooth, flat tips.

Overall length	mm	125
<b>145</b>	Each	<b>3,92</b>

SCU

INOX

**145**



Product description as Art. 142

EXTRA-large type with smooth, flat tips. Strong clamping.

Overall length	mm	140
<b>145P</b>	Each	<b>4,16</b>

SCU

INOX

**145P**



In hardened steel. Nickel-plated finish.

Tweezers with serrated, sharp, fine tips.

Overall length	mm	160
<b>146GA</b>	Each	<b>5,88</b>

SCU

**146GA**



In stainless steel

Tweezers with serrated, rounded, fine tips.

Overall length	mm	160
<b>146GB</b>	Each	<b>5,48</b>

SCU

INOX

**146GB**



Product description as Art. 146GB

Tweezers with serrated, rounded, straight tips.

Overall length	mm	160	200
<b>146P</b>	Each	<b>4,08</b>	<b>4,94</b>

SCU

INOX

**146P**



Product description as Art. 146GB

Tweezers with serrated, rounded, straight tips. With guide pin.

Overall length	mm	145
<b>150</b>	Each	<b>4,12</b>

SCU

INOX

**150**



151  
151G

SCU INOX



Product description as Art. 146GB  
Tweezers with serrated, fine, curved tips. With guide pin.

Overall length	mm	155
<b>151</b>	<b>Each</b>	<b>4,00</b>

In hardened steel. Nickel-plated finish.  
Tweezers with serrated, fine, curved tips. With guide pin.

Overall length	mm	155
<b>151G</b>	<b>Each</b>	<b>4,12</b>

155

SCU INOX



In stainless steel  
Printer's tweezers with serrated tips.

Overall length	mm	165
<b>155</b>	<b>Each</b>	<b>3,92</b>

159

SCU INOX



Product description as Art. 155  
Tweezers with curved, hardened tips. Self-locking with gripping pads.

Overall length	mm	160
<b>159</b>	<b>Each</b>	<b>4,54</b>

### STEEL TWEEZERS WITH LENS

165

SCU INOX



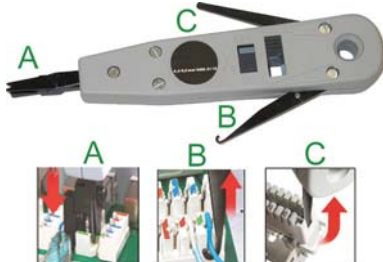
**Prod. SCU**  
Fully stainless steel articulated body.  
Tweezers with smooth, flat, fine tips, length 80mm. Lens diameter 25mm.  
5x magnification.

<b>165</b>	<b>Each</b>	<b>10,80</b>
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### WIRE STRIPPERS FOR TEFLON INSULATION

170G

SCU



**Prod. SCU**  
Tool made of plastic material to insert cables in trays, electric sockets and electric boards.  
Suitable for UTP and STP cables Ø 0,4 to 0,8mm. Insertion and residual cable cut-off in one step.  
With draw hook and release blade. Overall length 175mm.

<b>170G</b>	<b>Each</b>	<b>73,10</b>
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### ELECTRONICS WIRE STRIPPERS

175

SCU



**Prod. SCU**  
In special steel. Hardened noses. Single hinge.  
Soft feel insulated handles, with spring. Burnished finish.  
Pliers-type with adjustment system to strip wire without damaging it.

Capacity for Ø	mm	0.20 to 0.64
Overall length	mm	141
<b>175</b>	<b>Each</b>	<b>19,10</b>

176A

SCU



Product description as Art. 175  
Combined type with wire stripper, shears, pliers.

Capacity for Ø	mm	0.2 to 0.8
Overall length	mm	168
<b>176A</b>	<b>Each</b>	<b>12,20</b>

176B

SCU



Product description as Art. 175  
Combined type with wire stripper, shears, pliers.

Capacity for Ø	mm	0.8 to 2.6
Overall length	mm	168
<b>176B</b>	<b>Each</b>	<b>12,20</b>

Products for mechanics and electricians, see Art. 574 G.

**WIRE STRIPPERS FOR FIBRE OPTICS**
**Prod. SCU**

In special steel. Hardened noses. Dual component handles. With adjustment system for stripping wires without causing damage. Double wire stripper to remove primary and secondary coating from wires max Ø up to 125 µm.

Overall length	mm	135
<b>180G</b>	Each	<b>90,80</b>

**SCU**


For optical fiber

**180G**
**2**
**WIRE STRIPPERS FOR TEFLON INSULATION**
**Prod. SCU**

In special steel. Hardened noses. Dual component handles. With double-step adjustment/clamping system for stripping PTFE-coated copper wires from 0,005 to 0,14 sqmm (AWG 40-26). First step for wires 0,02/0,01 sqmm. and 0,008/0,005 (AWG 34/36 and 38/40). Second step for wires 0,14/0,08 sqmm. And 0,06/0,03 sqmm (AWG 26/28 and 30/32).

Overall length	mm	135
<b>181G</b>	Each	<b>110,00</b>

**SCU**


For PTFE

**181G**
**WIRE STRIPPER**
**Prod. SCU**

Interchangeable jaws in hardened steel. Plastic gripping pads.

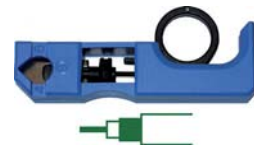
Wires Ø	mm	<b>0,5</b>	<b>0,6</b>	<b>0,8</b>	<b>1,0</b>
Overall length	mm	130	130	130	130
<b>186</b>	Each	<b>7,04</b>	<b>7,04</b>	<b>7,04</b>	<b>7,04</b>

**SCU**

**186**

Versatile and compact, body made of synthetic material. Suitable for stripping any kind of standard cables as well as RG 58/59/62 coaxial cables, UTP and STP cables. Adjustable blade cutting depth.

Overall length	mm	100
For cables with ext. Ø	mm	0,75 to 10
<b>186G</b>	Each	<b>19,10</b>

**SCU**

**186G**

Suitable for stripping coaxial cables and highly flexible cables. Adjustable blade cutting depth by pressing the operating parts. Opening spring and locking button. Body made of synthetic material reinforced with fiberglass. Of small dimensions for places difficult to access.

Overall length	mm	110
Capacity for sections	mm <sup>2</sup>	3x0.75-10-16
For co-axial cables with ext. Ø	mm	4,8 to 7,5
<b>187G</b>	Each	<b>18,20</b>

**SCU**

**187G**

Suitable for stripping very long coaxial cables and highly flexible cables. Adjustable blade cutting depth by jaw pressure. Body made of synthetic material reinforced with fiberglass. Side cable cutter.

Overall length	mm	120
Capacity for sections	mm <sup>2</sup>	3x0.75-10-16
For co-axial cables with ext. Ø	mm	4,8 to 7,5
<b>188G</b>	Each	<b>22,50</b>

**SCU**

**188G**

Universal type suitable for stripping wires, cables and coaxial cables. Used for removing the insulating covering, both longitudinally and transversally. Adjustable blade by jaw pressure. Plastic handle.

Overall length	mm	135
Capacity for sections	mm <sup>2</sup>	0,5 to 16
For co-axial cables with ext. Ø	mm	4 to 8
For cables with ext. Ø	mm	4 to 13
<b>189G</b>	Each	<b>20,50</b>

**SCU**

**189G**

Spring type. Suitable for automatically removing the insulating covering from conductors. Body made of synthetic material reinforced with fiberglass. Steel blades. With indication of the stripping length from 8mm to 20mm. Wire cutter included.

Overall length	mm	150
Capacity for sections	mm <sup>2</sup>	0,5 to 6
<b>190G</b>	Each	<b>21,80</b>

**SCU**

**190G**

Spare blades for Art.190 G.

<b>O190G</b>	Per pair	<b>5,04</b>
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190GF

SCU



Combined type. Suitable for automatically removing the insulating covering from conductors and fixing terminals. Body made of synthetic material reinforced with fiberglass.

Steel blades. Stripping length 5mm. Wire cutter included.

For insulated terminals from 0.5 to 2.5 sqmm and 4 to 6 sqmm.

Overall length mm 150

Capacity for sections mm<sup>2</sup> 0,5 to 6

**190GF** Each **64,90**

Spare blades for Art.190 GF.

**O190GF** Per pair **5,04**

### WIRE STRIPPERS PLIERS

191GB

GEDORE



**Orig. Gedore - Art. 8098 JC**

In high-resistance steel. Hardened cutting edges.

For removing the insulating coating without damaging the copper cable.

Capacity 0,8 to 6 sqmm. Dual component insulated handles.

Chrome-plated noses.

Overall length mm 160

**191GB** Each **31,60**

When stocks are depleted, we will provide pliers with handles in different form.

191GP

SCU



**Prod. SCU**

Product description as Art. 191GB

Polished jaws.

Overall length mm 160

**191GP** Each **24,30**

VDE-EN 60900 safety insulation type, see Art. 352 GP-352 GR-355 GR.

### SELF-ADJUSTING WIRE STRIPPING PLIERS

192GB

GEDORE



**Orig. Gedore - Art. 8099 JCP**

Self-adjusting type according to the external diameter of the insulated cable.

Complete with steel blades perfectly adhering to the insulation.

Chrome-plated head. Dual component insulated handles.

Capacity for sections mm<sup>2</sup> 0.5 to 5

Overall length mm 150

**192GB** Each **70,10**

When stocks are depleted, we will provide pliers with handles in different form.

192GF

SCU



**Prod. SCU**

Pistol-type.

Body made of polyamide and fiberglass. Insulated, for wires 0.2 to 6 sqmm. And cable cutter up to Ø 2mm.

Overall length mm 180

**192GF** Each **27,40**

193G

SCU



Professional type. Suitable for stripping single, multiple, thin wires with resin or rubber sheath. Self-adjusting blades according to the external diameter of the wire sheaths. Sheath removal without scratching the conductors. Cutting blades in hardened steel. Body made of plastic material reinforced with fiberglass. Handles covered in soft anti-slip material. Light and sturdy. Adjustable stripping length from 5 to 15mm.

A cable cutter is inserted on the pliers head.

Capacity for sections mm<sup>2</sup> 0,2 to 1,5

Overall length mm 160

**193G** Each **92,80**

193GF

SCU



Professional type. Suitable for stripping cables of different sizes. Self-adjusting blades according to the external diameter of the cable sheaths. Sheath removing without scratching the conductors. Cutting blades in hardened steel. Body made of plastic material reinforced with light and rugged fiberglass for stripping rigid and flexible conductors and thin metal straps. Adjustable stripping length from 5 to 20mm.

A cable cutter is inserted on the pliers head.

Capacity for sections mm<sup>2</sup> 0.08 to 6

Overall length mm 200

**193GF** Each **92,80**



Professional type. Suitable for stripping cables of different sizes. Self-adjusting blades according to the external diameter of the cable sheaths. Sheath removing without scratching the conductors. Cutting blades in hardened steel. Body made of plastic material reinforced with light and rugged fiberglass for stripping rigid and flexible conductors and thin metal straps. Adjustable stripping length from 3 to 18mm.

A cable cutter is inserted on the pliers head.

Size		<b>10</b>	<b>16</b>
Capacity for sections	mm <sup>2</sup>	0.03 to 10	2.5 to 16
Overall length	mm	200	200
<b>193GL</b>	Each	<b>112,00</b>	<b>157,00</b>

**SCU**

**193GL**



2

**Orig. Marvel**

Industrial type. In just one operation, it removes the rubber or plastic insulation from conductors. Length 180mm+H161.

Adjustment guide for the length of the insulation to remove.

Hardened knives, reinforced body, ribbed handle.

For conductors int. Ø from 0,5 to 2mm.

<b>195GA</b>	Each	<b>49,40</b>
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**195GA**

Product description as Art. 195GA

For conductors int. Ø from 1 to 3,2mm.

<b>195GB</b>	Each	<b>49,40</b>
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**195GB**

Product description as Art. 195GA

For braided conductors as per DIN 0,5-0,75-1-1,5-2,5-4-6 sqmm

<b>195GD</b>	Each	<b>49,40</b>
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**195GD**

Product description as Art. 195GA

Also for multiple wire conductors 1,25-16-28 sqmm .

<b>195GP</b>	Each	<b>57,40</b>
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Product running out of stock.



**195GP**

**Prod. SCU - Art. Mod. PTS**

Suitable for frontal stripping of insulated simple and multiple wires.

Combined with side wire cutter.

Hardened blades in high resistance steel.

Body made of fiberglass and sheet steel.

One-hand operated return spring..

Blade pressure adjustment ring.

Cut-depth stop plate.

Capacity for sections mm<sup>2</sup> 0.2 to 6

Overall length mm 170

<b>196</b>	Each	<b>24,90</b>
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**SCU**

**196**



**Prod. SCU**

Suitable for frontal stripping. A through opening in the body allows better performance on short wires and laid long cables.

Combined with side wire cutter up to Ø 3mm.

High-resistance hardened steel blades.

Body made of reinforced fiberglass.

One-hand operated return spring.

Blade pressure adjustment ring.

Cut-depth stop plate.

For insulated simple and multiple wires and flat cables

Capacity for sections mm<sup>2</sup> 0.5 to 16

Overall length mm 210

<b>196G</b>	Each	<b>74,30</b>
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**SCU**

**196G**



**196GE**

Product description as Art. 196G  
For round cables, insulated simple and multiple wires.

Capacity for sections	mm <sup>2</sup>	0,5 to 16
Overall length	mm	210
<b>196GE</b>	<b>Each</b>	<b>74,30</b>

**196GP**

Product description as Art. 196G  
For round cables, single or multiple insulated wires, used in the field of solar and photovoltaic panel installation.

Capacity for sections	mm <sup>2</sup>	1,5 to 6
Overall length	mm	210
<b>196GP</b>	<b>Each</b>	<b>87,90</b>

### UNIVERSAL MULTIPURPOSE WIRE STRIPPERS

**197G****Prod. SCU**

Type with insulated dual component handle, strong clamping.  
Suitable for stripping electric cables Ø 8 to 13mm, PVC insulated cables up to Ø 9mm, coaxial cables with external Ø 4,8 to 7,5mm, wire 0,5 to 6 sqmm.  
With 2 double bits, cross and flat (PZ 1/3,5x0,6 - PZ 2/4x0,8) working as a phase-detecting screwdriver. Voltage 110 to 250 V.

<b>197G</b>	<b>Each</b>	<b>58,20</b>
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### SPRING WIRE STRIPPERS

**198G**  
*new***Prod. SCU**

Universal type to strip wires and cables.  
With insulated handle made of dual component material and rotating blade for circular and longitudinal incisions. Blade depth adjustment: screw.

Capacity for Ø	mm	4 to 28
Capacity for section cables	mm <sup>2</sup>	0,5 to 6
<b>198G</b>	<b>Each</b>	<b>20,40</b>

**199GA**

Type with insulated dual component handle and rotating blade for circular and longitudinal cutting.  
Blade depth: by adjusting screw.

With phase-detector without contact, with light indicator. Voltage 50 to 600 V (frequency 50-60 Hz). For alternate current flow check in electric sockets, plugs, electric switches, lamps, cables, fuses EVEN VOLTAGE FREE. Provided with 2 button batteries 1.5 V (see Art. SCU 3600 A). Operating temperature 0° to 40°C.

Capacity for Ø	mm	4 to 28
<b>199GA</b>	<b>Each</b>	<b>37,70</b>

**199GL**  
**199GN**

Type with insulated bicomponent handle and rotating blade for circular and longitudinal cutting.  
Blade depth: by adjusting screw.

Art.	<b>199GL</b>	<b>199GN</b>
Capacity for Ø	mm	4 to 16    8 to 28
<b>Each</b>	<b>11,50</b>	<b>11,50</b>

**199GP**  
**199GR**

Product description as Art. 199GL

Art.	<b>199GP</b>	<b>199GR</b>
Capacity for Ø	mm	28 to 35    35 to 50
<b>Each</b>	<b>18,80</b>	<b>19,80</b>

Product description as Art. 199GL  
With straight blade and hook, retractable.

Capacity for Ø	mm	4 to 28
<b>199GRE</b>	Each	<b>15,40</b>

SCU


**199GRE**

Product description as Art. 199GL

With straight fixed blade and hook.

Capacity for Ø	mm	4 to 28
<b>199GS</b>	Each	<b>13,60</b>

SCU


**199GS**

Product description as Art. 199GL

Long straight fixed blade type.

Capacity for Ø	mm	4 to 28
<b>199GT</b>	Each	<b>13,60</b>

SCU


**199GT**

Suitable for circular and longitudinal cutting to remove insulating sheaths from conductors. Body made of synthetic material reinforced with fiberglass.

Hardened steel blade. With cutter for cutting cables up to 2 sqmm. For stripping cables from 0,5 to 6 sqmm. Complete with spring and lock.

Length 150mm.

Capacity for Ø	mm	8 to 13
<b>199GTA</b>	Each	<b>31,10</b>

SCU


**199GTA**

Suitable for circular and longitudinal cutting to remove insulating sheaths from conductors. Body made of synthetic material reinforced with fiberglass.

Steel blade, adjustable blade depth. Cable holding device adjustable in two positions. Back blade to remove the insulation from conductors 0,5 to 6 sqmm. Length 155mm.

Capacity for Ø	mm	4 to 28
<b>199GV</b>	Each	<b>47,20</b>

SCU


**199GV**

Spare blades for Art. 199 GV.

<b>O199GV</b>	Each	<b>7,98</b>
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For removing insulating cable conductor sleeves with circular and longitudinal incision. Body coated steel, steel blade.

Adjustable blade depth, bow cable sealing chuck

Side button for blade to be set at 90°. Length 90 mm.

Capacity for Ø	mm	4.5 to 28.5
Blade max depth	mm	3
Weight	grams	120

<b>200G</b>	Each	<b>42,20</b>
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SCU


**200G**

For spare blades see Art. O200 GA.

For removing insulating sheaths from conductors through circular and longitudinal cutting. Body made of coated steel, steel blade.

Blade depth adjustment, self-locking cable holding device.

Side button for blade orientation to 90°. Automatic blade retract at handle end for removing insulation from conductors. Length mm 135.

Capacity for Ø	mm	4.5 to 28.5
Blade max depth	mm	3
Weight	grams	120

<b>200GA</b>	Each	<b>47,80</b>
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SCU


**200GA**

Spare blades for Art.200 GA.

<b>O200GA</b>	Each	<b>8,48</b>
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### CABLE STRIPPER FOR INDUSTRIAL USE

**Prod. SCU**

For removing insulating sheaths from conductors, even coaxial, through circular and longitudinal cutting. Body made of coated steel, steel blade. Blade depth adjustment, cable holding device adjustable through a locking knurled roller. Side button for blade orientation to 90°. Length 160mm.

Capacity for Ø	mm	8 to 33
Blade max depth	mm	4,5
Weight	grams	165

<b>201G</b>	Each	<b>120,00</b>
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SCU


**201G**

Spare blades for Art.201 G.

<b>O201GP</b>	Each	<b>14,30</b>
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202GA  
202GB

SCU



For removing thick insulating sheaths from large conductors through circular, longitudinal and diagonal cutting. Body in high-resistance steel and die-cast ALUMINIUM alloy. SUPER-RAPID steel blade. With micrometric screw for blade depth adjustment

. Knife step-rotation by 45° - 90° - 180°. Extractable handle for adjustment and clamping in the desired diameters. With rollers for easy sliding on the sheath, rapid closing for cable clamping.

Capacity for Ø	mm	16 to 36
Blade max depth	mm	5
Weight	grams	580.

**202GA** Each **209,00**

Product running out of stock.

Product description as Art. 202GA

The 202 GB type is equipped with 2 inserts:

length mm 95 for cables ext. Ø from 30 to 52 mm

length mm 127 for cables ext. Ø from 20 to 44 mm.

Capacity for Ø	mm	20 to 52
Blade max depth	mm	5
Weight	grams	640

**202GB** Each **580,00**

Spare blades for Art.202 GA-B.

**O202G** Each **16,80**

202GC

SCU



For removing thick insulating sheaths from conductors through circular and longitudinal cutting. Body in fiberglass reinforced polyamide.

Blade and knurled sliding wheel made of steel. Blade depth adjustment through special screw. Reversible blade to be used in both directions and sides.

Capacity by Ø	mm	25
Blade max depth	mm	5
Overall length as closed	mm	150

**202GC** Each **389,00**

Spare blades for Art. 202 GC.

**O202GC** Each **112,00**

202GCE

GEDORE



Orig. Gedore - Art. 137 ISOCUT

For stripping ground or high voltage cables with 1 or more insulating layers up to a diameter of 42 mm. Allows the possibility to perform circular and longitudinal cuts by rotating the blade, and by pressing the button on the head of the pliers. Adjustable screw depth cuttings. Immediate clamping and release, covered by a lever. Drop forged jaws and a hardened body made from sturdy sheet steel.

Capacity for Ø up to	mm	42
Cutting max depth	mm	14
Weight	Kg	0,840

**202GCE** Each **217,00**

Product running out of stock.

### CRIMPING PLIERS FOR COAXIAL CONNECTORS

202GCP

GEDORE



Orig. Gedore - Art. 8140

Professional modular ratchet crimping tool to crimp most of mechanical, electric and electronic connectors.

The pliers can be equipped with different modular bits.

Use pros: crimping reliability and precision thanks to parallel stroke mechanism. User-friendly due to perfect visibility during crimping process and rapid release function for bit replacement with no tool required. Tool lightness assures max. comfort. Easy- to-use thanks to the interchangeable modular bits clearly marked according to their use. Versatility and low price for a pliers to be used with different kinds of connectors (power, coaxial, phone and optical fibres connectors).

PLIERS WITHOUT BITS

Overall length	mm	234
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**202GCP** Each **108,00**

**Orig. Gedore - Art. 8140-01**

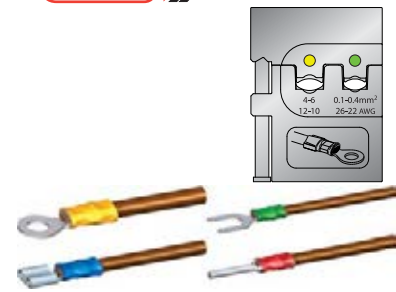
MODULAR BITS FOR PLIERS ART. 202 GCP

Connector type Pre-insulated terminals  
 For cables by mm<sup>2</sup> 0,1-0,4 + 4-6 (AWG 26-22 + 12-10)

<b>202GCS 1</b>	Each	<b>59,70</b>
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**202GCS 1**



**Orig. Gedore - Art. 8140-02**

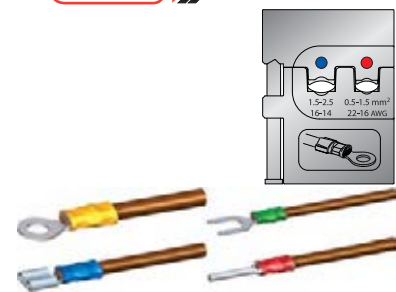
MODULAR BITS FOR PLIERS ART. 202 GCP

Connector type Pre-insulated terminals  
 For cables by mm<sup>2</sup> 0,5-1,5 + 1,5-2,5 (AWG 22-16 + 16-14)

<b>202GCS 2</b>	Each	<b>59,70</b>
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**202GCS 2**



**Orig. Gedore - Art. 8140-03**

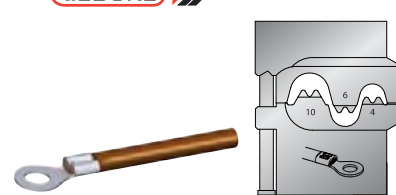
MODULAR BITS FOR PLIERS ART. 202 GCP

Connector type Pre-insulated terminals  
 For cables by mm<sup>2</sup> 4-6-10

<b>202GCS 3</b>	Each	<b>59,70</b>
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**202GCS 3**



**Orig. Gedore - Art. 8140-04**

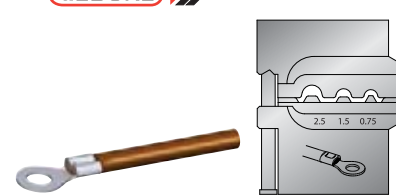
MODULAR BITS FOR PLIERS ART. 202 GCP

Connector type Pre-insulated terminals  
 For cables by mm<sup>2</sup> 0,75-1,5-2,5

<b>202GCS 4</b>	Each	<b>59,70</b>
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**202GCS 4**



**Orig. Gedore - Art. 8140-05**

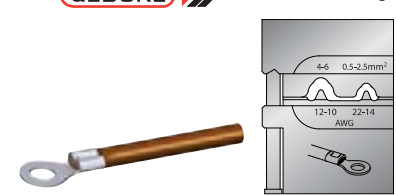
MODULAR BITS FOR PLIERS ART. 202 GCP

Connector type Pre-insulated terminals  
 For cables by mm<sup>2</sup> 0,5-2,5 + 4-6 (AWG 22-14 + 12-10)

<b>202GCS 5</b>	Each	<b>59,70</b>
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**202GCS 5**



**Orig. Gedore - Art. 8140-06**

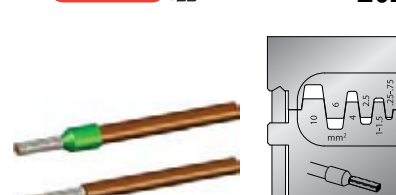
MODULAR BITS FOR PLIERS ART. 202 GCP

Connector type Bush terminal  
 For cables by mm<sup>2</sup> 0,25-10

<b>202GCS 6</b>	Each	<b>59,70</b>
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**202GCS 6**



**Orig. Gedore - Art. 8140-07**

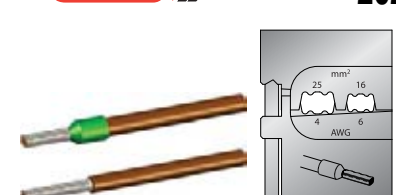
MODULAR BITS FOR PLIERS ART. 202 GCP

Connector type Bush terminal  
 For cables by mm<sup>2</sup> 16-25 (AWG 6-4)

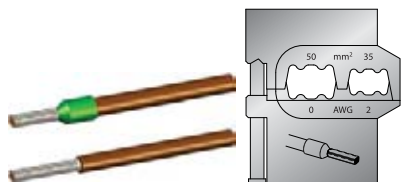
<b>202GCS 7</b>	Each	<b>71,60</b>
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**202GCS 7**

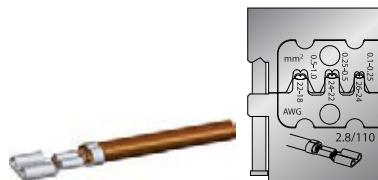


**202GCS 8**



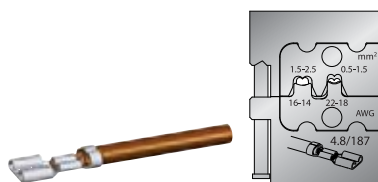
**Orig. Gedore - Art. 8140-08**  
 MODULAR BITS FOR PLIERS ART. 202 GCP  
 Connector type Bush terminal  
 For cables by mm<sup>2</sup> 35-50 (AWG 2-0)  
**202GCS 8** Each **71,60**

**202GCS 9**



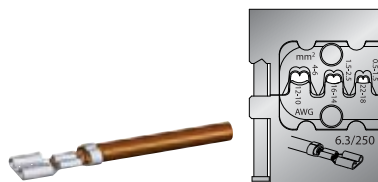
**Orig. Gedore - Art. 8140-09**  
 MODULAR BITS FOR PLIERS ART. 202 GCP  
 Connector type Female plate terminals  
 For cables by mm<sup>2</sup> 0,1-1 (AWG 26-18)  
**202GCS 9** Each **108,00**

**202GCS 10**



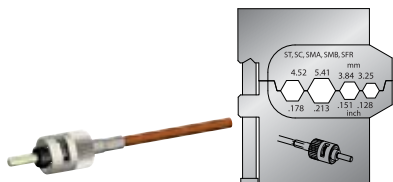
**Orig. Gedore - Art. 8140-10**  
 MODULAR BITS FOR PLIERS ART. 202 GCP  
 Connector type Female plate terminals  
 For cables by mm<sup>2</sup> 0,5-2,5 (AWG 22-14)  
**202GCS 10** Each **108,00**

**202GCS 11**



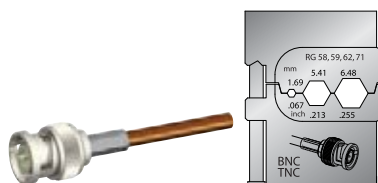
**Orig. Gedore - Art. 8140-11**  
 MODULAR BITS FOR PLIERS ART. 202 GCP  
 Connector type Female plate terminals  
 For cables by mm<sup>2</sup> 0,5-6 (AWG 22-10)  
**202GCS 11** Each **108,00**

**202GCS 12**



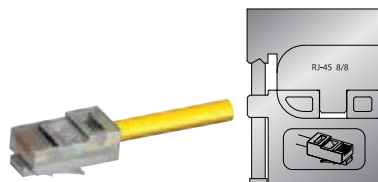
**Orig. Gedore - Art. 8140-12**  
 MODULAR BITS FOR PLIERS ART. 202 GCP  
 Connector type Female plate terminals  
 For cables by mm<sup>2</sup> 4,52/5,41/3,84/3,25 (AWG 0,178/0,213/0,151/0,128)  
**202GCS 12** Each **71,60**

**202GCS 14**



**Orig. Gedore - Art. 8140-14**  
 MODULAR BITS FOR PLIERS ART. 202 GCP  
 Connector type Coaxial connectors  
 For cables by mm<sup>2</sup> 1,69/5,41/6,48 (AWG 0,067/0,213/0,255)  
**202GCS 14** Each **71,60**

**202GCS 16**



**Orig. Gedore - Art. 8140-16**  
 MODULAR BITS FOR PLIERS ART. 202 GCP  
 Connector type Coaxial connectors  
 For cables by mm<sup>2</sup> RJ-45 8/8  
**202GCS 16** Each **71,60**

Prices in EURO - VAT not included

**Orig. Gedore - Art. 8140-17**

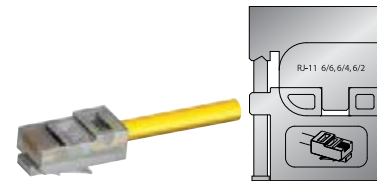
MODULAR BITS FOR PLIERS ART. 202 GCP

Connector type Telephone connectors  
For cables by mm<sup>2</sup> RJ-11 6/6 6/4 6/2

<b>202GCS 17</b>	Each	<b>71,60</b>
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**202GCS 17**



**2**

**Orig. Gedore - Art. 8140-18**

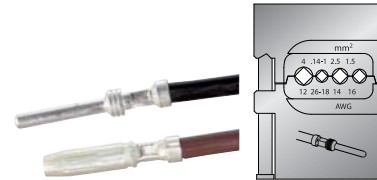
MODULAR INSERTS FOR PLIERS ART. 202 GCP

Connector type Power connectors  
For cables by mm<sup>2</sup> 0,14 - 4 (AWG 26-12)

<b>202GCS 18</b>	Each	<b>108,00</b>
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**202GCS 18**



**Orig. Gedore - Art. 8140-19**

MODULAR INSERTS FOR PLIERS ART. 202 GCP

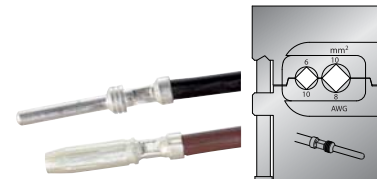
Connector type Power connectors  
For cables by mm<sup>2</sup> 6-10 (AWG 10-8)

<b>202GCS 19</b>	Each	<b>105,00</b>
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Product running out of stock.



**202GCS 19**



**Orig. Gedore - Art. 8140-20**

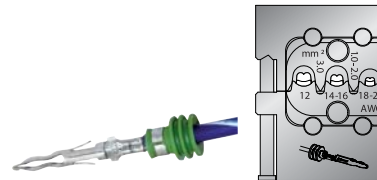
MODULAR INSERTS FOR PLIERS ART. 202 GCP

Connector type Connectors with sealing flap  
For cables by mm<sup>2</sup> 0,5 - 3 (AWG 20 - 12)

<b>202GCS 20</b>	Each	<b>108,00</b>
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**202GCS 20**



**Orig. Gedore - Art. 8140-21**

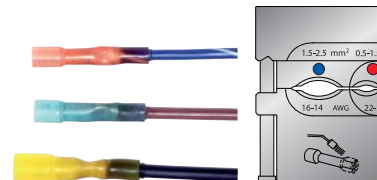
MODULAR INSERTS FOR PLIERS ART. 202 GCP

Connector type Heat shrink pipes Dura Seal  
For cables by mm<sup>2</sup> 0,5 - 1,5 / 1,5 - 2,5 (AWG 22 - 16 / 16 - 14)

<b>202GCS 21</b>	Each	<b>108,00</b>
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**202GCS 21**



**Orig. Gedore - Art. 8140-22**

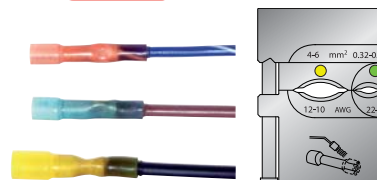
MODULAR INSERTS FOR PLIERS ART. 202 GCP

Connector type Heat shrink pipes Dura Seal  
For cables by mm<sup>2</sup> 0,32 - 0,75 / 4 - 6 (AWG 22 - 18 / 12 - 10)

<b>202GCS 22</b>	Each	<b>108,00</b>
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**202GCS 22**



**Orig. Gedore - Art. 8140-23**

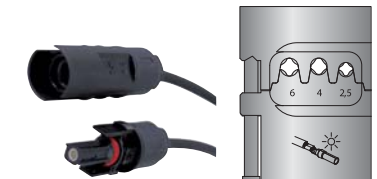
MODULAR INSERTS FOR PLIERS ART. 202 GCP

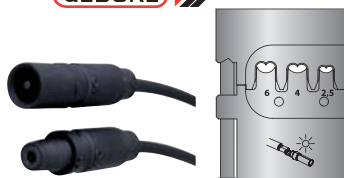
Connector type For TYCO SOLARLOK  
For cables by mm<sup>2</sup> 2,5 - 4 - 6

<b>202GCS 23</b>	Each	<b>147,00</b>
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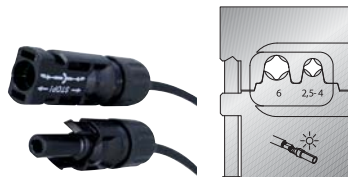
**202GCS 23**



**202GCS 24** 


**Orig. Gedore - Art. 8140-24**  
 MODULAR INSERTS FOR PLIERS ART. 202 GCP  
 Connector type For MULTI CONTACT MC 3  
 For cables by mm<sup>2</sup> 2,5 - 4 - 6

<b>202GCS 24</b>	Each	<b>147,00</b>
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**202GCS 25** 


**Orig. Gedore - Art. 8140-25**  
 MODULAR INSERTS FOR PLIERS ART. 202 GCP  
 Connector type For MULTI CONTACT MC 4  
 For cables by mm<sup>2</sup> 2,5 - 4 - 6

<b>202GCS 25</b>	Each	<b>169,00</b>
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**202GD** 


**Prod. SCU**  
 Professional modular tool with bit-loaded handle and 5 interchangeable bits to crimp most of mechanical and electronic connectors. Automatic opening pliers once the terminal is locked. In special steel, ground and hardened operating parts. Dual component coated handles. Equipped with clamping and locking device in case of faulty cabling. Easy bit replacement with no tool required.

**BIT PLIERS**

For pre-insulated terminals for 0.5 -6sqmm cables  
 For non-insulated terminals for 0.5-10sqmm cables  
 For non-insulated open terminals for 0.5-6sqmm cables  
 For end sleeves for 0.25-6sqmm cables  
 For non-insulated joint connectors for 1.5-10sqmm cables.

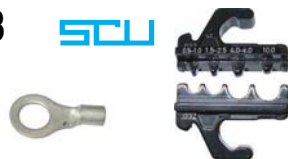
<b>202GD</b>	Each	<b>436,00</b>
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Pliers 202 GD with 3 bits (instead of 5) for pre-insulated terminals, non-insulated open terminals and end sleeves is available on request.

**202GDA** 


**SPARE BITS FOR PLIERS ART. 202 GD**  
 For pre-insulated terminals for 0.5-1.5 / 1.5-2.5 / 4-6sqmm cables.

<b>202GDA</b>	Each	<b>88,20</b>
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**202GDB** 


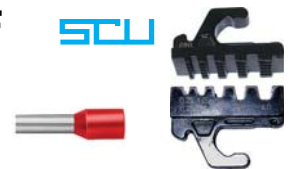
**SPARE BITS FOR PLIERS ART. 202 GD**  
 For non-insulated terminals for 0.5- 1.0 / 1.5-2.5 / 4-6 / 10sqmm cables.

<b>202GDB</b>	Each	<b>88,20</b>
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**202GDE** 


**SPARE BITS FOR PLIERS ART. 202 GD**  
 For non-insulated open terminals for 0.5-1.0 / 1.5-2.5 / 4-6sqmm cables .

<b>202GDE</b>	Each	<b>88,20</b>
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**202GDF** 


**SPARE BITS FOR PLIERS ART. 202 GD**  
 For end sleeves for 0.25-0.75 / 1.0-1.5 / 2.5 / 4 / 6sqmm cables.

<b>202GDF</b>	Each	<b>88,20</b>
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**202GDL** 


**SPARE BITS FOR PLIERS ART. 202 GD**  
 For non-insulated head connectors for 1.5 / 2.5 / 4 / 6 / 10sqmm cables.

<b>202GDL</b>	Each	<b>88,20</b>
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**CRIMPING PLIERS FOR "WESTERN" PLUGS**
**Prod. SCU**

In special steel, ground, hardened operating parts. Handles coated with synthetic material. Suitable for cutting, stripping and crimping "Western" plugs, particularly used in telephony and communication systems. With spring.

For 4-poles connectors RJ-10 (4P4C).

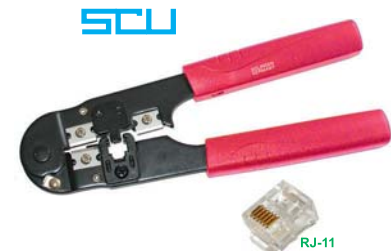
Overall length	mm	190
<b>202GE</b>	Each	<b>30,40</b>


**202GE**
2

Product description as Art. 202GE

For 6-poles connectors RJ-11 (6P4C)/RJ-12 (6P6C).

Overall length	mm	190
<b>202GF</b>	Each	<b>32,40</b>


**202GF**

Product description as Art. 202GE

For 8-poles connectors RJ-45 (8P8C).

Overall length	mm	190
<b>202GH</b>	Each	<b>34,50</b>


**202GH**

Automatic opening once the terminal is locked. In special steel, ground and hardened operating parts. Synthetic material coated handles. Used for cutting, stripping flat cables and crimping "Western" plugs, particularly used in telephony and communication systems.

For connectors RJ-10 (4P2C e 4P4C)/RJ-11 (6P4C)/RJ-12 (6P6C)/RJ-45 (8P8C - 10P6C - 10P8C).

Overall length	mm	200
<b>202GL</b>	Each	<b>110,00</b>


**202GL**

Automatic opening once the terminal is locked. In special steel, ground and hardened operating parts. Synthetic material coated handles. Equipped with release device in case of faulty cabling. Used for cutting and stripping flat cables 6 and 12mm length. To clamp "Western"-type modular terminals, particularly used in telephony and communication systems.

For connectors RJ-10 and RJ-22 (4P2C and 4P4C)/RJ-11 (6P4C)/RJ-12 (6P6C)/RJ-45 (8P8C).

Overall length	mm	200
<b>202GP</b>	Each	<b>86,80</b>


**202GP**
**CRIMPING PLIERS FOR COAXIAL CONNECTORS**
**Prod. SCU**

Automatic opening once the terminal is locked. In special steel, ground and hardened operating parts. Synthetic material coated handles. With release device in case of faulty cabling. For clamping BNC-TNC coaxial connectors, internal conductor 1,72mm, shielding 5,4 and 6,48mm.

Overall length	mm	240
<b>202GT</b>	Each	<b>56,80</b>

Not available spare inserts.


**202GT**

**CRIMPING PLIERS FOR SCOTCHLOK CONNECTORS**

203G


**Prod. SCU**

In special steel. Polished head, plastic-coated handles.  
Nose parallel clamping, induction hardened cutter.  
With spring.

Suitable for clamping SCOTCHLOK connectors.

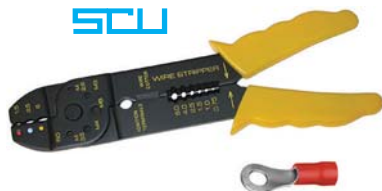
Overall length mm 150

<b>203G</b>	Each	<b>31,30</b>
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Scotchlok


**CRIMPING PLIERS FOR PRE-INSULATED TERMINALS**

204G


**Prod. SCU**

In alloy steel, hardened operating parts. With cable cutter. PVC-coated handles.

Cable lugs for cables by mm<sup>2</sup> 1.5 to 6

Bolt cutters by M 2.6 to 5

Stripper for cables by mm<sup>2</sup> 0.75 to 6

Overall length mm 205

<b>204G</b>	Each	<b>6,06</b>
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205G

**Orig. Marvel**

In special steel. Combined with threaded screw cutters, wire strippers and cable cutters with lapped cutting edges additionally induction hardened. Plastic-coated handles. Thickness 3,2mm.  
Joint pin amply dimensioned and hardened.

Cable lugs for cables by mm<sup>2</sup> 1.5 to 6

Bolt cutters by M 2.6 to M 5

Stripper for cables by mm<sup>2</sup> 0.75 to 6Wire cutter by mm<sup>2</sup> 0.5 to 6

Overall length mm 220

<b>205G</b>	Each	<b>18,60</b>
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**PLIERS FOR INSULATED WIRE TERMINALS**

205G 8


**Prod. SCU**

Professional heavy type, mod. ZENITH C60 made from special steel. Working parts are hardened and finely tuned.

Combined with threaded cutters, wire strippers and cutters with edges which have been further hardened through induction. Handle with plastic coating. 4 mm thick. Generously sized hinge pin, tempered, and finely tuned.

Cable lugs for cables by mm<sup>2</sup> 1,5 to 8

Bolt cutters by M 2,5 to M 5

Wire cutter by inches W 3/32 to W 3/16

Stripper for cables by mm<sup>2</sup> 2 to 8Wire cutter by mm<sup>2</sup> 0,5 to 8

Overall length mm 215

<b>205G 8</b>	Each	<b>47,70</b>
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**CRIMPING PLIERS FOR PRE-INSULATED TERMINALS**

205GA


**Orig. Gedore - Art. 8101**

Combined with wire strippers and cable cutters with cutting edges additionally induction hardened. In alloy steel. Nickel-plated finish with burnished operating parts. Grip type movement.

Cable lugs for cables by mm<sup>2</sup> 0.5 to 6Stripper for cables by mm<sup>2</sup> 0.5 to 6Wire cutter by mm<sup>2</sup> 0.5 to 6

Overall length mm 220

<b>205GA</b>	Each	<b>143,00</b>
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Product running out of stock.

205GB  
new

**Orig. Gedore - Art. 8155**

Professional with automatic opening after locking. In special steel, operating parts hardened and ground. Insulated handles, in synthetic material. With release device in case faulty wiring.

Cable lugs for cables by mm<sup>2</sup> 0,5 to 6

Overall length mm 220

<b>205GB</b>	Each	<b>143,00</b>
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**Prod. SCU**

Combined opening once the terminal is locked. In special steel, ground and hardened operating parts. Synthetic material coated handles.

Equipped with release device in case of faulty cabling.

Cable lugs for cables by mm<sup>2</sup> 1.5 to 6

Overall length mm 230

**205GC** Each **56,80**

Not available spare inserts.


**Orig. Marvel**

Double-lever pliers with fine tooth movement for terminal clamping.

Automatic opening once the terminal is locked.

CHROME-MOLYBDENUM steel head, fully hardened, lapped cutting edges. Polypropylene-coated handles.

Cable lugs for cables by mm<sup>2</sup> 1.5 to 6

Overall length mm 240

**205GD** Each **134,00**



Double-lever pliers with fine tooth movement for terminal clamping and automatic opening once the terminal is locked.

CHROME-MOLYBDENUM steel head, fully hardened, lapped cutting edges. Insulated handles.

Cable lugs for cables by mm<sup>2</sup> 1.5 to 2.5

Overall length mm 255

**205GE** Each **130,00**



Product description as Art. 205GE

Cable lugs for cables by mm<sup>2</sup> 2.5 to 5.5

Overall length mm 275

**205GF** Each **164,00**


**COMBINED CRIMPING PLIERS FOR TERMINALS**
**Orig. Marvel**

In special steel, hardened and lapped operating parts. Sturdy plastic-coated handles. Thickness 3,2mm.

Hinge pin amply dimensioned and hardened.

For pre-insulated and non-insulated open terminals.

Pre-insulated cable lugs for cables by mm<sup>2</sup> 1.5 to 6

Non-insulated cable lugs for cable by mm<sup>2</sup> 1.5 to 6

Bolt cutters by M2,6 to M5

Stripper for cables by mm<sup>2</sup> 0.75 to 6

Wire cutter by mm<sup>2</sup> 0.5 to 6

Overall length mm 235

**205GT** Each **21,90**



Product description as Art. 205GT

For pre-insulated and non-insulated terminals.

Pre-insulated cable lugs for cables by mm<sup>2</sup> 1.5 to 6

Non-insulated cable lugs for cable by mm<sup>2</sup> 1.5 to 6

Bolt cutters by M2.6 to M5

Stripper for cables by mm<sup>2</sup> 0.75 to 6

Wire cutter by mm<sup>2</sup> 0.5 to 6

Overall length mm 235

**205GV** Each **21,90**


**Prod. SCU**

In special steel, hardened operating parts. Synthetic material coated handles.

For pre-insulated and non-insulated terminals.

Pre-insulated cable lugs for cables by mm<sup>2</sup> 1.5 to 6

Non-insulated cable lugs for cable by mm<sup>2</sup> 1.5 to 6

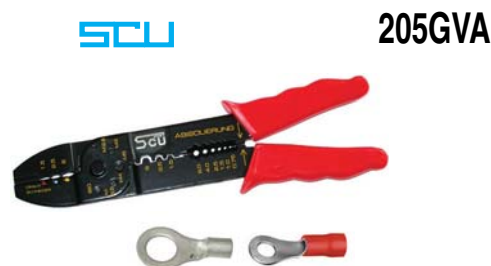
Bolt cutters by M2.6 to M5

Stripper for cables by mm<sup>2</sup> 0.75 to 6

Wire cutter by mm<sup>2</sup> 0.75 to 6

Overall length mm 220

**205GVA** Each **15,70**



**CRIMPING PLIERS FOR NON-INSULATED TERMINALS**

206G

**Orig. Marvel**

In special steel. Combined with threaded screw cutters, wire strippers and cable cutters with lapped cutting edges additionally induction hardened.

Plastic-coated handles. Thickness 3,2mm.

Joint pin amply dimensioned and hardened.

Cable lugs for cables by mm<sup>2</sup> 1.5 to 6

Bolt cutters by M2.6 to M5

Stripper for cables by mm<sup>2</sup> 0.75 to 6

Wire cutter by mm<sup>2</sup> 0.5 to 6

Overall length mm 220

**206G** Each **18,60**

206GA

**Orig. Gedore - Art. 8103**

Combined with wire strippers and cable cutters with cutting edges additionally induction hardened. In alloy steel. Nickel-plated finish with burnished operating parts. Grip type movement.

Cable lugs for cables by mm<sup>2</sup> 0.5 to 10

Stripper for cables by mm<sup>2</sup> 0.5 to 6

Wire cutter by mm<sup>2</sup> 0.5 to 6

Overall length mm 210

**206GA** Each **176,00**

Product running out of stock.

206GB

new

**Orig. Gedore - Art. 8157**

Professional with automatic opening after locking. In special steel, operating parts hardened and ground. Insulated handles, in synthetic material. With release device in case faulty wiring.

Cable lugs for cables by mm<sup>2</sup> 0,1 to 16

Overall length mm 220

**206GB** Each **149,00**

206GC

**Prod. SCU**

Combined opening once the terminal is locked. In special steel, ground and hardened operating parts. Synthetic material coated handles.

Equipped with release device in case of faulty cabling.

Cable lugs for cables by mm<sup>2</sup> 0.25 to 10

Overall length mm 260

**206GC** Each **56,80**

206GD

**Orig. Marvel**

Double-lever pliers with fine tooth movement for terminal clamping.

Automatic opening once the terminal is locked.

CHROME-MOLYBDENUM steel head, fully hardened, lapped cutting edges. Polypropylene-coated handles.

Cable lugs for cables by mm<sup>2</sup> 1.5 to 10

Overall length mm 240

**206GD** Each **136,00**

206GE



Double-lever pliers with fine tooth movement for terminal clamping and automatic opening once the terminal is locked.

CHROME-MOLYBDENUM steel head, hardened operating parts, lapped cutting edges. Insulated handles.

Cable lugs for cables by mm<sup>2</sup> 0.5 to 10

Overall length mm 230

**206GE** Each **82,80**

206GF



Product description as Art. 206GE

Cable lugs for cables by mm<sup>2</sup> 1.5 to 16

Overall length mm 240

**206GF** Each **117,00**

Product description as Art. 206GE

Cable lugs for cables by	mm <sup>2</sup>	8 to 38
Overall length	mm	330
<b>206GH 1</b>	<b>Each</b>	<b>155,00</b>

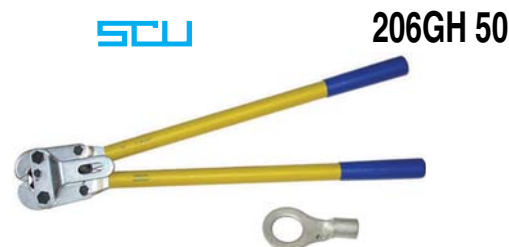

**Prod. SCU**

Double-lever type for effort reduction.

In pressed steel. Steel pipe handles with soft synthetic material coated handles.

The rotating disk can be positioned on the desired value, in hardened special steel. For non-insulated terminals and junctions.

Cable lugs for cables by	mm <sup>2</sup>	6-10-16-25-35-50
Overall length	mm	600
Weight	Kg	2,4
<b>206GH 50</b>	<b>Each</b>	<b>336,00</b>

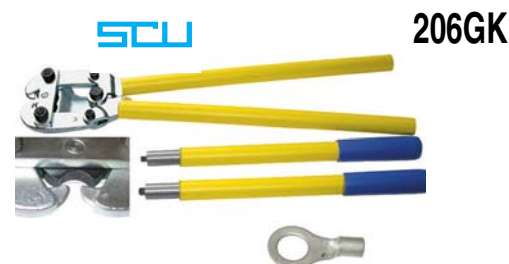


Double-lever type for effort reduction. In pressed steel. Steel pipe handles and detachable extensions with soft synthetic material coated handles.

The rotating disk can be positioned on the desired value, in hardened special steel. For non-insulated terminals and junctions.

Cable lugs for cables by	mm <sup>2</sup>	50-70-95-120
Overall length	mm	970
Weight	Kg	4,400
<b>206GK</b>	<b>Each</b>	<b>343,00</b>

Similar products with capacity from 120 to 240 sqmm are available on request.


**HYDRAULIC PLIERS FOR NON-INSULATED TERMINALS AND "C" CONNECTORS**
**Prod. SCU**

High-performance professional type for non-insulated terminals and "C" connectors. Hydraulic lever operated.

180° revolving head. Max pressure 50 KN. In high-resistance steel, burnished, with rubber handle. Pliers length 360mm.

The set contains: 1 hydraulic pliers, 5 couples of dies for non-insulated terminals from 10 to 150 sqmm and 2 couples of dies for "C" connectors from 16 to 35 sqmm.

Pliers weight: kg 2.

In case.

<b>206GK 9</b>	<b>Each</b>	<b>2.260,00</b>
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Couples of spare and additional dies are available on request.


**CRIMPING PLIERS FOR NON-INSULATED OPEN TERMINALS**
**Orig. Marvel**

In special steel. Combined with threaded screw cutters, wire strippers and cable cutters with lapped cutting edges additionally induction hardened. Plastic-coated handles. Thickness 3,2mm. Joint pin amply dimensioned and hardened.

Cable lugs for cables by	mm <sup>2</sup>	1.5 to 6
Bolt cutters by		M 2.6 to M 5
Stripper for cables by	mm <sup>2</sup>	0.75 to 6
Wire cutter by	mm <sup>2</sup>	0.5 to 6
Overall length	mm	220
<b>207G</b>	<b>Each</b>	<b>18,60</b>


**Prod. SCU**

Professional heavy type, mod. ZENITH C60 made from special steel. Working parts are hardened and finely tuned.

Combined with threaded cutters, wire strippers and cutters with edges which have been further hardened through induction. Handle with plastic coating. 4 mm thick. Generously sized hinge pin, tempered, and finely tuned.

Cable lugs for cables by	mm <sup>2</sup>	0 to 8
Bolt cutters by		M 2,5 to M 5
Wire cutter by inches		W 3/32 to W 3/16
Stripper for cables by	mm <sup>2</sup>	2 to 8
Wire cutter by	mm <sup>2</sup>	0,5 to 8
Overall length	mm	215
<b>207G 8</b>	<b>Each</b>	<b>47,70</b>



207GA 

## Orig. Gedore - Art. 8102

Combined with wire strippers and cable cutters with cutting edges additionally induction hardened. In alloy steel. Nickel-plated finish with burnished operating parts. Grip type movement.

Cable lugs for cables by	mm <sup>2</sup>	0.5 to 6
Stripper for cables by	mm <sup>2</sup>	0.5 to 6
Wire cutter by	mm <sup>2</sup>	0.5 to 6
Overall length	mm	220

<b>207GA</b>	Each	<b>193,00</b>
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Product running out of stock.

207GB   
 new 

## Orig. Gedore - Art. 8156

Professional with automatic opening after locking. In special steel, operating parts hardened and ground. Insulated handles, in synthetic material. With release device in case faulty wiring.

Cable lugs for cables by	mm <sup>2</sup>	0,25 to 6
Overall length	mm	220

<b>207GB</b>	Each	<b>154,00</b>
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207GC 

## Prod. SCU

Automatic opening once the terminal is locked. In special steel, ground and hardened operating parts. Synthetic material coated handles. Equipped with release device in case of faulty cabling.

Cable lugs for cables by	mm <sup>2</sup>	0.5 to 6
Overall length	mm	230

<b>207GC</b>	Each	<b>58,80</b>
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Not available spare inserts.

207GD 

## Orig. Marvel

Double-lever pliers with fine tooth movement for terminal clamping.

Automatic opening once the terminal is locked.

CHROME-MOLYBDENUM steel head, fully hardened, lapped cutting edges. Polypropylene-coated handles.

Cable lugs for cables by	mm <sup>2</sup>	0.5 to 4
Overall length	mm	230

<b>207GD</b>	Each	<b>136,00</b>
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## CRIMPING PLIERS FOR END SLEEVES

207GH 

## Prod. SCU

In special hardened steel. Nickel-plated head and insulated handles.

Complete with cutter and wire stripper.

Terminals for cables by	mm <sup>2</sup>	0.25 to 2.5
Overall length	mm	155

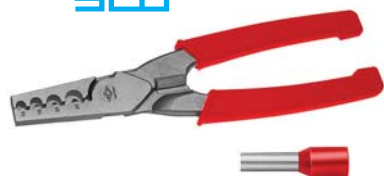
<b>207GH</b>	Each	<b>28,20</b>
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207GL 

## Product description as Art. 207GH

Terminals for cables by	mm <sup>2</sup>	0.5 to 16
Overall length	mm	220

<b>207GL</b>	Each	<b>37,90</b>
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207GM 

In special hardened steel. Nickel-plated head and insulated handles.

Complete with cutter.

Terminals for cables by	mm <sup>2</sup>	10 to 35
Overall length	mm	220

<b>207GM</b>	Each	<b>37,90</b>
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Automatic opening once the terminal is locked. In special steel, ground and hardened operating parts. Synthetic material coated handles. Equipped with release device in case of faulty cabling.

Size		<b>6</b>	<b>16</b>
Terminals for cables by	mm <sup>2</sup>	0.5 to 6	6 to 16
Overall length	mm	210	210
<b>207GP</b>	Each	<b>58,80</b>	<b>58,80</b>

Not available spare inserts.


**207GP**

**2**

Automatic opening at the end of clamping. In special steel, ground and hardened operating parts. Synthetic material coated handles. Adjustable clamping pressure. With release device in case of faulty wire connection.

Size		<b>25</b>	<b>50</b>
Terminals for cables by	mm <sup>2</sup>	10 to 25	35 to 50
Overall length	mm	250	250
<b>207GPA</b>	Each	<b>206,00</b>	<b>263,00</b>


**207GPA**


Automatic opening once the terminal is locked. In special steel, ground and hardened operating parts. Dual component coated handles. Equipped with release device in case of faulty cabling. Rotating jaws for side or frontal terminal connection.

Terminals for cables by	mm <sup>2</sup>	0.14 to 6
Overall length	mm	200
<b>207GR</b>	Each	<b>317,00</b>


**207GR**


Clamping jaws automatic adjustment. Clamping pressure manual adjustment. In special steel, ground and hardened operating parts. Dual component ergonomic handles. Equipped with release device in case of faulty cabling. For hexagonal section cables and side connection of end sleeve terminals.

Terminals for cables by	mm <sup>2</sup>	0.08 to 6
Overall length	mm	175
<b>207GS</b>	Each	<b>239,00</b>


**207GS**


Clamping jaws automatic adjustment. Clamping pressure manual adjustment. In special steel, ground and hardened operating parts. Dual component ergonomic handles. Equipped with release device in case of faulty cabling. For square section cables and side connection of end sleeve terminals.

Terminals for cables by	mm <sup>2</sup>	0.08 to 16
Overall length	mm	180
<b>207GV</b>	Each	<b>221,00</b>


**207GV**


Clamping jaws automatic adjustment. Clamping pressure manual adjustment. In special steel, ground and hardened operating parts. Dual component ergonomic handles. Equipped with release device in case of faulty cabling. For hexagonal section cables and side connection of end sleeve terminals.

Size		<b>10</b>	<b>16</b>
Terminals for cables by	mm <sup>2</sup>	0.08 to 10	0.08 to 10/16
Overall length	mm	190	190
<b>207GVA</b>	Each	<b>226,00</b>	<b>237,00</b>

Art. 207 GVA 10 may also laterally wire terminals for cables up to 2,5 sqmm.


**207GVA**


### CRIMPING PLIERS FOR SOLDERLESS TERMINALS AND CONNECTORS

207GZ

**Orig. Marvel**

Double-lever pliers with fine tooth movement for solderless terminals and connectors.  
CHROME-MOLYBDENUM steel head, hardened operating parts, lapped cutting edges.  
Insulated handles.

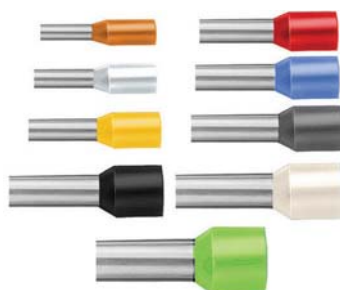
Cable lugs for cables by mm<sup>2</sup> 0.5 to 6  
Overall length mm 265

207GZ	Each	117,00
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### END SLEEVES TERMINALS

208

SCU

**Prod. SCU**

Type for single cable

Made of pre-insulated tin-coated electrolytic copper DIN 46228/2

Pack of terminales mm<sup>2</sup> 0,5 to 6: 100 pcs.Pack of terminales mm<sup>2</sup> 10 to 16: 50 pcs.

For cables by	mm <sup>2</sup>	0,5	0,75	1	1,5	2,5	4	6
Jack length	mm	8	8	8	8	8	9	12
Colour		orange	white	yellow	red	blu	grey	black
208	Per pack	1,84	1,84	1,84	1,84	2,38	3,80	6,14

For cables by	mm <sup>2</sup>	10	16
Jack length	mm	12	12
Colour		ivory	green
208	Per pack	4,56	5,40

208 20

SCU



Specially designed for double cables having the same section.

Made of pre-insulated tin-coated electrolytic copper DIN 46228/2.

0.75- 4sqmm terminal package unit: 100 pcs.

6sqmm terminal package unit: 50 pcs.

For cables by	mm <sup>2</sup>	0,75	1	1,5	2,5	4	6
Jack length	mm	8	8	8	10	12	14
Colour		white	yellow	red	blu	grey	black
208 20	Per pack	4,70	4,74	5,00	5,66	17,10	11,10

### PREINSULATED TERMINALS

208A

SCU

**Prod. SCU**

Made of electrolytic copper, 99,9 insulated surface.

RED and BLUE insulated terminals package unit: 100 pcs.

YELLOW insulated terminals package unit: 50 pcs.

RING TYPE

RED

for 0.25-1.5sqmm cables

Int Ø	mm	2,6	3,2	3,6	4,2	5,2	6,2	8,3
208A	Per pack	10,10	8,52	9,68	9,34	9,18	10,20	17,40

208B

SCU



Product description as Art. 208A

RING TYPE

BLUE

for 1.5-2.5sqmm cables

Int Ø	mm	2,6	3,2	3,6	4,2	5,2	6,2	8,3
208B	Per pack	12,10	10,40	10,50	9,22	9,42	10,60	12,60

208C

SCU



Product description as Art. 208A

RING TYPE

YELLOW

for 4-6sqmm cables

Int Ø	mm	3,6	4,2	5,2	6,2	8,3
208C	Per pack	8,28	7,84	7,88	8,20	10,20

208D

SCU



Product description as Art. 208A

FORK TYPE

RED

for 0.25-1.5sqmm cables

Int. width	mm	3,2	3,7	4,2	5,2	6,2
208D	Per pack	9,04	8,84	8,42	9,22	10,70



Product description as Art. 208A

FORK TYPE

BLUE

for 1.5-2.5sqmm cables

Int. width	mm	3,2	3,7	4,2	5,2	6,2
<b>208E</b>	<b>Per pack</b>	<b>9,62</b>	<b>9,42</b>	<b>9,08</b>	<b>10,20</b>	<b>11,40</b>


**208E**


Product description as Art. 208A

FORK TYPE

YELLOW

for 4-6sqmm cables

Int. width	mm	3,7	4,2	5,2	6,2	8,2
<b>208F</b>	<b>Per pack</b>	<b>8,44</b>	<b>7,74</b>	<b>7,72</b>	<b>8,90</b>	<b>24,20</b>


**208F**


For size 8.2 mm packaging indivisible is 100 pieces instead of 50 pieces.

Product description as Art. 208A

PIN TYPE

RED

for 0.25-1.5sqmm cables

Ø	mm	1,8
Length	mm	12
<b>208G</b>	<b>Per pack</b>	<b>9,34</b>


**208G**


Product description as Art. 208A

PIN TYPE

BLUE

for 1.5-2.5sqmm cables

Ø	mm	1,8
Length	mm	12
<b>208H</b>	<b>Per pack</b>	<b>9,78</b>


**208H**


Product description as Art. 208A

PIN TYPE

YELLOW

for 4-6sqmm cables

Ø	mm	2,6
Length	mm	14
<b>208I</b>	<b>Per pack</b>	<b>8,12</b>


**208I**


Product description as Art. 208A

HEAD CONNECTOR TYPE

RED

for 0.25-1.5sqmm cables

Ø	mm	4
Length	mm	23
<b>208K 1</b>	<b>Per pack</b>	<b>15,10</b>


**208K 1**


Product description as Art. 208A

HEAD CONNECTOR TYPE

BLUE

for 1.5-2.5sqmm cables

Ø	mm	4,5
Length	mm	23
<b>208K 2</b>	<b>Per pack</b>	<b>17,70</b>


**208K 2**


Product description as Art. 208A

HEAD CONNECTOR TYPE

YELLOW

for 4-6sqmm cables

Ø	mm	6,8
Length	mm	27
<b>208K 3</b>	<b>Per pack</b>	<b>12,20</b>


**208K 3**


Product description as Art. 208A

CYLINDRICAL FEMALE TYPE

RED

for 0.25-1.5sqmm cables

internal Ø	mm	4
Length	mm	8,7
<b>208L</b>	<b>Per pack</b>	<b>21,30</b>


**208L**


**208M****SCU**

Product description as Art. 208A

CYLINDRICAL FEMALE TYPE

BLUE

for 1.5-2.5sqmm cables

internal Ø mm 4 5

Length mm 8,7 8,7

**208M** Per pack **23,50** **23,90****208M 1****SCU**

Product description as Art. 208A

CYLINDRICAL FEMALE TYPE

YELLOW

for 4-6sqmm cables

internal Ø mm 5

Length mm 12

**208M 1** Per pack **13,10****208N****SCU**

Product description as Art. 208A

CYLINDRICAL MALE TYPE

RED

for 0.25-1.5sqmm cables

external Ø mm 4

Length mm 8,7

**208N** Per pack **18,20****208P****SCU**

Product description as Art. 208A

CYLINDRICAL MALE TYPE

BLUE

for 1.5-2.5sqmm cables

external Ø mm 4 5

Length mm 8,7 8,7

**208P** Per pack **18,50** **18,10****208P 1****SCU**

Product description as Art. 208A

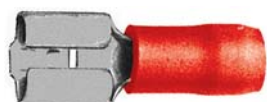
CYLINDRICAL MALE TYPE

YELLOW

for 4-6sqmm cables

external Ø mm 5

Length mm 10

**208P 1** Per pack **11,70****208Q****SCU**

Product description as Art. 208A

LAMINATE FEMALE TYPE

RED

for 0.25-1.5sqmm cables

Width mm 6,6

Length mm 7,8

**208Q** Per pack **17,90****208R****SCU**

Product description as Art. 208A

LAMINATE FEMALE TYPE

BLUE

for 1.5-2.5sqmm cables

Width mm 6,6

Length mm 7,8

**208R** Per pack **18,20****208S****SCU**

Product description as Art. 208A

LAMINATE FEMALE TYPE

YELLOW

for 4-6sqmm cables

Width mm 6,6

Length mm 7,8

**208S** Per pack **13,10****208SA****SCU**

Product description as Art. 208A

LAMINATE FEMALE TYPE - COMPLETELY INSULATED

RED

for 0.25-1.5sqmm cables

Width mm 6,6

Length mm 7,8

**208SA** Per pack **19,80**

Product description as Art. 208A  
 LAMINATE FEMALE TYPE - COMPLETELY INSULATED  
 BLUE  
 for 1.5-2.5sqmm cables  
 Width mm **6,6**  
 Length mm **7,8**  
**208SB** Per pack **20,20**

SCU

**208SB**



2

Product description as Art. 208A  
 LAMINATE FEMALE TYPE - COMPLETELY INSULATED  
 YELLOW  
 for 4-6sqmm cables  
 Width mm **6,6**  
 Length mm **7,8**  
**208SE** Per pack **12,50**

SCU

**208SE**



Product description as Art. 208A  
 LAMINATE MALE TYPE  
 RED  
 for 0.25-1.5sqmm cables  
 Width mm **6,3**  
 Length mm **8**  
**208T** Per pack **17,70**

SCU

**208T**



Product description as Art. 208A  
 LAMINATE MALE TYPE  
 BLUE  
 for 1.5-2.5sqmm cables  
 Width mm **6,3**  
 Length mm **8**  
**208U** Per pack **18,20**

SCU

**208U**



Product description as Art. 208A  
 LAMINATE MALE TYPE  
 YELLOW  
 for 4-6sqmm cables  
 Width mm **6,3**  
 Length mm **8**  
**208V** Per pack **9,88**

SCU

**208V**



Product description as Art. 208A  
 LAMINATE FEMALE-MALE TYPE  
 RED  
 for 0.25-1.5sqmm cables  
 Width mm **6,3**  
 Length mm **7,8**  
**208W** Per pack **24,70**

SCU

**208W**



Product description as Art. 208A  
 LAMINATE FEMALE-MALE TYPE  
 BLUE  
 for 1.5-2.5sqmm cables  
 Width mm **6,3**  
 Length mm **7,8**  
**208Z** Per pack **23,90**

SCU

**208Z**



**NON-INSULATED OPEN TERMINALS**

**Prod. SCU**  
 Made of brass. Terminals package unit: 100 pcs.  
 RING TYPE  
 for 0.5-1sqmm cables  
 internal Ø mm **3,2** **4,3** **5,1**  
**209A** Per pack **7,84** **5,70** **10,70**

SCU

**209A**  
**209B**



Product description as Art. 209A  
 RING TYPE  
 for 1-2.5sqmm cables  
 internal Ø mm **3,2** **4,3** **5,1**  
**209B** Per pack **9,54** **5,96** **6,38**

209E  
209F

SCU



Product description as Art. 209A  
LAMINATE FEMALE TYPE (For male terminals mm 6,3)  
for 0.5-1sqmm cables

Width	mm	7,6
Length	mm	7,6
<b>209E</b>	<b>Per pack</b>	<b>7,94</b>

Product description as Art. 209A  
LAMINATE FEMALE TYPE (For male terminals mm 6,3)  
for 1-2.5sqmm cables

Width	mm	7,6
Length	mm	7,6
<b>209F</b>	<b>Per pack</b>	<b>8,48</b>

209M  
209N

SCU



Product description as Art. 209A  
LAMINATE MALE TYPE (For male terminals mm 7,6)  
for 0.5-1sqmm cables

Width	mm	6,3
Length	mm	6,4
<b>209M</b>	<b>Per pack</b>	<b>8,44</b>

Product description as Art. 209A  
LAMINATE MALE TYPE (For male terminals mm 7,6)  
for 1-2.5sqmm cables

Width	mm	6,3
Length	mm	6,4
<b>209N</b>	<b>Per pack</b>	<b>7,02</b>

## SLEEVES

209PA

SCU



**Prod. SCU**  
Sleeves in polyethylene.  
For flat female laminar type terminals Art. 209 E-F.  
Sleeve package unit: 1000 pcs.

<b>209PA</b>	<b>Per pack</b>	<b>28,30</b>
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209PB

SCU



Product description as Art. 209PA  
For laminate male flat terminals Art. 209 M-N.  
Sleeves package unit: 500 pcs.

<b>209PB</b>	<b>Per pack</b>	<b>19,10</b>
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## INSULATED TERMINALS SETS

209R

SCU



**Prod. SCU**  
3000-pieces assorted set of insulated end sleeves complete with professional pliers. Package especially suited for universal use:  
500 items for each end sleeve Art. 208 0.75 - 1 - 1.5  
250 end sleeves Art. 208 2.5  
200 items for each end sleeve Art. 208 4 / 208 20 0.75- 1 - 1.5  
100 items for each end sleeve Art. 208 6 / 208 20 2.5 - 4  
50 items for each end sleeve Art. 208 10 - 16 / 208 20 6  
1 double lever pliers.

In sturdy and practical case with removable trays.

<b>209R</b>	<b>Each</b>	<b>302,00</b>
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Set assortments are not binding.

209T

SCU



300-pieces assorted set of insulated terminals complete with double lever professional pliers. Package especially suited for industry specific applications:  
25 items for each kind of terminal Art. 208 Ax4,2-5,2 / 208 Bx4,2-5,2 / 208 Cx5,2- 6,2 / 208 Dx3,2- 4,2 / 208 Ex4,2 / 208 G/ 208 H / 208 K2/ 1 double lever pliers.  
In case.

<b>209T</b>	<b>Each</b>	<b>227,00</b>
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Set assortments are not binding.

300-pieces assorted set of insulated terminals complete with double lever professional pliers supplied in handy case. Package especially suited for car specific applications: 25 items for each kind of terminal Art. 208 Bx5.2-6.2 / 208 Cx5.2-6.2 / 208 K2 / 208 Mx5 / 208 Px5 / 208 Rx6.6 / 208 S / 208 U / 208 Z / 208 SB / 1 double lever pliers.

In case.

209V Each 248,00

Set assortments are not binding.



209V

2

### SHORT FLAT NOSE PLIERS

Prod. SCU

Made from high-resistance steel.

Fully hardened. Polished head.

Insulated handles, made from bi-component material. DIN ISO 5745.

Overall length mm 140 160

Jaws length mm 30 32

210GP Each 16,80 19,30



210GP



### SHORT ROUND NOSE PLIERS

Prod. SCU

In high-resistance steel.

Fully hardened. Polished head.

Insulated handles. DIN ISO 5745.

Overall length mm 140 160

Jaws length mm 30 32

211GP Each 16,80 19,30



211GP



In stainless steel

Specially designed for thin wires.

Thin, round noses with cutter, polished version, plastic-coated handles and spring.

Overall length mm 130

Jaws length mm 36

215 Each 25,50



215



In C60 special steel.

Specially designed for thin wires.

Thin, round noses, with induction hardened cutter, also for hard wires, polished head, plastic-coated handles.

Overall length mm 130

Jaws length mm 30

215G Each 18,80



215G



### LONG FLAT NOSE PLIERS

Orig. Gedore - Art. 8120 TL

In high-resistance steel.

Fully oil-hardened and tempered. DIN ISO 5745.

Enamelled black head and plastic-coated handles

Overall length mm 160

Jaws length mm 50

230G Each 21,90



230G



230GB **Orig. Gedore - Art. 8120 JC**

Product description as Art. 230G

Chrome-plated head and dual component insulated handles.

Overall length	mm	160
Jaws length	mm	50
<b>230GB</b>	Each	<b>30,60</b>

When stocks are depleted, we will provide pliers with handles in different form.

230GP **Prod. SCU**

In high-resistance steel.

Fully hardened. DIN ISO 5745.

Polished head and insulated handles, in bi-component material.

Overall length	mm	160
Jaws length	mm	50
<b>230GP</b>	Each	<b>17,70</b>

VDE-EN 60900 insulation type, see Art. 351 GA-352 GA-355 GA.

**LONG ROUND NOSE PLIERS**231G **Orig. Gedore - Art. 8122 TL**

In high-resistance steel.

Fully oil-hardened and tempered. DIN ISO 5745.

Enamelled black head and plastic-coated handles

Overall length	mm	140	160
Jaws length	mm	40	50
<b>231G</b>	Each	<b>21,40</b>	<b>21,30</b>

231GB **Orig. Gedore - Art. 8122 JC**

Product description as Art. 231G

Chrome-plated head and dual component insulated handles.

Overall length	mm	140	160
Jaws length	mm	40	50
<b>231GB</b>	Each	<b>29,50</b>	<b>29,30</b>

When stocks are depleted, we will provide pliers with handles in different form.

231GP **Prod. SCU**

In high-resistance steel.

Fully hardened. DIN ISO 5745.

Polished head and insulated handles.

Overall length	mm	160
Jaws length	mm	50
<b>231GP</b>	Each	<b>18,10</b>

VDE-EN 60900 insulation type, see Art. 352 GE-352 GF-355 GF.

**LONG CHAIN NOSE PLIERS**247G **Orig. Gedore - Art. 8135 TL**

In high-resistance steel.

Fully oil-hardened and tempered, straight, long noses.

DIN ISO 5745 A.

Enamelled black head and plastic-coated handles

Overall length	mm	140	160	200
Jaws length	mm	42	50	70
<b>247G</b>	Each	<b>22,60</b>	<b>23,70</b>	<b>35,70</b>

248G **Orig. Gedore - Art. 8135 JC**

Product description as Art. 247G

Chrome-plated head and dual component insulated handles.

Overall length	mm	140	160	200
Jaws length	mm	42	50	70
<b>248G</b>	Each	<b>29,50</b>	<b>31,20</b>	<b>39,10</b>

Size mm 140 P running out of stock.

When stocks are depleted, we will provide pliers with handles in different form.

**Prod. SCU**

In high-resistance steel.  
Fully hardened, straight, long noses.  
DIN ISO 5745 A.  
Polished head and insulated handles, in bi-component material.

Overall length	mm	160	200
Jaws length	mm	50	75
<b>249G</b>	<b>Each</b>	<b>15,20</b>	<b>17,50</b>



249G

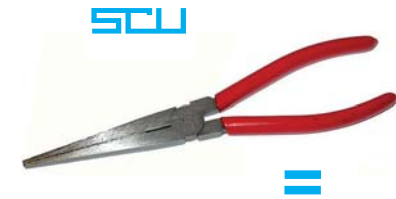
**LONG STRAIGHT FLAT NOSE PLIERS WITH NIPPERS**

**Prod. SCU**

In alloy steel.  
Straight, long noses and side cutter. UNI 7925.

Polished head. Plastic-coated handles.

Overall length	mm	160	200
Jaws length	mm	58	76
<b>249P</b>	<b>Each</b>	<b>25,90</b>	<b>28,80</b>



249P

**LONG CHAIN NOSE PLIERS WITH NIPPERS**

**Prod. SCU**

In alloy steel.  
Straight, long noses and side cutter.  
Chrome-plated head. Insulated handles.

Overall length	mm	160	200
Jaws length	mm	50	70
<b>250B</b>	<b>Each</b>	<b>12,80</b>	<b>15,30</b>



250B

In high-resistance steel.  
Straight, long noses, fully tempered.  
Side cutter. DIN ISO 5745 A.  
Polished head and plastic-coated handles.

Overall length	mm	145	160	200
Jaws length	mm	42	50	75
<b>250GD</b>	<b>Each</b>	<b>12,90</b>	<b>13,10</b>	<b>18,10</b>



250GD

Product description as Art. 250GD  
Polished head and insulated handles, in bi-component material.

Overall length	mm	145	160	200
Jaws length	mm	42	50	75
<b>250GE</b>	<b>Each</b>	<b>14,70</b>	<b>17,50</b>	<b>21,90</b>

Size 145mm: handle in single-component material.  
Size 145mm running out of stock.



250GE

**Orig. Gedore - Art. 8132 TL**

In high-resistance steel.  
Straight, long noses, fully oil-hardened and tempered.  
Side cutter. DIN ISO 5745 A.  
Enamelled black head and plastic-coated handles

Overall length	mm	140	160	200
Jaws length	mm	42	50	75
<b>251G</b>	<b>Each</b>	<b>21,60</b>	<b>21,60</b>	<b>28,20</b>



251G

**Orig. Gedore - Art. 8132 JC**

Product description as Art. 251G  
Chrome-plated head and dual component insulated handles.

Overall length	mm	140	160	200
Jaws length	mm	42	50	75
<b>251GB</b>	<b>Each</b>	<b>27,50</b>	<b>28,20</b>	<b>34,70</b>

VDE-EN 60900 safety insulation type, see Art. 352 GD-352 GE-355 GE.  
When stocks are depleted, we will provide pliers with handles in different form.



251GB

**ELECTRICAL COMBINATION PLIERS**

251GT



**Orig. Gedore - Art. 8133 JC**

Pliers with cutter, terminal clamp and wire stripper size 0.5-1.5-2.5 mm2. Half-round, long noses.

Chrome-plated head and dual component insulated handles.

Overall length mm 180

<b>251GT</b>	Each	<b>39,80</b>
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When stocks are depleted, we will provide pliers with handles in different form.

**LONG FLAT NOSE PLIERS 45° BENDED NOSE WITH NIPPERS**

251P



**Prod. SCU**

In alloy steel.

Curved long noses and side cutter. UNI 7925

Polished head. Plastic-coated handles.

Overall length mm 160 200

Jaws length mm 58 76

<b>251P</b>	Each	<b>28,80</b>	<b>33,40</b>
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**LONG CHAIN NOSE PLIERS, 45° BENDED NOSE**

252B



**Prod. SCU**

In alloy steel.

Long, curved noses and diagonal cutter.

Chrome-plated head and insulated handles.

Overall length mm 160 200

Jaws length mm 50 70

<b>252B</b>	Each	<b>13,10</b>	<b>15,90</b>
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252GD



In high-resistance steel.

Fully hardened, long, curved noses.

Diagonal cutter. DIN ISO 5745.

Polished head and plastic-coated handles.

Overall length mm 160 200

Jaws length mm 50 70

<b>252GD</b>	Each	<b>17,40</b>	<b>22,10</b>
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252GE



Product description as Art. 252GD

Polished head and plastic-coated handles. In bi-component material.

Overall length mm 160 200

Jaws length mm 50 70

<b>252GE</b>	Each	<b>21,70</b>	<b>26,20</b>
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253G



**Orig. Gedore - Art. 8132/AB-TL**

In high-resistance steel.

Fully oil-hardened and tempered, long, curved noses.

Diagonal cutter. DIN ISO 5745.

Enamelled black head and plastic-coated handles

Overall length mm 160 200

Jaws length mm 50 70

<b>253G</b>	Each	<b>24,60</b>	<b>31,80</b>
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253GB



**Orig. Gedore - Art. 8132/AB-JC**

Product description as Art. 253G

Chrome-plated head and dual component insulated handles.

Overall length mm 160 200

Jaws length mm 50 70

<b>253GB</b>	Each	<b>32,60</b>	<b>39,50</b>
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VDE-EN 60900 safety insulation type, see Art. 352 GH-352 GL-355 GL.

When stocks are depleted, we will provide pliers with handles in different form.



**EXTRA-LONG PLIERS WITH CHAIN NOSE FOR ASSEMBLY**

**Prod. SCU**

Made from special high-resistance steel. long noses are fully hardened and chequered. Polished head and plastic handle. A strong grip for all mechanical work and fittings in locations which are difficult to reach. Jaw length 75 mm.

With straight noses, total length 280mm.

<b>260GA</b>	Each	<b>26,90</b>
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Product description as Art. 260GA

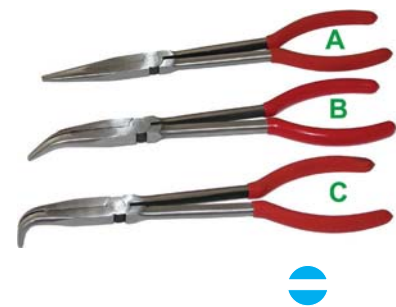
With 45° curved noses, total length 275mm.

<b>260GB</b>	Each	<b>26,90</b>
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Product description as Art. 260GA

With 90° curved noses, total length 260mm.

<b>260GC</b>	Each	<b>26,90</b>
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**260GA**  
**260GB**  
**260GC**

**2**

**CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS, STRAIGHT PATTERN**

**Prod. SCU**

Made of chrome-vanadium steel. Hardened. Burnished. Plastic-coated handles.

Overall length	mm	<b>135</b>	<b>175</b>	<b>210</b>	<b>320</b>
For rings Ø by	mm	8 to 25	19 to 60	40 to 100	85 to 165
<b>274</b>	Each	<b>12,60</b>	<b>12,10</b>	<b>14,20</b>	<b>22,90</b>



**274**

**Orig. Gedore - Art. 8000 J**

Made of chrome-vanadium steel. Hardened noses. Wide hinge with perfectly parallel jaws. Enamelled black head and plastic-coated handles

Overall length	mm	<b>139</b>	<b>140</b>	<b>180</b>	<b>225</b>	<b>315</b>
For rings Ø by	mm	8 to 13	12a 25	19 to 60	40 to 100	85 to 140
<b>274GA</b>	Each	<b>16,80</b>	<b>16,80</b>	<b>17,90</b>	<b>20,10</b>	<b>34,50</b>



**274GA**

**Orig. Gedore - Art. 8000 J**

For rings as per DIN 472 and DIN 984. Interchangeable straight tips. Made of CHROME-VANADIUM STEEL. Hardened noses. Ratchet with clamping lever. Enamelled black finish.

Art.	<b>274GF</b>	<b>274GL</b>	<b>274GN</b>	
Overall length	mm	565	565	575
For rings Ø by	mm	85 to 140	122 to 300	252 to 400
tips Ø	mm	3,2	3,5	4,5
Weight	grams	1890	1890	1900
	Each	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>



**274GF**  
**274GL**  
**274GN**

Spare tips for Art. 274 GF.

<b>O274GF</b>	Per pair	<b>15,40</b>
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Spare tips for Art. 274 GL

<b>O274GL</b>	Per pair	<b>15,40</b>
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Spare tips for Art. 274 GN

<b>O274GN</b>	Per pair	<b>15,40</b>
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**Orig. Gedore - Art. 8005 J**

Patented type, with tips parallel movement. Particularly suitable for high-resistant large rings. Complete with 6 interchangeable tips, for holes with out-of- standard distance between center lines. Ratchet with lock lever. Black enamelled finish. Total length 665mm., for rings Ø from 305mm to 500mm, hole distance between center lines from 80mm to 140mm, tips Ø 4,5/5,9mm, weight 3350gr.

Complete pliers

<b>274GN 6</b>	Each	<b>510,00</b>
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Spare tips for Art. 274 GN 6

Type	1J	
<b>O274GNA</b>	Each	<b>31,20</b>

Type	2J	
<b>O274GNB</b>	Each	<b>31,20</b>

Type	3J	
<b>O274GNC</b>	Each	<b>31,20</b>

Type	4J	
<b>O274GND</b>	Each	<b>31,20</b>

Type	5J	
<b>O274GNE</b>	Each	<b>31,20</b>

Type	6J	
<b>O274GNF</b>	Each	<b>31,20</b>



**274GN 6**

**CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS, CURVED PATTERN**

275

SCU

**Prod. SCU**

In CHROME-VANADIUM steel.

Hardened.

Burnished finish. Plastic-coated handles. Curved bits 90 °.

Overall length	mm	130	170	205	300
For rings Ø by	mm	8 to 25	19 to 60	40 to 100	85 to 165
<b>275</b>	<b>Each</b>	<b>13,20</b>	<b>12,60</b>	<b>15,10</b>	<b>25,10</b>

275GA

GEDORE

**Orig. Gedore - Art. 8000 J**

Made of chrome-vanadium steel. Hardened noses.

Wide hinge with perfectly parallel jaws.

Enamelled black head and plastic-coated handles. 90° curved tips.

Overall length	mm	129	130	170	210	290
For rings Ø by	mm	8 to 13	12 to 25	19 to 60	40 to 100	85 to 140
<b>275GA</b>	<b>Each</b>	<b>18,60</b>	<b>18,90</b>	<b>19,30</b>	<b>21,60</b>	<b>36,80</b>

275GE  
*new*

GEDORE

**Orig. Gedore - Art. 8000 J**

Made from CHROME-VANADIUM steel.

Hardened jaws.

Wide grip with perfectly parallel jaws. Black lacquered head and plastic handles. Nose bent at 45°.

Overall length	mm	139	140	180	225
For rings Ø by	mm	8 to 13	12 to 25	19 to 60	40 to 100
<b>275GE</b>	<b>Each</b>	<b>20,30</b>	<b>20,60</b>	<b>21,10</b>	<b>23,60</b>

275GF  
275GL  
275GM

GEDORE

**Orig. Gedore - Art. 8000 J**

For rings as per DIN 472 and DIN 984.

Interchangeable curved tips. Made of CHROME VANADIUM STEEL. Hardened noses.

Ratchet with clamping lever.

Enamelled black finish.

Art.		<b>275GF</b>	<b>275GL</b>	<b>275GM</b>
Overall length	mm	575	575	579
For rings Ø by	mm	85 to 140	122 to 300	252 to 400
tips Ø	mm	3,2	3,5	4,5
Weight	grams	1940	1940	1960
<b>Each</b>	<b>Each</b>	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>

Spare tips for Art. 275 GF.

<b>O275GF</b>	<b>Per pair</b>	<b>15,40</b>
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Spare tips for Art. 275 GL

<b>O275GL</b>	<b>Per pair</b>	<b>15,40</b>
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Spare tips for Art. 275 GM

<b>O275GM</b>	<b>Per pair</b>	<b>15,40</b>
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**CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS, STRAIGHT PATTERN**

276

SCU

**Prod. SCU**

Made of chrome-vanadium steel.

Hardened.

Burnished. Plastic-coated handles.

Overall length	mm	135	175	210	320
For rings Ø by	mm	10 to 25	19 to 60	40 to 100	85 to 165
<b>276</b>	<b>Each</b>	<b>11,10</b>	<b>12,40</b>	<b>15,40</b>	<b>24,10</b>

276GA

GEDORE

**Orig. Gedore - Art. 8000 A**

Made of chrome-vanadium steel. Hardened noses.

Wide hinge with perfectly parallel jaws.

Enamelled black head and plastic-coated handles

Overall length	mm	139	140	175	225	310
For rings Ø by	mm	3 to 10	10 to 25	19 to 60	40 to 100	85 to 140
<b>276GA</b>	<b>Each</b>	<b>19,40</b>	<b>18,40</b>	<b>20,10</b>	<b>23,50</b>	<b>39,70</b>

**Orig. Gedore - Art. 8000 A**

For rings as per DIN 471 and DIN 983.  
Interchangeable straight tips. Made of CHROME-VANADIUM STEEL. Hardened noses.  
Ratchet with lock lever.  
Enamelled black finish.

Art.		276GF	276GL	276GN
Overall length	mm	550	550	586
For rings Ø by	mm	85 to 140	122 to 300	252 to 400
tips Ø	mm	3,2	3,5	4,5
Weight	grams	1900	1900	1950
	Each	120,00	120,00	120,00

Spare tips for Art. 276 GF.

**O276GF** Per pair **15,40**

Spare tips for Art. 276 GL

**O276GL** Per pair **15,40**

Spare tips for Art. 276 GN

**O276GN** Per pair **15,40**


**276GF**  
**276GL**  
**276GN**

**2**
**Orig. Gedore - Art. 8005 A**

Patented type, with tips parallel movement.  
Particularly suitable for high-resistant large rings.  
Complete with 4 interchangeable tips, for holes with out-of- standard distance between center lines. Ratchet with clamping lever. Black enamelled finish.  
Total length 665mm., for rings Ø from 305mm to 500mm, hole distance between center lines from 18mm to 50mm, tips Ø 4,5/5,9mm, weight 3650gr.

Complete pliers

**276GN 4** Each **467,00**

Spare tips for Art. 276 GN 4

Type 1A  
**O276GNA** Each **27,20**

Type 2A  
**O276GNB** Each **27,20**

Type 3A  
**O276GNC** Each **27,20**

Type 4A  
**O276GND** Each **27,20**


**276GN 4**

**CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS ANGLED PATTERN**
**Prod. SCU**

Made of chrome-vanadium steel. Hardened.  
Burnished. Plastic-coated handles. Curved bits 90 °.

Overall length	mm	130	170	205	300
For rings Ø by	mm	10 to 25	19 to 60	40 to 100	85 to 165
<b>277</b>	Each	11,60	13,10	16,10	26,40


**277**

**Orig. Gedore - Art. 8000 A**

Made of chrome-vanadium steel. Hardened noses.  
Wide hinge with perfectly parallel jaws.  
Enamelled black head and plastic-coated handles. 90° curved tips.

Overall length	mm	129	130	165	210	310
For rings Ø by	mm	3 to 10	10 to 25	19 to 60	40 to 100	85 to 140
<b>277GA</b>	Each	21,10	20,10	21,90	24,50	43,10


**277GA**

**Orig. Gedore - Art. 8000 A**

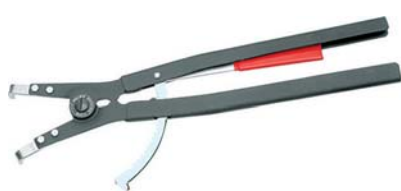
Made from CHROME-VANADIUM steel.  
Hardened jaws.  
Wide grip with perfectly parallel jaws. Black lacquered head and plastic handles. 45° bent nose.

Overall length	mm	139	140	180	225
For rings Ø by	mm	3 to 10	10 to 25	19 to 60	40 to 100
<b>277GE</b>	Each	23,10	21,90	23,90	26,70


**277GE**  
*new*


277GF  
277GL  
277GN

**GEDORE** 



**Orig. Gedore - Art. 8000 A**

For rings as per DIN 471 and DIN 983.  
Interchangeable bent tips. Made of CHROME-VANADIUM STEEL. Hardened noses.  
Ratchet with lock lever.  
Enamelled black finish.

Art.	277GF	277GL	277GN
Overall length	mm 560	560	585
For rings Ø by	mm 85 to 140	122 to 300	252 to 400
tips Ø	mm 3,2	3.5	4.5
Weight	grams 1950	1950	1980
<b>Each</b>	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>

Spare tips for Art. 277 GF.

**O277GF** Per pair **15,40**

Spare tips for Art. 277 GL

**O277GL** Per pair **15,40**

Spare tips for Art. 277 GN

**O277GN** Per pair **15,40**

### COMBINED CIRCLIP PLIERS FOR RETAINING RINGS, STRAIGHT PATTERN

278G

**SCU**



**Prod. SCU**

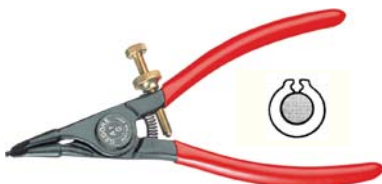
For internal and external rings. In special steel.  
For precision mechanics and electronics.  
Enamelled black finish, plastic-coated handles.

Overall length	mm 200
For int. rings Ø by	mm 19 to 60
For ext. rings Ø by	mm 19 to 45
<b>278G</b>	<b>Each 30,90</b>

### CIRCLIP PLIERS FOR LOOSE RETAINING RINGS

279GA

**GEDORE** 



**Orig. Gedore - Art. 8000 AG**

For external rings, according to DIN 471-983 (Seeger) and DIN 6799 (Benzing).  
In CHROME-VANADIUM steel. Suitable for installing retaining rings on smooth rods. With reinforced, hardened tips.

Black enamelled head and plastic-coated handles. With locking screw.

30° angled pattern 139 and 140mm, straight pattern 170mm.

Overall length	mm 139	140	170
For Seeger rings Ø by	mm 1.5 to 3.5	4 to 9	10 to 15
For Seeger rings Ø by	mm 1.5 to 3.5	3 to 11	12 to 16
<b>279GA</b>	<b>Each 38,40</b>	<b>38,40</b>	<b>39,80</b>

279GB

**GEDORE** 



Product description as Art. 279GA

90° angled pattern.

Overall length	mm 139	140	170
For Seeger rings Ø by	mm 1.5 to 3.5	4 to 9	10 to 15
For Seeger rings Ø by	mm 1.5 to 3.5	3 to 11	12 to 16
<b>279GB</b>	<b>Each 38,40</b>	<b>38,40</b>	<b>39,80</b>

### SET OF CIRCLIP PLIERS FOR RETAINING RINGS

279GP

**GEDORE** 



**Orig. Gedore - Art. S 8100**

Set of assorted pliers for retaining rings, enamelled black head and plastic-coated handles.

4 pieces set:

1 pliers Art. 274 GA x 140

1 pliers Art. 274 GA x 180

1 pliers Art. 276 GA x 140

1 pliers Art. 276 GA x 175

In cardboard box.

**279GP** Each **77,90**

279GS

**GEDORE** 



**Orig. Gedore - Art. S 8000**

Product description as Art. 279GP

4 pieces set:

1 pliers Art. 274 GA x 180

1 pliers Art. 275 GA x 170

1 pliers Art. 276 GA x 175

1 pliers Art. 277 GA x 165

In cardboard box.

**279GS** Each **71,30**

**CRIMPING PLIERS TO STOP WATER FLOWING INTO PIPES**
**Prod. SCU**

Suitable for tightening rubber pipes, without metal reinforcement, radiator, heating system, air conditioning system, water pipes, in the automotive, engineering and maintenance field, etc.

For pipes up to Ø	mm	15	28	55
For pipes min. Ø	mm	8	15	25
Overall length	mm	160	185	250
<b>282E</b>	<b>Each</b>	<b>14,10</b>	<b>23,30</b>	<b>35,20</b>


**282E**

Professional type, very sturdy, made from steel plate.

Easy jaw opening and closing mechanism. Plastic-coated handles. Suitable for tightening rubber pipes, without metal reinforcement, radiator, heating system, air conditioning system, water pipes, in the automotive, engineering and maintenance field, etc.

For pipes Ø	inches	3/4	1.1/4	2.1/2
For pipes Ø	mm	19	30	60
Overall length	mm	135	230	340
<b>282G</b>	<b>Each</b>	<b>29,50</b>	<b>43,70</b>	<b>59,90</b>


**282G**
**HOSE CLAMP PLIERS**
**Prod. SCU**

Made from sturdy sheet steel with handles coated in soft material, and a head composed of special, burnished alloys. Spring ring type with a round cross section.

Jaws with 360° swivelling dowels with grooves for attaching the ends of the rings in places where access is made difficult. Handle with ratchet and stationary movement.

Overall length	mm	215
Jaws max opening	mm	45
<b>283G</b>	<b>Each</b>	<b>48,10</b>


**283G**

Sturdy sheet steel. Adjustable type on 3 positions with fixing lever, for spring rings with simple round section.

Fixed jaws with grooves for the insertion of ring ends.

Overall length	mm	220
Jaws max opening (mm)	mm	90
<b>283GA</b>	<b>Each</b>	<b>45,80</b>


**283GA**

Sturdy sheet steel. For spring rings with simple round section. Jaws with 360° revolving inserts with grooves for the insertion of ring ends even in difficult-to-access areas.

Overall length	mm	200
Jaws max opening (mm)	mm	58
<b>283GE</b>	<b>Each</b>	<b>47,20</b>


**283GE**

Sturdy sheet steel, burnished head in hardened special steel. With fixing lever for simple and bifilar spring rings. Jaws with 360° revolving inserts and grooves for the insertion of ring ends even in difficult-to-access areas. Handles with movement and spring stop.

Overall length	mm	270
Jaws max opening (mm)	mm	112
<b>283GL</b>	<b>Each</b>	<b>65,10</b>


**283GL**

Made from sturdy sheet steel with handles coated in soft material, and a head composed of special, burnished alloys. Spring ring type with a round cross section.

Jaws with 360° swivelling dowels with grooves for attaching the ends of the rings in places where access is made difficult. Handle with ratchet and stationary movement.

Overall length	mm	230
Jaws max opening (mm)	mm	70
<b>284G</b>	<b>Each</b>	<b>53,10</b>


**284G**
**HOSE CLIP PLIERS "CLIC"**
**Prod. SCU**

In forged oil-hardened steel. Spring-equipped hinge. Burnished finish. Plastic-coated handles. For opening/closing "CLIC" and "CLIC R" hose clips from Ø 5 to 30mm. Total length 175mm.

<b>285G</b>	<b>Each</b>	<b>41,80</b>
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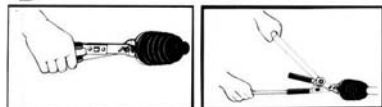

**285G**

### HOSE CLIP PLIERS

285GE



1/2"

**Orig. Klann - Art. KL-0121-90**

Professional type made from special steel, very sturdy, plastic-coated handles.  
Double point rotation hinge to reduce stress.  
1/2" square drives on arms for torque wrench clamping.  
Plastic-coated handles.  
Suitable for clamping hose clips Art. 3474 Z without damaging the pipe.  
Overall length 235 mm.

285GE	Each	143,00
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285GL



1/2"

**Prod. SCU**

Professional type in special steel, very sturdy, plastic-coated handles.  
Double point rotation hinge to reduce stress.  
1/2" square drives on arms for torque wrench clamping.  
Plastic-coated handles.  
Suitable for clamping hose clips Art. 3474 Z without damaging the pipe.  
Overall length 235 mm.

285GL	Each	94,40
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Product running out of stock.

### FLAT NOSE GROZING PLIERS

288GA


**Prod. SCU**

Made of alloy forged steel.  
Flat noses.

Overall length	mm	200
288GA	Each	39,60

### UNIVERSAL PLIERS, TYPE FIT

289G


**Prod. SCU - Orig. FIT**

Made of forged steel.  
Insulated handles. Pliers combined with shears and cutter.

Overall length	mm	200
289G	Each	16,60

### MULTI-PURPOSE COMBINATION PLIERS

290G


**Orig. Marvel**

In alloy steel. Finely worked, thick plastic-coated handles.  
Flat head.

Particularly suitable for electricians. Parallel serrated openings for perfect cable clamping. Cutter for copper and steel wires up to R 120 kg/sqmm.  
The head lower part is equipped with clamping system for non-insulated terminals from 2,5 to 6 sqmm.

Overall length	mm	220
290G	Each	44,90

### COMBINATION PLIERS

320G


**Prod. SCU**

Standard type, in special steel.  
Chrome-plated head, insulated handles.

Overall length	mm	180	200
320G	Each	7,36	8,26

330A




In forged special steel with hardened noses and cutter. Chrome-plated head.  
Insulated handles. For hard wire.

Overall length	mm	160	180	200
330A	Each	13,30	15,30	17,90

Universal model manufactured according to DIN ISO 5746 Standards.  
In forged, hardened special steel.  
Induction hardened cutters for hard wires.  
Polished head. Plastic-coated handles.

Overall length	mm	160	180	200
For hard wires up to Ø	mm	1.8	2.5	2.8
<b>332GA</b>	<b>Each</b>	<b>14,70</b>	<b>16,10</b>	<b>20,50</b>

**SCU**

**332GA**



Product description as Art. 332GA

Polished head. Insulated handles, in bi-component material.

Overall length	mm	160	180	200
For hard wires up to Ø	mm	1.8	2.5	2.8
<b>332GE</b>	<b>Each</b>	<b>18,30</b>	<b>19,40</b>	<b>22,30</b>

**SCU**

**332GE**



**Orig. Gedore - Art. 8245 TL**

Universal model manufactured according to DIN ISO 5746 Standards.  
In forged, oil-hardened and tempered special steel.  
Induction hardened cutters for hard wires.  
Polished head, black sides.  
Plastic-coated handles

Overall length	mm	160	180	200
For hard wires up to Ø	mm	2	2,2	2,5
<b>334GA</b>	<b>Each</b>	<b>20,10</b>	<b>20,90</b>	<b>22,70</b>

**GEDORE**

**334GA**



**Orig. Gedore**

Product description as Art. 334GA

Chrome-plated head.  
Dual component insulated ergonomic handles for excellent gripping and comfort.

Overall length	mm	125	160	180	200
For hard wires up to Ø	mm	-	2	2,2	2,5
Supplier code		8200 IC	8245 IC	8245 IC	8245 IC
<b>336G</b>	<b>Each</b>	<b>29,10</b>	<b>24,60</b>	<b>26,50</b>	<b>29,90</b>

**GEDORE**

**336G**



When stocks are depleted, we will provide pliers with handles in different form.

**Orig. Gedore - Art. 8210 TL**

Thin head model manufactured according to DIN ISO 5746 Standards.  
In high-resistant forged, oil-hardened and tempered steel.  
Induction hardened cutters for hard wires.  
Enamelled black head.  
Plastic-coated handles.

Overall length	mm	160	180	200
For hard wires up to Ø	mm	2	2,2	2,5
<b>341G</b>	<b>Each</b>	<b>26,50</b>	<b>28,10</b>	<b>31,20</b>

**GEDORE**

**341G**



**Orig. Gedore - Art. 8210 JC**

Product description as Art. 341G

Chrome-plated head.  
Dual component insulated ergonomic handles for excellent gripping and comfort.

Overall length	mm	160	180	200
For hard wires up to Ø	mm	2	2,2	2,5
<b>342G</b>	<b>Each</b>	<b>32,50</b>	<b>34,10</b>	<b>38,40</b>

**GEDORE**

**342G**



When stocks are depleted, we will provide pliers with handles in different form.

**Orig. Gedore - Art. 8250 TL**

Particularly suitable for hard works, manufactured according to DIN ISO 5746 standards. In high-resistance steel, forged and oil-hardened. Cutting edges induction hardened designed for particularly hard wires, also in harmonic steel (Hardness approx. 63 HRC). The particular hinge position creates a favourable leverage ratio and therefore a 35% strength saving in relation to traditional pliers.

Polished head, black sides. Plastic-coated handles.

Overall length	mm	180	200	225
For hard wires up to Ø	mm	2,5	2,8	3
For harmonic wire up to Ø	mm	2	2,2	2,5
<b>343G</b>	<b>Each</b>	<b>22,90</b>	<b>24,30</b>	<b>28,10</b>

**GEDORE**

**343G**



**ADVANCED HINGE  
+35% OF POWER**

345G




ADVANCED HINGE  
+35% OF POWER

**Orig. Gedore - Art. 8250 JC**

Product description as Art. 343G

Chrome-plated head. Dual component insulated ergonomic handles.

Overall length	mm	180	200
For hard wires up to Ø	mm	2,5	2,8
For harmonic wire up to Ø	mm	2	2,2
<b>345G</b>	<b>Each</b>	<b>33,70</b>	<b>34,90</b>

When stocks are depleted, we will provide pliers with handles in different form.

VDE-EN 60900 safety insulation type, see Art. 352 GM-N.

346E

new

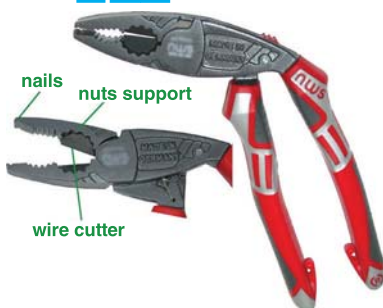

**Orig. Gedore - Art. 8248-160 JC**

Model with head inclined at 60°, tapered, for comfortable, fast and prologued use. Made of high-strength steel forged and oil-hardened. Cutting edges induction-hardened for cutting particularly hard wires, also made of harmonic steel (Hardness approx. 63 HRC).

Dual component material insulated ergonomic handles, of great power and comfort. Knurled noses with staggered teeth for safer tightening of round, hexagonal, polygonal objects (screws, bolts, etc.).

Overall length	mm	165
For harmonic wire up to Ø	mm	1,6
<b>346E</b>	<b>Each</b>	<b>39,10</b>

346G


**Prod. SCU**

Multipurpose model. Inclined, extra-slim head. Spring opening for comfortable use. Quick and handy.

In high-resistant forged and tempered steel. Induction hardened cutters for hard wires. Dual component insulated ergonomic handles for excellent gripping and comfort.

Knurled noses with nail-holder suitable for clamping round, flat bodies. Ring spanner wrench-equipped for 10-17mm bolt tightening (M 8 - M 10).

Opening retainer.

Overall length	mm	200
For hard wires up to Ø	mm	2,5
For electric cables up to Ø	mm	13
For round bodies tightening up to Ø	mm	20
<b>346G</b>	<b>Each</b>	<b>39,70</b>

### ASSORTED PLIERS AND CUTTERS

347GA


**Orig. Gedore - Art. S 8003 TL**

Assorted pliers and cutter, enamelled black head and plastic-coated handles.

3 pieces set:

1 pliers Art. 251 G x 160

1 pliers Art. 343 G x 180

1 cutter Art. 573 G x 160

In cardboard box.

<b>347GA</b>	<b>Each</b>	<b>72,60</b>
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347GB


**Orig. Gedore - Art. S 8003 JC**

Assorted pliers and cutter, chrome-plated head and dual component insulated handles.

3 pieces set:

1 pliers Art. 251 GB x 160

1 pliers Art. 345 G x 180

1 cutter Art. 573 GB x 160

In cardboard box.

<b>347GB</b>	<b>Each</b>	<b>101,00</b>
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When stocks are depleted, we will provide pliers with handles in different form.

347GE


**Orig. Gedore - Art. S 8303 TL**

Assorted pliers and cutter, enamelled black head and plastic-coated handles.

3 pieces set:

1 pliers Art. 343 G x 180

1 adjustable pliers Art. 362 GE

1 cutter Art. 573 G x 160

In cardboard box.

<b>347GE</b>	<b>Each</b>	<b>87,90</b>
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**Orig. Gedore - Art. S 8303 JC**

Assorted pliers and cutter, chrome-plated head and dual component insulated handles.

3 pieces set:

- 1 pliers Art. 345 G x 180
- 1 adjustable pliers Art. 362 GL
- 1 cutter Art. 573 GB x 160

In cardboard box.

**347GF** Each **121,00**

When stocks are depleted, we will provide pliers with handles in different form.



**347GF**

2

**ASSORTED PLIERS, CUTTERS AND WIRE STRIPPING PLIERS**

**Orig. Gedore - Art. S 8200 JC**

Product description as Art. 347GF

4 pieces set:

- 1 pliers Art. 345 G x 180
- 1 pliers Art. 251 GB x 160
- 1 cutter Art. 570 GB x 160
- 1 pliers Art. 191 GB

In cardboard box.

**347GR** Each **125,00**

When stocks are depleted, we will provide pliers with handles in different form.



**347GR**

**INSULATED TOOLS ACCORDING TO VDE STANDARDS**

**Prod. SCU - Orig. Wiha**

Tools insulated up to 1000 Volts with VDE - EN 60900 test mark.

DYNAMOMETRIC HANDLES WITHOUT BLADES

.Type particularly suitable for controlled tightening in electrical areas with live parts up to 1000 V AC and 1500 V DC.

Ergonomic handles made from multicomponent material, with torque value continuously adjustable and visible in window within a range from 0.6 to 8 Nm (3 sizes). Once the pre-set tightness has been reached, there is a click that can be detected by touch. Protected unscrewing function.

To be used with 1000 V insulated blades, 6 mm, with different shapes Art. 350 GB-C-E-F-H-L.

Tolerance: ± 6% for each value of the scale.

For right hand. Supplied with certificate according to DIN ISO 6789.

Complete with blade-holder for VDE 6 mm blades and special screwdriver for torque adjustment.

Size		2	5	8
Tightening capacity	Nm	0,6-2	1-5	2-8
Scale division		0,1 Nm	0,2 Nm	0,25 Nm
Overall length	mm	131	138	142
<b>350GA</b>	<b>Each</b>	<b>247,00</b>	<b>256,00</b>	<b>274,00</b>



**350GA**  
*new*



Tools insulated up to 1000 Volts with VDE - EN 60900 test mark.

BLADES FOR DYNAMOMETRIC HANDLES ART. 350 GA

Made of CHROME-VANADIUM steel, hardened, burnished.

Length of blade mm 75.

With flat tip.

Size		2,5	3	4	5,5	6,5
Cutting edge	mm	2,5x0,4	3x0,5	4x0,8	5,5x1	6,5x1,2
<b>350GB</b>	<b>Each</b>	<b>8,16</b>	<b>8,16</b>	<b>9,56</b>	<b>9,56</b>	<b>9,56</b>



**350GB**  
*new*



Product description as Art. 350GB

With PHILLIPS tip.

Size		1	2
For screws	M	2-3	3,5-5
<b>350GC</b>	<b>Each</b>	<b>9,56</b>	<b>9,56</b>



**350GC**  
*new*



Product description as Art. 350GB

With POZIDRIV tip.

Size		1	2
For screws	M	2-3	3,5-5
<b>350GE</b>	<b>Each</b>	<b>9,56</b>	<b>9,56</b>



**350GE**  
*new*



Product description as Art. 350GB

With PHILLIPS combined with straight cut.

Size		1	2
For screws	M	2-3	3,5-5
<b>350GF</b>	<b>Each</b>	<b>10,90</b>	<b>10,90</b>



**350GF**  
*new*



**350GH**  
new



Product description as Art. 350GB  
With POZIDRIV tip combined with straight cut.  
Size 

	1	2
For screws	M 2,6-3	3,5-5

<b>350GH</b>	Each	<b>10,90</b>	<b>10,90</b>
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**350GL**  
new



Product description as Art. 350GB  
With TORX tip.  
TORX size 

T	8	10	15	20	25
For screws	M 2,5	3	3,5	4	5

<b>350GL</b>	Each	<b>10,60</b>	<b>10,60</b>	<b>10,60</b>	<b>10,60</b>	<b>10,60</b>
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**350GP**  
new



Tools insulated up to 1000 Volts with VDE-EN 60900 test mark.  
SELECTION OF TOOLS  
Consisting of 9 tools:  
1 torque handle Art. 350 GA x 5  
1 blade Art. 350 GB x 4  
1 blade Art. 350 GB x 5  
1 blade Art. 350 GC x 1  
1 blade Art. 350 GC x 2  
1 blade Art. 350 GE x 1  
1 blade Art. 350 GE x 2  
In a sturdy bag that can be rolled up.  

<b>350GP</b>	Each	<b>292,00</b>
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**351GA**



Orig. Gedore - Art. VDE 8120H-DIN ISO 5745  
Insulated up to 1000 Volts and officially controlled tools under voltage-VDE – EN 60900.  
STRAIGHT FLAT NOSE PLIERS  
In special steel, oil-hardened and tempered. Long, finely serrated noses. Chrome-plated finish.  
Coating insulated  
Overall length 

mm	160	
<b>351GA</b>	Each	<b>34,10</b>

For VDE pliers see Art. 138 GA - GB.

**352GA**



Orig. Gedore - Art. VDE 8120-DIN ISO 5745  
Product description as Art. 351GA  
Dipped insulated  
Overall length 

mm	160	
<b>352GA</b>	Each	<b>49,20</b>

**352GD**



Orig. Gedore - Art. VDE 8132H-DIN ISO 5745  
Insulated up to 1000 Volts and officially controlled tools under voltage-VDE – EN 60900.  
STRAIGHT HALF-ROUND NOSE PLIERS  
In special steel, oil-hardened and tempered. Long noses, with cutter.  
Cutting edges additionally induction hardened  
Chrome-plated finish.  
Coating insulated  
Overall length 

mm	160	200	
<b>352GD</b>	Each	<b>31,50</b>	<b>40,80</b>

**352GE**



Orig. Gedore - Art. VDE 8132-DIN ISO 5745  
Product description as Art. 352GD  
Dipped insulated  
Overall length 

mm	160	200	
<b>352GE</b>	Each	<b>44,60</b>	<b>48,10</b>

**Orig. Gedore - Art. VDE 8122H-DIN ISO 5745**

Insulated up to 1000 Volts and officially controlled tools under voltage-VDE – EN 60900.

**STRAIGHT ROUND NOSE PLIERS**

In special steel, oil-hardened and tempered..

Long, finely serrated noses. Chrome-plated finish.

Coating insulated

Overall length	mm	160
<b>352GE 3</b>	Each	<b>33,50</b>

**352GE 3**

2
**Orig. Gedore - Art. VDE 8122-DIN ISO 5745**

Product description as Art. 352GE 3

Dipped insulated

Overall length	mm	160
<b>352GF</b>	Each	<b>49,20</b>

**352GF**

**Orig. Gedore - Art. VDE 8132 AB-H**

Insulated up to 1000 Volts and officially controlled tools under voltage-VDE – EN 60900.

**CURVED HALF-ROUND NOSE PLIERS**

In special steel, oil-hardened and tempered. Long noses, with cutter.

Cutting edges additionally induction hardened.

Chrome-plated finish.

Coating insulated

Overall length	mm	160	200
<b>352GH</b>	Each	<b>37,50</b>	<b>41,10</b>

**352GH**

**Orig. Gedore - Art. VDE 8132 AB**

Product description as Art. 352GH

Dipped insulated

Overall length	mm	160	200
<b>352GL</b>	Each	<b>49,90</b>	<b>52,90</b>

**352GL**

**Orig. Gedore - Art. VDE 8250-H-DIN ISO 5746**

Insulated up to 1000 Volts and officially controlled tools under voltage-VDE – EN 60900.

**UNIVERSAL PLIERS**

Powerful head, in oil-hardened special steel, with high-lever action cutter for easy cutting (35% strength saving).

Cutting edges additionally induction hardened, hardness Hrc 63, for extra-hard wires and harmonic steel.

Chrome-plated finish.

Coating insulated

Overall length	mm	160	180	200
<b>352GM</b>	Each	<b>35,70</b>	<b>37,10</b>	<b>38,50</b>

**352GM**

 ADVANCED HINGE  
+35% OF POWER

**Orig. Gedore - Art. VDE 8250-DIN ISO 5746**

Product description as Art. 352GM

Dipped insulated

Overall length	mm	160	180	200	225
<b>352GN</b>	Each	<b>43,70</b>	<b>45,30</b>	<b>48,10</b>	<b>53,50</b>

**352GN**

 ADVANCED HINGE  
+35% OF POWER


## 352GP


**Orig. Gedore - Art. VDE 8098H**

Insulated up to 1000 Volts and officially controlled tools under voltage-VDE – EN 60900.

**UNIVERSAL PLIERS**

In oil-hardened and tempered special steel. With opening adjustment by brassed screw. Chrome-plated finish.

Coating insulated

Overall length mm 160  
For wires mm<sup>2</sup> 0.8 to 6

**352GP** Each **35,80**

## 352GR


**Orig. Gedore - Art. VDE 8098**

Product description as Art. 352GP

Dipped insulated

Overall length mm 160  
For wires mm<sup>2</sup> 0.8 to 6

**352GR** Each **46,10**

## 352GS


**Orig. Gedore - Art. VDE 8314H-8316H**

Insulated up to 1000 Volts and officially controlled tools under voltage-VDE – EN 60900.

**OBLIQUE CUTTERS**

In special steel, oil-hardened and tempered. Cutting edges additionally induction hardened, hardness Hrc 64, for extra-hard wires and harmonic steel.

Chrome-plated finish.

Coating insulated

Overall length mm **140** **160** **180** **200**  
For harmonic wire up to Ø mm 1.4 1.6 1.8 2

**352GS** Each **32,90** **35,10** **47,30** **50,60**

## 352GT


**Orig. Gedore - Art. VDE 8314-8316**

Product description as Art. 352GS

Dipped insulated

Overall length mm **140** **160** **180** **200**  
For harmonic wire up to Ø mm 1.4 1.6 1.8 2

**352GT** Each **42,70** **43,60** **56,20** **60,90**

## 352GV


**Orig. Gedore - Art. VDE 8367**

Tools which can be insulated at up to 1,000 volts with VDE-EN 60900 test mark.

**FRONT CUTTERS**

In special oil tempered steel. Cutting blades with additional induction hardening, hardness Hrc 64, to cut extra-hard wires and harmonic steel.

Chrome finish.

Submersion insulated.

Overall length mm 160  
For harmonic wire up to Ø mm 1.6

**352GV** Each **55,50**

## 352GZ


**Orig. Gedore - Art. VDE 146 10**

Insulated up to 1000 Volts and officially controlled tools under voltage-VDE – EN 60900.

**ADJUSTABLE PLIERS**

Made of CHROME-VANADIUM steel. Chrome-plated finish. Fixed double hinge, 7 adjustments.

Overall length mm 260

**352GZ** Each **81,70**

**Orig. Gedore - Art. VDE 4507-4**

Product description as Art. 352GZ

**TORQUE WRENCHES**

In hardened steel.

Audible signal on reaching of the preset torque value. Double scale with readings in metric and SAE values.

Setting on handle grip. With fine toothed ratchet mechanism.

Square drive with socket retainer. ±3% tolerance of the scale set torque.

Tightening capacity Nm 8 to 56

Overall length mm 310

Square drive inches 1/2

Weight Kg 1

<b>353GA</b>	<b>Each</b>	<b>730,00</b>
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**353GA**

**2**
**Orig. Gedore - Art. VDE 894-DIN 7446**

Product description as Art. 352GZ

**SINGLE OPEN-ENDED WRENCHES**

CHROME-VANADIUM steel up to mm 22. Special steel from 24mm.

Opening mm	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>
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Overall length mm	105	105	115	125	135	145	150	155
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<b>353GB</b>	<b>Each</b>	<b>27,10</b>	<b>27,10</b>	<b>27,80</b>	<b>27,80</b>	<b>30,00</b>	<b>30,00</b>	<b>30,00</b>
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Opening mm	<b>17</b>	<b>19</b>	<b>22</b>	<b>24</b>	<b>27</b>	<b>30</b>	<b>32</b>
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Overall length mm	160	175	200	220	245	265	280
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<b>353GB</b>	<b>Each</b>	<b>30,00</b>	<b>30,00</b>	<b>37,30</b>	<b>41,10</b>	<b>45,30</b>	<b>45,30</b>	<b>50,90</b>
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**353GB**

**Orig. Gedore - Art. VDE 2E-DIN 7447**

Product description as Art. 352GZ

**BIHEXAGONAL WRENCHES**

CHROME-VANADIUM steel. Wide jaw opening.

Opening mm	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>
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Overall length mm	170	170	170	180	190	190	210	215
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<b>353GE</b>	<b>Each</b>	<b>34,70</b>	<b>34,70</b>	<b>39,70</b>	<b>39,70</b>	<b>41,30</b>	<b>42,10</b>	<b>43,70</b>
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Opening mm	<b>17</b>	<b>19</b>	<b>22</b>	<b>24</b>	<b>27</b>	<b>30</b>	<b>32</b>
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Overall length mm	220	240	260	280	295	310	330
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<b>353GE</b>	<b>Each</b>	<b>47,40</b>	<b>47,40</b>	<b>49,10</b>	<b>52,80</b>	<b>56,10</b>	<b>63,10</b>	<b>63,10</b>
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**353GE**

**Orig. Gedore - Art. VDE 2133-DIN 7445**

Product description as Art. 352GZ

**NUT DRIVERS WITH PLASTIC HANDLE**

CHROME VANADIUM steel; dual-component handle.

Head inside depth 25mm. Blade length 125mm.

Hexagon opening mm	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
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Overall length mm	220	220	220	220	230	230	230
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Head ext Ø mm	8	10	11	12	14	15	16
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<b>353GF</b>	<b>Each</b>	<b>15,10</b>	<b>15,10</b>	<b>15,10</b>	<b>18,60</b>	<b>19,90</b>	<b>21,90</b>	<b>23,60</b>
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Hexagon opening mm	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>17</b>
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Overall length mm	230	240	240	240	240	250
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Head ext Ø mm	17	19	20	22	23	27
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<b>353GF</b>	<b>Each</b>	<b>25,60</b>	<b>27,40</b>	<b>31,40</b>	<b>35,40</b>	<b>25,60</b>	<b>28,90</b>
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When stocks are depleted, we will provide wrenches with handles in different form.

**353GF**

**Orig. Gedore - Art. VDE 1993 U-DIN 7449**

Product description as Art. 352GZ

**RATCHETS**

CHROME-VANADIUM steel with lever for right/left rotation.

Fine and sturdy toothing. 1/2" square drive with socket retainer.

Overall length mm 270

<b>353GL</b>	<b>Each</b>	<b>146,00</b>
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**353GL**

**Orig. Gedore - Art. VDE 1990-DIN 7434**

Product description as Art. 352GZ

**EXTENSIONS**

CHROME-VANADIUM steel.

1/2" square connection with bush set screw (3mm) 1 Allen key for set screw.

Overall length mm	<b>125</b>	<b>250</b>
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<b>353GM</b>	<b>Each</b>	<b>41,60</b>	<b>54,20</b>
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**353GM**


353GN




1/2"

**Orig. Gedore - Art. VDE 1988-DIN 7436**

Product description as Art. 352GZ

T-HANDLE

CHROME-VANADIUM steel.

1/2" square connection with bush set screw (3mm) and 1 Allen key for set screw.

Overall length mm 200

353GN	Each	93,60
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353GP




1/2"

**Orig. Gedore - Art. VDE 19-DIN 7448**

Product description as Art. 352GZ

HEXAGONAL SOCKETS

CHROME-VANADIUM steel.

Hand-operated, extra robust construction. 1/2" square drive.

Hexagon opening mm		10	11	12	13	14	15	17
353GP	Each	23,80	23,80	23,80	23,80	23,80	23,80	24,60

Hexagon opening mm		19	22	24	27	30	32
353GP	Each	26,20	27,80	31,80	43,70	43,70	43,70

353GR




1/2"

**Orig. Gedore - Art. VDE IN 19**

Product description as Art. 352GZ

EXTERNAL HEX TYPE SOCKETS

CHROME-VANADIUM steel.

Hand-operated, extra robust construction. 1/2" square drive. Length: 106mm.

For screws Ø mm		5	6	8
353GR	Each	47,50	47,50	47,50

353GS




1/2"

**Orig. Gedore - Art. VDE 2170-DIN 5264A**

Product description as Art. 352GZ

FLAT BLADE SCREWDRIVERS

CHROME-VANADIUM steel blade. Bi-component handle. Black blade tip.

Blade width mm		2,5	3	3,5	4	5,5	6,5	8	10
Blade length mm		75	75	100	100	125	150	175	200
Cutting edge mm		0,4	0,5	0,6	0,8	1	1,2	1,2	1,6
Grip length mm		80	80	90	90	100	110	120	120
353GS	Each	6,92	7,14	8,24	9,74	10,90	14,60	16,10	20,30

When stocks are depleted, we will provide screwdrivers with handles in different form.

353GT




1/2"

**Orig. Gedore - Art. VDE 2160PH-DIN ISO 8764-1/PH**

Product description as Art. 352GZ

CROSSBLADE PHILLIPS SCREWDRIVERS

CHROME-VANADIUM steel blade. Bi-component handle. Black blade tip.

Size		0	1	2	3	4
Blade length mm		60	80	100	150	200
Grip length mm		80	100	110	120	120
For screws M.		1,6-2,0	2,0-3,0	3,5-5,0	5,5-7,0	8,0-10
353GT	Each	8,02	10,20	14,20	16,10	22,50

When stocks are depleted, we will provide screwdrivers with handles in different form.

Other VDE insulated screwdrivers, see Art. 1913 GA to 1913 GH, Art. 1921 GA to 1923 GE and assorted sets Art. 1943 GB to 1943 GT.

353GU




1/2"

**Orig. Gedore - Art. VDE 2160 PZ-DIN ISO 8764-1/PZ**

Product description as Art. 352GZ

CROSSBLADE POZIDRIV/SUPADRIV SCREWDRIVERS

CHROME-VANADIUM steel blade. Bi-component handle. Black blade tip.

Size		0	1	2	3	4
Blade length mm		60	80	100	150	200
Grip length mm		80	100	110	120	120
For screws M.		1,6-2,0	2,0-3,0	3,5-5,0	5,5-7,0	8,0-10
353GU	Each	9,82	11,40	16,50	18,20	23,60

When stocks are depleted, we will provide screwdrivers with handles in different form.

VDE insulated phase-detecting screwdrivers, see Art. 1907 GT-V. VED insulated electronic voltage testers, see Art. 4482 GA a 4482 GL.

**Orig. Gedore - Art. VDE 4522**

Product description as Art. 352GZ

KNIVES FOR ELECTRICIANS

Sturdy special steel blade suitable for cable cutting.

Chromium-plated finish.

Solid and elastic plastic handle.

Blade length mm 50

Overall length mm 180

<b>353GV</b>	Each	<b>19,70</b>
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**353GV**

**2**
**Orig. Gedore - Art. VDE S 8003-H**

Insulated up to 1000 Volts and officially controlled tools under voltage-VDE - EN 60900.

ASSORTED SET OF PLIERS AND CUTTERS

Assorted set of pliers and cutter, chrome-plated heads. Coating insulation.

The set comprises 3 items:

1 pliers Art. 352 GD x 160

1 pliers Art. 352 GM x 180

1 cutter Art. 352 GS x 160

Packed in carton case.

<b>354GE</b>	Each	<b>103,00</b>
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**354GE**

**Orig. Gedore - Art. VDE S 8003**

Product description as Art. 354GE

ASSORTED SET OF PLIERS AND CUTTERS

Assorted set of pliers and cutter, chrome-plated heads. Dipping insulation.

The set comprises 3 items:

1 pliers Art. 352 GE x 160

1 pliers Art. 352 GN x 180

1 cutter Art. 352 GT x 160

Packed in carton case.

<b>354GN</b>	Each	<b>133,00</b>
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**354GN**

**Orig. Gedore - Art. VDE 2170-2160-PH-077**

Product description as Art. 354GE

ASSORTED SET OF SCREWDRIVERS

Assorted set of 7 items comprising:

1 screwdriver Art. 353 GS x 2,5

1 screwdriver Art. 353 GS x 4

1 screwdriver Art. 353 GS x 5,5

1 screwdriver Art. 353 GS x 6,5

1 screwdriver Art. 353 GT x 0

1 screwdriver Art. 353 GT x 1

1 screwdriver Art. 353 GT x 2

Packed in carton case.

<b>354GP</b>	Each	<b>72,30</b>
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**354GP**

**Orig. Gedore - Art. VDE 1001**

Product description as Art. 354GE

ASSORTED SET OF TOOLS

Assorted set of 13 tools comprising:

8 exagonal sleeves Art. 353 GP mm 10-12-13-14-17-19-22-24

1 ratchet lever Art. 353 GL mm 270

2 extensions Art. 353 GM mm 125-250

1 T-handle Art. 353 GN

1 flat-tip screwdriver Art. 353 GS mm 5,5

1 key 914 G 2,5 included

In sturdy PVC case.

<b>354GR</b>	Each	<b>751,00</b>
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**354GR**


## 354GS


**Orig. Gedore-Prod. SCU**

Product description as Art. 354GE

**ASSORTED SET OF TOOLS**

Assorted set of 16 tools comprising:

- 1 tool bag Art. 2076 GD
- 1 pliers Art. 352 GM x 180
- 1 pliers Art. 352 GD x 160
- 1 pliers Art. 352 GP
- 1 cutter Art. 352 GS x 160
- 1 cable cutter Art. 356 GA
- 1 knife Art. 353 GV
- 4 wrenches Art. 353 GB x 10-13-17-19
- 2 screwdrivers Art. 353 GS x 3,5-5,5
- 2 screwdrivers Art. 353 GT x 1-2
- 1 phase-detecting screwdriver Art. 1907 GL

<b>354GS</b>	Each	<b>383,48</b>
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## 354GV




Product description as Art. 354GE

**ASSORTED SET OF TOOLS**

Assorted set of 23 tools comprising:

- 1 tool bag Art. 2077 GD 5
- 1 pliers Art. 352 GM x 180
- 1 pliers Art. 352 GD x 160
- 1 pliers Art. 352 GH x 160
- 1 pliers Art. 352 GP
- 1 tweezers Art. 138 GA
- 1 tweezers Art. 138 GB
- 1 cutter Art. 352 GS x 160
- 1 cable cutter Art. 356 GA
- 1 knife Art. 353 GV
- 1 pliers Art. 352 GZ
- 5 wrenches Art. 353 GB x 10-13-14-17-19
- 2 screwdrivers Art. 353 GS x 4-5,5
- 3 screwdrivers Art. 353 GT x 0-1-2
- 1 phase-detecting screwdriver Art. 1907 GL
- 1 pair of gloves Art. 357 GE

<b>354GV</b>	Each	<b>763,60</b>
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Other assorted set of tools insulated up to V 1000, see Art. 359 G.

## 355G


**Prod. SCU - DIN 5248**

Hardened steel tools. Very thick grip, red, insulated up to 1000 Volts and officially controlled under voltage VDE, IEC 60900, where indicated.

Pliers and cutters have a double coating, inside yellow, outside red.

**SHORT FLAT NOSE PLIERS, STRAIGHT NOSES**

Noses length mm. 30.

Chrome-plated finish.

Overall length mm 160

<b>355G</b>	Each	<b>28,20</b>
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## 355GA




Product description as Art. 355G

**LONG FLAT NOSE PLIERS, STRAIGHT NOSES**

Noses length mm. 50.

Chrome-plated finish.

Overall length mm 160

<b>355GA</b>	Each	<b>29,10</b>
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**Prod. SCU - DIN 5236 A**

Product description as Art. 355G

STRAIGHT HALF-ROUND NOSE PLIERS

With additionally hardened cutter.

Chrome-plated finish.

Overall length	mm	160	200
<b>355GE</b>	Each	31,10	34,20

**SCU**
**355GE**

**2**
**Prod. SCU - DIN 5249**

Product description as Art. 355G

STRAIGHT ROUND NOSE PLIERS

Chrome-plated finish.

Overall length	mm	160
<b>355GF</b>	Each	29,10

**SCU**
**355GF**

**Prod. SCU - DIN 5236 B**

Product description as Art. 355G

LONG HALF-ROUND NOSE PLIERS, CURVED NOSES

With additionally hardened cutter.

Chrome-plated finish.

Overall length	mm	160	200
<b>355GL</b>	Each	32,20	35,70

**SCU**
**355GL**

**Prod. SCU - DIN 5244**

Product description as Art. 355G

COMBINATION PLIERS

With additionally hardened cutter.

Chrome-plated finish.

Overall length	mm	165	190	205
<b>355GN</b>	Each	31,10	32,40	34,70

**SCU**
**355GN**

**Prod. SCU**

Product description as Art. 355G

WIRE STRIPPING PLIERS

With adjusting screw.

For cables up to Ø mm. 6. Cutting edges additionally hardened.

Chrome-plated finish.

Overall length	mm	160
<b>355GR</b>	Each	33,90

**SCU**
**355GR**


Product description as Art. 355G

SELF-ADJUSTING WIRE STRIPPING PLIERS

Pistol grip type.

Body in synthetic material, completely insulated for the utmost safety.

For cables from Ø mm 2 to 6. Depth adjuster.

Overall length	mm	160
<b>355GS</b>	Each	34,10

**SCU**
**355GS**


## 355GT



**Prod. SCU - DIN 5238 B/A**  
Product description as Art. 355G  
**OBLIQUE CUTTERS**  
Additionally hardened cutter.

Chrome-plated finish.

Overall length	mm	160	180	250
For hard wires up to Ø	mm	1.5	1.6	3
For annealed wires up to Ø	mm	2.3	2.5	3.5
<b>355GT</b>	<b>Each</b>	<b>31,10</b>	<b>33,90</b>	<b>61,90</b>

## 355GTE



Product description as Art. 355G  
**PLIERS FOR LEAD SEALS**  
Combined with cutters and interchangeable plates.  
Chrome finish.

Overall length	mm	160
Inserts Ø	mm	8
<b>355GTE</b>	<b>Each</b>	<b>88,10</b>

## 355GV



**Prod. SCU - DIN 5231 D**  
Product description as Art. 355G  
**ADJUSTABLE PLIERS**  
In CHROME-VANADIUM steel. Fixed double hinge, 7 adjustments.  
Chrome-plated finish.

Overall length	mm	240
<b>355GV</b>	<b>Each</b>	<b>38,60</b>

## 355GVT



**Prod. SCU**  
Product description as Art. 355G  
**FIXED T-WRENCHES WITH HEXAGONAL OPENING**  
In special steel, DIN 7440.

Opening	mm	10	11	12	13	14	17	19	
Overall length	mm	200	200	200	200	200	200	200	
<b>355GVT</b>	<b>Each</b>	<b>38,60</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>40,80</b>	<b>40,80</b>	<b>41,90</b>	
Opening	mm	22	24						
Overall length	mm	200	200						
<b>355GVT</b>	<b>Each</b>	<b>49,70</b>	<b>49,70</b>						

## 355GZ



Product description as Art. 355G  
**RATCHET RING WRENCHES**  
Single open-ended wrench.

Opening	mm	10	13	17	19
Overall length	mm	140	150	170	190
<b>355GZ</b>	<b>Each</b>	<b>30,10</b>	<b>31,40</b>	<b>36,90</b>	<b>38,10</b>

## 355GZA

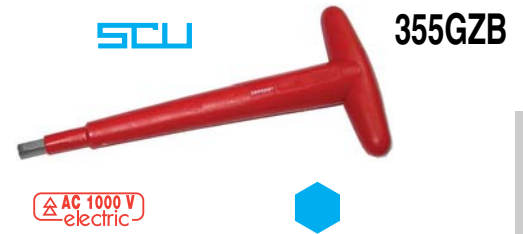


Product description as Art. 355G  
**ALLEN HEAD WRENCHES**  
Long pattern.

Hexagon opening	mm	3	4	5	6	8	10
Overall length	mm	130	140	160	180	200	225
<b>355GZA</b>	<b>Each</b>	<b>8,20</b>	<b>8,52</b>	<b>9,58</b>	<b>11,10</b>	<b>12,50</b>	<b>15,30</b>

Product description as Art. 355G  
 ALLEN HEAD WRENCHES "T" TYPE  
 Long pattern.

Hexagon opening	mm	4	5	6	8
Overall length	mm	200	200	200	200
<b>355GZB</b>	<b>Each</b>	<b>15,60</b>	<b>16,60</b>	<b>17,90</b>	<b>19,10</b>



AC 1000 V electric



Product description as Art. 355G  
 RATCHETS  
 With lever for right/left rotation.  
 Square connection 1/2" with bush retainer.

Overall length	mm	240
<b>355GZC</b>	<b>Each</b>	<b>124,00</b>



AC 1000 V electric



1/2"

Product description as Art. 355G  
 T HANDLES  
 1/2" Square connection.

Overall length	mm	200
<b>355GZE</b>	<b>Each</b>	<b>48,70</b>



AC 1000 V electric



1/2"

Product description as Art. 355G  
 INNER HEXAGONAL SLEEVES  
 1/2" Square connection.

Hexagon opening	mm	4	5	6	8	10
Overall length	mm	100	100	100	100	100
<b>355GZH</b>	<b>Each</b>	<b>26,10</b>	<b>26,10</b>	<b>26,10</b>	<b>26,20</b>	<b>26,90</b>



AC 1000 V electric

1/2"

Product description as Art. 355G  
 MULTITIP SCREWDRIVERS  
 Supplied with flat and cross multiblade.  
 Ideal for electricians, suitable for many different kinds of slotted head screws and cross head screws.  
 Burnished tips.

Size		1	2
Overall length	mm	170	200
<b>355GZL</b>	<b>Each</b>	<b>9,02</b>	<b>12,10</b>



AC 1000 V electric



Product description as Art. 355G  
 ALLEN HEAD WRENCHES WITH PLASTIC HANDLE  
 CHROME-VANADIUM steel. Burnished tips.

Hexagon opening	mm	1,5	2	2,5	3	4	5	6
Overall length	mm	135	135	160	160	160	170	195
<b>355GZM</b>	<b>Each</b>	<b>8,84</b>	<b>8,58</b>	<b>9,02</b>	<b>9,02</b>	<b>9,34</b>	<b>10,20</b>	<b>11,40</b>



Product description as Art. 355G  
 NUT DRIVERS WITH PLASTIC HANDLE  
 CHROME-VANADIUM steel. Hexagonal open ends.

Hexagon opening	mm	5	6	7	8	9	10	11
Overall length	mm	210	210	220	220	220	220	230
<b>355GZP</b>	<b>Each</b>	<b>15,30</b>	<b>15,30</b>	<b>16,10</b>	<b>16,90</b>	<b>17,70</b>	<b>18,50</b>	<b>21,80</b>
Hexagon opening	mm	12	13					
Overall length	mm	230	230					
<b>355GZP</b>	<b>Each</b>	<b>23,50</b>	<b>25,80</b>					



## 356GA

SCU

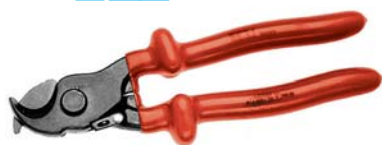


Product description as Art. 355G  
ELECTRICAL CABLE CUTTERS  
Its special blade shape makes cutting extremely easy.  
Burnished head.

Overall length	mm	210
Max cutting Ø	mm	20
<b>356GA</b>	<b>Each</b>	<b>52,90</b>

## 356GC

SCU



Product description as Art. 355G  
ELECTRICAL CABLE CUTTERS  
Model for round cables, without deformations. With spring and latch pin.  
Forged finished, burnished head.

Overall length	mm	<b>190</b>	<b>220</b>
Max cutting Ø	mm	14	20
<b>356GC</b>	<b>Each</b>	<b>70,30</b>	<b>71,70</b>

## 356GE

SCU

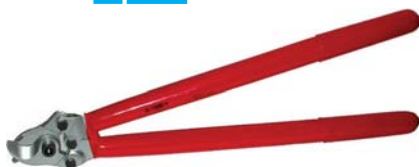


Product description as Art. 355G  
ELECTRICAL CABLE CUTTERS  
Encircling profile blades allow precise cutting of copper and aluminium cables. High-tensile steel head, polished.  
In case of blade replacement, VDE certification becomes void.

Overall length	mm	<b>320</b>	<b>600</b>
Max cutting Ø	mm	20	27
<b>356GE</b>	<b>Each</b>	<b>131,00</b>	<b>208,00</b>

## 356GH

SCU



Product description as Art. 355G  
ELECTRICAL CABLE CUTTERS, DOUBLE LEVER  
Double lever model suitable to cut copper and aluminium cables formed by one or more wires with rubber or plastic coating. Reduced handle grips to lower effort and cut in hard-to-access positions. Polished head.

Overall length	mm	680
Max cutting Ø	mm	27
<b>356GH</b>	<b>Each</b>	<b>278,00</b>

Other electrical cable cutter Orig.Baudat, insulated according IEC 900 standards, see Art. 617 GA.

## 356GL

SCU



Product description as Art. 355G  
ELECTRICAL CABLE CUTTER, RACK-TYPE  
Rack-type model with ratchet mechanism. Closed blade cut.  
Forged head, grips made of reinforced sheet. Easy and progressive cut with one hand. Suitable for cutting copper and aluminium cables. Burnished head.

Overall length	mm	<b>250</b>	<b>400</b>
Max cutting Ø	mm	32	52
Max. sect. multi-conductor cutting	mm <sup>2</sup>	240	500
<b>356GL</b>	<b>Each</b>	<b>231,00</b>	<b>424,00</b>

## 356GLE

SCU

Blade without notch



INOX

Product description as Art. 355G  
ELECTRICIANS SCISSORS  
Extra-hard stainless steel blades.  
Grips coated with bi-component material with additional ends on rings for safer gripping. Safety screw pin. Sturdy hinge. Microtooth blade for easy cutting.  
With wire cutter/wire stripper notch.

Overall length	mm	160
<b>356GLE</b>	<b>Each</b>	<b>26,60</b>

## 356GLF

SCU

Blade without notch



INOX

Product description as Art. 355G  
ELECTRICIANS SCISSORS  
Extra-hard stainless steel blades.  
Grips coated with bi-component material with additional ends on rings for safer gripping. Safety screw pin. Sturdy hinge. Microtooth blade for easy cutting.  
With smooth blades.

Overall length	mm	160
<b>356GLF</b>	<b>Each</b>	<b>26,60</b>

Product description as Art. 355G

**KNIVES FOR ELECTRICIANS**

Sturdy steel blade suitable for wire cutting.

Model with straight, chrome-plated blade. With housing cap. Handle in two-components material to ensure a strong and safe clench.

 Blade length                   mm     52  
 Overall length                mm     200

<b>356GM</b>	Each	<b>13,10</b>
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**356GM**


Product description as Art. 355G

**KNIVES FOR ELECTRICIANS**

Sturdy steel blade suitable for wire cutting.

Model with wirestripper, chrome-plated. With housing cap. Handle in two-components material to ensure a strong and safe clench.

 Blade length                   mm     35  
 Overall length                mm     180

<b>356GP</b>	Each	<b>13,90</b>
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**356GP**


Product description as Art. 355G

**KNIVES FOR ELECTRICIANS**

Sturdy steel blade suitable for wire cutting.

With stripping guide with front supplementary grinding, chrome-plated.

With housing cap. Handle in two-components material to ensure a strong and safe clench.

 Blade length                   mm     40  
 Overall length                mm     185

<b>356GR</b>	Each	<b>18,10</b>
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**356GR**


Product description as Art. 355G

**KNIVES FOR ELECTRICIANS**

Sturdy straight steel blade, interchangeable, with safety protection, suitable for wire cutting.

Coated blade spine. Dimensioned handle for strong and safe gripping.

 Blade length                   mm     45  
 Overall length                mm     185

<b>356GRE</b>	Each	<b>12,80</b>
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Spare blades in package units of 4 pcs. Art. O356 GRE available on request.


**356GRE**


Product description as Art. 355G

**SPRING CLAMPS**

In synthetic material, completely insulated for highest safety.

Especially suited for insulating blankets.

Overall length                mm     160

<b>356GS</b>	Each	<b>10,80</b>
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**356GS**


Product description as Art. 355G

**UNIVERSAL PLIERS**

In synthetic material, completely insulated for maximum safety.

Fine, grain grip finish noses.

Particularly suited for meter installation.

Overall length                mm     180

<b>356GT</b>	Each	<b>11,10</b>
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**356GT**


Product description as Art. 355G

**REINFORCED UNIVERSAL PLIERS**

In bi-component synthetic material reinforced with fibreglass, for heavy-duty uses, fully insulated for maximum safety.

Noses with grain grip. Toothed grips for better handling. Can be used up to -40° C.

Overall length                mm     180

<b>356GTA</b>	Each	<b>39,30</b>
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**356GTA**


356GTE **SCU**



Product description as Art. 355G  
**REINFORCED PLIERS WITH LONG HALF-ROUND NOSES**  
 In bi-component synthetic material reinforced with fibreglass, for heavy-duty uses, fully insulated for maximum safety.  
 Noses with grain grip. Toothed grips for better handling. Can be used up to -40° C.

Overall length	mm	220
<b>356GTE</b>	Each	<b>40,40</b>

356GV **SCU**


**Prod. SCU - DIN 3117**  
 Product description as Art. 355G  
**ADJUSTABLE WRENCHES**

Chrome finish

Overall length	mm	200	250	300
<b>356GV</b>	Each	<b>45,30</b>	<b>52,80</b>	<b>68,30</b>

357GC **SCU**


**Prod. SCU**  
 Product description as Art. 355G  
**INSULATING MATS**  
 In anti-slip rubber. Oil- and acid-resistant. Thickness 4mm.  
 Dimensions 1000mm x 1000.

<b>357GC</b>	Each	<b>131,00</b>
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357GD **SCU**



Product description as Art. 355G  
**PROTECTIVE GLOVES**  
 In natural latex, with five fingers. Well suited for electrical installers and service engineers.  
 Size 9. Overall length approx. 360mm.

Thickness	mm	1
For max	Volt	1000
<b>357GD</b>	Per pair	<b>54,10</b>

357GE **SCU**



Product description as Art. 355G  
**PROTECTIVE GLOVES**  
 In natural latex, with five fingers. Well suited for electrical installers and service engineers.  
 Size 10. Overall length approx. 360mm. Category 0.

Thickness	mm	1
For max	Volt	1000
<b>357GE</b>	Per pair	<b>54,10</b>

357GF **SCU**



Product description as Art. 355G  
**PROTECTIVE GLOVES**  
 In natural latex, with five fingers. Well suited for electrical installers and service engineers.  
 Size 10. Overall length approx 360mm. Category 1.

Thickness	mm	1.5
For max	Volt	7500
<b>357GF</b>	Per pair	<b>71,10</b>

357GH **SCU**

Product description as Art. 355G  
**GLOVES TESTER**  
 Necessary to check the integrity of gloves for electricians Art. 357 GD - E - F, according to EN60903 and IEC903 Standards.  
 Plastic material body, dia. 115mm, pump functioning.

<b>357GH</b>	Each	<b>325,00</b>
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Product description as Art. 355G  
**PROTECTIVE HELMETS WITH FACE SHIELD**  
 Polyethylene reinforced model with adjustable head band.  
 Complete with tilting and detachable visor.  
 Manufactured according to EN 397.

<b>357GL</b>	Each	<b>135,00</b>
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**357GL**

2

Product description as Art. 355G  
**PROTECTIVE BOOTS**  
 In rubber, with steel point for highest safety.  
 Colour: white.

N°		42	43	44	45
<b>357GP</b>	Per pair	<b>168,00</b>	<b>168,00</b>	<b>168,00</b>	<b>168,00</b>



**357GP**


Product description as Art. 355G  
**STEEL BOWS FOR HACKSAWS**  
 Reinforced professional model, with aluminium alloy grip and interchangeable blades.  
 For blades 300mm in length.  
 Bow complete with blade for metals.

<b>357GS</b>	Each	<b>68,90</b>
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See Art. 9563 G and 9565 GT for 300mm spare blades.



**357GS**


Product description as Art. 355G  
**STEEL BOWS FOR HACKSAWS**  
 Reinforced professional model, with aluminium alloy structure and interchangeable blades.  
 For blades 150mm in length.  
 Bow complete with blade for metals.

<b>357GT</b>	Each	<b>45,30</b>
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See Art. 2643 G - GA - GB for 150 mm spare blades.



**357GT**


Product description as Art. 355G  
**HACKSAW BLADES**  
 Type made of steel bars with interchangeable blades.  
 For blades 150mm in length.  
 Bow complete with blade for metals.

<b>357GTE</b>	Each	<b>20,80</b>
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See Art. 2643 G - GA - GB for 150 mm spare blades.



**357GTE**


Product description as Art. 355G  
**SAFETY BRUSHES**  
 Suited for dust. In synthetic material.

Width	mm	25	50
<b>357GV</b>	Each	<b>9,44</b>	<b>16,30</b>



**357GV**


Product description as Art. 355G  
**MIRRORS**  
 Fixed mirror type Ø 22mm.

<b>357GZ</b>	Each	<b>26,40</b>
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**357GZ**


## 358GT

SCU



Product description as Art. 355G

## INSULATING TAPES

PVC type, adhesive, for joints, repairs and assembly of circuits and electrical installations.  
Red tape, total length 10m.

Belt width	mm	50	100
<b>358GT</b>	Each	11,10	21,60

## 359A

SCU



Product description as Art. 355G

## ASSORTMENT OF TOOLS

Comprises 16 tools:

- 1 pouch Art. 2071 ZM
- 3 flat-tip screwdrivers Art. 1923 GA 75 - 100 - 125
- 3 cross-slotted screwdrivers Art. 1923 GE 0 - 1 - 2
- 1 phase-detecting screwdriver Art. 1907 GP
- 1 wire stripper with blade Art. 199 GS
- 1 universal pliers Art. 355 GN 190
- 1 long nosed pliers Art. 355 GE 160
- 1 cutter Art. 355 GT 180
- 1 scissors Art. 656 R
- 1 hammer Art. 2705 GR 300
- 1 knife Art. 356 GRE
- 1 tweezers Art. 138 GA

In sturdy pouch to be fitted on a belt.

<b>359A</b>	Each	215,12
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The compositions shown are only an indication.

## 359G

SCU



Product description as Art. 355G

## ASSORTED SET OF TOOLS

Assorted set of 18 tools comprising:

- 7 hexagonal sockets 10-11-12-13-14-17-19mm connection 1/2"
- 1 ratchet lever connection 1/2" Art. 355 GZC 240mm
- 1 extension 125mm connection 1/2"
- 3 nut drivers with handle Art. 355 GZP 6-7-8mm
- 2 flat-tip screwdrivers 100x4-125x5.5mm
- 1 cross-tip screwdriver PH 1
- 1 phase-detecting screwdriver Volt 125-250
- 1 pliers Art. 355 GN 190
- 1 cutter Art. 355 GT 160

In sturdy PVC case.

<b>359G</b>	Each	527,00
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## 359GE

SCU



Product description as Art. 355G

## ASSORTMENT OF TOOLS

Comprises 35 tools:

- 1 trolley bag Art. 2071 ZT
- 6 Allen head wrenches Art. 355 GZA 3 - 4 - 5 - 6 - 8 - 10
- 4 flat-tip screwdrivers Art. 1923 GA 75 - 100 - 125 - 150
- 4 cross-slotted screwdrivers Art. 1923 GE 0 - 1 - 2 - 3
- 1 phase-detector screwdriver Art. 1907 GP
- 1 wire stripper Art. 355 GS
- 1 universal pliers Art. 355 GN 190
- 1 long nosed pliers Art. 355 GE 160
- 1 cutter Art. 355 GT 180
- 1 scissors Art. 656 R
- 1 scissors case Art. 661 L
- 1 hammer Art. 2705 GR 300

In sturdy bag with trolley incorporated.

<b>359GE</b>	Each	702,96
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- 1 adjustable pliers Art. 355 GV
- 1 knife Art. 356 GRE
- 1 tweezers Art. 138 GA
- 1 cable cutters Art. 356 GA
- 1 pair of gloves Art. 357 GE
- 1 bow Art. 357 GT
- 1 cabinet wrench Art. 359 GM
- 1 wire stripper with blade Art. 199 GS
- 1 pliers for cable lugs Art. 205 G
- 1 pliers for cable lugs Art. 207 G
- 1 fleximeter Art. 4141 DA 3
- 1 level Art. 4165 G

The compositions shown are only an indication.



**SWITCH KEY UNIVERSAL WRENCHES**
**Prod. SCU**

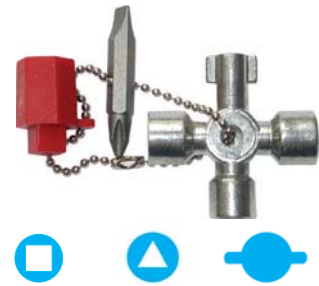
In die-cast zinc. Provided with tool holding chain. Multi-purpose enclosure key wrench designed for use in electric, gas, hydraulic applications, etc. In the building sector it is suited to install HACV systems, valves, etc.

With double insert with cut 1.0x7 mm and cross PH 2 and insert adaptor 1/4"

Model with:

- 1 5mm square socket
- 1 6mm square socket
- 1 7-8mm square socket
- 1 9mm triangular socket
- 1 3-5mm winged key drive.

Dimensions	mm	44x44
<b>359GL</b>	<b>Each</b>	<b>15,50</b>

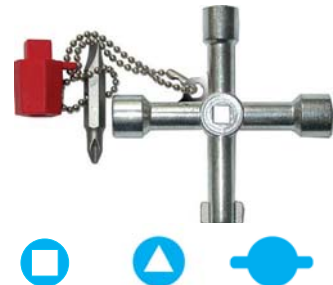
**SCU**
**359GL**

**2**

Product description as Art. 359GL

Model with:

- 1 5mm square socket
- 1 6mm square socket
- 1 7-8mm square socket
- 1 9mm triangular socket
- 1 3-5mm winged key drive.

Dimensions	mm	71x71
<b>359GM</b>	<b>Each</b>	<b>16,20</b>

**SCU**
**359GM  
359GME**


Cheap version with standard finishing. Characteristics similar to Art. 359 GM but without 5mm square socket.

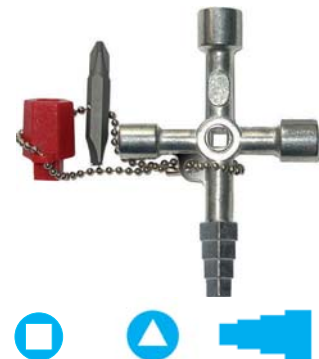
<b>359GME</b>	<b>Each</b>	<b>5,54</b>
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Product description as Art. 359GL

Model with:

- 1 5mm square socket
- 1 6mm square socket
- 1 7-8mm square socket
- 1 9mm triangular socket
- 1 6-7-8-9mm 4 steps square joint.

Dimensions	mm	62x90
<b>359GP</b>	<b>Each</b>	<b>16,20</b>

**SCU**
**359GP**


In synthetic resin reinforced by fiberglass. With clip. Multi-purpose enclosure key wrench designed for use in electric, gas, hydraulic applications, etc. In the building sector it is suited to install HVAC systems, valves, etc.

Complete with cross tip PH 2.

Model with:

- 2 hexagonal connections, one of them magnetic, for 1/4" bits
- 1x 5mm square socket
- 1x 6mm square socket
- 1x 7-8mm square socket
- 1x 9mm triangular socket
- 1x 3-5 winged key drive

Overall length	mm	145
<b>359GR</b>	<b>Each</b>	<b>25,10</b>

**SCU**
**359GR**


## 359GRA

SCU



Product description as Art. 359GR

Model with:

2 hexagonal connections, one of them magnetic, for 1/4" bits

1x 5mm square socket

1x 8mm square socket

1x 9mm triangular socket

1 square conical connection from 6 to 9mm

Overall length mm 145

<b>359GRA</b>	Each	<b>25,10</b>
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## 359GS

SCU



Bright led



Product description as Art. 359GR

Model with:

1 ultra bright front LED

1 magnetic hexagonal connection for 1/4" bits

1 x 6mm square socket

1x 7-8mm square socket

1x 9mm triangular socket

1x 3-5mm winged key drive

Provided with 3 x 1.5 V (LR41) button batteries.

Overall length mm 145

<b>359GS</b>	Each	<b>30,50</b>
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## 359GSA

SCU



Bright led



Product description as Art. 359GR

Model with:

1 ultra bright front LED

1 magnetic hexagonal connection for 1/4" bits

1 x 8mm square socket

1x 9mm triangular socket

1 square conical connection from 6 to 9mm

Provided with 3 x 1.5 V (LR41) button batteries.

Overall length mm 145

<b>359GSA</b>	Each	<b>30,50</b>
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## 359GT

SCU



Product description as Art. 359GR

Model with:

1 phase detector without contact, with light indicator (LED), voltage from 50 to 600V (frequency 50-60 Hz). For alternate current flow check in electric sockets, plugs, electric switches, lamps, cables, fuses EVEN VOLTAGE-FREE. Operating temperature from 0° to 40°C.

1 magnetic hexagonal connection for 1/4"bits

1 x 6mm square socket

1 x 7-8mm square socket

1 x 9mm triangular socket

1 x 3-5mm winged key drive

Provided with 2 x 1.5 V button batteries (see Art. SCU 3600 A).

Overall length mm 158

<b>359GT</b>	Each	<b>39,30</b>
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Product description as Art. 359GR

Model with:

1 phase detector without contact, with light indicator (LED), voltage from 50 to 600V (frequency 50-60 Hz). For alternate current flow check in electric sockets, plugs, electric switches, lamps, cables, fuses EVEN VOLTAGE-FREE. Operating temperature from 0° to 40°C.

1 magnetic hexagonal connection for 1/4"bits

1 x 8mm square socket

1 x 9mm triangular socket

1 square conical connection from 6 to 9mm

Provided with 2 x 1.5 V button batteries (see Art. SCU 3600 A).

Overall length	mm	158
<b>359GTA</b>	Each	<b>39,30</b>

**SCU** **CE** **+** **359GTA**



2

**FENCING PLIERS**

**Prod. SCU**

In special steel. Hardened operating parts. To be used as a hammer, nail puller, chisel, pliers, cutter. Chrome-plated finish, plastic-coated handles.

Overall length	mm	265
<b>360E</b>	Each	<b>39,90</b>

**SCU** **360E**



**FENCING PLIERS**

**Prod. SCU**

In special forged steel. With wire cutter. Polished head.

Overall length	mm	260
<b>360G</b>	Each	<b>43,70</b>

**SCU** **360G**



Product running out of stock.

**BATTERY NUT PLIERS**

**Prod. SCU**

In CHROME-VANADIUM steel. Particularly suitable for battery nuts. Chrome-plated finish.

Overall length	mm	200
<b>362G</b>	Each	<b>29,40</b>

**SCU** **362G**



**ADJUSTABLE PLIERS**

**Orig. Carolus - Art. 2815**

Automatic adjustment type which allows you to tighten quickly, safely, and simply, even using just one hand.

Made from special steel. Head is painted grey. Plastic-coated handles.

Overall length	mm	170	250	300
Max opening	mm	30	40	48
<b>362GA</b>	Each	<b>27,40</b>	<b>30,10</b>	<b>38,10</b>

**carolus** **362GA**



**Prod. SCU**

In special steel. Hardened openings. Two-position adjustable. Chrome-plated finish, plastic-coated handles.

Overall length	mm	150	200	250
<b>362GB</b>	Each	<b>19,10</b>	<b>19,70</b>	<b>23,20</b>

**SCU** **362GB**



**Orig. Gedore - Art. 142 TL-DIN ISO 8976/C**

Special type for rapid and precise adjustment by pressure button for one-hand use. In CHROME-VANADIUM steel.

Fixed double hinge.

Enamelled black head. Plastic-coated handles.

Overall length	mm	250	300
Max opening	mm	38	44
Regulations	Nr.	15	17
<b>362GE</b>	Each	<b>37,30</b>	<b>59,10</b>

**GEDORE** **362GE**



**362GL** 

**Orig. Gedore - Art. 142 JC-DIN ISO 8976/C**

Product description as Art. 362GE

Chrome-plated finish. Insulated handles.

Overall length	mm	250	300
Max opening	mm	38	44
Regulations	Nr.	15	17
<b>362GL</b>	<b>Each</b>	<b>47,10</b>	<b>60,50</b>

**363GB** 

**Orig. Gedore - Art. 143 JC-DIN ISO 8976/B**

In CHROME-VANADIUM steel.

With semicircular joint for rapid positioning. 5 adjustments. Chrome-plated finish. Insulated handles.

Overall length	mm	250
Max opening	mm	32
<b>363GB</b>	<b>Each</b>	<b>39,50</b>

Spare pins for Art. 363 GB.

<b>O363G</b>	<b>Each</b>	<b>2,50</b>
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**364G** 

**Orig. Gedore - Art. 9144 - DIN ISO 8976/B**

In CHROME-VANADIUM forged steel.

Painted finish. Fixed double hinge.

Overall length	mm	175	240	300
Max opening	mm	26	33	45
Regulations	Nr.	6	7	7
<b>364G</b>	<b>Each</b>	<b>26,40</b>	<b>28,10</b>	<b>56,40</b>

**365G** 

**Orig. Gedore - Art. 146-10 C - DIN ISO 8976/C**

Made from CHROME-VANADIUM steel. With 7 settings.

Chrome-plated finish. Fixed double hinge.

Overall length	mm	250
Max opening	mm	40
<b>365G</b>	<b>Each</b>	<b>54,90</b>

**365GA** 

**Orig. Gedore - Art. 146 10 JC**

Product description as Art. 365G

Chrome finish. With double interlocking hinge. Insulated handles, in bi-component material.

Overall length	mm	250
Max opening	mm	40
<b>365GA</b>	<b>Each</b>	<b>60,80</b>

For type with VDE - EN 60900 safety insulation, see Art. 352 GZ.

**365GE** 

**Orig. Carolus - Art. 2010**

With optimal price/quality ratio.

In CHROME VANADIUM steel.

Red painted finish. Fixed double hinge.

Overall length	mm	170	240	300
Max opening	mm	30	36	48
Regulations	Nr	6	7	7
<b>365GE</b>	<b>Each</b>	<b>11,20</b>	<b>14,40</b>	<b>17,60</b>

**366** 


**Prod. SCU**

In CHROME-VANADIUM steel.

Red painted finish. Fixed double hinge. Extra-slim head.

Overall length	mm	240
Max opening	mm	36
<b>366</b>	<b>Each</b>	<b>17,40</b>

Product running out of stock.

**366G** 


High quality type.

In CHROME-VANADIUM steel.

Red painted finish. Fixed double hinge.

Overall length	mm	170	250	300
Max opening	mm	30	36	48
Regulations	Nr	6	7	7
<b>366G</b>	<b>Each</b>	<b>18,70</b>	<b>21,40</b>	<b>32,90</b>

**Orig. Gedore - Art. 145 C-DIN ISO 8976/A**

In CHROME-VANADIUM steel.

Universal water pump pliers. Extra-slim head (only for 250mm).

Chrome-plated finish.

Overall length	mm	250	375	500
Max opening	mm	40	50	65
Regulations	Nr	7	9	11
<b>367G</b>	<b>Each</b>	<b>33,80</b>	<b>79,90</b>	<b>169,00</b>

Spare pins for Art. 367 G.

Overall length	mm	250	375	500
<b>O367G</b>	<b>Each</b>	<b>3,04</b>	<b>4,24</b>	<b>6,44</b>



**367G**



**2**

**Prod. SCU**

In CHROME-VANADIUM steel.

Universal type for nuts and pipes.

Chrome-plated finish. Plastic-coated handles.

Overall length	mm	240
<b>367GL</b>	<b>Each</b>	<b>3,66</b>

Product running out of stock.



**367GL**



**Orig. Gedore - Art. 145 JC-DIN ISO 8976/A**

In CHROME-VANADIUM steel.

Universal water pump pliers, 7 adjustments. Extra-slim head. Dual component insulated handles.

Chrome-plated finish.

Overall length	mm	250
Max opening	mm	40
<b>367GM</b>	<b>Each</b>	<b>39,60</b>

Spare pins for Art. 367 GM.

<b>O367GP</b>	<b>Each</b>	<b>3,04</b>
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**367GM**



**Orig. Gedore - Art. 144 C-DIN ISO 8976A**

In CHROME-VANADIUM steel.

Universal water pump pliers with straight toothed openings for nuts, 7 adjustments.

Chrome-plated finish.

Overall length	mm	115	175
Max opening	mm	16	26
<b>367GT</b>	<b>Each</b>	<b>29,10</b>	<b>30,70</b>

Spare pins for Art. 367 GT.

Overall length	mm	115	175
<b>O367GT</b>	<b>Each</b>	<b>5,32</b>	<b>6,28</b>



**367GT**



**Orig. Gedore - Art. 146 B**

In CHROME-VANADIUM steel.

Rapid adjustment system with 5 positions. Brilliant chrome-plated finish.

Overall length	mm	250
Max opening	mm	50
<b>367GV</b>	<b>Each</b>	<b>79,90</b>



**367GV**



**ADJUSTABLE PLIERS**

**Prod. SCU**

Special combined type pliers-pipe wrench. Roller adjustment assure safe and precise clamping.

In CHROME-VANADIUM steel.

Fixed double hinge. Chrome-plated finish.

Overall length	mm	260
Max opening	mm	50
<b>368G</b>	<b>Each</b>	<b>43,20</b>



**368G**



**ADJUSTABLE NUT PLIERS**

**Prod. SCU**

In forged steel.

Hardened openings.

Special for washbasin tap nuts.

Overall length	mm	250
<b>369A</b>	<b>Each</b>	<b>27,30</b>



**369A**



### SHEARS FOR LEAD PIPES

**369P** **SCU**

**Prod. SCU**

In forged steel.  
 Hardened steel blades.  
 Suited to cut lead tubes. Enamelled.  
 Overall length mm 275  
 Max useful capacity Ø inches 1

<b>369P</b>	Each	<b>36,20</b>
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Spare blades for Art. 369 P.

<b>O369P</b>	Per pair	<b>3,46</b>
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### DRAIN WRENCHES

**370** **SCU**

**Prod. SCU**

In aluminium with double spring pin.  
 Suited to replace and install drains with side slots 1 and 1 1/4 inches, without damaging chrome finish.

<b>370</b>	Each	<b>36,70</b>
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**370A** **SCU**


Adaptor for Art. 370. Suited to cross drain for shower trays and bath tubs.

<b>370A</b>	Each	<b>26,90</b>
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**370B** **SCU**


Adaptor for Art. 370. Suited to three-holes overflow drains for bath tubs.

<b>370B</b>	Each	<b>30,90</b>
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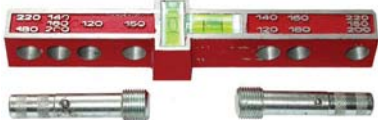
**370C**
**SCU**


In hardened steel.

Provided with guide pin and side clips. Suited to replace and install bath tub drains with fastening screws.

<b>370C</b>	Each	<b>53,80</b>
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### ADJUSTABLE TEMPLATES WITH LEVELS

**370V**
**SCU**

**Prod. SCU**

In die-cast aluminium, with steel pins. Suited to install sanitary equipment.  
 Gas connection inlet 1/2". Connection distance 120-140-150-160-180-200-220mm.  
 Length 250mm.

<b>370V</b>	Each	<b>86,80</b>
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### ROUND NOSE WATER PUMP NUT WRENCH

**371E**
**SCU**

**Prod. SCU**

To fix and reinstall nuts and taps located in sinks, wash basins and bathtub.  
 Right and left operated for user convenience.

In alloy steel. Overall length 220mm. Opening 10mm to 32.

<b>371E</b>	Each	<b>17,90</b>
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**371GA**
**SCU**


Product description as Art. 371E

In special steel, with forged and burnished grip jaw.  
 Overall length 345mm. Opening 10mm to 32.  
 Chrome finish.

<b>371GA</b>	Each	<b>13,40</b>
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Product description as Art. 371E

Completely built in forged steel, burnished grip jaw.  
Overall length 250mm. Opening 15mm to 32.  
Enamelled finish.

**371GB** Each **17,10**



Product description as Art. 371E

Telescopic model, grip jaw in forged steel, burnished.  
Length 280mm to 460. Opening 10mm to 32.  
Zinc finish.

**371GF** Each **30,80**



### WRENCHES FOR WASHBASIN INSTALLATION

**Orig. Sturem - Art. 531000**

Model with sliding and adjustable stud-holder.

In CHROME-VANADIUM steel, forged.

Suitable to install washbasin brackets.

Hard-to-access positions are reached with a wrench thanks to the sliding stud-holder. Chrome finish.

Opening	mm	17x19
For inserts with thread	M.	10
Overall length	mm	215

**371GS** Each **19,70**



### WRENCHES FOR WASHBASIN VALVES

**Orig. Sturem - Art. 580600**

In special steel. 1/2" Male square drive. Chrome finish.

Length 90mm.

**371GT** Each **34,10**



### PLIERS FOR LEAD TUBES

**Prod. SCU**

Used for enlarging and flaring lead pipes.

In special steel, with spring and serrated jaws.

For conical openings.

Overall length	mm	240
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**372** Each **31,60**



### COPPER TUBE PLIERS

**Prod. SCU**

For enlarging and flaring copper pipes.

Hardened, with spring and serrated jaws.

Min./Max diameter 12/28mm.

Overall length	mm	230
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**372GE** Each **27,90**



### PIPE CONNECTING PLIERS

**Prod. SCU - Orig. EDMA**

In special steel for shaping and flanging galvanized steel pipes and similars products for easy and perfect junction.

For sheet steel up to 1mm.

Plastic-coated handles with hand protector and lock.

Edge reduction length 30mm.

Overall length	mm	240
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**372GT** Each **46,90**



## PIPE WRENCHES

373G **Orig. Gedore - Art. 328000**

For tightening, blocking, and fixing tubes safely without damaging them.

Made from malleable cast-iron, jaws made from special plastic, interchangeable, width 15 mm. Painted.

For pipes by Ø	mm	16 - 50
Overall length	mm	300

<b>373G</b>	<b>Each</b>	<b>106,00</b>
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When stocks are depleted, we will provide pliers with handles coated with bi-component material.

Spare jaws in accordance with Art. 373 G.

<b>O373G</b>	<b>Per pair</b>	<b>22,90</b>
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## SIPHON PLIERS

374G **Prod. SCU**

In CHROME-VANADIUM steel.

Plastic-coated handles, 4 adjustments.


With plastic gripping pads for aluminium rings and chrome-plated siphons.

Max opening	mm	70
Overall length	mm	230

<b>374G</b>	<b>Each</b>	<b>44,50</b>
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Spare gripping pads for Art. 374 G.

<b>O374G</b>	<b>Per pair</b>	<b>5,40</b>
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374GB 

In CHROME-VANADIUM steel.

Plastic-coated handles, 4 adjustments.

With toothed jaws.

Max opening	mm	80
Overall length	mm	230

<b>374GB</b>	<b>Each</b>	<b>29,10</b>
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## PLIERS FOR CAR VALVES

377GA **Orig. Gedore - Art. 128**

For all kinds of car engines with head valves.

Particularly suitable to replace valve springs in car engines.

With a pair of straight jaws and a pair of curved ones.

Complete pliers.

Opening	mm	60-225
Overall length	mm	290

<b>377GA</b>	<b>Each</b>	<b>121,00</b>
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Straight jaws for Art. 377 GA.

<b>O377GE</b>	<b>Per pair</b>	<b>24,10</b>
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Curved jaws for Art. 377 GA.

<b>O377GF</b>	<b>Per pair</b>	<b>28,90</b>
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377GB 

Product description as Art. 377GA

Opening	mm	120-280
Overall length	mm	390

<b>377GB</b>	<b>Each</b>	<b>208,00</b>
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Straight jaws for Art. 377 GB.

<b>O377GH</b>	<b>Per pair</b>	<b>24,30</b>
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Curved jaws for Art. 377 GB.

<b>O377GL</b>	<b>Per pair</b>	<b>24,80</b>
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## VALVE SEAL RING PLIERS

378G **Orig. Gedore - Art. 124**

With hardened, burnished jaws and chrome-plated handles.

For removing sealing rings and the elastic support.

Suitable for the following car types: VW – Audi – BMW – Opel – Ford – Nissan – Fiat – etc.

Overall length	mm	250
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<b>378G</b>	<b>Each</b>	<b>77,90</b>
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**SPARK PLUG PLIERS**

**Prod. SCU**

In special steel.  
Suitable for spark testing without removing spark plug.  
Chrome-plated finish. Insulated handles.  
With cutter.

Overall length	mm	200
<b>378GM</b>	Each	<b>27,60</b>

When stocks are depleted, we will provide it with handles coated with bi-component material.



**378GM**



In special steel.

Suitable for the extraction of candle CAPS. Type with deep jaws, rough and inclined at 45°.  
Chrome plated. Dual component handles.  
With cutter.

Overall length	mm	200
<b>378GP</b>	Each	<b>21,20</b>



**378GP**  
*new*



**PLIERS FOR BRAKE SPRINGS**

**Orig. Gedore - Art. 135**

In CHROME-VANADIUM steel.  
Particularly suitable for brakes with stuck linings.

Overall length	mm	330	480
<b>379G</b>	Each	<b>71,50</b>	<b>108,00</b>



**379G**



Product description as Art. 379G

Heavy type with interchangeable elastic hook.

Overall length	mm	500
<b>380G</b>	Each	<b>162,00</b>



**380G**



Spare hook for Art. 380 G.

<b>O380G</b>	Each	<b>18,40</b>
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**WHEEL BALANCE WEIGHT PLIERS**

**Orig. Gedore - Art. 8276C**

In CHROME-VANADIUM steel. For removing, cutting and fixing balancing leads in car rims. They may be used for different purposes since they are equipped with small hammer, screwdriver and punch at handle ends, and hook for fixing springs. Chrome-plated finish.

Overall length	mm	250
<b>381G</b>	Each	<b>96,10</b>



**381G**



**Prod. SCU**

Product description as Art. 381G

Overall length	mm	240
<b>381N</b>	Each	<b>19,10</b>



**381N**



**PISTON RING PLIERS**

**Orig. Gedore - Art. 127**

Made from special steel, prismatic hardened support.  
Nickel-plated finish. To fit and remove piston segments. Spring opening.

Overall length	mm	220
For segments by	mm	60 to 160
<b>383G</b>	Each	<b>67,50</b>



**383G**



**Orig. Gedore - Art. 126**

In printed sheet steel. Nickel-plated finish. For installing and removing piston rings. Blue plastic-coated handles.(except for Gr. 0).



Size N		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
For segments by	mm	30 to 60	55 to 100	80 to 120	110 to 160
Overall length	mm	210	200	240	240
<b>384G</b>	Each	<b>47,10</b>	<b>47,10</b>	<b>50,90</b>	<b>64,60</b>



**384G**





### PLIERS FOR PISTON RINGS

**385G**  

**Prod. SCU**  
 Made from sturdy sheet steel with handles coated in soft material, and a head composed of special, burnished alloys.  
 Universal piston rings which are suitable for applying strips of varying widths. For both vertical and horizontal use.  
 With ratchet device and automatic stop for precise adjustment.

Overall length	mm	265
<b>385G</b>	Each	<b>64,60</b>

Pliers without bands.

**385GS**  

Strip segments made from hardened steel.  
 Suitable for pliers in accordance with Art. 385 G.



For piston Ø by	mm	<b>73 to 79</b>	<b>79 to 85</b>	<b>85 to 92</b>	<b>92 to 98</b>	<b>98 to 104</b>	<b>104 to 111</b>	<b>111 to 117</b>
<b>385GS</b>	Each	<b>24,90</b>	<b>24,90</b>	<b>24,90</b>	<b>24,90</b>	<b>24,90</b>	<b>24,90</b>	<b>26,50</b>

### PISTON RING COMPRESSORS

**386G**  

**Orig. Gedore - Art. 125**  
 With tension wrench. For piston rings.  
 Friction-type.

Size N		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
For segments by Ø	mm	40 to 75	57 to 125	90 to 175	90 to 175
Overall height	mm	50	80	80	165
<b>386G</b>	Each	<b>29,70</b>	<b>47,90</b>	<b>56,90</b>	<b>107,00</b>



**386GK**  

**Prod. SCU**  
 Product description as Art. 386G  
 Ratchet-type.

Size N		<b>1</b>	<b>2</b>	<b>3</b>
For segments by Ø	mm	57 to 127	89 to 164	89 to 178
Overall height	mm	45	90	165
<b>386GK</b>	Each	<b>20,60</b>	<b>42,80</b>	<b>82,50</b>

Size 3 running out of stock.

### BRAKE AND ENGINE CYLINDERS HONES



**387**  

**Prod. SCU**  
 Sphere pigs with flexible abrasives for removing impurities, allowing the piston to slide easily, and for creating a surface on the cylinder walls used for retaining fluid and lubricating oil. For use with electric drills which include manual rotation D+S.

Grain size 180.

Grinder Ø	mm	<b>22</b>	<b>25</b>	<b>89</b>	<b>95</b>	<b>105</b>
For cylinders Ø	mm	20-22	22-25	76-89	89-95	95-105
Drive Ø	mm	6	6	8	8	8
For cylinders		Brakes	Brakes	Motors	Motors	Motors
<b>387</b>	Each	<b>43,50</b>	<b>50,70</b>	<b>143,00</b>	<b>154,00</b>	<b>164,00</b>

Sizes mm 22-25 e 35 running out of stock.

**387L**  

To be used with portable and pillar drills (speed 1500 - 2500 r.p.m.).  
 Made of steel with sturdy spring adjusting the pressure of the 3 abrasive skids.

Size		<b>80</b>	<b>90</b>	<b>160</b>	<b>260</b>
For cylinders Ø	mm	20 to 80	30 to 90	50 to 160	60 to 260
Slides length	mm	35	80	100	127
For cylinders		Brakes	Bike motor	Auto motor	Truck motor
<b>387L</b>	Each	<b>65,70</b>	<b>118,00</b>	<b>130,00</b>	<b>153,00</b>

To cool the abrasive runners it is advisable to use non-oily emulsion grinding.

Set of 3 spare abrasive skids for Art. 387 L

Size		<b>80</b>	<b>90</b>	<b>160</b>	<b>260</b>
<b>O387L</b>	Per set	<b>14,40</b>	<b>28,20</b>	<b>30,50</b>	<b>34,10</b>

**CLUTCH CENTERING TOOLS**

**Prod. SCU**

Steel fastening screw. Body made of special synthetic material.  
Suitable to centre friction disks of all kind of cars and light trucks.  
Provided with 3 clamping pliers Ø 14.5mm to 18 - 18mm to 21 - 21mm to 25.  
Complete

**SCU**

**387P**



**2**

<b>387P</b>	Each	<b>49,60</b>
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Spare pliers for Art. 387 P.

Size	1	2	3	
Ø	14,5 to 18	18 to 21	21 to 25	
<b>O387P</b>	Each	<b>1,22</b>	<b>1,22</b>	<b>1,22</b>

**OIL FILTER WRENCHES**

**Prod. SCU**

Socket-type wrench suitable to pull out oil filters.  
Hexagonal drive.  
Model with internal bihexagonal profile.

**SCU**

**390L**



Int profile Ø	mm	<b>74</b>	<b>92</b>	<b>105</b>
Hexagonal drive	mm	24	24	24
Overall height	mm	43	50	55
Polygon sides	Nr	8	10	15
<b>390L</b>	Each	<b>22,30</b>	<b>25,60</b>	<b>30,30</b>

Socket-type wrench suitable to pull out oil and diesel oil filters.  
Hexagonal drive.

**SCU**

**390M**



Model with internal bihexagonal profile.

Int profile Ø	mm	74
Hexagonal drive	mm	24
Overall height	mm	68
Polygon sides	Nr	14
<b>390M</b>	Each	<b>16,50</b>

Socket-type wrench suitable to pull out oil filters.  
Hexagonal drive.

**SCU**

**390P**



Model with multi-grooved profile for PURFLUX filters.

Int profile Ø	mm	<b>66</b>	<b>76</b>	<b>86</b>	<b>96</b>
Internal notches	Nr	6	12	18	9
Hexagonal drive	mm	24	24	24	24
Overall height	mm	37	39	42	42
<b>390P</b>	Each	<b>12,40</b>	<b>13,50</b>	<b>14,60</b>	<b>16,50</b>

The measure 96 is also suitable for filters with 18 notches.

Professional type with steel strap and adjusting rotary dial.

**SCU**

**391L**  
**391P**



Art.	391L	391P	
Useful capacity Ø	mm	60 to 110	110 to 150
	Each	<b>24,40</b>	<b>27,50</b>

Spare belts for Art. 391 L.

<b>ON391L</b>	Each	<b>5,18</b>
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Spare belts for Art. 391 P.

<b>ON391P</b>	Each	<b>5,88</b>
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Patented type with rapid adjustment by means of handle pawls and marks.  
Nickel-plated finish.

**SCU**

**392**  
**392A**  
**392B**



Steel strap type.

Art.	392	392A	392B	
Useful capacity Ø	mm	45 to 80	70 to 110	110 to 145
	Each	<b>11,70</b>	<b>11,70</b>	<b>14,20</b>

Product description as Art. 392

**SCU**

**392C**  
**392D**  
**392E**



Steel chain type.

Art.	392C	392D	392E	
Useful capacity Ø	mm	70 to 110	110 to 145	45 to 140
	Each	<b>14,20</b>	<b>16,80</b>	<b>38,10</b>

## RING WRENCHES FOR OIL FILTERS

394G 

Orig. Gedore - Art. 37

With lever.

Sturdy adjusting steel ring with clamping lever.

Tooth coupling system.

Useful capacity Ø mm 80 to 110

394G	Each	51,70
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395G 

1/2"

Orig. Gedore - Art. 37 V

Wrench operated.

Sturdy steel ring with square head adjustment. Drive 1/2".

Tooth coupling system.

Useful capacity Ø mm 80 to 110

395G	Each	50,70
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## STRAP WRENCHES FOR OIL FILTERS

396GA 

Orig. Gedore - Art. 36

Chrome finish. Sturdy rubberized fabric, stress-resistant.

Suited to oil filter Suited for oil filters removal and installation.

In special steel

Max capacity Ø mm 140

Belt width mm 25

396GA	Each	35,90
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Spare tapes for Art. 396 GA.

O396GA	Each	17,90
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396GB 

Product description as Art. 396GA

In CHROME VANADIUM steel.

Max capacity Ø mm 200

Belt width mm 25

396GB	Each	72,60
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Spare tapes for Art. 396 GB.

O396GB	Each	26,90
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396GR 

Orig. Carolus - Art. 0450.00

In special steel. Chrome finish, antislip strap.

Max capacity Ø mm 140

Belt width mm 15

396GR	Each	20,80
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## CHAIN WRENCHES FOR OIL FILTERS

396T 

1/2"

Prod. SCU

Half inch square driver for use with ratchets and torque wrenches with controlled tightening.

Adjustable chain. Suitable for installing and uninstalling oil filters and irregularly shaped bodies.

Useful capacity Ø mm 16 to 127

396T	Each	72,00
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Articulated lever, nickel plated finish. Adjustable chain. Suited for oil filters removal and installation.

Max tightening Ø	mm	125
<b>397</b>	Each	<b>20,60</b>

SCU

397



2

Articulated and 90° folding lever, fixed grip, max length 180mm, nickel plated. Adjusting chain. Suited for oil filters removal and installation.

Useful capacity Ø	mm	45 to 145
<b>397A</b>	Each	<b>70,40</b>

SCU

397A



Articulated and 90° folding lever, telescopic grip, max length 250mm, nickel plated. Adjusting chain. Suited for oil filters removal and installation.

Useful capacity Ø	mm	45 to 145
<b>397B</b>	Each	<b>93,90</b>

SCU

397B



**WRENCHES FOR OIL FILTERS**

**Prod. SCU**

Made of steel. Operated with 21mm wrenches and 3/8" - 1/2" ratchet. Suitable to pull out filters in hard-to-access positions.

For filters Ø	mm	65 to 110
Grip depth	mm	45
Overall height	mm	85
<b>397C</b>	Each	<b>23,40</b>

SCU

397C



3/8"

1/2"

**Orig. Gedore - Art. 1.76/1**

Professional, very sturdy model in special steel. Operated by fixed and sliding bars, bent bars and 1/2" ratchets. Suitable to pull out large filters, granulate cartridges in compressed air truck driers, even in places hard to reach. Zinc-plated finish.

For filters Ø	mm	95 to 165
Grip depth	mm	55
Overall height	mm	80
<b>397E</b>	Each	<b>89,00</b>

GEDORE

397E



1/2"

**PULLEY STRAP WRENCHES**

**Orig. Gedore - Art. 36 Z-140**

In special steel. Chrome finish, reinforced rubber strap to lock pulleys and V-belts. Suited for alternator, water pump, compressor engine, washing machine, machine tool, etc. pulleys. Also suited to rotate camshafts and to remove oil and diesel oil filters.

Max capacity Ø	mm	160
<b>397G</b>	Each	<b>93,30</b>

GEDORE

397G



**EXPANDERS FOR DRAIN PIPES**

400


**Prod. SCU**

Aluminium body. Suitable sized spanner with hole.

Size		1	2
Capacity Ø by	mm	29 to 44	38 to 63
Overall length	mm	131	164
Useful length	mm	51	64
Hexagon opening	mm	16	17
<b>400</b>	<b>Each</b>	<b>120,00</b>	<b>134,00</b>

Size 1 running out of stock.

**CHAIN CUTTER AND RIVETING TOOL IN KIT**

402

new


**Prod. SCU**

Suitable for the disassembly/assembly of chains of different sizes, as it is equipped with 3 pins of different diameter from 3.5 to 5-6 mm.

All components made of hardened steel.

In robust plastic case.

<b>402</b>	<b>Each</b>	<b>277,00</b>
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**"MICRO-GRIP" PLIERS**

410G


**Prod. SCU**

Of small dimensions, handy, safe clamping of small objects – Body in light alloy with release lever. Brass lower jaw, screw adjusting, 90° fixed upper jaw. Also for one hand use. Weight 120gr.

Overall length	mm	92
Opening	mm	12
<b>410G</b>	<b>Each</b>	<b>22,40</b>

Set of 4 copper tips + tightener nut on the upper jaw to transform the pliers into earth clamp, max capacity up to A 50. For Art. 410G.

<b>O410G</b>	<b>Each</b>	<b>15,80</b>
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**AXIAL "GRIP" PLIERS**

416GA


**Prod. SCU**

Axial closing type. Special steel jaws, nickel-plated steel body.

Adjustable opening jaws. Immediate clamping and release.

Suitable for clamping in confined areas.

Particularly suitable for coachworks, carpentry works and clamping in confined areas.

With 1 fixed jaw and 1 movable jaw.

With straight jaws.

Overall length	mm	195
Opening	mm	18
Jaws width	mm	18
Jaws depth	mm	13
<b>416GA</b>	<b>Each</b>	<b>36,10</b>

416GB




Product description as Art. 416GA

With curved, straight jaw.

Overall length	mm	210
Max opening	mm	15
Jaws width	mm	18
Jaws depth	mm	7
<b>416GB</b>	<b>Each</b>	<b>39,70</b>

416GC




Product description as Art. 416GA

With straight, large jaws

Overall length	mm	195
Max opening	mm	15
Jaws width	mm	57
Jaws depth	mm	36
<b>416GC</b>	<b>Each</b>	<b>50,60</b>

Product description as Art. 416GA

With large jaws bent to 90°.

Overall length	mm	200
Max opening	mm	10
Jaws width	mm	50
Jaws depth	mm	15

<b>416GD</b>	<b>Each</b>	<b>51,50</b>
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**416GD**

Product description as Art. 416GA

With curved, large jaws.

Overall length	mm	220
Max opening	mm	15
Jaws width	mm	45
Jaws depth	mm	9

<b>416GE</b>	<b>Each</b>	<b>43,50</b>
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**416GE**

Product description as Art. 416GA

With double-curved, large jaws.

Overall length	mm	235
Max opening	mm	15
Jaws width	mm	45
Jaws depth	mm	25

<b>416GF</b>	<b>Each</b>	<b>45,10</b>
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**416GF**
**LONG NOSE GRIP PLIERS**
**Prod. SCU**

With forged steel jaws.

Adjustable opening jaws. Immediate clamping and release.

Suitable for clamping in confined areas.

Overall length	mm	165
Jaws length	mm	60
Max opening	mm	45

<b>417G</b>	<b>Each</b>	<b>20,30</b>
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**SCU**
**417G**


Product description as Art. 417G

Overall length	mm	235
Jaws length	mm	80
Max opening	mm	80

<b>418G</b>	<b>Each</b>	<b>27,30</b>
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**SCU**
**418G**


Product description as Art. 417G

Overall length	mm	300
Jaws length	mm	145
Max opening	mm	70

<b>418GE</b>	<b>Each</b>	<b>31,80</b>
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**SCU**
**418GE**


With forged steel jaws.

Pistol grip handle for a more comfortable and strong grip. Adjustable jaw opening. Immediate clamping and release.

Suitable for clamping in confined areas.

Overall length	mm	180
Jaws length	mm	65
Max opening	mm	40

<b>418GP</b>	<b>Each</b>	<b>37,10</b>
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**SCU**
**418GP**

**PINCH-OFF "GRIP" PLIERS FOR PIPES**
**Prod. SCU**

With forged steel jaws.

Suitable for crushing lead and copper pipe terminals. Particularly suitable for repairing fridges and air-conditioners.

Screw adjustable pressure. Adjustable opening jaws. Immediate clamping and release.

Overall length	mm	190
Jaws length	mm	40

<b>419G</b>	<b>Each</b>	<b>25,40</b>
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**SCU**
**419G**


**"GRIP" PLIERS**

420GS




Prod. SCU

With concave steel jaws.

Adjustable opening jaws. Immediate clamping and release.

Overall length	mm	135	190	235	300
Max opening	mm	27	35	48	65
<b>420GS</b>	<b>Each</b>	<b>16,50</b>	<b>19,90</b>	<b>21,40</b>	<b>30,70</b>

422G




Orig. Gedore - Art. 137

With forged heat-treated jaws, in CHROME-VANADIUM.

It can be used as pliers, nut and pipe wrench and as clamp.

Adjustable jaw opening.

Immediate clamping and release, also with just one had.

Nickel-plated finish. Patented jaws.

Overall length	mm	175	250	280	300
Max opening	mm	25	32	45	45
<b>422G</b>	<b>Each</b>	<b>27,60</b>	<b>33,20</b>	<b>47,60</b>	<b>67,10</b>

**AUTOMATIC "GRIP" PLIERS**

422GE

new




Orig. Peddinghaus

Type with automatic adjustment of jaws depending on the thickness of the material.

Immediate release, by means of a coated lever. With concave, steel jaws.

Overall length	mm	160	250
Max opening	mm	25	35
Supplier code		9306061001	9306101001
<b>422GE</b>	<b>Each</b>	<b>42,70</b>	<b>44,90</b>

**"GRIP PARALLEL" PLIERS**

422GP




Orig. Gedore - Art. 137 P

In alloy steel. Parallel opening and closing of the serrated jaws.

Adjustable opening. Immediate clamping and release.

Nickel-plated finish.

Overall length	mm	250
Max opening	mm	50
<b>422GP</b>	<b>Each</b>	<b>82,30</b>

PVC protection jaws for delicate materials.

<b>O422GP</b>	<b>Per pair</b>	<b>9,02</b>
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**SPECIAL "GRIP" PLIERS**

422GS




Orig. Gedore - Art. 139

With forged jaws. In CHROME-VANADIUM steel.

Adjustable jaw opening.

Immediate clamping and release.

Mobile lower jaw for fitting flat surfaces, round or irregular bodies. Nickel-plated finish.

Overall length	mm	250
Max opening	mm	45
<b>422GS</b>	<b>Each</b>	<b>53,50</b>

423GE




Prod. SCU

Forged steel jaws. With mobile end noses.

Adjustable opening jaws. Immediate clamping and release.

Max clamping depth.

Overall length	mm	235	300
Max opening	mm	45	100
<b>423GE</b>	<b>Each</b>	<b>30,10</b>	<b>33,40</b>

**"EXTRA CAPACITY GRIP" PLIERS**

423GL




Prod. SCU

With forged steel jaws. Large opening.

Adjustable opening jaws. Immediate clamping and release.

Overall length	mm	300
Max opening	mm	100
<b>423GL</b>	<b>Each</b>	<b>38,20</b>



With CHROME-VANADIUM steel forged jaws.  
 Double adjusting long jaws which allow large openings (4 positions).  
 Locking and unlocking lever with instant coating for use with one single hand. Chrome finish.

Overall length	mm	250
Max opening	mm	100
<b>423GP</b>	<b>Each</b>	<b>67,60</b>



2

**CHAIN "GRIP" PLIERS**

**Prod. SCU**  
 Sheet steel body and steel chain.  
 For clamping irregular bodies and pipes.

Length without chain	mm	250
Chain length	mm	480
Max tightening capacity	mm	25 to 160
<b>423GS</b>	<b>Each</b>	<b>43,60</b>



Spare chain for Art. 423

<b>O423GS</b>	<b>Each</b>	<b>21,20</b>
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**"GRIP" PLIERS**

**Prod. SCU**  
 Forged steel jaws. Especially designed for welding.  
 Adjustable opening jaws. Immediate clamping and release.  
 The particular shape of the jaws allows to approach and lock the pieces to weld. Short, light and handy.

Overall length	mm	200
Max opening	mm	60
<b>423GV</b>	<b>Each</b>	<b>26,90</b>



**Orig. Gedore - Art. 138**  
 With forged jaws in alloy steel. Especially designed for welding.  
 Adjustable opening jaws. Immediate clamping and release.  
 The particular shape of the jaws allows to approach and lock the pieces to be weld. Nickel-plated finish.

Overall length	mm	280
Max opening	mm	90
<b>424G</b>	<b>Each</b>	<b>45,70</b>



**Prod. SCU**  
 With ALUMINIUM jaws. Especially designed for welding.  
 Adjustable opening jaws. Immediate clamping and release.  
 The particular shape of the jaws allows to approach and lock the pieces to be weld. Nickel-plated finish.

Overall length	mm	280
Max opening	mm	90
<b>424GF</b>	<b>Each</b>	<b>48,90</b>



**Orig. Gedore - Art. 138 X**  
 With forged jaws in alloy steel.  
 Especially designed for welding pipes and round parts.  
 Adjustable opening jaws. Immediate clamping and release.  
 The large jaws opening allows to grip pipes from 3/8 up to 3.1/2 inches (Ø mm. 10 to 90). Nickel-plated finish.

Overall length	mm	280
Max opening	mm	90
<b>426G</b>	<b>Each</b>	<b>46,90</b>



**Orig. Gedore - Art. 138 Y**  
 With forged heat-treated jaws.  
 In CHROME-VANADIUM steel.  
 Adjustable opening jaws. Immediate clamping and release.  
 Its wide and sturdy jaws assure clamping and locking of raised edges or hollow components. Nickel-plated finish.

Overall length	mm	280
Max opening	mm	95
Max depth	mm	75
<b>428G</b>	<b>Each</b>	<b>49,20</b>



**428GF****SCU****Prod. SCU**

With aluminium jaws, wide opening.

Adjustable opening jaws. Immediate clamping and release.

Its wide and sturdy jaws assure clamping and locking of raised edges or hollow components. Nickel-plated finish.

Overall length	mm	<b>280</b>	<b>350</b>
Max opening	mm	100	180
Max depth	mm	75	130
<b>428GF</b>	<b>Each</b>	<b>42,30</b>	<b>60,10</b>

**C-CLAMP "GRIP" PLIERS****429G****GEDORE****Orig. Gedore - Art. 138 Z**

Clamping noses in CHROME-VANADIUM steel.

Adjustable opening jaws. Immediate clamping and release.

Lengthened jaws for clamping particularly wide components.

Nickel-plated finish.

Overall length	mm	<b>460</b>	<b>600</b>
Max opening	mm	280	400
Max depth	mm	250	400
<b>429G</b>	<b>Each</b>	<b>102,00</b>	<b>108,00</b>

**SPECIAL C-CLAMP "GRIP" PLIERS****429GE****SCU****Prod. SCU**

Special steel jaws. With mobile end noses.

Adjustable opening jaws. Immediate clamping and release.

Suitable for clamping particularly wide and irregular-shaped parts.

Overall length	mm	<b>300</b>	<b>460</b>	<b>630</b>
Max opening	mm	80	230	370
Max depth	mm	70	240	400
<b>429GE</b>	<b>Each</b>	<b>38,90</b>	<b>56,40</b>	<b>65,60</b>

**SPECIAL "GRIP" PLIERS****429GH****SCU****Prod. SCU**

Special steel jaws. With mobile end noses.

Adjustable opening jaws. Immediate clamping and release.

Suitable for clamping particularly wide and irregular-shaped parts.

Max vertical opening	mm	<b>150</b>	<b>230</b>	<b>300</b>
Min vertical opening	mm	80	150	230
<b>429GH</b>	<b>Each</b>	<b>45,40</b>	<b>55,90</b>	<b>57,60</b>

**VICE "GRIP" PLIERS****429GM****GEDORE****Orig. Gedore - Art. 137 MSP**

In CHROME-VANADIUM steel.

Adjustable opening jaws. Immediate clamping and release.

For rapidly locking irregular-shaped parts to be worked on flat surfaces.

They can be used on tool machines with grooved tables.

For stay bolts with threaded fixing pin M8 – M10 – M12.

Overall length	mm	280
Max opening	mm	100
<b>429GM</b>	<b>Each</b>	<b>91,40</b>

**LARGE JAW "GRIP" PLIERS****429GP****GEDORE****Orig. Gedore - Art. 136 BM**

Alloy steel jaws.

Adjustable opening jaws. Immediate clamping and release.

Suitable for clamping angular and flat bodies.

Overall length	mm	200
Jaws width	mm	80
Max opening	mm	30
<b>429GP</b>	<b>Each</b>	<b>54,60</b>

**JOINER CLAMP GRIP PLIERS**

**Orig. Gedore**

Alloy steel jaws. Wide opening. Upper jaw slipping with under load locking in the required position. With jaw locking clamp for the utmost safety.

Nickel-plated finish.

With clamp.

Art.		<b>429GT</b>	<b>429GV</b>
Max opening	mm	100	200
Overall length	mm	260	260
Supplier code		136SP	136SP
<b>Each</b>		<b>131,00</b>	<b>139,00</b>



**429GT**  
**429GV**



**2**

**WRENCH "GRIP" PLIERS**

**Orig. Gedore**

Jaws made of alloy steel. Immediate locking and release.

Type with strong hold and gripping system that prevents the unintentional opening of the jaws. For places that are hard to access, also for worn nuts that are hard to unscrew. Particularly suitable for brake lines, tie rods, etc.

Max opening	mm	<b>10</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>
Overall length	mm	190	195	195	198	198	250	250
Supplier code		137 7-10	137 7-12	137 7-13	137 7-14	137 7-15	137 10-16	137 10-17
<b>429GVE</b>	<b>Each</b>	<b>67,90</b>	<b>71,30</b>	<b>71,30</b>	<b>73,20</b>	<b>73,20</b>	<b>83,60</b>	<b>83,60</b>
Max opening	mm	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>24</b>	<b>27</b>
Overall length	mm	255	255	258	258	260	253	258
Supplier code		137 10-18	137 10-19	137 10-20	137 10-21	137 10-22	137 10-24	137 10-27
<b>429GVE</b>	<b>Each</b>	<b>86,70</b>	<b>86,70</b>	<b>91,40</b>	<b>91,40</b>	<b>92,10</b>	<b>97,70</b>	<b>97,70</b>



**429GVE**  
*new*



**HOLDERS FOR "GRIP" PLIERS**

**Prod. SCU**

In sturdy sheet steel. Bench-locked with screw clamp max 55mm. Multi-purpose Grip pliers, bench use. Possible parallel fixing in case of long components. Weight Kg 0,270.

For all GRIP pliers included in the SCU-GEDORE program (except for Art. 417 G - 420 GSx135 - 422 Gx175).

<b>429GZ</b>	<b>Each</b>	<b>12,40</b>
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**429GZ**



**PUNCHING PLIERS**

**Prod. SCU**

Body in die-cast aluminium. For punching metal sheets of any shape with minimum effort (stainless steel sheets excluded). Interchangeable, re-sharpable punch

Overall length 220mm. Max. opening 20mm. Return spring. Pliers complete with 1 set of punch and die.

For bores Ø	mm	<b>5</b>	<b>6</b>	<b>8</b>
For sheets with max. thickness	mm	1,2	1,2	0,8
<b>430E</b>	<b>Each</b>	<b>57,40</b>	<b>57,40</b>	<b>68,20</b>

Spare punch and die sets for Art. 430 E

For bores Ø	mm	<b>5</b>	<b>6</b>	<b>8</b>
<b>O430E</b>	<b>Per pair</b>	<b>19,80</b>	<b>19,80</b>	<b>23,40</b>



**430E**



**Prod. SCU - Orig. Tama**

Body in solid steel C60. For punching metal sheets, plastic, leather, cardboard, etc. with minimum effort.

With spacer for punching adjustment. Double-fulcrum lever. High-resistance steel punches.

The smallest punching machines. Front head.

With punch Ø 5mm.

Overall length	mm	220
Max span	mm	20
For sheets with max. thickness	mm	1
For bores by	mm	2 to 5
<b>430G 1</b>	<b>Each</b>	<b>73,60</b>



**430G 1**



For spare punches and dies see Art. 432 G.

**430G 2** SCU



Product description as Art. 430G 1  
Reinforced type. Front head.  
With punch Ø 5mm.

Overall length	mm	260
Max span	mm	30
For sheets with max. thickness	mm	1.5
For bores by	mm	2 to 5

**430G 2** Each **73,60**

For spare punches and dies see Art. 432 G.

**430G 4** SCU



Product description as Art. 430G 1  
With return spring, head suitable for punching angular bodies.  
With spacer.  
With punch Ø 6mm.

Overall length	mm	300
Max span	mm	40
For sheets with max. thickness	mm	1.25
For bores by	mm	4 to 6

**430G 4** Each **110,00**

For spare punches and dies see Art. 432 GM.

**430G 5** SCU



Product description as Art. 430G 1  
Pliers type.  
With puncher Ø 8mm.

Overall length	mm	315
Max span	mm	40
For sheets with max. thickness	mm	1.75
For bores by	mm	2 to 8

**430G 5** Each **110,00**

For spare punches and dies see Art. 432 GS.

**430G 8** SCU



Product description as Art. 430G 1  
Pliers type.  
Reinforced details.  
High-resistance steel punches. Weight 4,5Kg.  
With punch Ø 10mm.

Overall length	mm	520
Max span	mm	40
For sheets with max. thickness	mm	1.5
For bores by	mm	3 to 10

**430G 8** Each **596,00**

For spare punches and dies see Art. 432 GV.

**RATCHET PUNCHING PLIERS**

**430GA** BAUDAT



**Orig. Baudat - Art. 80-802. (Mod. LZ 2000)**  
Special type with ratchet movement for powerful punching action (200KN).  
Limited load, die and punch integrated in one single interchangeable support for rapid adjustment.  
Special steel head and plastic ergonomic handles with hand protector.  
Weight 1,3Kg.

Without die/punch support.

Overall length	mm	280
Max span	mm	50
For sheets with max. thickness	mm	2
For round bores by	mm	4 to 13
For rectangular bores by	mm	5x10 to 7x13

**430GA** Each **546,00**

**430GB** BAUDAT



**Orig. Baudat**  
DIES SUPPORTS COMPLETE WITH ROUND PUNCHES FOR ART. 430 GA  
Die support with punch.

Ø	mm	4,2	5	6	7	9	10,5	11	13
<b>430GB</b>	Each	263,00	263,00	263,00	150,00	150,00	150,00	150,00	150,00

**430GE** BAUDAT



DIES SUPPORTS COMPLETE WITH RECTANGULAR PUNCHES FOR ART. 430 GA  
Die support with punch.

Dimensions	mm	5x10	5x13	6x13	7x13
<b>430GE</b>	Each	882,00	560,00	560,00	560,00

**PUNCHING AND SHEET FOLDING PLIERS**

**Prod. SCU**

Body in die-cast aluminium. Hardened forming jaws.  
The welding of two metal sheets results in perfectly parallel surfaces. For metal sheets max thickness 1mm.

**FOLDING PLIERS**

Pliers type with return spring.

Overall length	mm	220
Jaws width	mm	10

<b>431E</b>	<b>Each</b>	<b>57,40</b>
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**431E**

**2**

**Prod. SCU - Orig. Tama**

Steel body. Hardened forming jaws. Plastic-coated handles.  
The welding of two metal sheets results in perfectly parallel surfaces. For metal sheets max thickness 1mm.

**FOLDING PLIERS**

Pliers type with double fulcrum and return spring.

Overall length	mm	300
Jaws width	mm	22

<b>431G</b>	<b>Each</b>	<b>73,60</b>
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**431G**

Product description as Art. 431G

**PUNCHING AND FOLDING PLIERS**

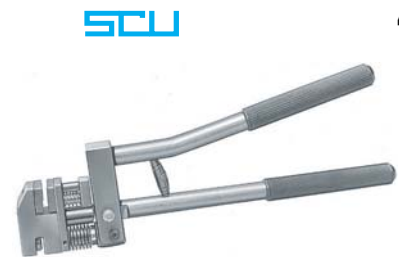
Pliers type with return spring.

Revolving head for better positioning while working. With punch Ø 6mm.

Overall length	mm	290
Profiling depth	mm	20
Jaws width	mm	22
Punch max span	mm	7
To punch Ø	mm	4-5-6-7

<b>431G 5</b>	<b>Each</b>	<b>110,00</b>
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For spare punches and dies see Art. 432 GT.



**431G 5**

Aluminium body. Hardened steel forming jaws.

The welding of 2 metal sheets results in perfectly parallel surfaces.

For metal sheets of maximum thickness 1 mm.

Air compressed patented type, combined for punching metal sheets to be welded by MIG/TIG system. Revolving head.

With punch Ø 7mm.

Overall length	mm	240
Profiling depth	mm	13
Jaws width	mm	22
Punch max span	mm	7
To punch Ø	mm	4-5-6-7
Use pressure	Atm	6-7
Produced pressure	Kg	850
Weight	Kg	1.4

<b>431G 6</b>	<b>Each</b>	<b>606,00</b>
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For spare punches and dies see Art. 432 GT.

Product running out of stock.



**431G 6**

**Prod. Pneutec - Art. UT 8360**

Aluminium body. Hardened steel head. The welding of two metal sheets results in perfectly parallel surfaces. For metal sheets max thickness 1,4mm.

Air compressed type, combined for punching metal sheets to be welded by MIG/TIG system.

With punch Ø 8mm.

Overall length	mm	240
Air consumption	l/sec	0,5
Noise level	dB	73
Air drive	inches	1/4
To punch Ø	mm	8
Use pressure	Atm	6-7
Weight	Kg	1,3

<b>431G 8</b>	<b>Each</b>	<b>225,00</b>
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Spare punch and die Ø 8mm available on request.



**431G 8**

**SPARE PARTS FOR PUNCHING MACHINES**

**Prod. SCU - Orig. Tama**

Couples of punches/dies in high-resistance hardened steel. Suitable for indicated punchers.

For punching machines Art. 430 G – 430 G1 – 430 G2.

For bores Ø	mm	<b>2</b>	<b>2,5</b>	<b>3</b>	<b>3,5</b>	<b>4</b>	<b>4,5</b>	<b>5</b>
<b>432G</b>	<b>Per pair</b>	<b>44,50</b>	<b>44,50</b>	<b>44,50</b>	<b>44,50</b>	<b>44,50</b>	<b>44,50</b>	<b>44,50</b>

Body Ø 7mm



**432G**

**432GM** SCU



Product description as Art. 432G  
For punching machines Art. 430 G4.

For bores Ø	mm	4	5	6
<b>432GM</b>	Per pair	54,80	54,80	54,80

Body Ø 10mm

**432GS** SCU



Product description as Art. 432G  
For punching machines Art. 430 G5.

For bores Ø	mm	2	2,5	3	3,5	4	4,5	5
<b>432GS</b>	Per pair	48,10	48,10	48,10	48,10	48,10	48,10	48,10
For bores Ø	mm	5,5	6	6,5	7	7,5	8	
<b>432GS</b>	Per pair	48,10	48,10	48,10	48,10	48,10	48,10	

Body Ø 10mm

**432GT** SCU



Product description as Art. 432G  
For punching machines Art. 431 G5 – 431 G6.

For bores Ø	mm	4	5	6	7
<b>432GT</b>	Per pair	54,80	54,80	54,80	54,80

Body Ø 10mm

**432GV** SCU



Product description as Art. 432G  
For punching machines Art. 430 G8.

For bores Ø	mm	3	3,5	4	4,5	5	5,5	6
<b>432GV</b>	Per pair	117,00	117,00	117,00	117,00	117,00	117,00	117,00
For bores Ø	mm	6,5	7	7,5	8	8,5	9	9,5
<b>432GV</b>	Per pair	117,00	117,00	117,00	117,00	117,00	117,00	117,00
For bores Ø	mm	10						
<b>432GV</b>	Per pair	117,00						

Body Ø 14mm

**FOLDING PLIERS FOR TINSMITH**

**436G** SCU



**Prod. SCU**  
In forged, hardened steel.  
Suitable for bending metal sheets. Burnished finish. Plastic-coated handles.  
Straight noses

Overall length	mm	275
Noses max. width	mm	60
<b>436G</b>	Each	35,10

**437G** SCU



Product description as Art. 436G  
Noses bent to 45°.

Overall length	mm	275
Noses max. width	mm	60
<b>437G</b>	Each	39,20

**438G** SCU



In forged, hardened steel.  
Suitable for bending metal sheets. Lacquered finish.  
Noses bent to 90°.

Overall length	mm	250
Noses max. width	mm	60
<b>438G</b>	Each	39,20

**PUNCH PLIERS**

**449** SCU



**Prod. SCU**  
Made from sturdy sheet steel.  
With 8 punch drum measuring mm 1 - 1,5 - 2 - 2,5 - 3 - 3,5 - 4 - 5. Enamel finish. With spring.

Overall length	mm	210
<b>449</b>	Each	17,60

Spare punches are available on request.

Sturdy sheet steel type.  
With 6 punch hammer from 2 to 5mm. Nickel-plated finish. With spring, locking device and display for measure reading.

Overall length	mm	210
<b>450</b>	Each	<b>17,40</b>

Forged hammer type available on request



**450**

Sturdy sheet steel type.  
With 6 punch hammer from 2 to 5mm.. Polished finish. With spring, locking device and small display window.

Overall length	mm	210
<b>450E</b>	Each	<b>16,20</b>

Spare punches for Art. 450 – 450E – 460 G.

Ø	mm	2	2,5	3	3,5	4	4,5	5
<b>O450</b>	Each	1,04	1,04	1,04	1,04	1,04	1,04	1,04



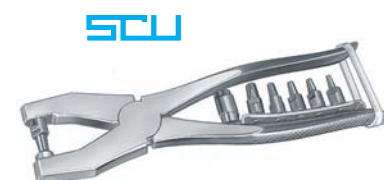
**450E**

In forged steel. With no. 6 interchangeable punches from 2 to 5mm.  
Polished finish.

Overall length	mm	210
<b>452</b>	Each	<b>33,10</b>

Spare punches for Art. 452.

Ø	mm	2	2,5	3	3,5	4	4,5	5
<b>O452</b>	Each	2,34	2,34	2,34	2,34	2,34	2,34	2,34



**452**

Double-lever industrial type.  
For non-stop working with little effort. In sturdy sheet steel.  
With 6 punch hammer from 2-2,5-3-3,5-4-4,5mm.  
Nickel-plated finish and synthetic material ergonomic handles.  
With spring and small display window.

Overall length	mm	250
<b>454G</b>	Each	<b>39,90</b>

Set of 6 punches for Art. 454 G.

<b>O454GF</b>	Per set	<b>5,40</b>
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**454G**

**EYELET PLIERS**

**Prod. SCU**

Type for large eyelets with high pressure capability. Very strong model with optimum strength transmission ratio without tiring your hand. Parallel closing of the jaws with interchangeable punches and dies. Made of strong steel sheets. Ideal for tents, awnings, sails, woven fabrics, blankets, etc.

Supplied without punches, dies and eyelets.

For sheet eye-lets int Ø mm 6,5-8,5-10-12,5

Pliers length mm 300

<b>455GA</b>	Each	<b>83,60</b>
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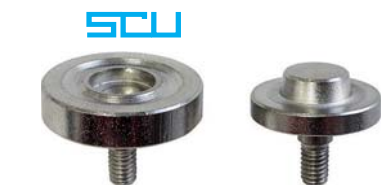


**455GA**  
*new*

Product description as Art. 455GA

Couples of hardened steel punches and dies for use with pliers Art. 455 GA.

For sheet eye-lets int Ø	mm	6,5	8,5	10	12,5
<b>455GB</b>	Per pair	5,86	6,04	17,60	20,10



**455GB**  
*new*

Product description as Art. 455GA

Nickel-plated brass eyelets for use with pliers Art. 455 GA.

Packages containing quantity indicated below.

Int Ø eyelets	mm	6,5	8,5	10	12,5
Number of eyelets for package	pz.	75	50	25	15
<b>455GD</b>	Per pack	10,30	10,30	10,30	10,30



**455GD**  
*new*

**455GE** SCU



Large eyelets type, great pressure capacity (approx. 1 Ton). Patented model, double lever to reduce the stress of use. Jaw parallel closing and screw clamping system for interchangeable punches and dies. Hardened steel head and sturdy steel handle. Suitable for particularly thick and sturdy canvas, covers, sails, etc.

Provided without punches, dies and eyelets.

For sheet eye-lets int Ø mm 14-16-18-20

Pliers length mm 500

<b>455GE</b>	Each	<b>153,00</b>
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**455GF** SCU



Product description as Art. 455GE

Couples of hardened steel punches and dies to be used with pliers Art. 455 GE.

For sheet eye-lets int Ø mm 14 16 18 20

<b>455GF</b>	Per pair	<b>39,50</b>	<b>40,90</b>	<b>42,20</b>	<b>43,50</b>
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**455GL** SCU



Product description as Art. 455GE

Brass eyelets to be used with pliers Art. 455 GE. Packing units: 10 eyelets each, not sold separately.

Int Ø eyelets mm 14 16 18 20

<b>455GL</b>	Per pack	<b>9,56</b>	<b>10,20</b>	<b>11,10</b>	<b>13,60</b>
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**456G** SCU



Type equipped with 3 couples of interchangeable punches and dies, for eyelets ext. Ø 4,5-5,5mm. Nickel-plated finish.

With spring.

Overall length mm 205

<b>456G</b>	Each	<b>19,10</b>
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Eyelets see. Art. 0460 G. Forged type available on request.

Couples of spare punches and dies for Art. 456 G.

For eyeletss ext Ø mm 4,5 5 5,5

<b>O456G</b>	Per pair	<b>3,20</b>	<b>3,20</b>	<b>3,20</b>
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**COMBINED PLIERS FOR EYELETS**

**460G** SCU



Prod. SCU

Sturdy sheet steel. 3 punch hammer for pre-punching from 4-4.5-5mm and 3 punches to clamp eyelets ext. Ø 4.5-5-5.5mm.

Nickel-plated finish and ergonomic handles made from synthetic material. With spring.

Overall length mm 220

<b>460G</b>	Each	<b>22,40</b>
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For spare punches see Art. 0450 4-4,5-5mm.

Spare punches for eyelets 4,5-5-5,5mm available on request.

Assortment of 100 eyelets for Art. 456 G and 460 G.

For eyeletss ext Ø mm 4,5 5 5,5

<b>O460G</b>	Per pack	<b>7,22</b>	<b>7,22</b>	<b>7,22</b>
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**FENCING PLIERS**

**470A** carolus



Orig. Carolus - Art. 9999.900

Multi-purpose pliers made from stainless steel, open length 150 mm, closed length 90 mm, with various functions: tightening, cutting, screwing, drilling, filing, opening caps and baskets, etc.

With belt pocket made from sturdy fabric.

<b>470A</b>	Each	<b>23,10</b>
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**PLIERS FOR VARIOUS USES AND ASSORTMENT OF KNIVES**

**Orig. Peddinghaus - Art. 6202000000**

Multi-purpose pliers made from stainless steel, open length 160 mm, closed length 100 mm, with various functions: tightening, cutting, stripping, screwing, drilling, filing, opening caps and baskets, and separate stainless steel knife, open length 165, closed length 100 mm. Complete set comes with belt pocket made from sturdy fabric.

<b>470G</b>	<b>Each</b>	<b>32,10</b>
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**470G**

**2**

**MULTIPURPOSE TOOLS**

**Prod. SCU**

Multi-purpose tool made of special hardened steel, covered in sturdy plastic reinforced with fibre. Length 220 mm, width 105 mm, weight 450 g. Complete with nail drawer, hammer, plastic mallet, knife concealed in the handle, 7 bits att. Hex. 1/4 of which 6 contained in the handle and 1 mounted, reversible ratchet screwdriver, magnetic and separate bit-holder and 1 flexible extension for bit-holder, length 135 mm.

<b>470L</b>	<b>Each</b>	<b>49,20</b>
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**470L**  
*new*

**CONDUCTOR AND CONTROL PUNCHING PLIERS**

**Orig. Hadie**

In forged steel. Finely worked and nickel-plated. Total length 120mm. Opening 30mm.

Type		A	B	C	D
<b>471G</b>	<b>Each</b>	<b>84,10</b>	<b>109,00</b>	<b>133,00</b>	<b>141,00</b>



**471G**

Product description as Art. 471G. Total length 145mm. Opening 50mm.

Type		A	B	C	D
<b>472G</b>	<b>Each</b>	<b>89,40</b>	<b>140,00</b>	<b>140,00</b>	<b>122,00</b>



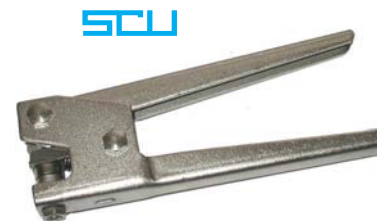
**472G**

**LEAD SEAL PLIERS**

**Prod. SCU**

In stamped sheet steel. Nickel-plated finish.

Overall length	mm	160	180	200
Inserts Ø	mm	12	12	14
<b>481</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>48,00</b>



**481**

**Orig. Hadie**

In forged steel. Finely worked. Finely nickel-plated. With return spring.

Overall length	mm	110	130
Inserts Ø	mm	10	12
<b>483G</b>	<b>Each</b>	<b>83,10</b>	<b>100,10</b>



**483G**

484G



In forged steel.  
Finely worked. Finely nickel-plated.  
Plastic-coated handles with return spring.

Overall length	mm	130	150	170	190	220	260
Inserts Ø	mm	8	9	10	11	12	16
<b>484G</b>	<b>Each</b>	<b>75,00</b>	<b>80,10</b>	<b>89,30</b>	<b>119,00</b>	<b>117,00</b>	<b>154,00</b>

**LEAD SEALS**

485

SCU



Prod. SCU

For pliers Art. 481 – 483G – 484G.

Ø	mm	8	11	12	14	16
No.		00	2	2.1/2	4	5b
<b>485</b>	<b>Per Kg</b>	<b>16,90</b>	<b>16,90</b>	<b>16,90</b>	<b>16,90</b>	<b>16,90</b>

**LEAD SEAL WIRES**

485F

SCU



Prod. SCU

Galvanized finish. Dia. 1mm. In coils, weight 1kg.

<b>485F</b>	<b>Per Kg</b>	<b>24,80</b>
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**WIRE TWISTERS**

485GA

SCU



Prod. SCU

In special steel, forged and hardened, cutting edges additionally hardened, strong clamping jaws, diagonal head front. Burnished finish, polished head. For twisting steel wires and ensuring safety locking of nuts, bolts, taps, fittings, pipes, etc. in any field. Particularly used in aeronautics, naval and mechanical industry, etc.

Right rotation and manual return.

Overall length	mm	210	265
Max wire Ø	mm	1	1,6
<b>485GA</b>	<b>Each</b>	<b>127,00</b>	<b>131,00</b>

Product running out of stock.

485GB

SCU



Product description as Art. 485GA

Right rotation and automatic return.

Overall length	mm	210	265
Max wire Ø	mm	1	1,6
<b>485GB</b>	<b>Each</b>	<b>141,00</b>	<b>142,00</b>

485GE

SCU



Product description as Art. 485GA

Right/left reversible type, automatic return.

Overall length	mm	220	275
Max wire Ø	mm	1	1,6
<b>485GE</b>	<b>Each</b>	<b>178,00</b>	<b>195,00</b>

**SEALING WIRES IN STAINLESS STEEL**
**Prod. SCU**

Security sealing wires, in stainless steel, in compliance with American government and military standards QQW 423-MS-20995-C, particularly suitable for use with pliers

Art. 485 GA-B-E.

Supplied in spools. (dia. 1,3mm only in dispenser).

Wire Ø	mm	0,5	0,8	1	1,3
Wire Ø	inches	0,020	0,032	0,041	0,051
Wire overall length	m(ft)	70(234)	28(91)	17(55)	43(144)
<b>485GL</b>	<b>Each</b>	<b>16,70</b>	<b>16,70</b>	<b>16,70</b>	<b>49,40</b>

**SCU**
**INOX**
**485GL**

2
**LEVER HAND STAPLERS**
**Prod. SCU - Rapid**

Standard type, reinforced ABS. Good penetration strength.

Staple distance from stapler front side 5mm.

Weight 0.250Kg.

Without staples.

For points	mm	4-6-8
<b>486</b>	<b>Each</b>	<b>18,50</b>

**SCU**
**486**

**Prod. SCU**

Universal type in hardened steel. Max staple depth.

2 mm staple deviation from stapler front side. Weight 0,500Kg.

Without staples.

For points	mm	4-6-8-10
<b>486GA</b>	<b>Each</b>	<b>34,30</b>

**SCU**
**486GA**

**Prod. SCU - Rapid**

High-performance professional type in hardened steel. Max staple depth, recoilless. Adjusting device in case of materials having different thickness. 2 mm staple deviation from stapler front side. Weight 0,870Kg.

Without staples.

For points	mm	6-8-10-14
<b>487G</b>	<b>Each</b>	<b>91,70</b>

**SCU**
**487G**

**Prod. SCU**

METAL STAPLES, for staplers Art. 486 - 486 GA - 487 G - 492 GE - 493 GS.

Width 10.6mm.

Packs of 5000 pcs, not sold separately.

Height	mm	4	6	8	10	14
<b>488GA</b>	<b>Per pack</b>	<b>7,94</b>	<b>8,08</b>	<b>8,66</b>	<b>10,50</b>	<b>13,10</b>

**SCU**
**488GA**


STAINLESS STEEL STAPLES, for staplers Art. 486 GA - 487 G - 492 GE - 493 GS.

Width 10.6mm.

Packs of 2500 pcs, not sold separately.

Height	mm	6	8
<b>488GE</b>	<b>Per pack</b>	<b>39,20</b>	<b>43,30</b>

**SCU**
**INOX**
**488GE**

**LEVER HAND CABLE CLAMPS**
**Prod. SCU**

High-performance professional type. For precise and safe clamping of electric, telecom cables, etc. Max penetration strength. Staple positioning guide. For small cables up to Ø 5.5mm.

Weight 0.800 Kg.

Without staples.

For points	mm	9,5-11
<b>490A</b>	<b>Each</b>	<b>86,10</b>

**SCU**
**490A**


**490B** SCU



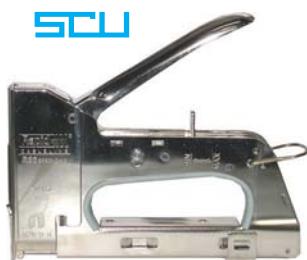
STAPLERS, for staple guns Art. 490 A  
 Width 6.5mm.  
 Packs of 1000 pcs, not sold separately.  
 Height mm 

9,5	11
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<b>490B</b>	<b>Per pack</b>	<b>3,74</b>	<b>4,00</b>
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**491G** SCU



**Prod. SCU - Rapid**  
 Very high-performance professional type in hardened steel. For precise and safe clamping of electrical, telephonic and TV-cables. Adjusting device in case of different surfaces. Staple positioning guide and high loading capacity (84 staples). For small cables up to Ø 6mm.  
 Weight 0,900Kg.  
 Without staples.  
 For points mm 10-12-14  

<b>491G</b>	<b>Each</b>	<b>126,00</b>
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**492G** SCU



**Prod. SCU**  
 STAPLES, for stackers Art. 491 G.  
 Width 7.5mm.  
 Packs of 5000 pcs, not sold separately.  
 Height mm 

10	12	14
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<b>492G</b>	<b>Per pack</b>	<b>46,40</b>	<b>52,10</b>	<b>55,50</b>
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**HAMMER TACKERS**

**492GE** SCU



**Prod. SCU**  
 Chrome-plated, hardened steel type. Hammer use for high staple penetration. Non-slip rubber handle. Suitable for upholstery, carpet, insulating materials, covering paper, labels, etc.  
 Without staples.  
 For points mm 6-8-10  

<b>492GE</b>	<b>Each</b>	<b>54,50</b>
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 For staples see Art. 488 GA.

**492GL** SCU



Professional model made from hardened steel. Use with a hammer with high level penetration power, which helps to reduce hand fatigue. Ergonomic handle with non-slip rubber finger protection. Protective plate to prevent damage to any materials and a reversible strike which provides a longer service life.  
 For jobs in construction and industry, for installing insulating and anti-vibration materials, and for nailing crates and fixings on wood, etc.  
 Without staples.  
 For points mm 6-8-10-12  

<b>492GL</b>	<b>Each</b>	<b>131,00</b>
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 Flat wire type allowing fixing to a larger area of material, reducing the "shear" effect and increasing grip. Width 10.6mm. Packs of 5000 pcs, not sold separately.  
 Height mm 

6	8	10	12
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<b>0492GL</b>	<b>Per pack</b>	<b>20,80</b>	<b>22,30</b>	<b>25,50</b>	<b>27,40</b>
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**PNEUMATIC STAPLE GUNS**

**493G** SCU



**Prod. SCU - Rapid**  
 High-performance professional type. Made from light alloy, reliable and easy to manage, with safety catch.  
 Working pressure 6 Atm.  
 In case.  
 For points mm 6-8-10-12-14-16  

<b>493G</b>	<b>Each</b>	<b>124,00</b>
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METAL STAPLES for staple gun Art. 493 G.  
 Width 13mm.  
 Packs of 5000 pcs, not sold separately.  
 Height mm 

6	8	10
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<b>0493G</b>	<b>Per pack</b>	<b>5,74</b>	<b>6,04</b>	<b>6,82</b>
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 Height mm 

12	14	16
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<b>0493G</b>	<b>Per pack</b>	<b>7,50</b>	<b>8,90</b>	<b>10,50</b>
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**PNEUMATIC NAIL GUNS**

**Prod. SCU**

High-performance professional type. In light alloy, reliable and handy, with safety catch. For thin nails. Use pressure 6 Atm.

In case.

For nails mm 15-20-25-30-40-50

<b>493GF</b>	<b>Each</b>	<b>151,00</b>
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CALIBRATED FINE NAILS (BRADS) for nail guns Art. 493 GF - 493 GS - 494 GP.

Packs of 5000 pcs, not sold separately.

Overall length	mm	15	19	25	30	40	50
<b>O493GF</b>	<b>Per pack</b>	<b>14,70</b>	<b>16,10</b>	<b>18,30</b>	<b>21,40</b>	<b>26,20</b>	<b>32,00</b>

**SCU**

**493GF**



CE

2

**LEVER HAND STAPLERS AND NAIL GUNS**

**Prod. SCU**

Combined type for stapling and nailing. Semi-professional. Metal lever and steel charger, shock-resistant synthetic resin body. High staple and nail penetration depth.

Weight 0.3Kg.

Staples height 5-8-10-12mm.

Nails length 13mm.

Without staples and small nails.

<b>493GP</b>	<b>Each</b>	<b>30,40</b>
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METAL STAPLES for staple gun Art. 493 GP.

Width 11mm.

Packs of 5000 pcs, not sold separately.

Height	mm	5	8	10	12
<b>O493GP</b>	<b>Per pack</b>	<b>8,40</b>	<b>9,18</b>	<b>12,30</b>	<b>13,30</b>

NAILS for Art.493 GP.

Packing units: 5,000 pcs each, not sold separately

Overall length	mm	13
<b>O493GR</b>	<b>Per pack</b>	<b>14,10</b>

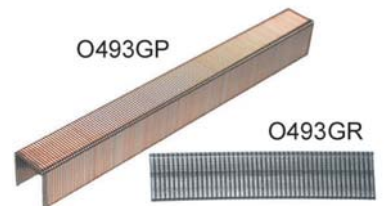
**SCU**

**493GP**



O493GP

O493GR



Model combined for use with staples and nails, professional. Body mate from synthetic, reinforced, impact-resistant material, interior parts made from steel. Adjustable penetration strength, noise damper, and openings for monitoring charge and the type of charging points.

Weight 0.38 Kg.

Height of staples 6-8-10-14mm.

Length of nails 15mm.

Without staples and nails.

Overall length	mm	175
<b>493GS</b>	<b>Each</b>	<b>69,20</b>

For metal staples see Art. 488 GA - GE 6-8-10-14mm.

For nails see Art. O493 GF 15.

**SCU**

**493GS**



Model combined for staple and nail guns, high power, and low effort. Metal body, lower lever made from reinforced fibre, interior parts made from steel. High point penetration and nail force. Weight 0.650 Kg.

Height of staples 5-8-10-12mm.

Length of nails 13mm.

Without staples and nails.

<b>493GV</b>	<b>Each</b>	<b>89,10</b>
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For metal staples and nails see Art. O493 GP - O493 GR.

**SCU**

**493GV**



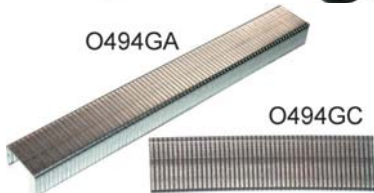
**ELECTRIC NAIL AND STAPLE GUNS**

494G

SCU



O494GA



O494GC

**Prod. SCU**

Combined type for stapling and nailing. 230 mono-phase motor. Double insulation and radio/TV-shielding, according to European standards. Staple power adjusting system. Safety switch, same container for staples and nails.

Weight 1,2Kg.

Staples height 6-8-10-12-14mm.

Length of nails 16mm.

No. 20 strokes/min.

**494G** Each **142,00**

METAL STAPLES for Art. 494 G

Width 11mm.

Height	mm	6	8	10	12	14
Indivisible pck.	Pz	2000	2000	1000	1000	1000
<b>O494GA</b>	<b>Per pack</b>	<b>9,02</b>	<b>9,76</b>	<b>6,66</b>	<b>6,86</b>	<b>7,26</b>

AILS for Art.494 G.

Packing units: 1,000 pcs each, not sold separately

Overall length	mm	16
<b>O494GC</b>	<b>Per pack</b>	<b>12,50</b>

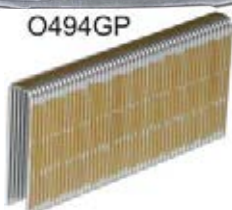
**AIR STAPLERS AND NAIL GUNS**

494GP

SCU



O494GP



**Prod. SCU**

Combined type for stapling and nailing. Professional. Light alloy body and ergonomic handle coated with soft material. Control lever, charger release lever, depth adjuster for staples and nails, protection for soft materials and air outlet direction adjuster.

Operating pressure 6 Atm. Weight 1.2 Kg. In case.

Staples height 12-18-25-30mm.

Length of nails 15-20-25-30mm.

**494GP** Each **161,00**

METAL STAPLES for Art. 494 GP.

Width 6mm.

Height	mm	12	18	25	30
Indivisible pck.	Pz	4000	4000	4000	4000
<b>O494GP</b>	<b>Per pack</b>	<b>20,80</b>	<b>25,20</b>	<b>29,30</b>	<b>37,10</b>

For nails see Art. O493 GF.

**STAPLE REMOVERS**

495GA

SCU



**Prod. SCU**

Closed ergonomic handle. For removing all kinds of staples.

Weight 0,115Kg.

Overall length	mm	195
<b>495GA</b>	<b>Each</b>	<b>14,80</b>

495GB

new

SCU



Made from chromed steel, with an ergonomic rubber handle and automatic locking of the point extracted.

To remove any kind of point.

Overall length	mm	165
<b>495GB</b>	<b>Each</b>	<b>10,90</b>

**HAND RIVETERS**
**Prod. SCU**

Standard type.  
 Sturdy sheet steel body. Synthetic material ergonomic handles.  
 Locking spring and ring. With 4 heads.  
 For aluminium rivets up to Ø mm. 4,8  
 For copper and steel rivets up to Ø mm. 4

Overall length mm 260  
 Weight Kg 0,570

**498** Each **17,30**

**SCU**
**498**

**2**

Assortment of about 75 aluminium rivets from Ø 3 to 4,8mm and pliers Art. 498.  
 In wallet.

**498A** Each **27,70**

**SCU**
**498A**


With a single rotating head for rivets of four measures: 2.4-3.2-4-4.8/5 mm. Advantages: there is no need to replace the heads depending on the measurement of the rivet and this prevents the heads from getting lost.

Aluminium cast body and steel lever.  
 Ergonomic handles made of rubbery material.  
 Spring and hook to close.

For aluminium, copper, steel rivets up to Ø 4.8/5.  
 For stainless steel rivets up to Ø 4 mm.

Overall length mm 253  
 Weight Kg 0,6

**498P** Each **18,50**

**SCU**
**498P**  
*new*


Professional type.

In die-cast aluminium body and sheet steel lever.  
 Synthetic material ergonomic handles.  
 Locking spring and ring. With 4 heads.  
 For aluminium rivets up to Ø mm. 4,8  
 For copper, steel, stainless steel rivets up to Ø mm. 4

Overall length mm 260  
 Weight Kg 0,580

**499** Each **31,80**

**SCU**
**499**


Assortment of about 400 aluminium rivets from Ø 3 to 4,8mm and pliers Art. 499.  
 In wallet.

**499A** Each **65,30**

**SCU**
**499A**


Standard type, 360° revolving head to reach very confined areas.  
 Body in die-cast aluminium.

Synthetic material ergonomic handles.  
 Locking spring and ring. With 4 heads.  
 For aluminium rivets up to Ø 4.8mm.  
 For copper and steel rivets up to Ø 4mm.  
 Service key.

Overall length mm 280  
 Weight Kg 0,640

**499E** Each **50,40**

**SCU**
**499E**


499G

SCU



Professional type, 360° revolving head for reaching difficult to access areas.  
Sturdy in die-cast aluminium body.  
Synthetic material ergonomic handles.  
Locking spring and ring. With 4 heads.  
For aluminium rivets up to Ø mm. 5  
For copper and steel rivets up to Ø mm. 4  
Service key.

Overall length	mm	280
Weight	Kg	0,620
<b>499G</b>	<b>Each</b>	<b>63,50</b>

499P

SCU



Industrial type.  
In die-cast aluminium body sheet steel lever.  
Synthetic material ergonomic handles. With 4 heads.  
For aluminium, copper, steel, stainless steel rivets up to Ø mm. 4,8

Overall length	mm	335
Weight	Kg	0,840
<b>499P</b>	<b>Each</b>	<b>53,80</b>

500

SCU



Long lever type for limited effort and use in difficult to access areas.  
In cast aluminium body, sturdy sheet steel levers,  
synthetic material ergonomic handles. With 5 heads.  
With plastic tray to collect cut-down ends.  
For aluminium, copper, steel, stainless steel rivets up to Ø mm. 6,4.

Overall length	mm	530
Weight	Kg	1,810
<b>500</b>	<b>Each</b>	<b>78,70</b>

501

new

SCU



With a single rotating head for rivets of four measures: 3.2-4-4.8/5-6.4 mm. Advantages: there is no need to replace the heads depending on the measurement of the rivet and this prevents the heads from getting lost.  
With long levers for limited effort and for use in places that are hard to reach. Aluminium cast body and steel lever.  
Ergonomic handles made of rubbery material.  
With plastic container to collect fragments.

Overall length	mm	400
Weight	Kg	2,000
<b>501</b>	<b>Each</b>	<b>63,40</b>

502A

SCU



Pantograph type for one-hand use.  
Die-cast aluminium head and handle. With four heads.  
Max extension 320 to 850mm.  
For aluminium, copper, steel, stainless steel rivets up to Ø mm. 6,4.

Weight	Kg	1,660
<b>502A</b>	<b>Each</b>	<b>141,00</b>

### AIR RIVETERS

504G

**PNEUTEC**  
DRUCKLUFTWERKZEUGE


**Prod. Pneutec - Art. UT4DPP**  
Oleo-pneumatic type, light and handy for maintenance works.  
Light alloy body, steel operating parts.  
Air attachment R 1/4. Use pressure 6,3 Atm. With plastic tray to collect cut-down ends.  
Only for aluminium and copper rivets up to Ø mm. 4,8

Length	mm	260
Air consumption	l/sec	1,2
Noise level	dB	77,5
Vibrations	m/sec <sup>2</sup>	< 2,5
Weight	Kg	1,500
<b>504G</b>	<b>Each</b>	<b>243,00</b>



**Prod. SCU**

Oleo-pneumatic type, light and easy to handle for maintenance work.  
 Light alloy body, steel operating parts, handle made from insulating material.  
 1/4" GAS female air connection (for standard snap-on coupling see Art. 3478 D 1/4). Working pressure 6.5 Atm. With rivet retainer and plastic tank for collection of small waste part.

For aluminium rivets up to Ø 4.8mm.  
 For copper, steel, STAINLESS steel rivets up to Ø 4mm.

Length	mm	300
Weight	Kg	1,450
<b>504GC</b>	<b>Each</b>	<b>580,00</b>

**SCU**
**504GC**


CE

**2**
**Prod. Pneutec - Art. UT6DPP**

Oleo-pneumatic type, strong and long-lasting. Light alloy body, steel operating parts.  
 R 1/4 air connection. Operating pressure 6.3 Atm. With plastic tank for the collection of small waste parts.

For rivets (copper and aluminium only) up to Ø 6.4mm.

Length	mm	310
Air consumption	l/sec	1,7
Noise level	dB	77
Vibrations	m/sec <sup>2</sup>	4,8
Weight	Kg	2,100
<b>504GE</b>	<b>Each</b>	<b>658,00</b>

**PNEUTEC**  
 DRUCKLUFTWERKZEUGE

**504GE**

**Prod. SCU**

Oleo-pneumatic type, strong and long-lasting.  
 Light alloy body, steel operating parts, handle made from insulating material.  
 1/4" GAS female air connection (for standard snap-on coupling see Art. 3478 D 1/4). Working pressure 6.5 Atm. With rivet retainer and plastic tank for collection of small waste part.

For aluminium rivets up to Ø 6mm.

For copper, steel, stainless steel rivets up to Ø 4.8mm.

Length	mm	310
Weight	Kg	1,550
<b>504GL</b>	<b>Each</b>	<b>703,00</b>

**SCU**
**504GL**


CE

Hydropneumatic rivetes for aluminium rivets up to 7.8mm, STAINLESS steel rivets up to 6.4 mm and unbolt ...rivets available on request.

**AIR RIVETERS**
**Prod. SCU**

Professional type.  
 In die-cast aluminium body, steel operating parts.  
 1/4" Gas female coupling (for standard quick coupling, see Art. 3478 D 1/4").  
 With 4 heads. Use pressure 6 Atm.

For aluminium rivets up to Ø mm. 4,8  
 For copper, steel, stainless steel rivets up to Ø mm. 4.

Length	mm	210
Weight	Kg	1,500
<b>505</b>	<b>Each</b>	<b>240,00</b>

**SCU**
**505**


**BATTERY RIVETERS**
**506**  
*new*
**SCU**

**14,4V** **CE**
**Prod. SCU**

Professional tool.

Sturdy and ergonomic body made of two-component material. Comes with 2 Lithium batteries (Li-ion) 14.4-3 Volt, Ah detachable, rechargeable.

With V 100-240 / 50-60 Hz battery charger; average time for full charge 60 minutes.

With four heads. Tractive force 8500 N, stroke 20 mm.

For aluminium, copper, steel, stainless steel rivets up to Ø 4.8 mm.

Length	mm	275
Weight	Kg	2,150
<b>506</b>	<b>Each</b>	<b>1.790,00</b>

**RIVETS**
**510**
**SCU**


Copper

**Prod. SCU**

Made from copper with steel stem.

Ø for length	mm	<b>3 x 7</b>	<b>3 x 9</b>	<b>3 x 11</b>	<b>3,2 x 7</b>	<b>3,2 x 9</b>	<b>3,2 x 11</b>	<b>3,4 x 7</b>
Bore Ø	mm	3,1	3,1	3,1	3,3	3,3	3,3	3,5
Fine rivetable thickness	mm	4	6	8	4	6	8	4
Indivisible packages	Pz	1000	1000	1000	1000	1000	1000	1000
<b>510</b>	<b>Per pack</b>	<b>32,70</b>	<b>34,80</b>	<b>40,90</b>	<b>40,20</b>	<b>42,10</b>	<b>48,10</b>	<b>47,70</b>
Ø for length	mm	<b>3,4 x 9</b>	<b>3,4 x 11</b>	<b>4 x 7</b>	<b>4 x 9</b>	<b>4 x 11</b>	<b>4 x 12</b>	<b>4 x 14</b>
Bore Ø	mm	3,5	3,5	4,1	4,1	4,1	4,1	4,1
Fine rivetable thickness	mm	6	8	3,5	5,5	7,5	8,5	10,5
Indivisible packages	Pz	1000	1000	1000	1000	1000	1000	1000
<b>510</b>	<b>Per pack</b>	<b>50,20</b>	<b>57,40</b>	<b>61,40</b>	<b>69,30</b>	<b>76,80</b>	<b>81,10</b>	<b>87,20</b>
Ø for length	mm	<b>4,8 x 10</b>	<b>4,8 x 12</b>	<b>4,8 x 14</b>	<b>4,8 x 16</b>			
Bore Ø	mm	5	5	5	5			
Fine rivetable thickness	mm	6	8	10	12			
Indivisible packages	Pz	500	500	500	500			
<b>510</b>	<b>Per pack</b>	<b>50,60</b>	<b>56,50</b>	<b>63,30</b>	<b>66,10</b>			

**511**
**SCU**


Aluminum

Made from aluminium with steel stem.

Ø for length	mm	<b>2,4 x 6</b>	<b>2,4 x 8</b>	<b>2,4 x 10</b>	<b>3 x 6</b>	<b>3 x 8</b>	<b>3 x 10</b>	<b>3 x 12</b>
Bore Ø	mm	2,5	2,5	2,5	3,1	3,1	3,1	3,1
Fine rivetable thickness	mm	3	5	7	3	5	7	9
Indivisible packages	Pz	1000	1000	1000	1000	1000	1000	1000
<b>511</b>	<b>Per pack</b>	<b>16,20</b>	<b>16,50</b>	<b>19,10</b>	<b>13,30</b>	<b>14,40</b>	<b>15,80</b>	<b>17,30</b>
Ø for length	mm	<b>3 x 14</b>	<b>3,2 x 6</b>	<b>3,2 x 8</b>	<b>3,2 x 10</b>	<b>3,2 x 12</b>	<b>3,2 x 14</b>	<b>3,4 x 7</b>
Bore Ø	mm	3,1	3,3	3,3	3,3	3,3	3,3	3,5
Fine rivetable thickness	mm	11	3	5	7	9	11	4
Indivisible packages	Pz	1000	1000	1000	1000	1000	1000	1000
<b>511</b>	<b>Per pack</b>	<b>18,30</b>	<b>14,10</b>	<b>15,10</b>	<b>16,90</b>	<b>17,60</b>	<b>20,80</b>	<b>15,50</b>
Ø for length	mm	<b>3,4 x 9</b>	<b>3,4 x 11</b>	<b>3,4 x 14</b>	<b>3,4 x 16</b>	<b>4 x 8</b>	<b>4 x 10</b>	<b>4 x 12</b>
Bore Ø	mm	3,5	3,5	3,5	3,5	4,1	4,1	4,1
Fine rivetable thickness	mm	6	8	11	13	4,5	6,5	8,5
Indivisible packages	Pz	1000	1000	1000	1000	1000	1000	1000
<b>511</b>	<b>Per pack</b>	<b>18,10</b>	<b>19,10</b>	<b>20,50</b>	<b>23,70</b>	<b>16,90</b>	<b>19,10</b>	<b>20,80</b>
Ø for length	mm	<b>4 x 14</b>	<b>4 x 16</b>	<b>4 x 18</b>	<b>4,8 x 8</b>	<b>4,8 x 10</b>	<b>4,8 x 12</b>	<b>4,8 x 14</b>
Bore Ø	mm	4,1	4,1	4,1	5	5	5	5
Fine rivetable thickness	mm	10,5	12,5	14,5	4	6	8	10
Indivisible packages	Pz	1000	500	500	1000	500	500	500
<b>511</b>	<b>Per pack</b>	<b>22,60</b>	<b>12,20</b>	<b>13,10</b>	<b>20,10</b>	<b>11,70</b>	<b>12,40</b>	<b>14,90</b>
Ø for length	mm	<b>4,8 x 16</b>	<b>4,8 x 18</b>	<b>4,8 x 20</b>	<b>4,8 x 25</b>	<b>6 x 15</b>	<b>6 x 18</b>	<b>6 x 22</b>
Bore Ø	mm	5	5	5	5	6,1	6,1	6,1
Fine rivetable thickness	mm	12	14	16	21	10	13	17
Indivisible packages	Pz	500	500	500	250	250	250	250
<b>511</b>	<b>Per pack</b>	<b>16,10</b>	<b>17,40</b>	<b>19,10</b>	<b>10,90</b>	<b>13,40</b>	<b>14,40</b>	<b>18,90</b>
Ø for length	mm	<b>6 x 26</b>	<b>6,4 x 18</b>	<b>6,4 x 26</b>	<b>6,4 x 30</b>			
Bore Ø	mm	6,1	6,5	6,5	6,5			
Fine rivetable thickness	mm	21	13	21	25			
Indivisible packages	Pz	250	250	250	250			
<b>511</b>	<b>Per pack</b>	<b>19,20</b>	<b>16,20</b>	<b>22,80</b>	<b>26,20</b>			

In steel with iron shank.

Ø for length	mm	3 x 6	3 x 8	3 x 10	3,2 x 6	3,2 x 8	3,2 x 10	3,2 x 12
Bore Ø	mm	3,1	3,1	3,1	3,3	3,3	3,3	3,3
Fine rivetable thickness	mm	4	6	8	4	5	7	9
Indivisible packages	Pz	1000	1000	1000	1000	1000	1000	1000
<b>512</b>	<b>Per pack</b>	<b>18,30</b>	<b>18,30</b>	<b>23,10</b>	<b>20,10</b>	<b>23,10</b>	<b>25,10</b>	<b>27,30</b>

Ø for length	mm	4 x 6	4 x 8	4 x 10	4 x 12	4 x 14	4,8 x 8	4,8 x 10
Bore Ø	mm	4,1	4,1	4,1	4,1	4,1	5	5
Fine rivetable thickness	mm	3	4,5	6,5	8,5	10,5	4	6
Indivisible packages	Pz	1000	1000	1000	1000	1000	500	500
<b>512</b>	<b>Per pack</b>	<b>24,40</b>	<b>24,40</b>	<b>28,40</b>	<b>32,30</b>	<b>34,10</b>	<b>16,40</b>	<b>18,10</b>

Ø for length	mm	4,8 x 12	4,8 x 14	4,8 x 16
Bore Ø	mm	5	5	5
Fine rivetable thickness	mm	8	10	12
Indivisible packages	Pz	500	500	500
<b>512</b>	<b>Per pack</b>	<b>20,10</b>	<b>23,40</b>	<b>25,30</b>

**SCU**



Steel

512

2

Made from stainless steel with stainless steel stem (AISI 304).

Ø for length	mm	3,2 x 8	3,2 x 10	3,2 x 12	4 x 8	4 x 10	4 x 12	4 x 14
Bore Ø	mm	3,3	3,3	3,3	4,1	4,1	4,1	4,1
Fine rivetable thickness	mm	5	7	9	4	6	8	10
Indivisible packages	Pz	1000	1000	1000	1000	1000	1000	1000
<b>513</b>	<b>Per pack</b>	<b>55,60</b>	<b>62,80</b>	<b>81,80</b>	<b>89,70</b>	<b>95,10</b>	<b>111,00</b>	<b>115,00</b>

Ø for length	mm	4,8 x 10	4,8 x 12
Bore Ø	mm	5	5
Fine rivetable thickness	mm	5	7
Indivisible packages	Pz	500	500
<b>513</b>	<b>Per pack</b>	<b>69,10</b>	<b>74,80</b>

**SCU**



INOX

513

**PLIERS FOR THREADED INSERTS**

**Prod. SCU**

Ideal for fixing threaded inserts.  
In die-cast aluminium body and sheet steel lever.  
Synthetic material ergonomic handles.  
With 3 stay bolts complete with pins and threaded rings.

For threaded aluminium, steel and INOX steel inserts Ø M 3-4-5.

Overall length	mm	250
Weight	Kg	0,570
<b>514A</b>	<b>Each</b>	<b>52,80</b>

**SPARE FASTENERS FOR ART. 514 A**

Tie-rods Ø	M.	3	4	5
<b>O514A</b>	<b>Each</b>	<b>42,50</b>	<b>42,50</b>	<b>42,50</b>

**SCU**



514A

Assortment of about 400 steel threaded inserts, flat head, from M 3 to 5  
100 inserts with reduced head M4 and plier Art. 514 A.  
Not sold separately.

<b>514B</b>	<b>Each</b>	<b>129,00</b>
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**SCU**



514B

Heavy professional type.

Suitable for fixing threaded inserts.  
In die-cast aluminium body and sheet steel lever.  
Synthetic material ergonomic handles.  
With 4 stay bolts complete with pins and threaded rings.  
For threaded aluminium, steel and INOX steel inserts Ø M 3-4-5-6.

Overall length	mm	340
Weight	Kg	0,910
<b>514C</b>	<b>Each</b>	<b>111,00</b>

**SPARE FASTENERS FOR ART.514 C**

Tie-rods Ø	M.	3	4	5	6
<b>O514C</b>	<b>Each</b>	<b>42,50</b>	<b>42,50</b>	<b>42,50</b>	<b>42,50</b>

**SCU**



514C

514D SCU



Assortment of about 400 steel threaded inserts, flat head, from M 3 to 6 and pliers Art. 514 C.

Not sold separately.

514D	Each	186,00
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514E SCU



Heavy professional type, long levers. For limited effort and use in difficult to access areas. In die-cast aluminium head, sturdy sheet steel levers, synthetic material ergonomic handles. With 6 stay bolts complete with pins and threaded rings.

For threaded aluminium, steel and INOX steel inserts Ø M 3-4-5-6-8-10.

Overall length	mm	540
Weight	Kg	2,150
514E	Each	249,00

SPARE FASTENERS FOR ART. 514 E

Tie-rods Ø	M.	3	4	5	6	8	10
O514E	Each	37,50	37,50	37,50	37,50	37,50	37,50

514F SCU  
*new*



Light and easy to handle. With long levers for limited effort and for use in places that are hard to reach. Aluminium cast body and steel levers, ergonomic handles made of rubbery material. With seven tie-rods complete with pins and threaded rings.

For threaded aluminium, steel and stainless steel inserts Ø M 4-5-6-8-10.

Overall length	mm	335
Weight	Kg	0,800
514F	Each	174,00

Tie-rods and rings available on request.

**RATCHED-RIVETERS FOR THREADED RIVETS**

514FL SCU  
*new*



Prod. SCU Ratchet tool. For use in limited spaces and with reduced effort. Steel head and levers, handle made of synthetic material.

With five tie-rods complete with pins and threaded rings for threaded inserts made of aluminium, steel and stainless steel Ø M 5-6-8-10-12 three tie-rods for male threaded inserts made of steel Ø M 5-6-8.

Overall length	mm	155
Weight	Kg	1,000
514FL	Each	254,00

Tie-rods, threaded rings and male inserts available on request.

**HYDROPNEUMATIC-RIVETERS FOR THREADED RIVETS**

514G SCU



Prod. SCU Hydro-pneumatic high powered and durable model. Light alloy body, working parts made from steel, handle made from insulated material. Air connection 1/4 inch GAS female (for quick uniform model, see) Art. 3478 D 1/4). Operating pressure 6.5 ATM. With 6 rods which come complete with bolts and threaded nuts. For threaded aluminium, steel and INOX steel inserts Ø M 3-4-5-6-8-10.

Length	mm	300
Weight	Kg	2,200
514G	Each	1.600,00

Spare tie rods supplied on request. Product running out of stock.



Product description as Art. 514G

For aluminium and steel threaded rivets Ø M 4-5-6-8-10-12.

For STAINLESS steel threaded rivets Ø M 4-5-6-8-10.

Length mm 330

Weight Kg 2,500

**514H** Each **2.440,00**

Spare stay bolts on request.

SCU



514H



2

Hydro-pneumatic tool with great power and durability.

Light alloy body, covered with insulating material.

Air connection with plug for rapid taps and 9 mm hose (see Art. 3480 GD). Operating pressure 5-7 ATM. With 7 rods complete with bolts and threaded nuts.

For threaded aluminium, steel and stainless steel inserts Ø M 3-4-5-6-8-10-12.

Length mm 285

Weight Kg 1,600

**514L** Each **1.950,00**

SCU



514L  
*new*



**ALUMINIUM THREADED RIVETS**

**Prod. SCU**

FLAT head.

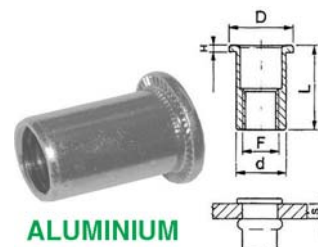
In aluminium.

Packing: 200 pcs

Thread (F)	M	3	4	5	6	6A	8	10
Bore Ø	mm	5	6	7	9	9	11	12
Thickness (S)	mm	0,3-1,8	0,3-2,5	0,5-3	0,5-2,3	2,3-4	0,8-3,5	1-3,5
Ext. Ø (d)	mm	4,9	5,9	6,9	8,9	8,9	10,9	11,9
Ø with edge (D)	mm	8	9	10	12	12	15	16
Edge thickness (H)	mm	0,8	1	1,2	1,5	1,5	1,5	1,7
Overall length (L)	mm	9	11	13	14,5	16	17,5	19
<b>514P</b>	<b>Per pack</b>	<b>21,50</b>	<b>15,30</b>	<b>16,50</b>	<b>21,20</b>	<b>34,40</b>	<b>26,20</b>	<b>57,60</b>

SCU

514P



ALUMINIUM

**STEEL THREADED RIVETS**

**Prod. SCU**

FLAT head.

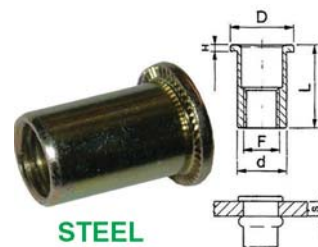
In steel.

Packing: 200 pcs, only the size 12 with pack 100 pcs.

Thread (F)	M	3	4	5	6	6A	8	10	12
Bore Ø	mm	5	6	7	9	9	11	12	16
Thickness (S)	mm	0,3-1,8	0,3-2,5	0,5-3	0,5-2,3	2,3-4	0,8-3,5	1-3,5	1-3,5
Ext. Ø (d)	mm	4,9	5,9	6,9	8,9	8,9	10,9	11,9	15,9
Ø with edge (D)	mm	8	9	10	12	12	15	16	22
Edge thickness (H)	mm	0,8	1	1,2	1,5	1,5	1,5	1,7	1,9
Overall length (L)	mm	9	11	13	14,5	16	17,5	19	25
<b>514R</b>	<b>Per pack</b>	<b>12,20</b>	<b>13,90</b>	<b>14,80</b>	<b>17,40</b>	<b>19,10</b>	<b>21,70</b>	<b>33,90</b>	<b>58,90</b>

SCU

514R



STEEL

When stocks are depleted, we will provide only the size M12 with knurling.

WIRE REDUCED head.

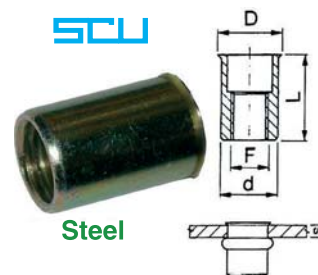
In steel.

Packing: 200 pcs

Thread (F)	M	3	4	5	6	8	10
Bore Ø	mm	5	6	7	9	11	12
Thickness (S)	mm	0,5-1,5	0,5-1,5	0,5-2	0,5-2	1-2,5	1-2,5
Ext. Ø (d)	mm	4,9	5,9	6,9	8,9	10,9	11,9
Ø with edge (D)	mm	5,5	6,7	8	10	12	13,5
Overall length (L)	mm	8,5	10	12	13,5	16,5	18
<b>514T</b>	<b>Per pack</b>	<b>12,20</b>	<b>13,90</b>	<b>14,80</b>	<b>17,40</b>	<b>21,70</b>	<b>33,90</b>

SCU

514T



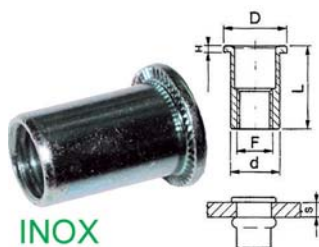
Steel

Prices in EURO - VAT not included

**INOX THREADED RIVETS**

514V

SCU



INOX

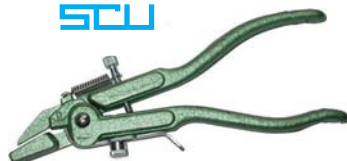
**Prod. SCU**  
 FLAT head type.  
 Made from stainless steel (AISI 304).  
 Packing unit: 200 pcs.

Thread (F)	M	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>
Bore Ø	mm	5	6	7	9	11	13
Thickness (S)	mm	0,3-1,0	0,3-2,5	0,5-3	0,5-3,5	0,8-3,5	1-3,5
Ext. Ø (d)	mm	4,9	5,9	6,9	8,9	10,9	12,9
Ø with edge (D)	mm	6	8	9	11	14	17
Edge thickness (H)	mm	0,8	1	1,2	1,5	1,5	1,7
Overall length (L)	mm	8,5	11	13	15,5	17,5	21
<b>514V</b>	<b>Per pack</b>	<b>39,10</b>	<b>45,80</b>	<b>64,40</b>	<b>82,10</b>	<b>113,00</b>	<b>197,00</b>

**SAW SETTING PLIERS**

516G

SCU



**Prod. SCU**  
 In forged steel. Hardened head. Adjustable depth and inclination.  
 For saws up to thickness 2mm.

Overall length	mm	190
<b>516G</b>	<b>Each</b>	<b>25,50</b>

**KEVLAR CUTTERS**

546G

SCU



For optical fibers and Kevlar

**Prod. SCU**  
 In special steel. Hardened cutting edges, micro-toothed blade. Bicomponent handles. With blades adjustment system. For cutting kevlar fiber cables (optic fibers), strips, etc. Not suitable for metals.  
 Single hinge.

Overall length	mm	135
<b>546G</b>	<b>Each</b>	<b>77,40</b>

**FIBERGLASS CUTTERS**

548G

SCU



For fiberglass



**Prod. SCU**  
 Large and powerful for cutting cables, fibreglass burrs, optical fibres and fibre-reinforced plastic. Made from forged steel, single hinge, head bent to 20° and hardened cutting edges. Plastic-coated handles. Not suitable for metals.

Overall length	mm	250
<b>548G</b>	<b>Each</b>	<b>57,10</b>

Scissors for fiberglass and synthetic fibers see Art. 648 G – 649 G.  
 Product running out of stock.

**PLASTIC CUTTERS**

549A

GEDORE



for plastic



**Orig. Gedore - Art. 8313**  
 For removing burrs from plastic printed products.  
 In forged steel. Enamelled black straight head, hardened and ground cutting edges. With spring. Plastic-coated handles. Not suitable for metals. Single hinge.  
 Straight head model.

Overall length	mm	<b>125</b>	<b>140</b>	<b>160</b>
<b>549A</b>	<b>Each</b>	<b>35,70</b>	<b>36,30</b>	<b>36,90</b>

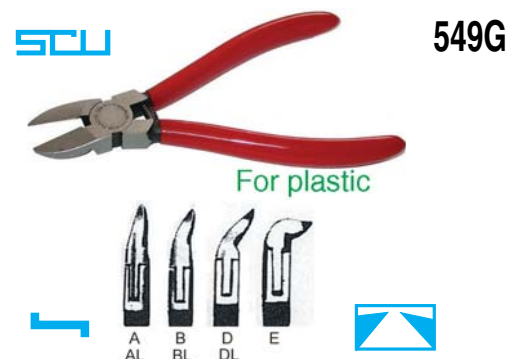
In case of intense use, please notice to keep the hinge lubricated.

**Prod. SCU**

For removing burrs from plastic printed products.  
In forged steel. Polished head, hardened cutting edges.  
With spring. Plastic-coated handles. Not suitable for metals. Single hinge.

Type		A	AL	B	BL	D	DL	E
Overall length	mm	150	170	150	165	145	170	150
<b>549G</b>	<b>Each</b>	<b>36,60</b>	<b>36,80</b>	<b>39,60</b>	<b>38,90</b>	<b>38,90</b>	<b>39,60</b>	<b>42,70</b>

In case of intense use, it is advised to keep the hinge lubricated.



For removing burrs from plastic printed products.  
In forged steel. Polished head, hardened cutting edges.  
With spring. Plastic-coated handles. Not suitable for metals.  
Double hinge.

Type		A	B	C	D	E
Overall length	mm	150	150	150	145	150
<b>550G</b>	<b>Each</b>	<b>49,80</b>	<b>50,60</b>	<b>46,20</b>	<b>51,30</b>	<b>58,30</b>

Due to the head inclined at 90°, the clippers Art. 549 GE and 550 GE are suitable for cutting burrs or plastic wires with limited effort.  
Product 550GC running out of stock.



Large and powerful.  
For removing burrs from plastic printed products.  
In forged steel, single hinge, head bent to 30° and hardened cutting edges.  
Plastic-coated handles and spring. Not suitable for metals.

Overall length	mm	255
<b>550GH</b>	<b>Each</b>	<b>54,20</b>



**ELECTRONICS AND FINE MECHANICS CUTTERS**

**Prod. SCU**

In special steel. Hardened. Single hinge.  
Soft rubber insulated handles, strong clamping, with spring.  
Burnished finish.  
Thin head type for inclined side cutting. For copper wires up to Ø 1,02mm.  
Non-chamfered cutting edges, very sharp for precise cutting with minimum effort.

Overall length	mm	135
<b>550K</b>	<b>Each</b>	<b>13,20</b>



Product description as Art. 550K  
Inclined side cutting. For copper wires up to Ø 1,3mm.  
Non-chamfered cutting edges.

Overall length	mm	138
<b>550L</b>	<b>Each</b>	<b>12,00</b>



Product description as Art. 550K  
Inclined side cutting. For copper wires and ferrous material up to Ø 1,3mm.  
Non-chamfered cutting edges.

Overall length	mm	138
<b>550L 3</b>	<b>Each</b>	<b>12,40</b>



**550L 5****SCU**

Product description as Art. 550K

Inclined side cutting. For copper wires up to  $\varnothing$  2,59mm.

Non-chamfered cutting edges, flat surface. Also suitable for cutting rubber gaskets. Used in goldsmith workshops.

Overall length	mm	160
<b>550L 5</b>	<b>Each</b>	<b>19,40</b>

**550L 7****SCU**

Product description as Art. 550K

Inclined side cutting. For copper wires up to  $\varnothing$  2,5mm.

Non-chamfered cutting edges, convex surface. Also suitable for cutting rubber gaskets. Used in goldsmith workshops.

Overall length	mm	160
<b>550L 7</b>	<b>Each</b>	<b>20,20</b>

**550M****SCU**

Product description as Art. 550K

Inclined side cutting. For copper wires and ferrous material up to  $\varnothing$  1,63mm.

Chamfered cutting edges.

Overall length	mm	138
<b>550M</b>	<b>Each</b>	<b>17,70</b>

**550MA****SCU**

Product description as Art. 550K

Inclined side cutting. For copper wires and ferrous material up to  $\varnothing$  2.05mm.

Cutting edges with chamfer.

Overall length	mm	137
<b>550MA</b>	<b>Each</b>	<b>17,70</b>

**550P****SCU**

Product description as Art. 550K

Inclined side cutting. For copper wires and ferrous material up to  $\varnothing$  2,5mm.

Chamfered cutting edges.

Overall length	mm	160
<b>550P</b>	<b>Each</b>	<b>19,30</b>

**550R****SCU**

Product description as Art. 550K

Front cutting, for copper wires up to  $\varnothing$  1,02mm.

Non-chamfered cutting edges; oblique. Suitable for high density reophore areas and difficult to access areas.

Overall length	mm	144
<b>550R</b>	<b>Each</b>	<b>15,70</b>

**550Z****SCU**

Product description as Art. 550K

Shear type, thin head for copper wires up to  $\varnothing$  mm 1,6.

Overall length	mm	148
<b>550Z</b>	<b>Each</b>	<b>18,90</b>

For clips of the same line, see Art. 90 A to 90 T.



**SPECIAL ELECTRONICS CUTTERS**
**Prod. SCU**

In special steel. Hardened. Single hinge.  
 Plastic-coated handles, with spring. Burnished finish.  
 $10^4$  ohm conductive model for fast elimination of electrostatic charges for circuit and component protection.  
 Inclined side cutting. For copper wires up to  $\varnothing$  1,5mm.  
 Non-chamfered cutting edges.

Overall length	mm	130
<b>551A 2</b>	<b>Each</b>	<b>20,20</b>

**SCU**

**551A 2**
**CONDUCTIVE**


Product description as Art. 551A 2

Inclined side cutting. For copper wires and ferrous material up to  $\varnothing$  1,5mm.  
 Mini-chamfered cutting edges.

Overall length	mm	130
<b>551A 4</b>	<b>Each</b>	<b>24,10</b>

**SCU**

**551A 4**
**CONDUCTIVE**


Product description as Art. 551A 2

Front cutting, for copper wires up to  $\varnothing$  1mm.  
 Non-chamfered cutting edges; oblique. Suitable for high density rheophore areas and difficult to access areas.

Overall length	mm	140
<b>551A 8</b>	<b>Each</b>	<b>17,50</b>

Product running out of stock.

**SCU**

**551A 8**
**CONDUCTIVE**


In special steel. Hardened. Single hinge.

Soft rubber handles, strong clamping, with spring. Burnished finish.  
 $10^7 \div 10^9$  ohm dissipating model to be used on circuits and components sensitive to electrostatic charges.

Inclined side cutting. For copper wires up to  $\varnothing$  1,3mm.  
 Non-chamfered cutting edges.

Overall length	mm	138
<b>551B 2</b>	<b>Each</b>	<b>16,80</b>

**SCU**

**551B 2**
**DISSIPATIVE**


Product description as Art. 551B 2

Inclined side cutting. For copper wires and ferrous material up to  $\varnothing$  1,3mm.  
 Non-chamfered cutting edges.

Overall length	mm	138
<b>551B 4</b>	<b>Each</b>	<b>17,10</b>

**SCU**

**551B 4**
**DISSIPATIVE**


Product description as Art. 551B 2

Inclined side cutting. For copper wires and ferrous material up to  $\varnothing$  1,63mm.  
 Chamfered cutting edges.

Overall length	mm	138
<b>551B 6</b>	<b>Each</b>	<b>22,50</b>

**SCU**

**551B 6**
**DISSIPATIVE**


551B 8

SCU



DISSIPATIVE



Product description as Art. 551B 2

Front cutting, for copper wires up to Ø 1mm.

Non-chamfered cutting edges; oblique. Suitable for high density rheophore areas and difficult to access areas.

Overall length	mm	144
<b>551B 8</b>	<b>Each</b>	<b>20,50</b>

## ELECTRONICS AND FINE MECHANICS CUTTERS

551G 3

SCU



Prod. SCU

In special steel. Hardened. Single hinge.

Dual component insulated handles for comfortable and safe gripping. With spring. Black chrome-plated finish.

Side cutting. For hard wires up to Ø 1mm.

Chamfered cutting edges.

Overall length	mm	115
<b>551G 3</b>	<b>Each</b>	<b>13,50</b>

551G 5

SCU



Product description as Art. 551G 3

Side cutting. Thin head. For hard wires up to Ø 1mm.

Chamfered cutting edges.

Overall length	mm	115
<b>551G 5</b>	<b>Each</b>	<b>13,50</b>

551G 7

SCU



Product description as Art. 551G 3

Front cutting. For hard wires up to Ø 1mm.

Chamfered cutting edges.

Overall length	mm	110
<b>551G 7</b>	<b>Each</b>	<b>15,20</b>

For clips of the same line and assortment, see Art. 92 GA a 93 G.

553A

SCU

INOX



In stainless steel. Hardened. Single hinge.

Plastic-coated handles, with spring.

Satin finish.

Side cutting, for soft wires up to Ø 1.2mm.

With mini-chamfered cutting edges.

Overall length	mm	115
<b>553A</b>	<b>Each</b>	<b>22,10</b>

553B

SCU

INOX



Product description as Art. 553A

Side cutting, fine head, for soft wires up to Ø 1.2mm.

With mini-chamfered cutting edges.

Overall length	mm	115
<b>553B</b>	<b>Each</b>	<b>22,10</b>

For pliers of the same line see Art. 100 A and 100 L

**Orig. Gedore - Art. 8306-1**

In special steel, hardened cutting edges.

Double hinge. Dual component insulated handles for comfortable and safe gripping.

Double spring-action opening. Polished finish.

Side cutting. For steel hard wires up to Ø 0,4mm., steel hard wires up to dia. 1mm and copper wires up to dia. 1,2mm.

Mini-chamfered cutting edges.

Overall length mm 125

**557G** Each **64,70**


**557G**

**2**
**Orig. Gedore - Art. 8306-4**

Product description as Art. 557G

Side cutting. For steel hard wires up to Ø 1mm and copper wires up to dia. 1,5mm.

Non-chamfered cutting edges.

Overall length mm 125

**557GA** Each **70,40**


**557GA**

**Orig. Gedore - Art. 8306-2**

Product description as Art. 557G

Short cutting edges, for side cutting of steel soft wires up to dia. 1mm and copper wires dia. up to 1,5mm.

Non-chamfered cutting edges.

Overall length mm 120

**557GB** Each **70,50**


**557GB**

**Orig. Gedore - Art. 8306-5**

Product description as Art. 557G

Thin head, for side cutting of steel hard wires up to dia. 0,4mm, steel soft wires up to dia. 1mm and copper wires up to dia. 1,2mm.

Mini-chamfered cutting edges.

Overall length mm 125

**557GC** Each **70,40**


**557GC**

**Orig. Gedore - Art. 8306-6**

Product description as Art. 557G

Short cutting edges, thin head, for side cutting of steel soft wires up to dia. 0,6mm and copper wires up to dia. 1,5mm.

Non-chamfered cutting edges.

Overall length mm 120

**557GD** Each **70,40**


**557GD**

**Orig. Gedore - Art. 8306-7**

Product description as Art. 557G

Side cutting, for harmonic steel wires up to dia. 0,6mm, steel hard wires up to dia. 1mm and steel soft wires up to dia. 1,5mm.

Chamfered cutting edges, hard metal tips.

Overall length mm 125

**557GE** Each **173,00**


**557GE**


**557GF**

**Orig. Gedore - Art. 8306-8**

Product description as Art. 557G

Model with cut-down ends tray, side cutting, for hard wires up to dia. 0,4mm, steel soft wires up to dia. 1mm and copper wires with dia. up to 1,5mm.

Mini-chamfered cutting edges.

Overall length	mm	125
<b>557GF</b>	Each	<b>76,60</b>

**557GL**

**Orig. Gedore - Art. 8305-5**

Product description as Art. 557G

Front cutting, for steel hard wires up to dia. 0,6mm and copper wires up to dia. 0,8mm . Chamfered cutting edges.

Overall length	mm	130
<b>557GL</b>	Each	<b>97,40</b>

Product running out of stock.

**557GP**

**Orig. Gedore - Art. 8305-7**

Product description as Art. 557G

Oblique cutting, suitable for confined areas, for steel hard wires up to dia. 0,6mm and copper wires up to dia. 0,8mm.

Non-chamfered cutting edges.

Overall length	mm	130
<b>557GP</b>	Each	<b>83,90</b>

**557GR**

**Orig. Gedore - Art. 8308-4**

Product description as Art. 557G

Front cutting, suitable for steel hard wires up to dia. 0,4mm, steel soft wires up to dia. 1mm and copper wires up to dia. 1,5mm.

Non-chamfered cutting edges.

Overall length	mm	135
<b>557GR</b>	Each	<b>78,80</b>

**557GT**

**Orig. Gedore - Art. 8308-3**

Product description as Art. 557G

Front oblique cutting, suitable for steel hard wires up to dia. 0,4mm, steel soft wires up to dia. 1mm and copper wires up to dia. 1,5mm.

Non-chamfered cutting edges.

Overall length	mm	135
<b>557GT</b>	Each	<b>80,10</b>

**557GZ**

**HARTMETALL**
**Orig. Gedore - Art. 8306-9**

Made from special steel, sharp HARD METAL, hardness of 84-86 HRA.

With double hinge. Dual component insulated handles, providing a comfortable and secure grip. Double spring pressure for opening the handles. Polished finish.

Narrow head type, for side cutting of harmonic steel wires up to a diameter of 0.3mm, very hard steel wires up to a diameter of 0.5mm and hard steel wires up to a diameter of 0.6mm.

Cutting edges with mini-chamfer.

Overall length	mm	125
<b>557GZ</b>	Each	<b>178,00</b>

**Prod. SCU**

In C60 steel. Hardened. Double hinge.  
 Plastic-coated handles, with spring. Burnished finish.  
 Front cutting, inclined head, for hard wires up to Ø 0,8mm.  
 Chamfered cutting edges.

Overall length	mm	115
<b>559GZ</b>	Each	<b>37,70</b>

Product running out of stock.

**SCU**
**559GZ**


In stainless steel. Hardened. Double hinge.  
 Plastic-coated handles, with spring. Satin finish.  
 Side cutting, for soft wires up to Ø 1,6mm.  
 With mini-chamfered cutting edges.

Overall length	mm	130
<b>560A</b>	Each	<b>25,10</b>

**SCU**
**INOX**
**560A**


Product description as Art. 560A

Side cutting, thin head.

With mini-chamfered cutting edges.

Overall length	mm	<b>115</b>	<b>130</b>
For annealed wires up to Ø	mm	1,2	1,6
<b>560B</b>	Each	<b>23,10</b>	<b>23,10</b>

**SCU**
**INOX**
**560B**


Product description as Art. 560A

Front cutting, for soft wires up to Ø 1,4mm.

With mini-chamfered cutting edges.

Overall length	mm	115
<b>560C</b>	Each	<b>27,10</b>

**SCU**
**INOX**
**560C**


Product description as Art. 560A

Front cutting. Inclined head, for soft wires up to Ø 1,4mm.

With mini-chamfered cutting edges.

Overall length	mm	115
<b>560D</b>	Each	<b>27,10</b>

For clips of the same line and assortment, see Art. 110 A to 110 T.

**SCU**
**INOX**
**560D**

**FRONT CUTTING NIPPERS**
**Prod. SCU**

With front cutting edges, manufactured according to DIN ISO 5748.  
 In high-resistance steel.  
 Fully hardened.  
 Cutting edges additionally hardened. For harmonic steel wires.  
 Polished head. Plastic-coated handles.

Overall length	mm	<b>160</b>
For hard wires up to Ø	mm	2,5
For harmonic wire up to Ø	mm	2,2
<b>565GA</b>	Each	<b>27,20</b>

**SCU**
**565GA**


**565GE****SCU**

Product description as Art. 565GA

Polished head. Insulated handles, in bi-component material.

Overall length	mm	<b>160</b>
For hard wires up to Ø	mm	2,5
For harmonic wire up to Ø	mm	2,2
<b>565GE</b>	Each	<b>32,10</b>

**567G****GEDORE****Orig. Gedore - Art. 8367 TL**

With front cutting edges, manufactured according to DIN ISO 5748.

In high-resistance steel.

Fully oil-hardened.

Cutting edges additionally hardened. For harmonic steel wires.

Enamelled black head. Plastic-coated handles.

Overall length	mm	160
For harmonic wire up to Ø	mm	1,6
<b>567G</b>	Each	<b>35,50</b>

**567GB****GEDORE****Orig. Gedore - Art. 8367 JC**


Product description as Art. 567G

Chrome-plated head. Dual component insulated handles.

Overall length

For harmonic wire up to Ø


Overall length	mm	160
For harmonic wire up to Ø	mm	1,6
<b>567GB</b>	Each	<b>47,10</b>



When stocks are depleted, we will provide cutters with handles in different form.

**567S**

**SCU**



**Prod. SCU**

High-performance long model. In forged steel.


Hardened cutting edges. Plastic-coated handles.

For cutting extra hard wires.

Overall length

For hard wires up to Ø


Overall length	mm	280
For hard wires up to Ø	mm	3,5
<b>567S</b>	Each	<b>29,20</b>



**DIAGONAL CUTTERS**

**568G**

**SCU**



**Prod. SCU**

With central cutting edges.


Straight cutting edges, induction hardened, for harmonic steel wires.

Plastic-coated handles.

Overall length	mm	<b>200</b>	<b>250</b>
For harmonic wire up to Ø	mm	1,5	2
<b>568G</b>	Each	<b>58,40</b>	<b>76,90</b>

**568L**

**SCU**



With thin head, particularly handy.

In special steel. Fully hardened. Cutting edges additionally induction hardened. Single hinge. Soft rubber handles, strong clamping, with spring.


Burnished finish.

Inclined side cutting. For copper wires and ferrous material.

Non-chamfered cutting edges.


Overall length	mm	<b>135</b>	<b>160</b>
For copperwires up to Ø	mm	2,05	2,59
For iron material wires up to Ø	mm	1,63	1,63

<b>568L</b>	Each	<b>17,90</b>	<b>20,20</b>
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**568M**

**SCU**




Product description as Art. 568L

Inclined side cutting. For copper wires and ferrous material.

Chamfered cutting edges.

Overall length	mm	<b>135</b>	<b>160</b>
For copperwires up to Ø	mm	2,05	2,59
For iron material wires up to Ø	mm	1,63	1,63

<b>568M</b>	Each	<b>18,40</b>	<b>20,10</b>
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Prices in EURO - VAT not included

118

Particularly handy.  
 In special steel. Cutting edges with hard metal tips. Single hinge.  
 Soft rubber handles, strong clamping, with spring.  
 Burnished finish.  
 Incline side cutting. For copper wires up to  $\varnothing$  2,05mm and hard wires up to  $\varnothing$  0,7mm.  
 Chamfered cutting edges.

Overall length	mm	147
<b>568T</b>	Each	<b>45,30</b>

**SCU**
**568T**


In alloy steel. Hardened. For soft and hard wires.  
 Chrome-plated finish. Insulated handles.

Overall length	mm	160
For annealed wires up to $\varnothing$	mm	2
For hard wires up to $\varnothing$	mm	1,5
<b>569</b>	Each	<b>13,10</b>

**SCU**
**569**


With side cutting edges, manufactured according to DIN ISO 5749.  
 In high-resistance steel.  
 Fully hardened. Cutting edges additionally hardened.  
 For harmonic steel wires.

Overall length	mm	<b>145</b>	<b>160</b>	<b>180</b>
For hard wires up to $\varnothing$	mm	2	2,3	3
For harmonic wire up to $\varnothing$	mm	1,4	1,6	1,8
<b>569GA</b>	Each	<b>15,70</b>	<b>16,80</b>	<b>19,60</b>

**SCU**
**569GA**


Product description as Art. 569GA

Polished head. Insulated handles, in bi-component material.

Overall length	mm	<b>145</b>	<b>160</b>	<b>180</b>
For hard wires up to $\varnothing$	mm	2	2,3	3
For harmonic wire up to $\varnothing$	mm	1,4	1,6	1,8
<b>569GE</b>	Each	<b>20,60</b>	<b>21,50</b>	<b>24,40</b>

**SCU**
**569GE**


**Orig. Gedore - Art. 8314 TL**

With side cutting edges, manufactured according to DIN ISO 5749.  
 In high-resistance steel.  
 Fully oil-hardened and tempered. Cutting edges additionally hardened.  
 For harmonic steel wires.

Overall length	mm	<b>130</b>	<b>145</b>	<b>160</b>
For harmonic wire up to $\varnothing$	mm	1,25	1,4	1,6
<b>570GA</b>	Each	<b>23,10</b>	<b>23,50</b>	<b>23,60</b>

**GEDORE**
**570GA**


**Orig. Gedore - Art. 8314 JC**

Product description as Art. 570GA

Chrome-plated head. Dual component insulated handles.

Overall length	mm	<b>130</b>	<b>145</b>	<b>160</b>
For harmonic wire up to $\varnothing$	mm	1,25	1,4	1,6
<b>570GB</b>	Each	<b>29,50</b>	<b>29,60</b>	<b>30,90</b>

**GEDORE**
**570GB**


When stocks are depleted, we will provide cutters with handles in different form.  
 VDE-EN 60900 safety insulation type, see Art. 352 GT – 355 GT.

**Prod. SCU**

With side cutting edges, reinforced, manufactured according to DIN ISO 5749.  
 In high-resistance steel.  
 Fully hardened. Cutting edges additionally hardened.  
 For harmonic steel wires.

Polished head. Plastic-coated handles (mm. 240 with burnished head)

Overall length	mm	<b>145</b>	<b>165</b>	<b>200</b>	<b>240</b>
For hard wires up to $\varnothing$	mm	2,3	2,5	3	3,5
For harmonic wire up to $\varnothing$	mm	1,8	2	2,5	3
<b>571GA</b>	Each	<b>19,60</b>	<b>21,30</b>	<b>26,30</b>	<b>39,10</b>

**SCU**
**571GA**


571GE

SCU



Product description as Art. 571GA

Polished head. Insulated handles. (mm. 240 with burnished head, dual component insulated handle)

Overall length	mm	145	165	200	240
For hard wires up to Ø	mm	2,3	2,5	3	3,5
For harmonic wire up to Ø	mm	1,8	2	2,5	3
<b>571GE</b>	<b>Each</b>	<b>24,40</b>	<b>26,30</b>	<b>31,30</b>	<b>43,20</b>



573G

GEDORE

ADVANCED HINGE  
+35% OF POWER**Orig. Gedore - Art. 8316 TL**

With side cutting edges, reinforced, manufactured according to DIN ISO 5749.

In high-resistance steel.

Fully oil-hardened. Cutting edges additionally hardened.

For harmonic steel wires. Hardness approx. 63 HRC. The particular hinge position creates a favourable leverage ratio and therefore a 35% strength saving in relation to traditional cutters.

Polished head. Plastic-coated handles.

Overall length	mm	140	160	180	200
For harmonic wire up to Ø	mm	1,4	1,6	1,8	2,0
<b>573G</b>	<b>Each</b>	<b>26,20</b>	<b>26,80</b>	<b>29,30</b>	<b>32,40</b>

573GB

GEDORE

ADVANCED HINGE  
+35% OF POWER**Orig. Gedore - Art. 8316 JC**

Product description as Art. 573G

Chrome-plated head. Dual component insulated handles.

Overall length	mm	140	160	180	200
For harmonic wire up to Ø	mm	1,4	1,6	1,8	2,0
<b>573GB</b>	<b>Each</b>	<b>37,50</b>	<b>40,10</b>	<b>42,70</b>	<b>46,10</b>

When stocks are depleted, we will provide cutters with handles in different form.

## DIAGONAL CUTTERS WITH WIRE STRIPPER

574G

GEDORE

**Orig. Gedore - Art. 8315 JC**

With side cutting edges similar to Art. 570 GB. It can also be used as wire stripper. Two holes on the blade allow to strip copper wires 1,5 and 2,5 sqmm. In high-resistance steel. Fully oil-hardened. Cutting edges additionally hardened. Chrome-plated head. Dual component handles.

Overall length	mm	160
<b>574G</b>	<b>Each</b>	<b>45,40</b>

When stocks are depleted, we will provide cutters with handles in different form.

## COMPOUND ACTION CUTTERS

579G

new

SCU

**Prod. SCU**

With front blades.

Head and hinge made of special steel. Forged and hardened.

Heavy steel handles covered with plastic.

For spring wire up to Ø 1.6 mm.

Overall length	mm	160
<b>579G</b>	<b>Each</b>	<b>56,10</b>

581G

SCU



With side cutting edges.

Head and hinge in special steel. Forged and hardened. Heavy sheet steel handles , plastic-coated. For harmonic wire up to Ø 1,6mm.

Overall length	mm	160
<b>581G</b>	<b>Each</b>	<b>50,30</b>



Type with front cutting edges for wires up to R 2000 N/sqmm.  
Made from forged steel. Cutting edges additionally hardened.  
Varnished handles. DIN ISO 5748.

Overall length	mm	180	210	235
For hard wires up to Ø	mm	3,7	4,2	4,7
For harmonic wire up to Ø	mm	2	2,2	2,5
<b>585G</b>	Each	60,50	61,90	67,40



**585G**

Type with side cutting edges for wires up to R 2000 N/sqmm.  
Made from forged steel. Cutting edges additionally hardened.  
Varnished handles. DIN ISO 5749.

Overall length	mm	195	225
For hard wires up to Ø	mm	3	4,7
For harmonic wire up to Ø	mm	1,8	2,5
<b>593G</b>	Each	60,50	69,10



**593G**

**Orig. Gedore - Art. 8340 Z - 200 TL**

Power cutting model.  
Made from CHROME-VANADIUM, fully hardened by oil, with additional hardening induction on the cutting edges. The specific shape of the head and the position of the hinge create a favourable lever ratio which allows the power to be reduced by approximately 60% when compared to a cutter of equal length.

For use with piano wire, hard wire, soft wire, and rods, bolts, nails, screws, rivets, etc.  
Total length of 200 mm.

Can cut piano wire with a diameter of up to 3.8 mm.  
Can cut hard wire with a diameter of up to 5.5 mm.  
Can cut soft wires and rods up with a diameter of up to 6 mm.

With plastic coated handles.

<b>595GA</b>	Each	56,70
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**595GA  
595GB**



**Orig. Gedore - Art. 8340 Z - 200 JL**

Product description as Art. 595GA  
With handles in bi-component material.

<b>595GB</b>	Each	60,10
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**CUTTERS AND BOLT CUTTERS**

**Prod. SCU**

Double fulcrum type.  
Blades in alloyed hardened steel.  
Steel sheet handles with adjusting screw, covered with synthetic material, with spring.  
Straight side cutting edge type.  
Suited to hard steel wire and piano wire.

Overall length	mm	200
For hard wires up to Ø	mm	3
For harmonic wire up to Ø	mm	2,5
<b>599G</b>	Each	41,30



**599G**



Product description as Art. 599G

Frontal cutting edge type.  
Suited to hard steel wire.

Overall length	mm	200
For hard wires up to Ø	mm	2
<b>599GB</b>	Each	41,30



**599GB**



**BOLT CUTTERS**

**Prod. SCU**

Model for cuts up to R 1330 N/sqmm (HRC 40).  
High-resistance steel blades.  
Tubular steel handles with rubber grips.

Overall length	mm	350	450	600	750	900
For cutting R500 N/mm <sup>2</sup> up to Ø	mm	6	8	9	11	13
For cutting R500 N/mm <sup>2</sup> up to Ø	mm	5	6	8	9	10
<b>602E</b>	Each	28,40	32,90	43,40	69,10	89,70

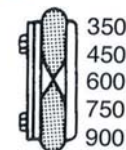


**602E**



Spare heads for Art. 602E.

For iron cutters length	mm	350	450	600	750	900
<b>O602E</b>	Each	19,10	22,60	30,30	44,20	60,10



## 602G

SCU



Model for cuts up to R 1400 N/sqmm.  
High-resistance steel blades, with screw adjustment.  
Tubular steel handles with rubber grips.

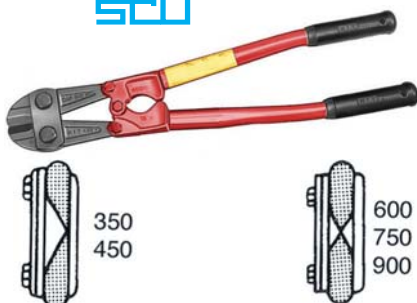
Overall length	mm	350	450	600	750	900
For cutting R500 N/mm <sup>2</sup> up to Ø	mm	7	8	10	13	16
For cutting R1400 N/mm <sup>2</sup> up to Ø	mm	5	6	8	10	12
<b>602G</b>	Each	<b>51,60</b>	<b>63,40</b>	<b>81,80</b>	<b>119,00</b>	<b>162,00</b>

Spare heads for Art. 602G.

For iron cutters length	mm	350	450	600	750	900
<b>O602G</b>	Each	<b>24,90</b>	<b>30,50</b>	<b>39,40</b>	<b>57,00</b>	<b>62,10</b>

## 603G

SCU



Model for cuts up to R 1330 N/sqmm (HRC 40).  
High resistance steel blades, with eccentric adjustment.  
Tubular steel handles with rubber grips.

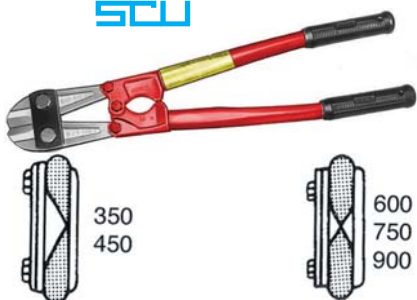
Overall length	mm	350	450	600	750	900
For cutting R500 N/mm <sup>2</sup> up to Ø	mm	7	8	10	13	16
For cutting R1330 N/mm <sup>2</sup> up to Ø	mm	5	6	8	9	10
<b>603G</b>	Each	<b>68,10</b>	<b>82,60</b>	<b>104,00</b>	<b>148,00</b>	<b>197,00</b>

Spare heads for Art. 603G.

For iron cutters length	mm	350	450	600	750	900
<b>O603G</b>	Each	<b>36,80</b>	<b>55,10</b>	<b>71,10</b>	<b>89,80</b>	<b>118,00</b>

## 604G

SCU



Model for cuts up to R 1620 N/sqmm (HRC 48).  
High resistance steel blades, with eccentric adjustment.  
Tubular steel handles with rubber grips.

Overall length	mm	350	450	600	750	900
For cutting R500 N/mm <sup>2</sup> up to Ø	mm	7	8	10	13	16
For cutting R1620 N/mm <sup>2</sup> up to Ø	mm	5	6	7	8	9
<b>604G</b>	Each	<b>74,50</b>	<b>95,60</b>	<b>122,00</b>	<b>181,00</b>	<b>243,00</b>

Spare heads for Art. 604G.

For iron cutters length	mm	350	450	600	750	900
<b>O604G</b>	Each	<b>58,70</b>	<b>76,60</b>	<b>88,20</b>	<b>116,00</b>	<b>158,00</b>

## 612GA

SCU



Support-type for cuts up to R 1400 N/sqmm.  
High resistance steel blades, with screw adjustment.  
Tubular steel handle with rubber grip.

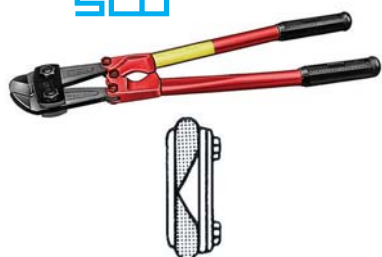
Overall length	mm	450	600
For cutting R500 N/mm <sup>2</sup> up to Ø	mm	8	10
For cutting R1400 N/mm <sup>2</sup> up to Ø	mm	6	8
<b>612GA</b>	Each	<b>87,10</b>	<b>113,00</b>

Spare heads for Art. 612 GA.

For iron cutters length	mm	450	600
<b>O612GA</b>	Each	<b>52,40</b>	<b>70,60</b>

## 612GB

SCU



Angled and flush type for clearcutting up to R 1330 N/sqmm (HRC 40).  
High resistance steel blades, with eccentric adjustment.  
Tubular steel handles with rubber grips.

Overall length	mm	450	600
For cutting R500 N/mm <sup>2</sup> up to Ø	mm	8	10
For cutting R1330 N/mm <sup>2</sup> up to Ø	mm	6	7
<b>612GB</b>	Each	<b>129,00</b>	<b>150,00</b>

Spare heads for Art. 612 GB.

For iron cutters length	mm	450	600
<b>O612GB</b>	Each	<b>90,80</b>	<b>115,00</b>

## 612GE

SCU



Side cutting edges type, suitable for cutting steel wire nets  
for concrete slabs. Special steel blades. Tubular steel handles.  
For cuts up to R 1330 N/sqmm.

Overall length	mm	800
For cutting R500 N/mm <sup>2</sup> up to Ø	mm	9
For cutting R1330 N/mm <sup>2</sup> up to Ø	mm	8
<b>612GE</b>	Each	<b>260,00</b>

Spare heads for Art. 612 GE.

<b>O612GE</b>	Each	<b>200,00</b>
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When stocks are depleted, we will provide cutters Orig. Gedore Art. 8179-900.

Support-type for cuts up to R 1400 N/sqmm.  
 High resistance steel blades, with screw adjustment.  
 Tubular steel handle with rubber grip. Base made from sturdy sheet steel with anchor holes.  
 Length 540mm.

Overall length	mm	600
For cutting R500 N/mm <sup>2</sup> up to Ø	mm	10
For cutting R1400 N/mm <sup>2</sup> up to Ø	mm	8
<b>612GL</b>	Each	<b>300,00</b>

Spare heads for Art. 612GL.

<b>O612GL</b>	Each	<b>43,70</b>
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**612GL**
**2**
**THREADED BAR CUTTERS**
**Prod. SCU**

Type of support for cutting threaded rods made from steel (not stainless steel) with a resistance of up to R 600 N/mm<sup>2</sup>.

With blades made from special steel, which have been sharpened for precision cutting without damaging the thread.

Made from sturdy sheet steel with a lever handle coated in rubber.

Length 680 mm, width 235 mm.

Adjustable guide can cut up to 650 mm and can be positioned on either the left or right hand side of the body.

For cuts Ø	M	6 - 7 - 8 - 10
<b>612GT</b>	Each	<b>501,00</b>

Spare blades in accordance with Art. 612 GT.

<b>O612GT</b>	Per pair	<b>141,00</b>
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**612GT**
**ELECTRICAL CABLE CUTTERS**
**Prod. SCU**

POCKET model in STAINLESS steel.

Strong plastic coated handles.

With opening spring and latch pin.

Suitable for cutting copper, aluminium and multiple insulating wire.

Overall length	mm	170
For copper and aluminium cables up to Ø	mm	10
For copper and aluminium cables max. sect.	mm <sup>2</sup>	24
<b>613</b>	Each	<b>13,20</b>


**SCU**
**INOX**
**613**

PROFESSIONAL model in special forged steel.

Suitable for cutting copper and aluminium cables and multiple insulating wire.

Its special blade shape makes cutting extremely easy.

Dual-component handles for comfortable and safe gripping.

Overall length	mm	<b>160</b>	<b>210</b>
For copper and aluminium cables up to Ø	mm	12	20
For copper and aluminium cables max. sect.	mm <sup>2</sup>	35	60
<b>613G</b>	Each	<b>26,90</b>	<b>40,20</b>


**SCU**
**613G**

Professional model made from special steel, hardened and ground.

For cutting copper wire, aluminium and multiple insulations.

The specific shape of the blades allows you to make really powerful cuts.

With ergonomic handles, insulated, and made of sturdy plastic.

Overall length	mm	180
For copper and aluminium cables up to Ø	mm	24
<b>613GB</b>	Each	<b>48,10</b>


**SCU**
**613GB**

HIGHLY-PROFESSIONAL model in special forged steel with inductive hardening. Suitable for cutting and stripping of copper and aluminium cables and multiple insulating wire. Its specially shaped and finely serrated blades make cutting extremely easy.

Burnished finish, plastic-coated handles.

Overall length	mm	160
For copper and aluminium cables up to Ø	mm	16
For copper and aluminium cables max. sect.	mm <sup>2</sup>	50
<b>613GE</b>	Each	<b>30,40</b>


**SCU**
**613GE**

**614B** 

In CHROME VANADIUM steel. Chrome finish, insulated handles. With ratchet pin. Suitable for cutting copper and aluminium cables and multiple insulating wire.

Overall length	mm	230
For copper and aluminium cables up to Ø	mm	15
For copper and aluminium cables max. sect.	mm <sup>2</sup>	50

<b>614B</b>	Each	<b>77,70</b>
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**614G** 

HIGHLY-PROFESSIONAL model in special forged steel with inductive hardening. Suitable for cutting and stripping of copper and aluminium cables and multiple insulating wire. Its specially shaped and finely serrated blades make cutting extremely easy. Burnished finish, plastic-coated handles.

Overall length	mm	210
For copper and aluminium cables up to Ø	mm	25
For copper and aluminium cables max. sect.	mm <sup>2</sup>	70

<b>614G</b>	Each	<b>44,20</b>
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**615G** 

Light, high performance type. Special additionally hardened steel blades. The special shape of its blades together with a favourable lever ratio make cutting extremely easy. Sturdy aluminium alloy handle with bi-component grips. Suitable to cut copper and aluminium cables and multiple insulation wire.

Overall length	mm	500
For copper and aluminium cables up to Ø	mm	27
For copper and aluminium cables max. sect.	mm <sup>2</sup>	150
Weight	Kg	1,1

<b>615G</b>	Each	<b>171,00</b>
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Spare blades available on request.

**616G** 

**Orig. Marvel**

High-resistance steel head. Aluminium alloy corrugated arms with plastic coated handles. Suitable for cutting copper and aluminium cables and multiple insulating wire.

Overall length	mm	<b>310</b>	<b>450</b>	<b>600</b>	<b>800</b>
For copper and aluminium cables up to Ø	mm	22	26	35	50
For copper and aluminium cables max. sect.	mm <sup>2</sup>	80	150	250	500
Weight	Kg	0,7	1,1	1,5	2,9

<b>616G</b>	Each	<b>125,00</b>	<b>163,00</b>	<b>201,00</b>	<b>331,00</b>
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Spare blades for Art. 616 G.

For cable cutter length	mm	<b>310</b>	<b>450</b>	<b>600</b>	<b>800</b>
<b>O616G</b>	Per pair	<b>91,80</b>	<b>111,00</b>	<b>125,00</b>	<b>166,00</b>

**616GV** 


High resistance steel head. Glass fiber corrugated arms with plastic coated handles. High voltage insulation tests. Very light execution assures continuous working without fatigue. Maximum stability at extreme temperature range. Suitable for cutting copper and aluminium cables and multiple insulating wire.

Overall length	mm	<b>460</b>	<b>610</b>
For copper and aluminium cables up to Ø	mm	14	18
For copper and aluminium cables max. sect.	mm <sup>2</sup>	150	250
Weight	Kg	0,980	1,5

<b>616GV</b>	Each	<b>202,00</b>	<b>250,00</b>
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Spare blades for Art. 616 GV.

For cable cutter length	mm	<b>460</b>	<b>610</b>
<b>O616GV</b>	Per pair	<b>108,00</b>	<b>120,00</b>

**617G** 

**Orig. Baudat - Art. 80-415/413/429 (Mod. E1/E2/E3)**

High resistance steel head. Shaped tubular steel arms and ergonomic handles. CHROME VANADIUM blades with shaped cutting edges to increase cutting capacity and allow perfect cutting without deformation. Suitable for cutting copper and aluminium cables.

H984				
Overall length	mm	<b>360</b>	<b>530</b>	<b>780</b>
For copper and aluminium cables up to Ø	mm	20	35	50
For copper and aluminium cables max. sect.	mm <sup>2</sup>	120	250	500
Weight	Kg	0,65	1,4	2,7

<b>617G</b>	Each	<b>101,00</b>	<b>172,00</b>	<b>244,00</b>
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Spare head for Art. 617 G.

For cable cutter length	mm	<b>360</b>	<b>530</b>	<b>780</b>
<b>O617G</b>	Each	<b>86,40</b>	<b>134,00</b>	<b>202,00</b>

**Orig. Baudat - Art. 80-417/409/411 (Mod. E11/E21/E31)**

High resistance steel head.

Shaped tubular steel arms and ergonomic handles.

CHROME VANADIUM blades with shaped cutting edges increase cutting capacity and allow perfect cutting without deformation.

Suitable for cutting copper and aluminium cables. Insulation up to 1000 V, tested to IEC 900.

"GS" tested tool by the German Safety Board.

Overall length	mm	<b>360</b>	<b>530</b>	<b>780</b>	
For copper and aluminium cables up to Ø	mm	20	35	50	
For copper and aluminium cables max. sect.	mm <sup>2</sup>	120	250	500	
Weight	Kg	0,8	1,9	3,2	
	<b>617GA</b>	<b>Each</b>	<b>168,00</b>	<b>222,00</b>	<b>361,00</b>

Spare heads, see Art. 0617 G.

**BAUDAT**

 AC 1000 V  
electric

**617GA**

**2**
**ELECTRICAL CABLE CUTTERS WITH RATCHET**
**Orig. Baudat - Art. 80-152/155 (Mod. K24/K32)**

Rack-type with ratchet mechanism.

Extra-high resistance CHROME-VANADIUM steel head, reinforced arms and ergonomic grips.

Particularly light and easy to handle.

With pull-back spring. Easy and progressive cutting with one hand.

Suitable to cut copper and aluminium cables (not suitable for fine wires or cables reinforced with steel and aluminium alloys).

Overall length	mm	<b>290</b>	<b>305</b>	
For copper and aluminium cables up to Ø	mm	24	32	
For copper and aluminium cables max. sect.	mm <sup>2</sup>	180	250	
Weight	Kg	0,8	0,9	
	<b>617GB</b>	<b>Each</b>	<b>291,00</b>	<b>300,00</b>

Spare blade rack type for Art. 617 GB.

For cable cutter length	mm	<b>290</b>	<b>305</b>	
	<b>O617GB 1</b>	<b>Each</b>	<b>76,40</b>	<b>132,00</b>

Spare blade without rack for Art. 617 GB.

For cable cutter length	mm	<b>290</b>	<b>305</b>	
	<b>O617GB 2</b>	<b>Each</b>	<b>59,90</b>	<b>117,00</b>

**BAUDAT**
**617GB**

**Orig. Baudat - Art. 80-163 (Mod. K2)**

Rank-type with ratchet.

Forged head, reinforced steel arms and ergonomic handles.

Return spring. One-hand easy and progressive cut.

Suitable for cutting copper and aluminium cables (not suitable for cutting thin cables or steel/aluminium alloys armoured cables).

Overall length	mm	330	
For copper and aluminium cables up to Ø	mm	30	
For copper and aluminium cables max. sect.	mm <sup>2</sup>	200	
Weight	Kg	1,05	
	<b>617GC</b>	<b>Each</b>	<b>139,00</b>

Product running out of stock.

Spare blade, rack-type, for Art. 617 GC.

	<b>O617GC 1</b>	<b>Each</b>	<b>59,70</b>
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Product running out of stock.

Spare blade, without rack, for Art. 617 GC.

	<b>O617GC 2</b>	<b>Each</b>	<b>37,20</b>
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Product running out of stock.

**BAUDAT**
**617GC**

**Orig. Baudat - Art. 80-151 (Mod. ER80)**

Manual and ratchet combined model.

Rapid manual clamping followed by automatic operation of the ratchet mechanism to facilitate and complete the cut. Extra-high resistance CHROME-VANADIUM steel head.

Shaped tubular steel arms and ergonomic handles.

Suitable to cut copper and aluminium cables (not suitable for fine wires or cables reinforced with steel and aluminium alloys).

Overall length	mm	900	
For copper and aluminium cables up to Ø	mm	80	
For copper and aluminium cables max. sect.	mm <sup>2</sup>	850	
Weight	Kg	5	
	<b>617GF</b>	<b>Each</b>	<b>835,00</b>

Spare blade rack type for Art. 617 GF.

	<b>O617GF 1</b>	<b>Each</b>	<b>282,00</b>
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Spare blade without rack for Art. 617 GF.

	<b>O617GF 2</b>	<b>Each</b>	<b>233,00</b>
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**BAUDAT**
**617GF**


## 617GLA

BAUDAT

**Orig. Baudat**

Rack-type with ratchet mechanism. Closed blade cut.  
Extra-high resistance CHROME-VANADIUM steel head, reinforced sheet arms and ergonomic grips.

With pull-back spring. Easy and progressive cutting with one hand.

Suitable for cutting copper and aluminium cables (not suitable for fine wires or reinforced steel cables and aluminium alloys).

Overall length	mm	<b>240</b>	<b>310</b>
For copper and aluminium cables up to Ø	mm	40	55
Weight	Kg	0,7	1,5
Supplier code		80-058 (Mod. SC 40)	80-057 (Mod. SC 55)
<b>617GLA</b>	<b>Each</b>	<b>291,00</b>	<b>346,00</b>

Spare knives supplied on request.

## 617GP

BAUDAT

**Orig. Baudat - Art. 80-905/900/903 (Mod. HC38/HC55/HC92)**

Rack-type with ratchet mechanism. Closed blade cut.

Extra-high resistance CHROME-VANADIUM steel head, long arms made of shaped tubular steel and ergonomic grips.

With pull-back spring. Easy and progressive cutting.

Suitable to cut copper and aluminium cables (not suitable for fine wires or cables reinforced with steel and aluminium alloys).

Overall length	mm	<b>420</b>	<b>430</b>	<b>630</b>
For copper and aluminium cables up to Ø	mm	38	55	92
For copper and aluminium cables max. sect.	mm <sup>2</sup>	300	450	1000
Drive ratio		1:60	1:60	1:60
Weight	Kg	1,1	1,3	3,6
<b>617GP</b>	<b>Each</b>	<b>258,00</b>	<b>379,00</b>	<b>833,00</b>

Sizes mm 420 and 430 running out of stock.

Spare blade rack type for Art. 617 GP.

For cable cutter length	mm	<b>420</b>	<b>430</b>	<b>630</b>
<b>O617GP 1</b>	<b>Each</b>	<b>163,00</b>	<b>159,00</b>	<b>185,00</b>

Spare blade without rack for Art. 617 GP.

For cable cutter length	mm	<b>420</b>	<b>430</b>	<b>630</b>
<b>O617GP 2</b>	<b>Each</b>	<b>78,80</b>	<b>79,10</b>	<b>140,00</b>

## 617GPA

BAUDAT

**Orig. Baudat - Art. 80-067 (Mod. SCZ 55)**

Rack-type with ratchet mechanism. Closed blade cut.

Extra-high resistance CHROME-VANADIUM steel head, long arms made of shaped tubular steel and ergonomic grips.

With pull-back spring. Easy and progressive cutting.

Suitable for cutting copper and aluminium cables (not suitable for fine wires or reinforced steel cables and aluminium alloys).

Overall length	mm	430
For copper and aluminium cables up to Ø	mm	55
Weight	Kg	1,6
<b>617GPA</b>	<b>Each</b>	<b>379,00</b>

Spare knives supplied on request.

## 617GQ

BAUDAT

**Orig. Baudat - Art. 80-912 (Mod. HCF75)**

Rack-type with ratchet mechanism. Long straight blades to cut flat cables without deformation.  
Extra-high resistance CHROME-VANADIUM steel head, arms made of shaped tubular steel and ergonomic grips.

For flat copper and aluminium cables. Width: 75mm

Overall length	mm	525
Drive ratio		1:60
Weight	Kg	1,7
<b>617GQ</b>	<b>Each</b>	<b>499,00</b>

Shears for ribbon cables, see Art. 709 GS.

Spare blade rack type for Art. 617 GQ.

<b>O617GQ 1</b>	<b>Each</b>	<b>251,00</b>
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Spare blade without rack for Art. 617 GQ.

<b>O617GQ 2</b>	<b>Each</b>	<b>257,00</b>
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**ELECTRICAL CABLE CUTTERS WITH RATCHET MECHANISM**
**Orig. Baudat - Art. 80-051 (Mod. SR52)**

Stationary model, with ratchet.  
 High-resistance steel body.  
 Forged blades.  
 Operating lever with ergonomically designed handle.  
 Ideal for use in workshop or to cut cables in coils.  
 High cutting performances with small effort of power required.

For copper and aluminium cables up to Ø	mm	52
For copper and aluminium cables max. sect.	mm <sup>2</sup>	450
Weight	Kg	8,3
<b>617GR</b>	Each	<b>924,00</b>

Spare blade rack type for Art. 617 GR.

<b>O617GR 1</b>	Each	<b>177,00</b>
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Spare blade without rack for Art. 617 GR.

<b>O617GR 2</b>	Each	<b>154,00</b>
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2

**OIL-HYDRAULIC CABLE CUTTERS FOR ELECTRICAL CABLES**
**Orig. Baudat - Art. 60-153 (Mod. HS3D)**

Hydraulic-operated leveraged model.  
 Special steel body, forged head.  
 Easy cut, high cutting power for copper and aluminium cables.  
 Sturdy and easy to handle.  
 Clamping force approx. 35KN at 500 BAR.

Overall length	mm	500
For copper and aluminium cables up to Ø	mm	50
For copper and aluminium cables max. sect.	mm <sup>2</sup>	450
Weight	Kg	4,1
<b>617GS</b>	Each	<b>2.940,00</b>

Spare blades for Art. 617 GS - 617 GSA.

<b>O617GS</b>	Per pair	<b>537,00</b>
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**HAND-OPERATED CUTTERS FOR STEEL WIRE ROPES**
**Prod. SCU**

High resistance steel head. Body in heavy steel sheet.  
 Opening spring. Plastic coated handles. Suitable for cutting steel wire ropes.  
 Blades with triangular cutting edges increase cutting capacity and assure quick and precise cuts without deformations.  
 Suited to steel wire ropes up to Ø 3mm and copper wire up to Ø 6mm.

Overall length	mm	190
<b>618GM</b>	Each	<b>20,30</b>


**Orig. Baudat - Art. 80-416/414/428 (Mod. ES1/ES2/ES3)**

Head made of high resistance CHROME VANADIUM steel. Shaped tubular steel arms and ergonomic grips. Blades with triangular profile assure quick and precise cuts without deformations.

Suitable for cutting flexible steel wire ropes (not suitable for high compressed and rigid wire ropes). "GS" tested tool by the German Safety Board.

Overall length	mm	<b>350</b>	<b>500</b>	<b>720</b>
For steel ropes up to Ø	mm	6	10	14
Weight	Kg	0,6	1,3	2,3
<b>618GR</b>	Each	<b>138,00</b>	<b>228,00</b>	<b>312,00</b>

Spare head for Art. 618 GR.

For shears length	mm	<b>350</b>	<b>500</b>	<b>720</b>
<b>O618GR</b>	Each	<b>134,00</b>	<b>209,00</b>	<b>319,00</b>


**HAND OPERATED CUTTERS FOR WIRE ROPES AND ELECTRICAL CABLES**
**Orig. Gedore - Art. 8320 JL**

With interchangeable blades made of sintered HSS, for high performance and durability. The ease of cutting prevents the rope from getting crushed and allows the use of just one hand.  
 Special geometry blades, with hardness up to HRC 62-65. With 2 profiles to tighten the rope closing terminals. Handles, in bi-component material.

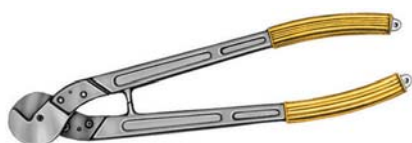
Overall length	mm	220
For steel ropes 1800 N/mm <sup>2</sup> with Ø up to	mm	6
For steel ropes 750 N/mm <sup>2</sup> with Ø up to	mm	4
For multiwire electric cables	mm	6
<b>619E</b>	Each	<b>140,00</b>

Series of spare parts for Art. 619 E, consisting of 2 knives, 2 TORX screws and 1 TORX spanner.

<b>O619E</b>	Per set	<b>29,90</b>
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619G

**Orig. Marvel**

Special steel heads. For steel wire ropes and electrical cables with steel core.

Aluminium alloy corrugated arms with plastic-coated handles.

Blades encircling profile assures a perfect wire rope cutting.

Overall length	mm	<b>310</b>	<b>450</b>	<b>600</b>
For steel ropes up to Ø	mm	6	9	14
For electric cables max. sect.	mm <sup>2</sup>	15	90	120
Weight	Kg	0,7	1,1	1,8
<b>619G</b>	<b>Each</b>	<b>148,00</b>	<b>190,00</b>	<b>227,00</b>

Spare blades for Art. 619 G.

For shears length	mm	<b>310</b>	<b>450</b>	<b>600</b>
<b>O619G</b>	<b>Per pair</b>	<b>111,00</b>	<b>124,00</b>	<b>133,00</b>

619GM



High resistance steel head 65 HRC. Suitable for ropes with extra strong steel wires and electrical cables with steel core. Aluminium alloy corrugated arms with plastic-coated handles.

Blades encircling profile assures a perfect wire rope cutting.

Blades encircling profile assures a perfect wire rope cutting.

Overall length	mm	600
For steel ropes up to Ø	mm	16
For harmonic steel up to Ø	mm	4,5
For electric cables max. sect.	mm <sup>2</sup>	150
Weight	Kg	2,3
<b>619GM</b>	<b>Each</b>	<b>429,00</b>

Spare blades for Art. 619 GM.

<b>O619GM</b>	<b>Per pair</b>	<b>275,00</b>
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### WIRE ROPE CUTTERS WITH RATCHET MECHANISM

619GP

BAUDAT

**Orig. Baudat - Art. 80-156 (Mod. KS13)**

Rack-type with ratchet mechanism. Extra-high resistance CHROME-VANADIUM steel head, reinforced arms and ergonomic grips. Particularly light and easy to handle.

With pull-back spring. Easy and progressive cutting with one hand.

Suitable to cut flexible steel ropes (not suitable for highly compressed and rigid ropes).

Overall length	mm	285
For steel ropes up to Ø	mm	13
Weight	Kg	0,75
<b>619GP</b>	<b>Each</b>	<b>335,00</b>

Spare blade rack type for Art. 619 GP.

<b>O619GP 1</b>	<b>Each</b>	<b>158,00</b>
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Spare blade without rack for Art. 619 GP.

<b>O619GP 2</b>	<b>Each</b>	<b>133,00</b>
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619GR

BAUDAT

**Orig. Baudat - Art. 80-106 (Mod. VCS22)**

Rack-type with ratchet mechanism. Closed blade cut. Extra-high resistance CHROME-VANADIUM steel head, sheet reinforced arms and ergonomic grips. With pull-back spring. Easy and progressive cutting with one hand. Suitable to cut flexible steel ropes (not suitable for highly compressed and rigid ropes).

Double feed speed and cutting device.

Overall length	mm	290
For steel ropes up to Ø	mm	16
Drive ratio		1:50
Weight	Kg	1
<b>619GR</b>	<b>Each</b>	<b>437,00</b>

Product running out of stock.

Spare blade rack type for Art. 619 GR - 619GS.

<b>O619GR 1</b>	<b>Each</b>	<b>232,00</b>
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Product running out of stock.

619GRA

BAUDAT

**Orig. Baudat - Art. 80-059 (Mod. SCS18)**

Rack-type with ratchet mechanism. Closed blade cut. Extra-high resistance CHROME-VANADIUM steel head, sheet reinforced arms and ergonomic grips. With pull-back spring. Easy and progressive cutting with one hand. For cutting flexible and rigid steel cables.

Overall length	mm	317
For flexible steel ropes up to Ø	mm	18
For stiff steel ropes up to Ø	mm	15
Weight	Kg	1,7
<b>619GRA</b>	<b>Each</b>	<b>511,00</b>

Spare knives supplied on request.



**Orig. Baudat - Art. 80-068 (Mod. SCSZ20)**

Rack-type with ratchet mechanism. Closed blade cut. Extra-high resistance CHROME-VANADIUM steel head, long tubular steel arms and ergonomic grips. With pull-back spring. Easy and progressive cutting with reduced effort. For cutting flexible and rigid steel cables.

Overall length	mm	440
For flexible steel ropes up to Ø	mm	20
For stiff ropes up to Ø	mm	16
Weight	Kg	1,9

<b>619GSA</b>	Each	<b>615,00</b>
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Spare knives supplied on request.


**2**
**HYDRAULIC CUTTERS FOR WIRE ROPES**
**Orig. Baudat - Art. 60-107 (Mod. HS3D)**

Hydraulic working with leverage mechanism. Special steel body, forged head. Easy and powerful cut of flexible steel wire ropes (not suitable for high compressed and rigid wire ropes). Sturdy, handy and easy to use.

Clamping force approx. 35 KN at 500 BAR.

Overall length	mm	500
For steel ropes up to Ø	mm	22
Weight	Kg	4,1

<b>620GE</b>	Each	<b>2.970,00</b>
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Spare blades for Art. 620 GE.

<b>O620GE</b>	Per pair	<b>471,00</b>
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**IMPACT CUTTERS CUTTERS FOR WIRE ROPES**
**Prod. SCU**

Percussion model, with anti-chipping edge. Fixing holes for workbench mounting (Art. 624 GA 19 excluded). Practical, light, handy. Suitable for site working.

Cutting blades in special steel, hardened and ground.

For steel ropes up to Ø	mm	<b>19</b>	<b>27</b>	<b>38</b>
Base Ø	mm	90	160	200
Height	mm	170	185	230
Weight	Kg	3,6	7,7	12,7

<b>624GA</b>	Each	<b>224,00</b>	<b>382,00</b>	<b>639,00</b>
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Spare blade for Art. 624 GA 19.

<b>O624GA 1</b>	Each	<b>39,90</b>
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Spare blade for Art. 624 GA 27.

<b>O624GA 2</b>	Each	<b>39,90</b>
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Spare blade for Art. 624 GA 38.

<b>O624GA 3</b>	Each	<b>51,70</b>
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Pair of spare blade-guide for Art. 624GA 19.

<b>O624GA 4</b>	Per pair	<b>49,20</b>
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Pair of spare blade-guide for Art. 624GA 27.

<b>O624GA 5</b>	Per pair	<b>87,10</b>
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Pair of spare blade-guide for Art. 624GA 38.

<b>O624GA 6</b>	Per pair	<b>122,00</b>
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**624GA**


Hydraulic-operated leveraged model. Fixing holes for workbench mounting. Suitable also for underwater operation.

Cutting blades in special steel, hardened and ground.

For steel ropes up to Ø	mm	<b>28</b>	<b>44</b>
Dimensions	mm	355x105x177	470x127x230
Weight	Kg	12	24

<b>624GE</b>	Each	<b>2.790,00</b>	<b>4.160,00</b>
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Spare blade for Art. 624 GE 28.

<b>O624GE 1</b>	Each	<b>71,30</b>
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Spare blade for Art. 624 GE 44.

<b>O624GE 2</b>	Each	<b>89,80</b>
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Pair of spare blade-guide for Art. 624GE 28.

<b>O624GE 3</b>	Per pair	<b>121,00</b>
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Pair of spare blade-guide for Art. 624GE 44.

<b>O624GE 4</b>	Per pair	<b>195,00</b>
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**624GE**


**PINCERS**
**626G**
**SCU**

**Prod. SCU**

Square shoulder model. DIN ISO 9243. In forged steel. Hardened head and cutting edges. Finely enamelled. Top quality.

Overall length	mm	160	180	210	225
<b>626G</b>	Each	8,40	9,52	11,30	13,20

**627G**
**GEDORE**

**Orig. Gedore - Art. 8381 TL**

Square shoulder model. DIN ISO 9243 A. In forged steel. Oil-hardened head, additionally induction hardened cutting edges, hardness 62 HRC. Finely enamelled, plastic-coated handles. HIGH quality for high performance.

Overall length	mm	180	200	225	250
<b>627G</b>	Each	21,70	22,60	26,10	29,70

**630E**
**SCU**

**Prod. SCU**

Standard model for cement layers. In steel. Hardened head and cutting edges.

Overall length	mm	220	250
<b>630E</b>	Each	3,88	4,80

**630G**
**SCU**


Type for cement layers. DIN ISO 9242.

In forged steel. Hardened head and cutting edges. Finely enamelled. Top quality.

Overall length	mm	190	220	250	280	300
<b>630G</b>	Each	15,70	15,90	18,40	21,10	23,80

**630GF**
*new*
**SCU**


For cementers. DIN ISO 9242.

MILLED HINGE ALIGNED WITH HANDLES, particularly strong and guided. In forged steel. Hardened head and cutters. Finely painted. Extra quality.

Overall length	mm	220	250	280	300
<b>630GF</b>	Each	14,10	16,10	18,60	21,50

**631G**
**GEDORE**

**Orig. Gedore - Art. 8380 TL**

Type for cement layers. DIN ISO 9242 A.

In forged steel. Oil-hardened head, additionally induction hardened cutting edges, hardness 62 HRC. Finely enamelled, polished head, handy, elastic, plastic-coated handles. HIGH quality for high performance.

Overall length	mm	220	250	280
<b>631G</b>	Each	21,30	23,70	27,50

**631P**
**SCU**

**Prod. SCU**

Belt pincers holders

<b>631P</b>	Each	4,08
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**BLACK SMITH'S TONGS**
**635A**
**SCU**

**Prod. SCU**

In forged steel, enamelled. Type with flat straight noses.

Overall length	mm	400	500	600
<b>635A</b>	Each	50,20	53,80	57,40

**635B**
**SCU**


Product description as Art. 635A

Type with bent straight noses.

Overall length	mm	400	500	600
<b>635B</b>	Each	50,20	53,80	57,40

**635C**
**SCU**


Product description as Art. 635A

Type with round noses.

Overall length	mm	400	500	600
<b>635C</b>	Each	50,20	53,80	57,40

Product description as Art. 635A

Type with corrugated noses and longitudinal cutting.

Overall length	mm	400	500	600
<b>635D</b>	Each	50,20	53,80	57,40



Product description as Art. 635A

Type with plug noses.

Overall length	mm	400	500	600
<b>635E</b>	Each	50,20	53,80	57,40



### HOUSEHOLD SCISSORS

**Prod. SCU**

In forged steel. Finely nickel finish.

Overall length	mm	125	150	175	200
<b>640</b>	Each	5,48	6,10	6,34	8,02

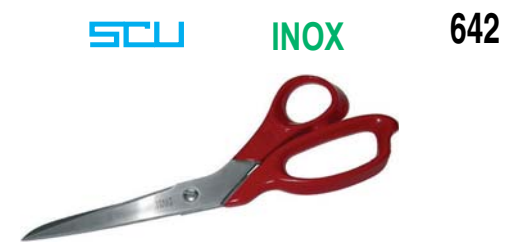
Dimension 200mm with asymmetric handles.



Stainless steel type. Fine quality.

Asymmetrical handles sheathed with nontoxic plastic.

Overall length	mm	220
<b>642</b>	Each	9,54



Merchant type.

In forged steel, nickel-plated, with rounded tips.

Overall length	mm	125	150
<b>643</b>	Each	5,48	6,10



### PAPER SCISSORS

**Prod. SCU**

In forged steel. Finely nickel finish.

Overall length	mm	250
<b>644</b>	Each	8,84



In stainless steel. Ergonomic nylon handles.

Overall length	mm	210	225
<b>644E</b>	Each	12,50	13,20



Professional stainless steel type, hardened cutting edges.

Adjustable screw hinge.

Asymmetrical handles sheathed with soft dual component material.

Top quality.

Length	mm	210	260
<b>644G</b>	Each	22,80	27,60



### TAILOR AND CARPET SCISSORS

**Prod. SCU**

Professional model made from stainless steel for cutting alongside hardening and sharpening treatments, providing you with a more accurate and special cut in less time. Increased hinge, adjustable screw. Asymmetric handles coated in dual component material. Extra quality. Particularly suitable for cutting heavy fabrics, upholstery, carpets, etc.

Overall length	mm	285
<b>644P</b>	Each	43,10



**ALL USES SHEARS**

646

SCU

**Prod. SCU**

Perfect cut, multipurpose.  
Used as bottle opener, pipe wrench, screwdriver, etc.  
Finely lacquered.

Overall length	mm	200
<b>646</b>	<b>Each</b>	<b>15,40</b>

**MULTI-PURPOSE SHEARS**

646E

SCU

**Prod. SCU**

Professional type with TITANIUM-coated special steel blades for longer life. Asymmetrical handles covered with soft dual component material.  
Suited to cut paper, cardboard, sheet metal, thin rubber and plastic etc.

Overall length	mm	175
<b>646E</b>	<b>Each</b>	<b>3,90</b>

646F

SCU



Professional type with TITANIUM-coated special steel blades for longer life. Asymmetrical handles covered with soft dual component material.  
Suited to cut paper, cardboard, sheet metal, rubber and plastic etc.

Overall length	mm	205	235
<b>646F</b>	<b>Each</b>	<b>4,30</b>	<b>4,80</b>

**SCISSORS FOR LEATHER**

647P

SCU

**Prod. SCU**

Special model to cut leather and skins. In forged steel.  
Finely polished blades. Enamelled handles.

Overall length	mm	210	260
<b>647P</b>	<b>Each</b>	<b>21,20</b>	<b>27,30</b>

**SCISSORS FOR RUBBER**

647S

SCU

**Prod. SCU**

Special model to cut rubber and by-products.  
In forged steel. Nickel-plated single edge blades. Enamelled grip.

Overall length	mm	200	225
<b>647S</b>	<b>Each</b>	<b>11,10</b>	<b>11,80</b>

**SERVING SCISSOR**

648A

SCU

For fiber glass  
and carbon



INOX

**Prod. SCU**

Special model for cutting glass and carbon fibres.  
Stainless steel blades, finely toothed, with hardening and sharpening treatments for providing a more accurate, special cut in less time. Increased hinge, adjustable screw. Asymmetric handles coated in dual component material.  
Extra quality.

Overall length	mm	285
<b>648A</b>	<b>Each</b>	<b>55,10</b>

648B

SCU

For aramidic fibers



INOX

**Prod. SCU**

Special model for cutting aramid fibres.  
Stainless steel blades, both finely toothed, with hardening and sharpening treatments for providing a more accurate, special cut in less time. Increased hinge, adjustable screw. Asymmetric handles coated in dual component material.  
Extra quality.

Overall length	mm	285
<b>648B</b>	<b>Each</b>	<b>57,90</b>

648G



For synthetic fibers

**Orig. Textilia Solingen**

Special model to cut high-resistance synthetic fibers such as: aramid, glass fibers, carbon fibers, etc. Special steel blades, finely serrated cutting edge. PTFE-S sheathed blades. Asymmetrical handles sheathed in PVC.  
With rounded tips.

Overall length	mm	210	260
<b>648G</b>	<b>Each</b>	<b>137,00</b>	<b>203,00</b>

Special model to cut high-resistance synthetic fibers such as: aramid, glass fibers, carbon fibers, etc. Special steel blades, finely serrated cutting edge. PTFE-S sheathed blades. Universal model with straight handles sheathed in PVC. With sharp-pointed tips.

Overall length	mm	210
<b>649G</b>	<b>Each</b>	<b>137,00</b>



2

**ELECTRICIAN'S SCISSORS**

**Prod. SCU**

Model with straight blades. Forged and hardened steel. Fine nickel plated finish. Screw adjusting. Wire cutter. Serrated blade. Standard quality.

Overall length	mm	125
<b>651A</b>	<b>Each</b>	<b>6,44</b>



Model with curved blades. Forged and hardened steel. Fine nickel plated finish. Screw adjusting. Wire cutter. Serrated blade. Standard quality.

Overall length	mm	125
<b>655A</b>	<b>Each</b>	<b>6,76</b>



Model with straight blades. Forged and hardened steel. Fine nickel plated finish. Screw adjusting. Wire cutter. Serrated blade. Plastic coated rings. Standard quality.

Overall length	mm	125
<b>656A</b>	<b>Each</b>	<b>6,92</b>



Product description as Art. 656A. High quality, with thick plastic coated ring-shaped handle.

Overall length	mm	140
<b>656A 3</b>	<b>Each</b>	<b>7,52</b>



Product description as Art. 656A. Top quality, with thick plastic coated ring-shaped handle.

Overall length	mm	140
<b>656B</b>	<b>Each</b>	<b>8,64</b>



Model with straight blades. Forged and hardened steel. Fine nickel plated finish. Screw adjusting. Wire cutter. Serrated blade. Extra quality, with thick plastic coated rings. Smooth blades, milled, burnished.

Overall length	mm	140
<b>656E</b>	<b>Each</b>	<b>9,68</b>



Straight model. For heavy duty work. Integral structure made from fully forged and tempered stainless steel including outlet rings. Insulated handles, in bi-component material. Screw clamp with sturdy zipper. Milled blades, with cutting shears and 1 micro tooth to provide maximum cutting ease; hardness HRC 56.

Overall length	mm	140
<b>656F</b>	<b>Each</b>	<b>17,30</b>



Model with straight blades. Stainless steel blades, handles sheathed in synthetic resin. Screw adjusting. Adjustable joint. Wire cutter and wire stripper. Finely serrated blade provides a very good ease of cutting.

Overall length	mm	140
<b>656P</b>	<b>Each</b>	<b>6,46</b>





Professional straight model. STAINLESS steel very hard blades. Handles sheathed in dual-component material with ring end inserts for a more comfortable grip. Screw adjusting. Sturdy adjustable joint. Wide wire cutter and wire stripper. Finely serrated blade provides a very good ease of cutting.

Overall length	mm	150
<b>656R</b>	Each	<b>12,80</b>



Extra professional model with straight blades. Thick stainless steel blades. Handles sheathed in nylon give a comfortable and positive grip and reduce the effort when cutting. Screw adjusting. Sturdy adjustable joint. Wire cutter and wire stripper. Finely serrated blade provides a very good ease of cutting.

Overall length	mm	140
<b>656T</b>	Each	<b>13,50</b>



Model with curved blades. Forged and hardened steel. Fine nickel plated finish. Screw adjusting. Wire cutter. Serrated blade. Plastic coated rings. Standard quality.

Overall length	mm	125
<b>657A</b>	Each	<b>7,36</b>



Product description as Art. 657A  
High quality, with thick plastic coated ring-shaped handle.

Overall length	mm	140
<b>657A 3</b>	Each	<b>8,08</b>



Product description as Art. 657A  
Top quality, with thick plastic coated ring-shaped handle.

Overall length	mm	140
<b>657B</b>	Each	<b>10,90</b>



Model for phone maintenance and service. Forged and hardened steel. Fine nickel plated finish. Screw adjusting. Wire cutter. Serrated blade. Plastic coated rings.

Overall length	mm	140
<b>661</b>	Each	<b>7,00</b>

#### SAFETY CASES FOR SCISSORS



Prod. SCU  
Made from flexible and durable nylon. With attaching belt clip. Suitable for shears as per Art. 656 E - F - P - R - T.

<b>661L</b>	Each	<b>4,16</b>
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#### CLASP KNIVES FOR ELECTRICIANS



Prod. SCU  
Model with wooden handle and steel blade with wire stripper. Open overall length 195mm. Blade length 85mm.

<b>662</b>	Each	<b>6,68</b>
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Model with unbreakable plastic handle and steel blade with wire stripper. Open overall length 195mm. Blade length 85mm.

<b>662B</b>	Each	<b>5,68</b>
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Model with unbreakable plastic handle and stainless steel blade with wire stripper.  
Open overall length 195mm. Blade length 85mm.

**662C** Each **6,74**



Model with unbreakable plastic handle and steel blade with wire stripper.  
Open overall length 195mm. Blade length 85mm.

**662E** Each **6,26**



**Orig. Marvel**

Model with precious hard wood handle and brass reinforcements.  
Stainless steel blade with long life sharpening and latch.  
Open overall length 195mm. Blade length 85mm.

**662GP** Each **35,80**



**CABLE DISMANTLE KNIVES**

**Prod. SCU**

Industrial knives. Carbon steel blade. Thickness: mm 5. Rubber handle.  
Suited to remove thick insulating sheath. To be used with nylon hammerings.  
Overall length 200mm. Blade length 85mm.

**662R** Each **29,40**



**POCKET CLASP KNIVES**

**Prod. SCU**

Universal model. Unbreakable plastic handle and stainless steel blade.  
Open overall length 195mm. Blade length 85mm.

**662S** Each **6,60**



Universal model. Wooden handle and stainless steel blade.  
Blade brass housing.

Overall length as open	mm	<b>180</b>
Blade length	mm	85

**662T** Each **17,10**



Universal model. Hard wood handle and brass reinforcements.  
Stainless steel blade. Blade brass housing.  
Open overall length 180mm. Blade length 80mm.

**662TA** Each **31,50**



Universal model, 4-blade, utility. Unbreakable plastic handle and steel blades. Open overall length 180mm.

**662V** Each **15,30**



Universal model, 4-blade, utility. Precious wood handle and steel blades.  
Open overall length 185mm.

**662Z** Each **22,90**



**CLASP KNIVES**

**Prod. SCU**

Universal model. Knurled nylon handles for a safe grip.  
Stainless steel blade. Single-hand operated, belt clip for quick accessibility.  
Open overall length 165mm. Blade length 70mm.  
With single edge blade.

**663A** Each **52,50**



Product description as Art. 663A  
With finely serrated blade.

**663B** Each **52,50**



**CABLE DISMANTLE KNIVES**
**663GA** **SCU**

**Prod. SCU**

Universal, double-blade model. One of the two blades is fixed, with upward tip, serrated edge and finger protection, the other is a thin, retractable safety blade, only operated by keeping the slider pressed. Polyamide handle.

<b>663GA</b>	Each	<b>51,40</b>
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Spare serrated-edge blade

<b>O663GA</b>	Each	<b>47,10</b>
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Package UNITS containing 10 thin safety blades each, supplied in dispenser with a 3mm hexagonal wrench.

<b>O663GB</b>	Per pack	<b>21,60</b>
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**DRAWSPRINGS**
**663T** **SCU**

**Prod. SCU**

Hardened steel tape with rounded edges. Ball head with ending hook.

Cross section 3.5x0.5mm.

Tape in rolls by		m	5	10	15	20	30
<b>663T</b>	Each		<b>2,82</b>	<b>3,58</b>	<b>4,58</b>	<b>5,70</b>	<b>7,82</b>

**664** **SCU**


Round nylon tape, resistant and flexible. Flexible head with ending hook.

Diameter 3mm.

Tape in rolls by		m	5	10	15	20	30
<b>664</b>	Each		<b>5,78</b>	<b>6,68</b>	<b>7,82</b>	<b>9,00</b>	<b>11,60</b>

**664A** **SCU**


Product description as Art. 664

Diameter 4mm.

Tape in rolls by		m	5	10	15	20	30
<b>664A</b>	Each		<b>6,48</b>	<b>7,42</b>	<b>9,78</b>	<b>12,40</b>	<b>17,50</b>

**664GL** **SCU**


Professional construction.

Interwoven type, tape in polyester. Flexible head with ending hook (threaded connection M5).

Diameter 4.5mm.

Tape in rolls by		m	15	20	30
<b>664GL</b>	Each		<b>62,20</b>	<b>75,40</b>	<b>104,00</b>



Product description as Art. 664GL

Diameter 5,2mm.

Tape in rolls by		m	30	50
<b>664GM</b>	Each		111,00	168,00

**SCU**
**664GM**

**2**

Professional construction.

Steel tape, polypropylene coated. Highly resistant and flexible.

Very good pushig and traction capacity allows to easily overcome long and even tortuous distances.

Flexible head with ending hook (threaded connection M5).

Diameter 4mm.

Tape in rolls by		m	10	15	20	30
<b>664GP</b>	Each		20,70	26,60	32,30	44,40

**SCU**
**664GP**

**Orig. Marvel**

Industrial construction.

Interwoven type with steel tape, nylon coated.

Max.pushing and traction capacity allows to easily overcome long and even tortuous distances.

Pointed endings with fixing hole. Unlimited breaking load.

Diameter 6.2mm.

Tape in rolls by		m	30	50
<b>664GR</b>	Each		142,00	230,00


**664GR**

**Prod. SCU**

Professional construction.

Fiberglass tape, polypropylene coated.

Remarkable pushig and traction capacity allows to easily overcome long and even tortuous distances.

Threaded ends M5 to install accessories Art. 664 TA 1-2-3-4.

Diameter 3mm.

Without accessories.

Tape in rolls by		m	10	20	30	40
<b>664SA</b>	Each		39,80	70,50	102,00	132,00

**SCU**
**664SA**

**ACCESSORIES FOR ART. 664 SA ALL SIZES AVAILABLE**

Suitable also as spare parts and accessories for Art. 664 GL-GM-GP.

Flexible head Ø 6mm with ending hook.

<b>664TA 1</b>	Each	2,92
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**SCU**
**664TA 1**

**ACCESSORIES FOR ART. 664 SA ALL SIZES AVAILABLE**

Suitable also as spare parts and accessories for Art. 664 GL-GM-GP.

Pulling hook

<b>664TA 2</b>	Each	1,08
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**SCU**
**664TA 2**

**ACCESSORIES FOR ART. 664 SA ALL SIZES AVAILABLE**

Suitable also as spare parts and accessories for Art. 664 GL-GM-GP.

Connection

<b>664TA 3</b>	Each	1,08
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**SCU**
**664TA 3**


## 664TA 4 SCU



ACCESSORIES FOR ART. 664 SA ALL SIZES AVAILABLE  
Suitable also as spare parts and accessories for Art. 664 GL-GM-GP.  
Start/end connection

664TA 4	Each	1,08
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## 2 664TA 5 SCU



Cable pullers suitable for all drawsprings having Ø 3 to 6mm.

664TA 5	Each	4,84
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## DRAWSPRINGS WITH BOX

## 664Z SCU



Prod. SCU

Draw wire Art. 664 SA complete with the following accessories:  
3 pcs. Art. 664 TA 4, 2 pcs. Art. 664 TA 3, 3 pcs. Art. 664 TA 2, 1 pcs. Art. 664 TA 1,  
1 flexible head Ø 7mm with ending hook,  
1 flexible head Ø 10mm with ending hook,  
1 pulling grip, 1 glue for repairs, 1 pcs. Art. 664 TA 5.  
In a sturdy and practical case/holder for easy and handy use.

Tape in rolls by	m	10	20	30	40
664Z	Each	178,00	189,00	200,00	211,00

## REELS FOR RODS

665  
new SCU

Prod. SCU

Vertical with pre-galvanized steel tube, powder painted for protection against oxidation, rust, etc.  
Locking lever. Ø mm 300, weight 2.3 Kg.  
Suitable for cable pullers Art. 664 to 664 SA all lengths, (except Art. 664 GR).

665	Each	134,00
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## LUBRICANT FOR DRAWSPRINGS

## 665A SCU



Prod. SCU

Spray foam reducing friction up to 80% during wire and cable installation/extraction in special pipes, trays and sheath.  
Biodegradable and non-toxic. 300 ml spray cans. (Packing unit: approx. 12 spray cans).

665A	Each	12,70
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## 665C SCU



Lubricant gel reducing friction up to 80% during wire and cable installation/extraction in special pipes, trays and sheath.  
Biodegradable and non-toxic. 1 Kg bottles. (Packing unit: approx. 12 bottles).

665C	Each	13,90
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LUBE liquid lubricant reducing friction up to 80% during wire and cable installation/extraction in special pipes, trays and sheath.

Biodegradable and non-toxic. 1 Kg bottles. (Packing unit: approx. 12 bottles).

**665E** Each **10,30**

As for safety gloves for drawsprings operation see Art. 3398 S 5.



**665E**

**2**

**ALL USES SNIPS**

**Prod. SCU**

Stainless steel blades, synthetic resin coated handles. With spring and closing latch. 1 serrated blade. Suitable for cutting cardboard, sheet metal, rubber, plastic, leather, etc.

Overall length mm 190  
**665T** Each **13,20**



**SCU INOX 665T**

**Orig. Carolus - Art. 9160.00**

Blades made from special steel. Handles made from dual component material. With spring and latch. One serrated blade. Suitable for cutting paper, cardboard, sheet metal, rubber, plastic, leather, wire, and copper wire as thin as 2 mm. Strips measuring 1-1, 5-2 mm.

Overall length mm 200  
**665Z** Each **25,80**



**carolus 665Z**

**SNIPS FOR JEWELLERS**

**Prod. SCU**

In forged and hardened steel. Enamelled, polished head. Screw adjusting. Plastic-coated handles. Straight blades.

Overall length mm 180  
**666** Each **10,40**



**SCU 666**

Product description as Art. 666

Curved blades.

Overall length mm 180  
**667** Each **10,90**



**SCU 667**

In forged and hardened steel. Enamelled, polished head. Screw adjusting. Ring-shaped handles, enamelled.

Straight blades.

Overall length mm 180  
**668** Each **9,40**



**SCU 668**

Product description as Art. 668

Curved blades.

Overall length mm 180  
**669** Each **9,94**



**SCU 669**

**HAND CUTTERS**

**Prod. SCU**

Made from sturdy sheet steel with handles coated in soft material, and a head composed of special, burnished alloys, set at a 45° incline to allow the clamps to be removed more easily without damaging the pipes. With spring.

Overall length mm 215  
**669T** Each **52,90**

Product running out of stock.



**SCU 669T**

**SNIPS FOR SHEETS**

670

SCU

**Prod. SCU**

Italy model  
In hardened steel. Plastic-coated handles.  
Suited for sheet steel and sheet iron.

Overall length	mm	220	240	260	280	300
Max cutting depth	mm	0,8	0,9	1	1,1	1,2
<b>670</b>	<b>Each</b>	<b>14,70</b>	<b>16,60</b>	<b>18,90</b>	<b>21,40</b>	<b>23,90</b>

672

SCU

**American model**

In forged and hardened steel. Plastic-coated handles.  
Suited for sheet steel up to HRc 54-56.

Overall length	mm	200	250	300
Max cutting depth	mm	0,8	1	1,2
<b>672</b>	<b>Each</b>	<b>16,60</b>	<b>20,10</b>	<b>25,50</b>

672G

SCU

**Product description as Art. 672**

Overall length	mm	200	250	300	350
Max cutting depth	mm	0,8	1	1,2	1,4
<b>672G</b>	<b>Each</b>	<b>16,10</b>	<b>21,50</b>	<b>26,80</b>	<b>36,10</b>

676

SCU

**American model - Narrow blades for shaping.**

In forged and hardened steel. Plastic coated handles.  
For sheet steel up to HRc 54-56.

Overall length	mm	200	300
Max cutting depth	mm	0,7	1,2
<b>676</b>	<b>Each</b>	<b>16,60</b>	<b>24,20</b>

**BAND-IRON SNIPS**

678A

SCU

**Prod. SCU**

Model suited to cut bands up to a length of 25mm .  
In forged and hardened steel. Plastic coated handles.

Overall length	mm	260
<b>678A</b>	<b>Each</b>	<b>21,10</b>

678G

SCU

**Model suited to cut bands up to 25mm .**

In forged and hardened steel. Plastic-coated handles with hand protector, very curved to facilitate the first cutting operation and reduce shear stress. Spring-action opening.

Overall length	mm	250
<b>678G</b>	<b>Each</b>	<b>24,60</b>

678GA

SCU



With double lever, suitable to cut bands with length up to 25mm, ACCIDENT PREVENTION spring safety system.

Hardened and forged special steel blades. Shaped sheet steel handles, plastic-coated with hand protector. Spring opening and lock.

Overall length	mm	250
<b>678GA</b>	<b>Each</b>	<b>99,70</b>

678GB

SCU

**Model suited to cut bands and sheet.**

High resistance steel blades, tubular steel handles with rubber grip.

Overall length	mm	460
Cutting capacity	mm	51x1,2
<b>678GB</b>	<b>Each</b>	<b>192,00</b>

678GE

SCU

**Product description as Art. 678GB**

Overall length	mm	650
Cutting capacity	mm	51x1,3
<b>678GE</b>	<b>Each</b>	<b>228,00</b>

**SNIPS FOR SHEETS**

**Prod. SCU**

Ideal Model - Reinforced  
In hardened steel. For straight and curved cuts, without sheet deformation.  
Plastic-coated handles. Suited for sheet iron and sheet steel.

Right-cut blades

Overall length	mm	270
Max cutting depth	mm	1
<b>679D</b>	Each	<b>26,10</b>

Product description as Art. 679D

Left-cut blades

Overall length	mm	270
Max cutting depth	mm	1
<b>679S</b>	Each	<b>26,10</b>

**SCU**

**679D**  
**679S**



**2**

**Ideal Model - Reinforced**

In forged and hardened steel. Plastic-coated handles.  
For sheet iron and sheet steel up to HRc 54-56.

Right-cut blades

Overall length	mm	<b>260</b>	<b>280</b>
Max cutting depth	mm	1	1,1
<b>680GD</b>	Each	<b>24,80</b>	<b>25,10</b>

Product description as Art. 680GD

Left-cut blades

Overall length	mm	<b>260</b>	<b>280</b>
Max cutting depth	mm	1	1,1
<b>680GS</b>	Each	<b>24,80</b>	<b>25,10</b>

**SCU**

**680GD**  
**680GS**



**Ideal Model, reinforced, with HSS cutting edges.**

In forged and hardened steel, HSS tipped, cutting edge hardness HRc 65-67.  
Suited for all kinds of sheet metal and V2A, V4A, CV, Nirosta etc. stainless steel.  
Plastic-coated handles.

Right-cut blades

Overall length	mm	280
<b>681GD</b>	Each	<b>159,00</b>

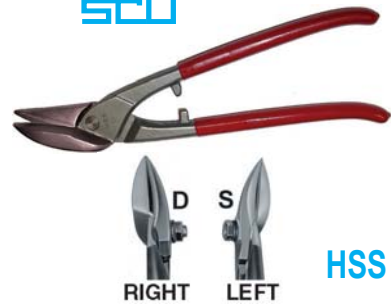
Product description as Art. 681GD

Left-cut blades

Overall length	mm	280
<b>681GS</b>	Each	<b>159,00</b>

**SCU**

**681GD**  
**681GS**



**Pellicano Model.**

In forged and hardened steel.  
Plastic-coated handles.  
Suited for sheet steel up to HRc 54-56.

Right-cut blades

Overall length	mm	300
Max cutting depth	mm	1,2
<b>682GD</b>	Each	<b>27,50</b>

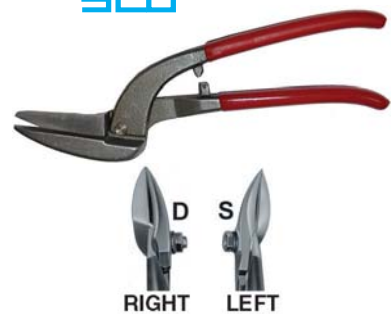
Product description as Art. 682GD

Left-cut blades

Overall length	mm	<b>300</b>	<b>350</b>
Max cutting depth	mm	1,2	1,4
<b>682GS</b>	Each	<b>27,50</b>	<b>35,70</b>

**SCU**

**682GD**  
**682GS**



**Pellicano Model with HSS cutting edges.**

In forged and hardened steel, HSS tipped, cutting edge hardness HRc 65-67.  
Suited for all kinds of sheet metal and V2A, V4A, CV, Nirosta etc. stainless steel.  
Plastic-coated handles.

Right-cut blades

Overall length	mm	300
<b>683GD</b>	Each	<b>185,00</b>

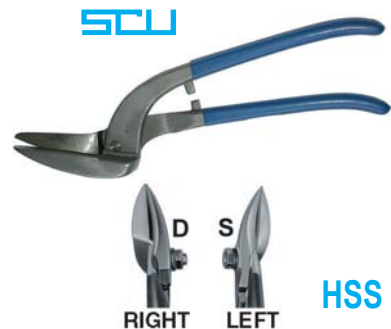
Product description as Art. 683GD

Left-cut blades

Overall length	mm	300
<b>683GS</b>	Each	<b>185,00</b>

**SCU**

**683GD**  
**683GS**



**686GD**  
**686GS**



Model for shaping.  
 In forged and hardened steel.  
 Thin head. Plastic-coated handles.  
 Suited for sheet metal up to HRc 54-56.

Right-cut blades

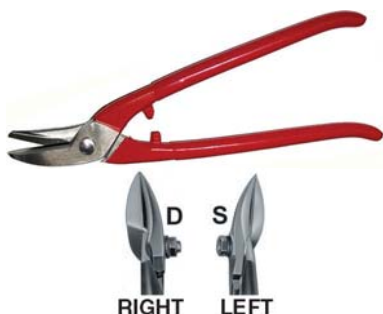
Overall length	mm	250	275
Max cutting depth	mm	1	1,1
<b>686GD</b>	Each	19,70	21,70

Product description as Art. 686GD

Left-cut blades

Overall length	mm	250	275
Max cutting depth	mm	1	1,1
<b>686GS</b>	Each	19,70	21,70

**687GD**  
**687GS**



Model for shaping, with HSS cutting edges.  
 In forged and hardened steel, HSS tipped, cutting edge hardness HRc 65-67.  
 Suited for all kinds of sheet metal and V2A, V4A, CV, Nirosta etc. stainless steel.  
 Plastic-coated handles.

Right-cut blades

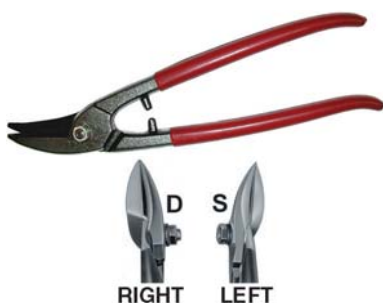
Overall length	mm	275
<b>687GD</b>	Each	139,00

Product description as Art. 687GD

Left-cut blades

Overall length	mm	275
<b>687GS</b>	Each	139,00


**689D**  
**689S**



Universal Model  
 In hardened steel. Plastic-coated handles. Suited for sheet iron and sheet steel.

Right-cut blades

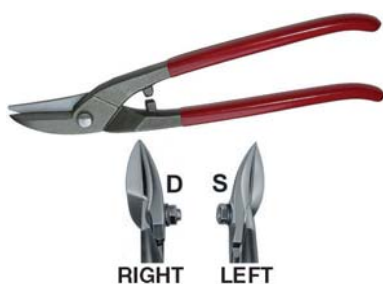
Overall length	mm	280
Max cutting depth	mm	1,1
<b>689D</b>	Each	23,30

Product description as Art. 689D

Left-cut blades

Overall length	mm	280
Max cutting depth	mm	1,1
<b>689S</b>	Each	23,30

**691GD**  
**691GS**



Universal Model  
 In forged and hardened steel. Plastic-coated handles.  
 Suited for sheet steel up to HRc 54-56.

Right-cut blades

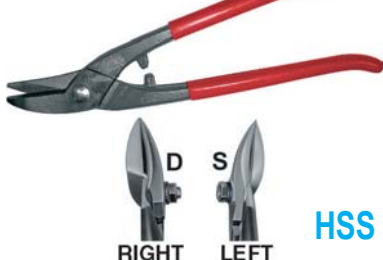
Overall length	mm	275	300
Max cutting depth	mm	1	1,2
<b>691GD</b>	Each	21,40	23,30

Product description as Art. 691GD

Left-cut blades

Overall length	mm	275	300
Max cutting depth	mm	1	1,2
<b>691GS</b>	Each	21,40	23,30

**697GD**  
**697GS**



Universal Model, with HSS cutting edges.  
 In forged and hardened steel, HSS tipped, cutting edge hardness HRc 65-67.  
 Suited for all kinds of sheet metal and V2A, CV, V4A, Nirosta etc. stainless steel.  
 Plastic-coated handles.

Right-cut blades

Overall length	mm	275	300
<b>697GD</b>	Each	113,00	115,00

Product description as Art. 697GD

Left-cut blades

Overall length	mm	275	300
<b>697GS</b>	Each	113,00	115,00



**COMPOUND ACTION SNIPS**

**Prod. SCU**

Ideal Model for through cuts.  
 Forged special steel blades. Hardened and finely serrated blades.  
 Shaped handles in sheet steel, plastic-coated. Closing hook and automatic opening.  
 Cutting edge hardness HRc 60-62.

Right-cut blades

Overall length	mm	260
Max cutting depth	mm	1,8
Max. cutting thicknesss INOX (V2A)	mm	1,2

<b>698GD</b>	Each	<b>37,90</b>
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Product description as Art. 698GD

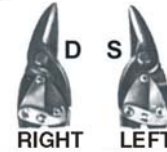
Left-cut blades

Overall length	mm	260
Cutting capacity	mm	1,8
Max. cutting thicknesss INOX (V2A)	mm	1,2

<b>698GS</b>	Each	<b>37,90</b>
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**SCU**

**698GD**  
**698GS**



**2**

Ideal Model for through cuts, HSS cutting edges.  
 In forged and hardened steel, HSS tipped, finely serrated blades, cutting edge hardness HRc 65-67.

Suited for all kinds of sheet metal and V2A, V4A, CV, Nirosta etc. stainless steel.  
 Plastic-coated handles. Closing hook and automatic opening.

Right-cut blades

Overall length	mm	260
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<b>699GD</b>	Each	<b>121,00</b>
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Product description as Art. 699GD

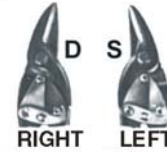
Left-cut blades

Overall length	mm	260
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<b>699GS</b>	Each	<b>121,00</b>
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**SCU**

**699GD**  
**699GS**



**HSS**

Model for shaping.

Forged special steel blades. Hardened and finely serrated blades.  
 Shaped handles in sheet steel, plastic-coated. Closing hook and automatic opening.  
 Cutting edge hardness HRc 60-62.

Right-cut blades

Overall length	mm	260
Max cutting depth	mm	1,8
Max. cutting thicknesss INOX (V2A)	mm	1,2

<b>700GD</b>	Each	<b>36,60</b>
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Product description as Art. 700GD

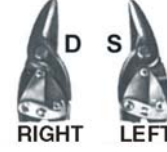
Left-cut blades

Overall length	mm	260
Max cutting depth	mm	1,8
Max. cutting thicknesss INOX (V2A)	mm	1,2

<b>700GS</b>	Each	<b>36,60</b>
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**SCU**

**700GD**  
**700GS**



Model for shaping, HSS cutting edges.  
 In forged and hardened steel, HSS tipped, finely serrated blades, cutting edge hardness HRc 65-67.

Suited for all kinds of sheet metal and V2A, V4A, CV, Nirosta etc. stainless steel.  
 Plastic-coated handles. Closing hook and automatic opening.

Right-cut blades

Overall length	mm	260
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<b>701GD</b>	Each	<b>154,00</b>
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Product description as Art. 701GD

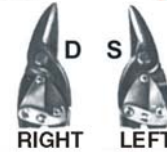
Left-cut blades

Overall length	mm	260
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<b>701GS</b>	Each	<b>154,00</b>
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**SCU**

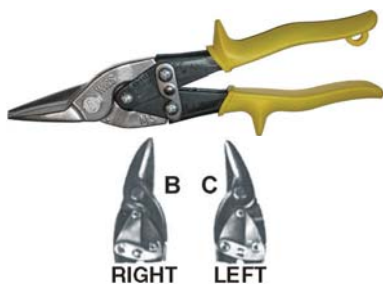
**701GD**  
**701GS**



**HSS**

707GA  
707GB  
707GC

SCU



Model with thin head.  
Forged special steel blades. Hardened and finely serrated blades.  
Shaped handles in sheet steel, plastic-coated. Closing hook and automatic opening.  
Cutting edge hardness HRc 60-62. Suited for stainless steel sheet (V2A) up to 1.5mm.

Straight blades  
Overall length mm 245  
**707GA** Each **28,60**

Product description as Art. 707GA  
Right-cut blades  
Overall length mm 245  
**707GB** Each **28,60**

Product description as Art. 707GA  
Left-cut blades  
Overall length mm 245  
**707GC** Each **28,60**

708GD  
708GS

SCU



Model for through cuts and shaping.  
Forged special steel blades. Hardened and finely serrated blades. Shaped handles in sheet steel, dual-component coated. Closing hook and automatic opening. Cutting edge hardness HRc 60-62.

Right-cut blades  
Overall length mm 230  
Max cutting depth mm 1,8  
Max. cutting thickness INOX mm 1,2  
(V2A)  
**708GD** Each **37,10**

Product description as Art. 708GD  
Left-cut blades  
Overall length mm 230  
Max cutting depth mm 1,8  
Max. cutting thickness INOX (V2A) mm 1,2  
**708GS** Each **37,10**

### SHEET METAL CUTTERS

709

SCU



Prod. SCU  
Standard model  
CHROMIUM-NICKEL steel blades. Heavy sheet handles, shaped, plastic-coated, provided with hand protector and inside return spring. Chromium-plated. Suited to cut and shape sheet steel, aluminium, sheet and plastic pipes.  
Max. steel cutting thickness 1.2mm.  
Max. plastic and aluminium cutting thickness 2mm.

Overall length mm 250  
**709** Each **39,10**

Per lame di ricambio ved. O709 GA.

709G

SCU



Prod. SCU - Orig. EDMA  
Standard model  
CHROMIUM-NICKEL steel blades. Heavy sheet handles, shaped, plastic-coated, provided with hand protector and inside return spring. Chromium-plated. Suited to cut and shape sheet steel, aluminium, sheet and plastic pipes.  
Max. steel cutting thickness 1.2mm.  
Max. plastic and aluminium cutting thickness 2mm.

Overall length mm 265  
**709G** Each **53,20**

SPARE BLADES FOR NIBBLERS  
Spare blades for Art. 709 - 709 G - 709 GL  
**O709GA** Each **11,90**

709GL

SCU



Model with chip breaker  
CHROMIUM-NICKEL steel blades. Heavy sheet handles, shaped, plastic-coated, provided with hand protector and inside return spring. Chromium-plated. Suited to cut and shape sheet steel, aluminium, sheet and plastic pipes.  
Max. steel cutting thickness 1.2mm.  
Max. plastic and aluminium cutting thickness 2mm.

Overall length mm 265  
**709GL** Each **56,10**



Model for wave cuts  
 CHROMIUM-NICKEL steel blades. Heavy sheet handles, shaped, plastic-coated, provided with hand protector and inside return spring. Chromium-plated. Especially suited for sheet steel, glass fibers, aluminium, etc.

Max. steel and glass fiber cutting thickness 1.2mm.  
 Max. plastic and aluminium cutting thickness 2mm.

Overall length	mm	265
<b>709GP</b>	Each	<b>41,90</b>

Product running out of stock.

**SPARE BLADES FOR NIBBLERS**

Spare blades for Art. 709 GP.

<b>O709GR</b>	Each	<b>11,90</b>
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Product running out of stock.

Spare counterblades for Art 709 GP.

<b>O709GS</b>	Per pair	<b>9,30</b>
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Product running out of stock.

Spare springs for Art. 709G - 709 GL - 709 GP.

<b>O709GU</b>	Each	<b>3,86</b>
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Product running out of stock.

**SCU**

**709GP**



2

**RIBBON CABLE CUTTERS**

**Prod. SCU - Orig. EDMA**

Model especially suited for ribbon electric and electronic connections. Thin special steel blades, trapezoid, interchangeable. Heavy sheet handles, plastic-coated, with hand protector and inside return spring.

Overall length	mm	240
Edges length	mm	56
<b>709GS</b>	Each	<b>51,20</b>

Cutters for wide dimension ribbon cables, see Art. 617 GQ.

Spare blades for Art. 709 GS. 10-PCS not sold separately.

<b>O709GV</b>	Per pack	<b>7,50</b>
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**SCU**

**709GS**



**PELICAN CUTTERS**

**Prod. SCU**

Pelican model, patented, with CHROME-VANADIUM steel blade, burnished body. Dual-component ergonomic grips. Complete with spring and lock. To cut synthetic materials thickness up to 6mm. Blade length 60mm. Overall length 220mm. NOT SUITABLE FOR CUTTING METAL SHEETS.

<b>709GT</b>	Each	<b>160,00</b>
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**SCU**

**709GT**



Product description as Art. 709GT

To cut synthetic materials thickness up to 4mm. With grooved guiding track to cut plastic bars and trays. Blade length 110mm. Overall length 280mm. NOT SUITABLE FOR CUTTING METAL SHEETS.

<b>709GZ</b>	Each	<b>182,00</b>
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**SCU**

**709GZ**



**PLATE AND ROUND STEEL SHEARS**

**Orig. KANCA**

Extra-thick special steel body. Alloy steel blades, hardened and sharp. Suited to cut sheet steel, flat and round iron up to R. kg/sqmm 45. Equipped with lever and with accident-prevention device to avoid its accidental falling. Above mentioned performances refer to materials with R. kg/sqmm 45. With lever.

Knives length	mm	<b>120</b>	<b>150</b>	<b>180</b>	<b>300</b>	<b>400</b>	<b>500</b>
For sheets with thickness up to	mm	4	5	6	4	5	5
For flat iron up to	mm	50x4	50x5	70x6	70x4	80x4	80x4
For round iron up to Ø	mm	11	11	13	13	13	13
Weight approx.	Kg	8	10	18	25	125	150
<b>710G</b>	Each	<b>175,00</b>	<b>200,00</b>	<b>282,00</b>	<b>590,00</b>	<b>1.630,00</b>	<b>2.500,00</b>

Upper blade.

Knives length	mm	<b>120</b>	<b>150</b>	<b>180</b>	<b>300</b>	<b>400</b>	<b>500</b>
<b>O710GA</b>	Each	<b>54,20</b>	<b>68,40</b>	<b>84,90</b>	<b>123,00</b>	<b>184,00</b>	<b>214,00</b>

Lower blade.

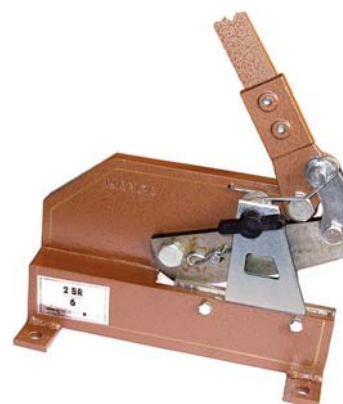
Knives length	mm	<b>120</b>	<b>150</b>	<b>180</b>	<b>300</b>	<b>400</b>	<b>500</b>
<b>O710GB</b>	Each	<b>33,00</b>	<b>40,10</b>	<b>44,80</b>	<b>66,10</b>	<b>176,00</b>	<b>211,00</b>

Blade for round steel.

Knives length	mm	<b>120</b>	<b>150</b>	<b>180</b>	<b>300</b>	<b>400</b>	<b>500</b>
<b>O710GC</b>	Each	<b>11,80</b>	<b>11,80</b>	<b>14,20</b>	<b>14,20</b>	<b>14,20</b>	<b>14,20</b>

**KANCA**

**710G**



## 710G 1



Product description as Art. 710G  
Model also suited to cut square iron.  
With lever.

For sheets with thickness up to	mm	8
For flat iron up to	mm	100x9
For round iron up to Ø	mm	20
For square iron up to	mm	18
Knives length	mm	185
Weight approx.	Kg	47

**710G 1** Each **979,00**

Upper blade for Art. 710 G 1.

**O710G 1A** Each **78,30**

Lower blade for Art. 710 G 1.

**O710G 1B** Each **89,60**

Blade for round steel for Art. 710 G 1.

**O710G 1C** Each **44,80**

Blade for square steel for Art. 710 G 1.

**O710G 1D** Each **56,60**

## 710G 1E



Product description as Art. 710G  
Model also suited to cut square iron and profiles.  
With lever.

For sheets with thickness up to	mm	8
For flat iron up to	mm	100x9
For round iron up to Ø	mm	16
For L-shaped and T-shaped profile bars	mm	40x6
Knives length	mm	175
Weight approx.	Kg	47

**710G 1E** Each **1.190,00**

Upper blade for Art. 710 G 1E.

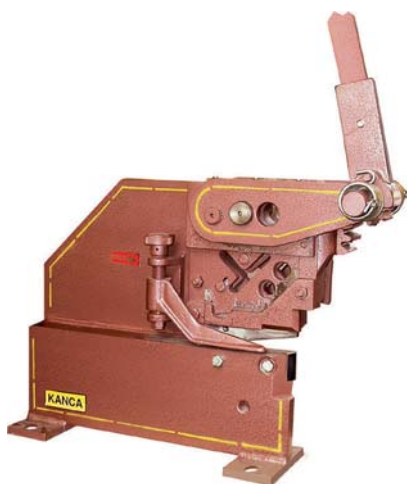
**O710G 1E** Each **78,30**

Lower blade for Art. 710 G 1E.

**O710G 1F** Each **89,60**

Spare blades for "L" and "T" profiles and round-shaped iron available on request.

## 710G 2



Product description as Art. 710G  
Model also suited to cut square iron and profiles.  
With lever.

For sheets with thickness up to	mm	10
For flat iron up to	mm	90x8
For round iron up to Ø	mm	22
For square iron up to	mm	20
For L-shaped and T-shaped profile bars	mm	60x7
Knives length	mm	175
Weight approx.	Kg	105

**710G 2** Each **1.650,00**

Upper blade for Art. 710 G 2.

**O710G 2A** Each **78,30**

Lower blade for Art. 710 G 2.

**O710G 2B** Each **89,60**

Blade for round steel for Art. 710 G 2.

**O710G 2C** Each **44,80**

Blade for square steel for Art. 710 G 2.

**O710G 2D** Each **56,60**

Spare blades for "L" and "T" profiles available on request.

**CONCRETE REINFORCING STEEL BAR SHEARS**

**Orig. KANCA**

Extra-thick special steel body. Alloy steel blades, hardened and sharp.  
 Suited to cut round and square iron up to R. kg/sqmm 45.  
 Equipped with lever and with accident-prevention device to avoid its accidental falling.  
 Above mentioned performances refer to materials with R. kg/sqmm 45.

With lever

For round iron up to Ø	mm	22
For square iron up to	mm	18
Knives length	mm	35
Weight approx.	Kg	26
<b>710G 3</b>	<b>Each</b>	<b>333,00</b>

Spare blades for Art. 710 G 3.

<b>O710G 3A</b>	<b>Per pair</b>	<b>51,90</b>
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Shears for round iron up to Ø mm 26/28/32 can be supplied on request.



**710G 3**



**2**

**PUNCHING MACHINES**

**Orig. KANCA**

Thick special steel body. Punches and dies in high-resistance steel.  
 Complete with lever and accident-prevention device to avoid accidental falls.  
 With lever.

For bores and thicknesses up to	mm	12x6,3 / 18x3,5
For material cutting with R.	kg/mm <sup>2</sup>	45
Span	mm	90
Punching power	t.	8
Weight approx.	Kg	18
<b>710G 3E</b>	<b>Each</b>	<b>536,00</b>

Spare punches for Art. 710 G 3E.

Ø	mm	3	4	5	6	7	8	9	10
<b>O710G 3E</b>	<b>Each</b>	<b>16,90</b>	<b>16,90</b>	<b>16,90</b>	<b>16,90</b>	<b>16,90</b>	<b>16,90</b>	<b>16,90</b>	<b>16,90</b>

Ø	mm	11	12	13	14	15	16	17	18
<b>O710G 3E</b>	<b>Each</b>	<b>24,10</b>	<b>24,10</b>	<b>24,10</b>	<b>24,10</b>	<b>24,10</b>	<b>24,10</b>	<b>24,10</b>	<b>24,10</b>

Spare dies for Art. 710 G 3E.

Ø	mm	3	4	5	6	7	8	9	10
<b>O710G 3F</b>	<b>Each</b>	<b>36,10</b>	<b>36,10</b>	<b>36,10</b>	<b>36,10</b>	<b>36,10</b>	<b>36,10</b>	<b>36,10</b>	<b>36,10</b>

Ø	mm	11	12	13	14	15	16	17	18
<b>O710G 3F</b>	<b>Each</b>	<b>36,10</b>	<b>36,10</b>	<b>36,10</b>	<b>36,10</b>	<b>36,10</b>	<b>36,10</b>	<b>36,10</b>	<b>36,10</b>



**710G 3E**



**PLATE AND ROUND STEEL SHEARS**

**Orig. Peddinghaus - Art. Mod. 1 BR4/2**

Thick high-resistance steel body. Alloy steel blades, hardened by using the exclusive P.A.M method.  
 Suited to cut sheet steel, flat and round iron. Provided with accident-prevention device to avoid the accidental falling of the lever.

With lever

For sheets with thickness up to	mm	4
For flat iron up to	mm	70x5
For round iron up to Ø	mm	10
For metals cutting with R.	kg/mm <sup>2</sup>	45
Knives length	mm	120
Weight approx.	Kg	7
<b>710G 4</b>	<b>Each</b>	<b>333,00</b>



**710G 4**



**Orig. Peddinghaus**

SPARE BLADES FOR SHEAR ART. 710G 4

Upper blade

<b>711G 4A</b>	<b>Each</b>	<b>98,80</b>
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Lower blade

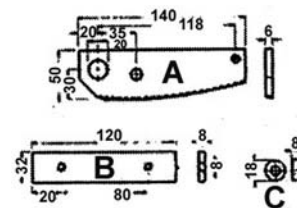
<b>711G 4B</b>	<b>Each</b>	<b>55,20</b>
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Blade for round steel

<b>711G 4C</b>	<b>Each</b>	<b>20,40</b>
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**711G 4A**  
**711G 4B**  
**711G 4C**



## 710G 5



**Orig. Peddinghaus - Art. Mod. 1 BR5/2**

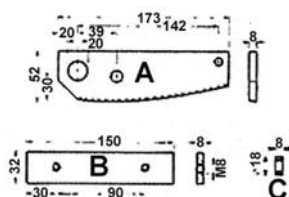
Product description as Art. 710G 4

With lever

For sheets with thickness up to	mm	5
For flat iron up to	mm	70x6
For round iron up to Ø	mm	11
For metals cutting with R.	kg/mmq	45
Knives length	mm	150
Weight approx.	Kg	9

<b>710G 5</b>	<b>Each</b>	<b>362,00</b>
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## 711G 5A 711G 5B 711G 5C



**Orig. Peddinghaus**

SPARE BLADES FOR SHEAR ART. 710G 5

Upper blade

<b>711G 5A</b>	<b>Each</b>	<b>114,00</b>
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Lower blade

<b>711G 5B</b>	<b>Each</b>	<b>63,90</b>
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Blade for round steel

<b>711G 5C</b>	<b>Each</b>	<b>20,40</b>
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## 710G 6



**Orig. Peddinghaus - Art. Mod. 1 BR6/3**

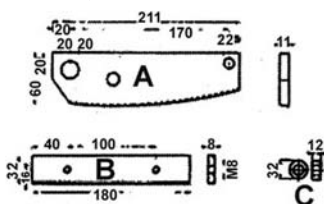
Product description as Art. 710G 4

With lever

For sheets with thickness up to	mm	6
For flat iron up to	mm	70x7
For round iron up to Ø	mm	13
For metals cutting with R.	kg/mmq	45
Knives length	mm	180
Weight approx.	Kg	17

<b>710G 6</b>	<b>Each</b>	<b>471,00</b>
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## 711G 6A 711G 6B 711G 6C



**Orig. Peddinghaus**

SPARE BLADES FOR SHEAR ART. 710G 6

Upper blade

<b>711G 6A</b>	<b>Each</b>	<b>149,00</b>
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Lower blade

<b>711G 6B</b>	<b>Each</b>	<b>78,50</b>
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Blade for round steel

<b>711G 6C</b>	<b>Each</b>	<b>26,20</b>
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## 712G 3



**Orig. Peddinghaus - Art. Mod. 2 BR4/300/2**

Product description as Art. 710G 4

Long blades model.

With lever.

For sheets with thickness up to	mm	4
For flat iron up to	mm	70x6
For round iron up to Ø	mm	13
For metals cutting with R.	kg/mmq	45
Knives length	mm	300
Weight approx.	Kg	34

<b>712G 3</b>	<b>Each</b>	<b>797,00</b>
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**Orig. Peddinghaus**

SPARE BLADES FOR SHEAR ART. 712G 3

Upper blade.

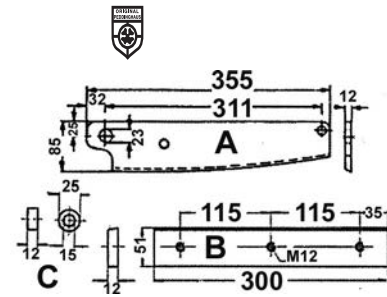
**713 3A** Each **274,00**

Lower blade.

**713 3B** Each **166,00**

Blade for round steel.

**713 3C** Each **26,20**



**713 3A**  
**713 3B**  
**713 3C**

**2**

**Orig. Peddinghaus - Art. Mod. 4 BR8**

Product description as Art. 710G 4

Suited to cut profiles even in 2 or 3 steps.

With lever.

For iron sheets up to	mm	8
For flat iron up to	mm	100x9
For round iron up to Ø	mm	20
For square iron up to	mm	18
L-shaped and T-shaped in two or three cuts up to	mm	40x5
For metals cutting with R.	kg/mmq	45
Knives length	mm	175
Weight approx.	Kg	43

**714G** Each **1.170,00**



**714G**

**Orig. Peddinghaus**

SPARE BLADES FOR SHEAR ART. 714G

Upper blade.

**715NA** Each **102,00**

Lower blade.

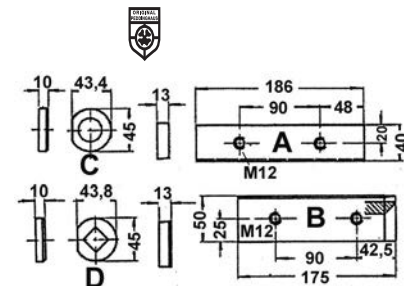
**715NB** Each **134,00**

Blade for round steel.

**715NC** Each **69,80**

Blade for square steel.

**715ND** Each **84,30**



**715NA**  
**715NB**  
**715NC**  
**715ND**

**PLATE SECTION AND BAR STOCK SHEARS**

**Orig. Peddinghaus - Art. Mod. 5 RP8**

High-resistance steel body. Alloy steel blades, exclusive P.A.M. hardening procedure.

Suited to sheet steel, flat iron, round iron and profiles. Provided with accident-prevention device to avoid the accidental falling of the lever.

Provided with high-resistance blades to cut "L" and "T" profiles, adjustable.

With lever.

For sheets with thickness up to	mm	8
For flat iron up to	mm	80x12
For round iron up to Ø	mm	20
For square iron up to	mm	18
For L-shaped iron	mm	50x6
For T-shaped iron	mm	50x6
For metals cutting with R.	kg/mmq	45
Knives length	mm	175
Weight approx.	Kg	88

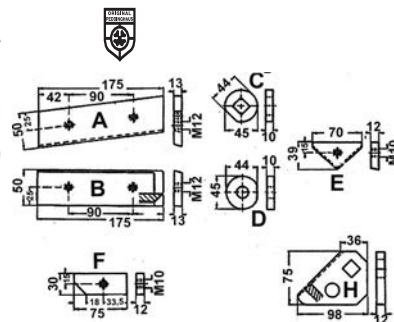
**716G 8** Each **2.440,00**



**716G 8**

Product running out of stock.

717 8A  
717 8B  
717 8C  
717 8D  
717 8E  
717 8F  
717 8H



**Orig. Peddinghaus**  
SPARE BLADES FOR SHEAR ART. 716G 8  
Upper blade.  
**717 8A** Each **120,00**  
Lower blade.  
**717 8B** Each **134,00**  
Blade for square steel.  
**717 8C** Each **84,30**  
Blade for round steel.  
**717 8D** Each **69,80**  
Profile detail.  
**717 8E** Each **120,00**  
Profile detail.  
**717 8F** Each **90,10**  
Profile detail.  
**717 8H** Each **230,00**

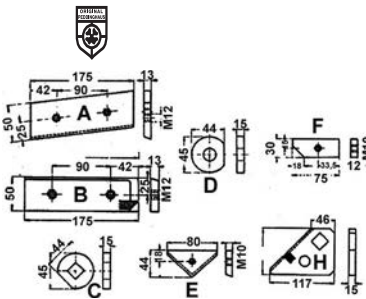
716G 10



**Orig. Peddinghaus - Art. Mod. 5 RP10**  
Product description as Art. 710G 8  
Suited to cut "L" and "T" profiles, sheet steel, flat, round and square iron in one step. Provided with sheet blades for "L" and "T" oblique cutting in 2 or 3 cuts. With lever.  
For sheets with thickness up to mm 10  
For flat iron up to mm 90x14  
For round iron up to Ø mm 22  
For square iron up to mm 20  
For L-shaped profile mm 60x7  
For T-shaped profile mm 60x7  
For metals cutting with R. kg/mmq 45  
Knives length mm 175  
Weight approx. Kg 107  
**716G 10** Each **2.960,00**

Product running out of stock.

717 10A  
717 10B  
717 10C  
717 10D  
717 10E  
717 10F  
717 10H



**Orig. Peddinghaus**  
SPARE BLADES FOR SHEAR ART. 716G 10  
Upper blade.  
**717 10A** Each **120,00**  
Lower blade.  
**717 10B** Each **134,00**  
Blade for square steel.  
**717 10C** Each **84,30**  
Blade for round steel.  
**717 10D** Each **69,80**  
Profile detail.  
**717 10E** Each **131,00**  
Profile detail.  
**717 10F** Each **90,10**  
Profile detail.  
**717 10H** Each **250,00**

**COMBINE SHEARING AND PUNCHING MACHINES**

**Orig. Peddinghaus - Art. Mod. 34 BR6P**

Rolled steel body. Ground parts subject to sliding. High-resistance galvanized steel blades.  
 Suitable for sheet steel, flat and round steel cutting and punching.  
 Safety device to avoid the accidental falling of the lever.  
 With lever.

For sheets with thickness up to	mm	6
For flat iron up to	mm	70x7
For round iron up to Ø	mm	13
Punched round bores by	mm	18x3.5
Span	mm	90
For metals cutting with R.	kg/mm <sup>2</sup>	45
Knives length	mm	180
Weight approx.	Kg	30

**720G** Each **1.100,00**

Punches and dies, see Art. 759A-B



**720G**

**2**

**Orig. Peddinghaus**

SPARE BLADES FOR SHEAR ART. 720G

Upper blade.

**721NA** Each **149,00**

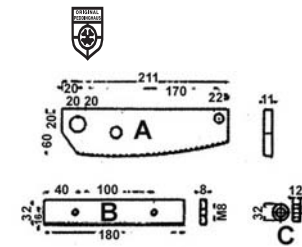
Lower blade.

**721NB** Each **78,50**

Blade for round steel.

**721NC** Each **26,20**

Punches and dies, see Art. 759A-B



**721NA**  
**721NB**  
**721NC**

**CONCRETE REINFORCING STEEL BAR SHEARS**

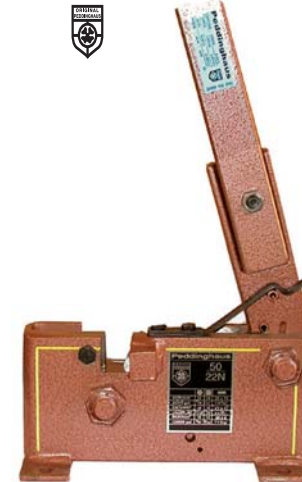
**Orig. Peddinghaus - Art. Mod. 50/22P**

P.A.M. models consist in a thick sheet steel monobox frame, welded and surrounding the cutting area. In these shears no flexion point was evident even when they undergo max. stress.  
 Lever holder with lever in hardened and tempered steel. Square blades in alloy steel, hardened according to the exclusive P.A.M. method, to be used on both cutting edges. P.A.M. shears are designed to limit the cutting stroke on pre-set values.  
 Equipped with accident-prevention device that avoids the accidental falling of the lever.

With lever

For round bore R kg mmq 45	mm	22
For round bore R kg mmq 65	mm	18
For round bore R kg mmq 85	mm	16
For square bore R kg mmq 45	mm	19
Knives length	mm	35
Weight approx.	Kg	22

**736G** Each **537,00**



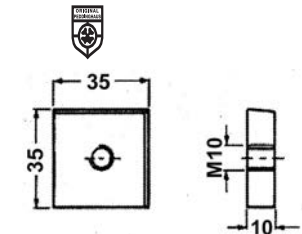
**736G**

**Orig. Peddinghaus**

SPARE BLADES FOR SHEAR ART. 736G

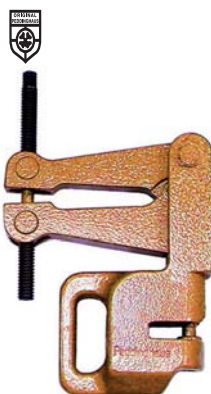
Dimensions mm 35x35x10

**736R** Per pair **157,00**



**736R**

## DUPLEX PUNCHING MACHINES

**754G 17**  
*new*

**Orig. Peddinghaus - Art. Mod. 27/250**

Fully forged steel composition. Easy to carry, for use even in places that are hard to reach. Can also be used on workbench (lock in grip).

Great punching force.

Punches and dies in high-resistance steel. (Supplied with 17 mm punch and die). With operating rod.

For bores and thicknesses up to mm 17x12

For material with R Kg/mm<sup>2</sup> 45

Span mm 50

Punching force KN 250

Weight Kg 19

<b>754G 17</b>	Each	<b>978,00</b>
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**755C**  
*new*

**755D**  
*new*

**Orig. Peddinghaus**

SPARE PUNCHES AS PER ART. 754 G 17

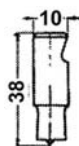
Punches - Ø connection 18 mm.

Ø	mm	8	9	10	11	12	13	14	15	16	17
<b>755C</b>	Each	30,80	30,80	30,80	30,80	30,80	30,80	30,80	30,80	30,80	30,80

SPARE MATRIXES AS PER ART. 754 G 17

Ø	mm	8	9	10	11	12	13	14	15	16	17
<b>755D</b>	Each	36,10	36,10	36,10	36,10	36,10	36,10	36,10	36,10	36,10	36,10

## SPARE PARTS FOR PUNCHING MACHINES

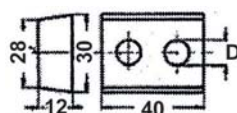
**759A**

**Orig. Peddinghaus**

SPARE PUNCHES FOR ART. 720G

Punches - connection Ø 10mm

Ø	mm	3	4	5	6	7	8	9	10
<b>759A</b>	Each	20,60	20,60	20,60	20,60	20,60	20,60	20,60	20,60

Ø	mm	11	12	13	14	15	16	17	18
<b>759A</b>	Each	30,80	30,80	30,80	30,80	30,80	30,80	30,80	30,80

**759B**


SPARE DIES FOR ART. 720G

Ø	mm	3	4	5	6	7	8	9	10
Bores	Nr	2	2	2	2	2	2	2	2
<b>759B</b>	Each	56,50	56,50	56,50	56,50	56,50	56,50	56,50	56,50

Ø	mm	11	12	13	14	15	16	17	18
Bores	Nr	1	1	1	1	1	1	1	1
<b>759B</b>	Each	51,40	51,40	51,40	51,40	51,40	51,40	51,40	51,40

## SCREW PUNCHES

**759GA**
**SCU**

**Prod. SCU**

Professional model with 3 penetration drills in hardened steel. Punching is achieved by pre-drilling a tip and by subsequently tightening the central screw.

Suitable for steel sheeting, aluminium, plastics, leather, rubber, etc.

Steel blade thickness 2mm up to Ø 30.5mm, 3mm up to Ø 54mm.

Aluminium blade thickness 2.5mm up to Ø 30.5, 3.5mm up to Ø 54mm.

For bores Ø	mm	12,5	12,7	15,2	16	18,6	20,4	20,5	22,5	25,4	25,5
For bores	PG	-	7	9	-	11	13	-	16	-	-
For bores	ISO	12	-	-	16	-	-	20	-	-	25
Pre-bore Ø	mm	9	9	9	9	9	13	13	13	13	13
Screw Ø	mm	8	8	8	8	8	12	12	12	12	12
<b>759GA</b>	Each	16,30	16,30	16,40	17,10	18,10	18,90	18,90	26,10	26,70	26,70

For bores Ø	mm	28,3	30,5	32,5	35	37	38	40,5	47	50,5	54
For bores	PG	21	-	-	-	29	-	-	36	-	42
For bores	ISO	-	-	32	-	-	-	40	-	50	-
Pre-bore Ø	mm	13	13	13	13	13	13	13	22	18	22
Screw Ø	mm	12	12	12	12	12	12	12	20	16	20
<b>759GA</b>	Each	28,50	29,10	31,70	33,10	33,30	33,30	36,30	51,20	52,30	54,40

SPARE SCREWS FOR ART. 759 GA.

In hardened steel quality 12.9.

Screw Ø	mm	8	12	16	20
Pitch		1	1,5	1,5	1,5
Length	mm	55	65	75	80
For Art. 759GA Ø	mm	12,5 to 18,6	20,4 to 40,5	50,5	47 e 54
<b>O759GA</b>	Each	5,18	9,10	11,30	14,20



Professional model with 3 penetration drills in special hardened steel, with ball bearing screws which substantially reduce your manual working time. Punching is achieved by pre-drilling a tip and by subsequently tightening the central screw.

Suitable for steel sheeting, aluminium, plastics, leather, rubber, etc.

Steel blade thickness 2mm up to Ø 30.5mm, 3mm up to Ø 54mm.

Aluminium blade thickness 2.5mm up to Ø 30.5, 3.5mm up to Ø 54mm.

For bores Ø	mm	12,5	12,7	15,2	16	18,6	20,4	20,5	22,5	25,4	25,5
For bores	PG	-	7	9	-	11	13	-	16	-	-
For bores	ISO	12	-	-	16	-	-	20	-	-	25
Pre-bore Ø	mm	9	9	9	9	9	13	13	13	13	13
Screw Ø	mm	8	8	8	8	8	12	12	12	12	12

<b>759GE</b>	<b>Each</b>	<b>21,20</b>	<b>21,20</b>	<b>21,60</b>	<b>22,10</b>	<b>23,10</b>	<b>23,80</b>	<b>23,80</b>	<b>31,50</b>	<b>31,20</b>	<b>31,20</b>
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For bores Ø	mm	28,3	30,5	32,5	35	37	38	40,5	47	50,5	54
For bores	PG	21	-	-	-	29	-	-	36	-	42
For bores	ISO	-	-	32	-	-	-	40	-	50	-
Pre-bore Ø	mm	13	13	13	13	13	13	13	22	18	22
Screw Ø	mm	12	12	12	12	12	12	12	20	16	20

<b>759GE</b>	<b>Each</b>	<b>33,90</b>	<b>34,60</b>	<b>37,10</b>	<b>38,50</b>	<b>38,80</b>	<b>38,80</b>	<b>41,80</b>	<b>60,10</b>	<b>61,10</b>	<b>70,10</b>
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SPARE SCREWS WITH BEARINGS FOR ART. 759 GE.

In hardened steel quality 12.9.

Screw Ø	mm	8	12	16	20
Pitch		1	1,5	1,5	1,5
Length	mm	55	65	75	80
For Art. 759GE Ø	mm	12,5 to 18,6	20,4 to 40,5	50,5	47 e 54

<b>O759GE</b>	<b>Each</b>	<b>11,30</b>	<b>15,40</b>	<b>19,90</b>	<b>25,70</b>
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### ASSORTED PUNCHES

#### Prod. SCU

Suitable for installers. Features in accordance with Art. 759 GA, comes in a practical, sturdy, plastic casing.

Contents:

6 screwless punches Ø 12.5 (ISO 12) - 16 (ISO 16) - 20.5 (ISO 20) - 25.5 (ISO 25) - 32.5 (ISO 32) - 40.5 (ISO 40) mm

2 screws Art. O759 GA 8 - 12

<b>759GM</b>	<b>Each</b>	<b>138,00</b>
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**759GM**


Product description as Art. 759GM

Contents:

6 screwless punches Ø 12.7 (PG 7) - 15.2 (PG 9) - 18.6 (PG 11) - 20.4 (PG 13) - 22.5 (PG 16) - 28.3 (PG 21) mm

2 screws Art. O759 GA 8 - 12

<b>759GP</b>	<b>Each</b>	<b>116,00</b>
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**759GP**


## SCREW PUNCHES

760GF

SCU



Prod. SCU

Industrial type with 3 hardened steel penetration tips. Punching is obtained through a tipped pre-hole and later central screwing. Suitable for steel, aluminium, plastic, leather, rubber, etc.

For bores Ø	mm	12,7	14	15,2	16	17	18	18,6	19	20	20,4	21	22	22,5	23	24	25
Pre-bore Ø	mm	10	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Screw Ø	mm	8	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10
<b>760GF</b>	<b>Each</b>	<b>29,10</b>	<b>29,10</b>	<b>29,10</b>	<b>29,10</b>	<b>31,10</b>	<b>31,10</b>	<b>32,60</b>	<b>32,60</b>	<b>32,60</b>	<b>32,60</b>	<b>32,60</b>	<b>35,70</b>	<b>35,70</b>	<b>35,70</b>	<b>35,70</b>	<b>39,10</b>
For bores Ø	mm	26	27	28,3	29	30	31	32	33	34	35	36	37	38	39	40	41
Pre-bore Ø	mm	12	12	14,5	14,5	14,5	14,5	14,5	14,5	14,5	14,5	14,5	14,5	14,5	14,5	14,5	20
Screw Ø	mm	10	10	12	12	12	12	12	12	12	12	12	12	12	12	12	16
<b>760GF</b>	<b>Each</b>	<b>39,10</b>	<b>39,10</b>	<b>39,10</b>	<b>43,40</b>	<b>43,40</b>	<b>43,40</b>	<b>43,40</b>	<b>50,10</b>	<b>50,10</b>	<b>50,10</b>	<b>50,10</b>	<b>50,10</b>	<b>50,10</b>	<b>50,10</b>	<b>68,50</b>	<b>68,50</b>
For bores Ø	mm	42	43	44	45	46	47	48	49	50	51	52	53	54	55	60	
Pre-bore Ø	mm	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Screw Ø	mm	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
<b>760GF</b>	<b>Each</b>	<b>74,70</b>	<b>74,70</b>	<b>74,70</b>	<b>81,30</b>	<b>81,30</b>	<b>81,30</b>	<b>89,20</b>	<b>89,20</b>	<b>89,20</b>	<b>97,80</b>	<b>97,80</b>	<b>97,80</b>	<b>106,00</b>	<b>106,00</b>	<b>131,00</b>	

SPARE SCREWS FOR ART. 760 GF. In hardened steel.

Screw Ø	mm	8	10	12	16
Pitch		1	1	1,5	1,5
For Art. 759GF Ø	mm	12,7 to 14	15,2 to 27	28,3 to 40	41 to 60
<b>O760GF</b>	<b>Each</b>	<b>1,30</b>	<b>2,04</b>	<b>2,46</b>	<b>3,34</b>

## ASSORTED PUNCHES

760GFA  
760GFB

SCU



Prod. SCU

Suitable for installers. Same features as Art. 760 GF, in practical, rugged case of synthetic material.

Contents:

6 screwless punches Ø 15.2-18.6-20.4-22.5-28.3-32mm

2 screws supplied Art. O760 GF 10 - 12

With countersink and grease

**760GFA** Each **319,00**

Product description as Art. 760GFA

Contents:

8 screwless punches Ø 15.2-18.6-20.4-22.5-28.3-37-47-54mm

3 screws supplied Art. O760 GF 10 - 12 - 16

With countersink and grease

**760GFB** Each **526,00**

## OIL-HYDRAULIC PUNCHERS

760GH

BAUDAT



Orig. Baudat - Art. 50-099 (Mod. L S6)

Pistol grip type.

Lever hydraulic control, mono-hand, with rapid movement.

Operating parts in hardened steel, reinforced sheet arms, ergonomic and insulated handles.

Complete with 2 punch holder pins, adaptor and spacer.

Punching strength approx. 60 kN (6 t.).

Complete body without punches and dies.

Punches Ø by mm 15.2 to 100

Punches sheet max. thickness mm 3

Length mm 340

Weight Kg 2.4

**760GH** Each **792,00**

Spare pin (3/8x24 UNF) for punches and dies from Ø 15.2mm to 33mm.

**O760GH 1** Each **19,80**

Spare pin (3/4x16 UNF) for punches and dies from Ø 35mm to 100mm.

**O760GH 2** Each **46,20**

Spare adapter for pin Art. 0760 GH 1, with external 3/4x16 UNF thread.

**O760GH 3** Each **13,10**

Spare spacer for punching machines Art. 760 GH - 760 GH 8.

**O760GH 4** Each **16,30**

When stocks are depleted, we will provide it with handles black instead of yellow.

**Orig. Baudat - Art. 50-616 (Mod. L S8)**

Straight universal type.

Lever hydraulic control, with reduced strain movement (Particularly suitable for large diameters).

Operating parts in hardened steel,

reinforced sheet arm, insulated handle. Complete with 2 punch holder pins, adapter and spacer.

Punching strength approx. 60 kN (6 t.).

Complete body without punches and dies.

Punches Ø by	mm	15,2 to 100
Punches sheet max. thickness	mm	3
Length	mm	335
Weight	Kg	2,6

**760GH 8** Each **939,00**

Spare pins see Art. 0760 GH 1-0760 GH 2. Spare adapter and spacer see Art. 0760 GH 3 – 0760 GH 4.

**BAUDAT**

**760GH 8**



**2**

**Orig. Baudat - Art. 62-103/104/105**

PUNCHES AND DIES FOR ART. 760 GH – 760 GH 8 – 760 GV

In hardened special steel. Up to Ø 33mm with threaded hole 3/8" x 24UNF. From Ø 35mm with threaded hole 3/4" x 16UNF.

Supplied in couples.

**BAUDAT**

**760GL  
760GM**



For bores Ø	mm	15,2	16	16,2	18,6	19	20	20,4	21	22	22,5	24	25	26	27
<b>760GL</b>	Per pair	43,90	55,80	56,10	55,40	68,10	69,90	56,80	68,40	83,60	58,10	83,60	103,00	73,60	76,10
For bores Ø	mm	28,3	30	30,5	32	33	35	37	40	42	43,2	45	47	50	54
<b>760GL</b>	Per pair	64,10	80,10	67,90	138,00	140,00	146,00	83,50	155,00	162,00	162,00	217,00	126,00	202,00	145,00
For bores Ø	mm	55	59,3	60	65	70	80	90	100						
<b>760GL</b>	Per pair	213,00	161,00	220,00	277,00	278,00	321,00	773,00	832,00						

Attention: from 18.6mm to 100mm, punches and dies are equipped with elastic insert for better guided cutting and longer working life.

Available on request: couples of punches and dies, square and rectangular. PG punches and dies sizes are the following

**Orig. Baudat - Art. 62-103/104/105**

Product description as Art. 760GL

In hardened special steel. Metric measures up to Ø 32,5mm with threaded hole

3/8" x 24UNF. From Ø 40,5mm with threaded hole 3/4" x 16UNF.

Supplied in couples.

For bores Ø	mm	16,5	20,5	25,5	32,5	40,5	50,5	63,5
For screws and pivots	M.	16	20	25	32	40	50	63
<b>760GM</b>	Per pair	43,90	56,80	58,80	70,40	85,90	130,00	163,00

Attention: from 20,5mm to 63,5mm the punches and dies are equipped with elastic insert for better guided cutting and longer working life.

**Orig. Baudat - Art. 50-606**

STANDARD assortment for plumbers, electricians, sanitary installers, etc.

The set contains:

1 complete puncher Art. 760 GH with punch holder pin.

1 couple for each measure of punches and dies Art. 760 GL from mm. 15,2-18,6-20,4-22,5-28,3-30,5 complete with elastic insert (except for 15,2mm).

In case.

**760GN** Each **1.190,00**

**Orig. Baudat - Art. 50-603**

Product description as Art. 760GN

The set contains:

1 complete puncher Art. 760 GH 8 with punch holder pin.

1 couple for each measure of punches and dies Art. 760 GL from mm. 15,2-18,6-20,4-22,5-28,3-30,5 complete with elastic insert (except for 15,2mm).

In case.

**760GP** Each **1.370,00**

**Orig. Baudat - Art. 50-607**

Assortment with metric measures, suitable for carpenters, mechanics, workshops, etc.

The set contains:

1 complete puncher Art. 760 GH with punch holder pin.

1 couple for each measure of punches and dies Art. 760 GM from mm. 16,5-20,5-25,5-32,5 - 40,5 complete with elastic insert (except for 16,5mm).

In case.

**760GR** Each **1.210,00**

When stocks are depleted, we will provide it with handles black instead of yellow.

**BAUDAT**

**760GN  
760GP  
760GR**



**OIL-HYDRAULIC PUNCHING MACHINES FOR INOX**

760GR 3

BAUDAT

INOX



O760GR 3



O760GR 5



O760GR 3

**Orig. Baudat - Art. 50-618 (Mod. LS 8 HD)**

Particularly suitable for stainless steel. Lever-hydraulic control.

Hardened steel operating parts, reinforced steel arm and insulated ergonomic handle. Complete with 3 punch holder pins.

Punching strength approx. 80 kN (8 t.).

Only complete body without punches and dies.

Punches Ø by mm 16,2 to 68

Punches stainless steel sheet thickness mm 2,5

Length mm 335

Weight Kg 2,6

<b>760GR 3</b>	<b>Each</b>	<b>1.230,00</b>
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Spare pins for punches and dies Ø 16.2mm and 18.6mm.

<b>O760GR 3</b>	<b>Each</b>	<b>32,90</b>
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Spare pins for punches and dies Ø 20.4mm and 30.5mm.

<b>O760GR 5</b>	<b>Each</b>	<b>27,10</b>
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Spare pins for punches and dies Ø 37mm and 68mm.

<b>O760GR 7</b>	<b>Each</b>	<b>56,30</b>
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760GS 3

BAUDAT

INOX

**Orig. Baudat**

PUNCHES AND DIES FOR ART. 760 GR/3 – 760 GV/1

In hardened special steel.

For bores Ø	mm	16,2	18,6	20,4	22,5	28,3	30,5	37
<b>760GS 3</b>	<b>Per pair</b>	<b>73,10</b>	<b>75,90</b>	<b>61,10</b>	<b>63,80</b>	<b>67,10</b>	<b>72,50</b>	<b>148,00</b>

For bores Ø	mm	47	54	68
<b>760GS 3</b>	<b>Per pair</b>	<b>168,00</b>	<b>196,00</b>	<b>253,00</b>

760GT 3

BAUDAT

INOX

**Orig. Baudat - Art. 50-602**

STANDARD assortment for plumbers, electricians, sanitary installers, etc.

The set contains:

1 complete puncher Art. 760 GR 3 with punch holder pin.

1 couple for each measure of punches and dies Art. 760 GS 3 20.4-22.5-28.3-30.5mm.

In case.

<b>760GT 3</b>	<b>Each</b>	<b>1.520,00</b>
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**OIL-HYDRAULIC PUNCHERS**

760GV

BAUDAT

**Orig. Baudat - Art. 50-036 (Mod. STAMP 10)**

Universal type, head separated from hydraulic pump for use also in confined areas. Operating parts in hardened steel.

Complete with 2 punch holder pins, adapter and spacer.

Punching strength approx. 100 kN (10 t.).

Only complete body without punches and dies and without pump.

Punches Ø by mm 15,2 to 100

Punches sheet thickness mm 3

Length mm 114

Weight Kg 1,6

<b>760GV</b>	<b>Each</b>	<b>715,00</b>
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Punches and dies see Art. 760 GL. Spare pins see Art. 0760 GH/1-2. Spare adapter and spacer see Art. 0760 GH 3 – 0760 GH 4.

**OIL-HYDRAULIC PUNCHING MACHINES FOR INOX**

760GV 1

BAUDAT

INOX

**Orig. Baudat - Art. 50-069 (Mod. STAMP8 HD)**

Universal type, head separated from hydraulic pump for use also in confined areas. Operating parts in hardened steel.

Complete with 3 punch holder pins. Punching strength approx. 80 kN (8 t.).

Only complete body without punches and dies and without pump.

Punches Ø by mm 16,2 to 68

Punches stainless steel sheet thickness mm 3

Length mm 101

Weight Kg 1,5

<b>760GV 1</b>	<b>Each</b>	<b>683,00</b>
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Punches and dies see Art. 760 GS 3. Spare pins see Art. 0760 GR/3-5-7.

**OIL-HYDRAULIC PUMPS**

**Orig. Baudat - Art. 50-182 (Mod. HHP 8) + Art. 50-219**

For hand use in confined areas. Operating parts in hardened steel. Complete with pipe, length 0,5m. Pressure 450 bar.

Pump with tube for Art. 760 GV – 760 GV 1.

Length mm 240

Weight Kg 1.1

**760GV 3** Each **721,00**



**760GV 3**

**2**

**Orig. Baudat - Art. 50-134 (Mod. HFP 12) + Art. 00-117.01**

For foot use in high areas up to approx. m. 2 and where both hands are required to be free. Operating parts in hardened steel. Complete with support plate and pipe length 3,5 m. Pressure 450 bar.

Pump with tube for Art. 760 GV – 760 GV 1.

Length mm 340

Weight Kg 2.5

**760GV 5** Each **1.210,00**



**760GV 5**

**Orig. Baudat - Art. 50-080 (Mod. HMP 1E) + Art. 50-248**

Electric motor type for continuous working.

230 Volt mono-phase current – 50 Hz.

Complete with pipe length 2,5 m and pedal control. Pressure 450 bar.

Pump with tube and pedal for Art. 760 GV – 760 GV 1.

Dimensions mm 250x140x260

Weight Kg 8.5

**760GV 8** Each **4.120,00**



**760GV 8**

**OIL-HYDRAULIC PUNCHING MACHINES IN SETS**

**Orig. Baudat**

STANDARD assortment for plumbers, electricians, sanitary installers, electric systems installers, etc.

The set contains:

1 complete puncher Art. 760 GV with punch holder pin.

1 couple for each measure of punches and dies Art. 760 GL from mm. 15,2-18,6-20,4-22,5-28,3-

30,5 complete with elastic insert (except for 15,2mm)

1 hand pump with pipe Art. 760 GV 3.

In case.

**760GV 10** Each **1.870,00**



**760GV 10**

Product description as Art. 760GV 10

The set contains:

1 complete puncher Art. 760 GV with punch holder pin.

1 couple for each measure of punches and dies Art. 760 GL from mm. 15,2-18,6-20,4-22,5-28,3-

30,5 complete with elastic insert (except for 15,2mm)

1 foot pump with pipe Art. 760 GV 5.

In case.

**760GZ** Each **2.350,00**



**760GZ**

**OIL-HYDRAULIC PUNCHING MACHINES IN SETS**
**760GZ 3****BAUDAT****INOX****Orig. Baudat**

Product description as Art. 760GV 10

The set contains:

1 complete puncher Art. 760 GV 1, with 1 punch holder pin.

1 couple for each measure of punches and dies Art. 760 GS 3 from mm. 20,4-22,5-28,3-30,5

1 hand pump with pipe Art. 760 GV 3.

In case.

<b>760GZ 3</b>	Each	<b>1.720,00</b>
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**760GZ 5****BAUDAT****INOX**

Product description as Art. 760GV 10

The set contains:

1 complete puncher Art. 760 GV 1, with 1 punch holder pin.

1 couple for each measure of punches and dies Art. 760 GS 3 from mm. 20,4-22,5-28,3-30,5

1 foot pump with pipe Art. 760 GV 5.

In case.

<b>760GZ 5</b>	Each	<b>2.200,00</b>
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**BAR BENDERS**
**761****SCU****Prod. SCU**

In forged and hardened steel.

Double end model.

For round iron up to Ø

Overall length

	mm	6-8	10-12	14-16	18-20
For round iron up to Ø	mm	400	500	600	690

<b>761</b>	Each	<b>8,36</b>	<b>13,20</b>	<b>18,30</b>	<b>27,70</b>
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**LEVER BAR BENDERS**
**764****SCU****Prod. SCU**

Steel body. Hardened pins.

Iron up to max.Ø 24mm.

<b>764</b>	Each	<b>98,70</b>
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**COMBINED DEVICES FOR BENDING**
**766A****SCU****Prod. SCU**

Professional combined model: bar bender, iron curver and spiral bender. Body in semisteel cast iron, hardened operating parts.

Basic unit to be used together with accessories Art. 766 B-C-D. Weight 30kg.

Basic element only.

<b>766A</b>	Each	<b>1.210,00</b>
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**766B****SCU**

Bar bender tool, for steel with R up to 45 kg/sqmm, to be used together with basic unit Art. 766 A. Weight 8.5kg.

Tool only.

Fine plate cold bending

Fine round cold bending

Fine square cold bending

	mm	100x7	25	23
Fine plate cold bending	mm	100x7	25	23

<b>766B</b>	Each	<b>942,00</b>
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Iron curver, for steel with R up to 45 kg/sqmm, diam. from 28mm to 200mm. To be used together with basic unit Art. 766 A. Weight 10.5kg. The tool is supplied with mould-holder centre pin Ø 28mm that can also be used as a mould.

Tool complete with Ø 100mm mould only.

Fine plate cold bending	mm	50x15
Fine round cold bending	mm	25
Fine square cold bending	mm	23

**766C** Each **877,00**

Data refer to a bending Ø of 100mm.

**INCLUDED AND SPARE DIES**

Ø	mm	40	50	60	70	80	90	100	150	200
<b>O766C</b>	<b>Each</b>	<b>156,00</b>	<b>156,00</b>	<b>189,00</b>	<b>189,00</b>	<b>189,00</b>	<b>189,00</b>	<b>189,00</b>	<b>189,00</b>	<b>214,00</b>

SCU



766C

2

Spiral bender tool, suited for steel with R up to 45 kg/sqmm, to be used together with basic unit Art. 766 A. Supplied with 5 different moulds (4 to 12 mm).

Weight 7.5kg.

Tool with moulds only.

Bends fine cold plate	mm	30x12
Fine round cold bending	mm	12
Fine square cold bending	mm	12

**766D** Each **841,00**

SCU



766D

**UNIVERSAL IRON BENDERS**

**Orig. Gedore - Art. 280100**

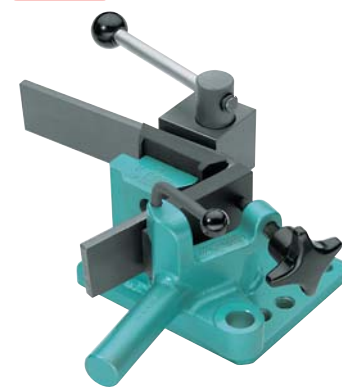
Heavy-duty model with lock and cam. Cast steel body. Hardened steel tools. Suitable for flat, round and square steel, copper and aluminium bending with R up to 370 N/sqmm (copper up to R 250 N/sqmm, aluminium up to R 160 N/sqmm). The Ø 1 1/4 bending handle can be extended with a tube.

Bar bender with tool Art. 774 RB.

Bends fine cold plate	mm	100x10
Fine plate hot bending	mm	100x20
Square/round cold bending	mm	22/25
Square/round hot bending	mm	30
Fine L-shaped iron cold bending	mm	100x10
Fine L-shaped iron hot bending	mm	100x12
Weight approx.	Kg	28

**774G** Each **1.990,00**

GEDORE



774G

**Orig. Gedore - Art. 280117**

ADDITIONAL TOOLS FOR ART. 774 G.

Multiple bends.

**774RA** Each **456,00**

GEDORE



774RA

**Orig. Gedore - Art. 280111**

Product description as Art. 774RA

Sharp and round edge bending tool.

**774RB** Each **210,00**

GEDORE



774RB

**Orig. Gedore - Art. 280115**

Product description as Art. 774RA

Square steel edge bending tool.

**774RD** Each **249,00**

GEDORE



774RD

**774RE** 

**Orig. Gedore - Art. 280112**

Product description as Art. 774RA

Round edge bending tool.

<b>774RE</b>	Each	<b>340,00</b>
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**774RH** 

**Orig. Gedore - Art. 280114**

Product description as Art. 774RA

Mould for right-angle small bends.

<b>774RH</b>	Each	<b>187,00</b>
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**DRAIN CLEANERS PUMPS, HAND OPERATED**
**774S** 

**Prod. SCU**

To clean pipelines and perform system leak tests.

For manual or compression use at pressures of up to 8 bar. Pressure gauge up to 12 bar.

Pump complete with pipe, 2 conical clutches and 1 splash guard Ø 21 to 170mm.

Weight	Kg	8
<b>774S</b>	Each	<b>225,00</b>

**HYDRAULIC PUMPS FOR INSTALLATION TESTING**
**774T** 

**60 bar**
**Prod. SCU**

Sturdy construction with painted steel tank.

Complete with pipe and cylindrical 1/2" Gas connection. Capacity 12 litres.

For maximum pressure up to 60 bar.

Weight	Kg	7
<b>774T</b>	Each	<b>235,00</b>

**774TG** 

**60 bar**

Sturdy construction with stable painted steel basin tank.

Complete with pipe and cylindrical 1/2" Gas connection. Capacity 12 litres.

For maximum pressure up to 60 bar.

Weight	Kg	7
<b>774TG</b>	Each	<b>222,00</b>

**774TL** 

**120 bar**

Industrial type for high pressures.

Sturdy construction with stable basin tank.

Complete with pipe and cylindrical 1/2" Gas connection. Capacity 12 litres.

For maximum pressure up to 120 bar.

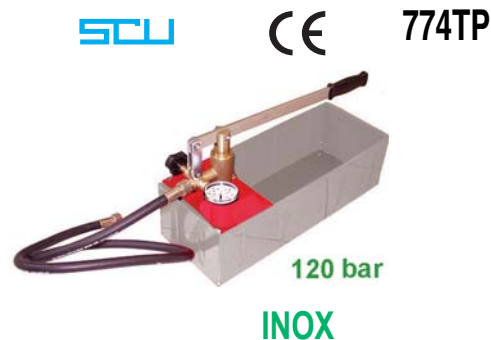
Painted sheet steel tank.

Weight	Kg	7
<b>774TL</b>	Each	<b>284,00</b>



Industrial type for high pressures.  
 Sturdy construction with stable basin tank.  
 Complete with pipe and cylindrical 1/2" Gas connection. Capacity 12 litres.  
 For maximum pressure up to 120 bar.  
 V2A stainless steel sheet tank.

Weight		Kg	8
<b>774TP</b>	Each		<b>363,00</b>



2

**GULLY PUMPS**

**Prod. SCU**

Syring-type made of sturdy synthetic material.  
 Complete with narrow adaptor union and wide suction cup Ø 100mm.

Length		mm	450
<b>774V</b>	Each		<b>17,10</b>



**PIPE CLEANER SPRINGS**

**Prod. SCU**

Coil in hardened steel, zinc-coated. Wooden handle with coil ending.  
 To clean clogged pipes of sinks, toilets and water traps.  
 Spring coil diameter 5mm.

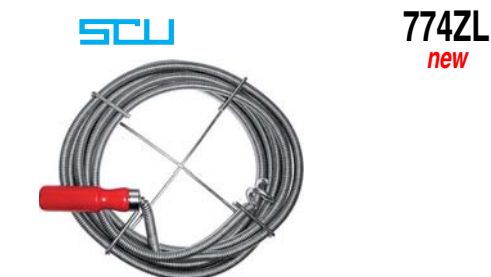
Overall length		m	1,5	2,5	3,5
<b>774Z</b>	Each		<b>4,54</b>	<b>7,02</b>	<b>8,84</b>



Sturdy spiral made of hardened steel, flexible, galvanized. Fixed wooden handle and spiral terminal.

To free clogged pipes of toilets, drains, sinks, baths and siphons, etc.  
 Diameter of spring spiral 7 mm.

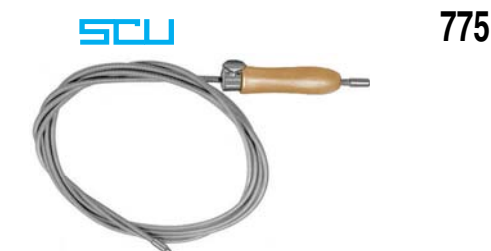
Overall length		m	5	7	10
<b>774ZL</b>	Each		<b>20,50</b>	<b>27,80</b>	<b>37,50</b>



Top quality model with double coil in hardened steel, very flexible, zinc-coated. Adjustable wooden handle with crab-shaped ending. To clean clogged pipes of WC, drainage, sewers, sinks, water traps, etc.

Spring coil diameter 7mm.

Overall length		m	5	8	10
<b>775</b>	Each		<b>36,60</b>	<b>50,50</b>	<b>58,50</b>



Spring type with manual rotation and extraction.  
 Supplied in box, with handle. Plastic handle and coil ending.  
 Spring coil diameter 6mm.  
 Spring length 4.6m.

<b>775GA</b>	Each	<b>24,60</b>
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775GB

SCU



Spring type, spring in special zinc-plated steel, hardened, abrasion and corrosion resistant up to 1960 N/mm<sup>2</sup>. Very sturdy construction with double coil and double winding. Extensible through extensions Art. 775 GD. Complete with handwheel, hand protector, spring and coil Art. 775 GE.

Length 5m. Threaded connector Ww 1/2.

Spring Ø	mm	10	12	16
For pipes Ø	mm	40-70	50-100	100-200
<b>775GB</b>	<b>Each</b>	<b>63,90</b>	<b>67,10</b>	<b>90,90</b>

For scrapers see 1836 G from 32mm to 101 and Art. 1837 G all dimensions available.

775GD  
775GDA

SCU



EXTENSIONS FOR ART. 775 GB.

Length 5m. Threaded connector Ww 1/2.

For springs Ø	mm	10	12	16
<b>775GD</b>	<b>Each</b>	<b>43,90</b>	<b>53,90</b>	<b>67,50</b>

Product description as Art. 775GD

Length 5m. Threaded connector Ww 1/2.

For springs Ø	mm	10	12	16
<b>775GDA</b>	<b>Each</b>	<b>80,30</b>	<b>97,60</b>	<b>125,00</b>

775GE

SCU



SPARE TERMINALS.

Spiral-type for universal use. Threaded connector Ww 1/2.

For springs Ø	mm	10	12	16
<b>775GE</b>	<b>Each</b>	<b>7,70</b>	<b>8,18</b>	<b>8,52</b>

775GF

SCU



Product description as Art. 775GE

Conical sphere type suited to clean bent pipes. Threaded connector Ww 1/2.

For springs Ø	mm	10	12	16
<b>775GF</b>	<b>Each</b>	<b>7,24</b>	<b>7,24</b>	<b>8,18</b>

775GH

SCU



Product description as Art. 775GE

Triple-hook type, suitable for stout pipe occlusions. Threaded connector Ww 1/2.

For springs Ø	mm	10	12	16
<b>775GH</b>	<b>Each</b>	<b>14,90</b>	<b>15,70</b>	<b>15,70</b>

Size mm 12 running out of stock.

EXPANDING AND CALIBRATING PLIERS

775L

SCU



Prod. SCU

Universal circular type with six sizes of combs to clean radiator fins.

With plastic handgrip.

Number of fins per inch: 8-9-10-12-14-15.

<b>775L</b>	<b>Each</b>	<b>24,10</b>
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TUBE EXPANDERS

775P

SCU



Prod. SCU

Self-centring fixing plates. In special steel, hardened operating parts.

Expanders	mm	10	12	14	15	16	18	22
<b>775P</b>	<b>Each</b>	<b>71,60</b>	<b>71,60</b>	<b>71,60</b>	<b>71,60</b>	<b>71,60</b>	<b>71,60</b>	<b>71,60</b>

Expanders	mm	28
<b>775P</b>	<b>Each</b>	<b>89,50</b>

Tube expanding pliers Art.775P. Hardened steel operating parts, synthetic material ergonomic handles.

**775R** Each **239,00**

**SCU**

**775R**



**2**

Assortment suitable for plumbers, electricians, installers, etc.

The set contains:

4 expanding tools Art. 775P 12-14-18-22mm.

1 plier Art. 775R

1 Art. 1055GA

1 Art. 1080G

In box.

**775S** Each **507,00**

**SCU**

**775S**



**EXPANDING AND CALIBRATING PLIERS**

**Prod. SCU**

Pliers device, practical and handy for expanding and calibrating annealed copper pipes, max thickness 1mm and plastic (polypropylene) pipes. Also used as blocking clamp for pipe lengths to be worked. Rubber covered folding handles, for comfortable use and minimum space requirement. Total length 210mm. Weight 0.5Kg.

For pipes Ø 10-12-14-16-18-20-22mm.

**775V** Each **82,50**

**SCU**

**775V**



**EXPANDING AND CALIBRATING PLIERS**

**Orig. Gedore - Art. 373**

In special steel, 5 adjustments from 0° to 180° to set by pressing the special pin.

For hot flanging of pipes to be welded. For cold flanging of lead pipes.

With spring.

Mouth depth	mm	<b>20</b>	<b>30</b>
Mouth opening	mm	5,5	6
Overall length	mm	290	300

**775Z** Each **58,10** **58,10**

**GEDORE**

**775Z**



Product running out of stock.

**FLARING TOOLS**

**Prod. SCU**

Device used for 90° flaring copper, brass, aluminium and light metal pipes.

Made up of a device, 1 die to obtain a 90° flaring angle and pipe clamp.

Flaring tool complete with clamp for pipes Ø 4-4.75-6-8-10-12-14mm.

**776G** Each **64,10**

**SCU**

**776G**  
**776GA**



Product description as Art. 776G

Flaring tool complete with clamp for pipes Ø 3/16-1/4-5/16-3/8-7/16-1/2-5/8 inches.

**776GA** Each **64,10**

**Orig. Gedore - Art. 2330**

Professional device for 90° and 180° simple flaring of copper, brass, aluminium and light metal pipes.

Made up of a device, 1 die to obtain a 90° flaring angle, 1 additional punch to obtain a 180° flaring angle and 1 pipe clamp.

Flaring tool complete with clamp for pipes Ø 4 - 4.75 - 6 - 8 - 10 - 12 - 14mm.

**776GAB** Each **182,00**

**GEDORE**

**776GAB**  
**776GAC**  
**776GAD**

Product description as Art. 776GAB

Flaring tool complete with clamp for pipes Ø 15 - 16 - 17 - 18 - 19mm.

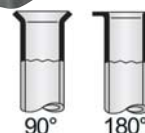
**776GAC** Each **182,00**



Product description as Art. 776GAD

Flaring tool complete with clamp for pipes Ø 3/16 - 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 5/8 - 3/4 inch.

**776GAD** Each **206,00**



## TOOLS FOR PIPE SETS

**776GAE**  
**776GAF**

**SCU**



**Prod. SCU**

Set of tools for cutting, bending and trimming copper, brass, aluminium and light metal pipes. Ideal for refrigeration engineers, air conditioning system technicians, plumbers etc.

The set consists of:

- 1 pipe flaring tool Art. 776 G
  - 4 pipe bending springs 10-12-14-16mm
  - 1 pipe cutter from 3mm to 32
- Complete set available in plastic case.

**776GAE** Each **139,00**

Product description as Art. 776GAE

The set consists of:

- 1 pipe flaring tool Art. 776 GA
  - 4 pipe bending springs 5/16-3/8-1/2-5/8 inches
  - 1 pipe cutter from 1/8 to 1.1/4 inches
- Complete set available in plastic case.

**776GAF** Each **139,00**

**776GAH**  
**776GAH 3**  
**776GAH 5**

**GEDORE**



**Orig. Gedore - Art. 233301**

Product description as Art. 776GAE

The set consists of:

- 1 pipe flaring tool Art. 776 GAB
  - 1 automatic feeding pipe cutter Ø 4 to 32mm
- Complete set available in metal case.

**776GAH** Each **336,00**

**Orig. Gedore - Art. 233309**

Product description as Art. 776GAE

Comprises:

- 1 pipe finisher Art. 776 GAC
  - 1 pipe cutter with automatic advance for pipes Ø 4 to 32mm
- Complete set in metal box.

**776GAH 3** Each **336,00**

**Orig. Gedore - Art. 233307**

Product description as Art. 776GAE

Comprises:

- 1 pipe finisher Art. 776 GAD
  - 1 pipe cutter with automatic advance for pipes Ø 4 to 32mm
- Complete set in metal box.

**776GAH 5** Each **360,00**

## FLARING TOOLS

**776GL**  
**776GLA**

**SCU**



**Prod. SCU**

Professional device, strong clamping, automatic centring and pipe eccentric clamping. For flaring copper, brass, aluminium and light metal pipes.

Made up of a device, 1 die to obtain a 90° flaring angle, pipe clamp with pliers clamping and rotating jaws. Total length 230mm.

Complete flaring tool for pipes Ø 6-8-10-12-14-15mm.

**776GL** Each **118,00**

Product description as Art. 776GL

Complete flaring tool for pipes Ø 3/16-1/4-5/16-3/8-1/2-5/8 inches.

**776GLA** Each **118,00**

**FLARING TOOLS**

**Orig. Gedore - Art. 234001**

Professional tool for 90° and 180° double flaring of copper, brass, aluminium and light metal pipes according to DIN74234. Suitable for thin-drawn tubes and rolled pipes, Bundy type. The tool is used closed in a clamp.

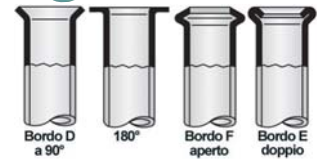
The set consists of:

- No.1 base unit
  - No.1 90° pressure roll
  - No.1 180° pressure roll
  - No. 6 punches 4.75 - 5 - 6 - 8 - 9 - 10mm
  - No.1 pipe clamp Ø 4.75 - 5 - 6 - 8 - 9 - 10mm
  - No.1 pipe cutter for pipe Ø 4 to 16mm
  - No.1 flaring cutter for inside/outside pipes Ø 4 to 32mm
- Complete set available in metal case.

**776GMA** Each **562,00**



**776GMA**



2

**Orig. Gedore - Art. 234000**

SPARES FOR DOUBLE FLARING TOOLS

Base unit.

**776GME** Each **206,00**



**776GME**



**Orig. Gedore**

SPARES FOR DOUBLE FLARING TOOLS

Pressure rolls complete with spacers.

Type	1	2
Supplier code	234790	234801
<b>776GMF</b>	Each <b>12,90</b>	<b>12,90</b>



**776GMF**



Product description as Art. 776GMF

Punches.

For pipes Ø	mm	4,75	5	6	8	9	10
Supplier code		234204	234205	234206	234208	234209	234210
<b>776GML</b>	Each	<b>15,50</b>	<b>15,50</b>	<b>15,50</b>	<b>15,50</b>	<b>15,50</b>	<b>15,50</b>



**776GML**



**Orig. Gedore - Art. 234101**

Product description as Art. 776GMF

Pipe clamp.

For pipes Ø	mm	4,75 to 10
<b>776GMP</b>	Each	<b>178,00</b>



**776GMP**



**776GMR** 

**Orig. Gedore - Art. 234901**

Product description as Art. 776GMF

Metal case.

<b>776GMR</b>	Each	<b>65,50</b>
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**TUBING BENDER SPRINGS**
**776GS**


**Prod. SCU**

For external use. In steel wires for springs. For cold bending of annealed copper pipes.

For pipes Ø	mm	<b>8</b>	<b>10</b>	<b>12</b>	<b>15</b>	<b>16</b>	<b>18</b>	<b>22</b>
Overall length	mm	250	270	300	300	300	250	250
<b>776GS</b>	Each	<b>3,40</b>	<b>4,08</b>	<b>4,18</b>	<b>4,28</b>	<b>4,50</b>	<b>9,46</b>	<b>9,56</b>

Size mm 16 running out of stock.

**777B**

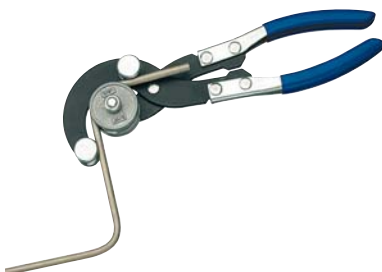


For use inside the pipe. In steel wires for springs. With two extraction rings.

For cold bending of annealed copper pipes. Total length about mm. 1100.

Spring Ø	mm	<b>9</b>	<b>11</b>	<b>13</b>	<b>15</b>
<b>777B</b>	Each	<b>4,12</b>	<b>4,50</b>	<b>4,88</b>	<b>5,62</b>

**TUBING BENDERS FOR LIGHT METALS**
**777E**


**Orig. Gedore - Art. 2415**

Steel pliers model with nickel-plated and plastic handles which are suitable for mechanical workshops.

Can rotate DIN EN 1057 cooper pipes from 0° a 90°, and can be used with non-ferrous metals, precision steel pipes, and vehicle braking systems.

For pipes Ø ext	mm	4,75-6-8-10
For pipes Ø ext	inches	3/16-1/4-5/16-3/8
Overall length	mm	260
Weight	Kg	0,580

<b>777E</b>	Each	<b>56,60</b>
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PARTS LIST AS PER ART. 777 E.

Size		<b>1</b>	<b>2</b>
For pipes ext Ø by	mm	4,75 to 6	8 to 10
For pipes ext Ø by	inches	3/16 to 1/4	5/16 to 3/8
Bending radius	mm	15	15
<b>0777E</b>	Each	<b>8,20</b>	<b>8,20</b>

**777G**  
**777GP**


**Prod. SCU**

Two-handle type with rubber handgrip on the mobile lever.

For bending aluminium, brass, annealed copper and fine steel pipes from 0° to 180°.

With pipe clamp and fixed die.

For pipes Ø ext	mm	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>18</b>
Bending radius	mm	15	20	25	30	40	40	40	60
<b>777G</b>	Each	<b>49,30</b>	<b>53,60</b>	<b>62,10</b>	<b>66,40</b>	<b>83,60</b>	<b>90,10</b>	<b>94,30</b>	<b>213,00</b>

Size 18 does not have a rubber handle.

Product description as Art. 777G

For pipes Ø ext	inches	<b>1/4</b>	<b>3/8</b>	<b>1/2</b>
Bending radius	mm	15	25	40
<b>777GP</b>	Each	<b>49,30</b>	<b>62,10</b>	<b>83,60</b>

**778T**



In die-cast type. For bending aluminium, brass, annealed copper and fine steel pipes from 0° to 180°. Suitable for bending pipes with different diameters, no die interchange required.

For pipes Ø ext	mm	6-8-10
For pipes Ø ext	inches	1/4-5/16-3/8
Overall length	mm	270
Weight	Kg	0.400
<b>778T</b>	Each	<b>37,10</b>

Fiberglass type, unbreakable. For bending aluminium, brass, annealed copper and fine steel pipes from 0° to 180°. Suitable for bending pipes with four different diameters, no die interchange required.

For pipes Ø ext	mm	4-6-8-10
Overall length	mm	260
Weight	Kg	0.350
<b>779</b>	<b>Each</b>	<b>43,30</b>

**SCU**

**779**



Fixed measure type suitable for mechanic workshops. For bending aluminium, brass, annealed copper and fine steel pipes from 0° to 180°. In Aluminium fusion with thick antirust treatment.

For pipes Ø ext	mm	<b>18</b>
Bending radius	mm	54
<b>779E</b>	<b>Each</b>	<b>66,90</b>

**SCU**

**779E**



Product running out of stock.

**Orig. Gedore - Art. 2410**

Fixed measure type especially suitable for automotive workshops. For bending copper pipes DIN EN 1057, non-ferrous metal pipes, precision steel pipes as well as vehicle brake pipes from 0° to 180°.

For pipes Ø ext	mm	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>
Bending radius	mm	18	18	28	28	35
Overall length	mm	255	275	340	400	400
<b>779G</b>	<b>Each</b>	<b>183,00</b>	<b>183,00</b>	<b>209,00</b>	<b>209,00</b>	<b>270,00</b>

**GEDORE**

**779G**



Product running out of stock.

**Orig. Gedore - Art. 24305**

SPARE DIES FOR ART. 780P. SEE SICUTOOL 2013 CATALOGUE.

For pipes Ø ext	mm	<b>6</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>15</b>
For pipes WICU Ø	mm	-	-	-	6	8	10	-
Bending radius	mm	28	28	28	35	35	45	45
<b>780PA</b>	<b>Each</b>	<b>78,20</b>	<b>78,20</b>	<b>69,10</b>	<b>86,40</b>	<b>86,40</b>	<b>94,10</b>	<b>94,10</b>

**GEDORE**

**780PA**



Product running out of stock.

**Orig. Gedore - Art. 243010**

SPARE DIES FOR ART. 780P. SEE SICUTOOL 2013 CATALOGUE.

Bending rod.

<b>780PB</b>	<b>Each</b>	<b>133,00</b>
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**GEDORE**

**780PB**



Product running out of stock.

**Orig. Gedore - Art. 243020**

Product description as Art. 780PB

Hand lever to bend up to 90°.

<b>780PC</b>	<b>Each</b>	<b>128,00</b>
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**GEDORE**

**780PC**



Product running out of stock.

**Orig. Gedore - Art. 243030**

Product description as Art. 780PB

Hand lever to bend up to 180°.

<b>780PE</b>	<b>Each</b>	<b>128,00</b>
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**GEDORE**

**780PE**



Product running out of stock.

**Orig. Gedore - Art. 243040**

Product description as Art. 780PB

Fixed die-holder.

<b>780PF</b>	<b>Each</b>	<b>71,70</b>
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**GEDORE**

**780PF**



Product running out of stock.

**780R**



**Orig. Gedore - Art. 244**

One-lever type to be necessarily installed on a bench or vice. Suitable for bending copper pipes according to DIN EN 1057 with or without coating (WICU), non-ferrous metal pipes, steel pipes with thermal insulation, precision steel pipes from 0° to 180°.

The set consists of:

No.6 dies with guide Art. 780 RA for pipes ext. Ø 15-16-18-20-22-28mm

No.1 base unit Art. 780 RB

No.1 bending rod Art. 780 RC

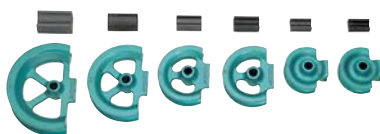
No.1 automatic pipe cutter for pipes Ø 4 to 32mm.

In metal case.

**780R** Each **2.060,00**

Product running out of stock.

**780RA**



**Orig. Gedore - Art. 2442**

SPARE DIES PROVIDED WITH GUIDE FOR ART. 780R.

For pipes Ø ext	mm	10	12	14	15	18	20	22
For pipes WICU Ø	mm	6	8	10	-	-	15	18
Bending radius	mm	40	40	50	50	65	65	85
<b>780RA</b>	Each	<b>175,00</b>	<b>175,00</b>	<b>175,00</b>	<b>175,00</b>	<b>195,00</b>	<b>195,00</b>	<b>233,00</b>

For pipes Ø ext	mm	25	28	30
For pipes WICU Ø	mm	-	22	-
Bending radius	mm	100	100	100
<b>780RA</b>	Each	<b>284,00</b>	<b>284,00</b>	<b>406,00</b>

Product running out of stock.

**780RB**



**Orig. Gedore - Art. 244070**

SPARE PARTS FOR ART. 780R.

Base unit.

**780RB** Each **296,00**

Product running out of stock.

**780RC**



**Orig. Gedore - Art. 244080**

Product description as Art. 780RB

Bending rod.

**780RC** Each **239,00**

Product running out of stock.

**780RE**



**Orig. Gedore - Art. 278500**

Clamp model for manual use with 2 levers.

Suitable for bending EN 10305-3 (DIN 2394) precision steel tubes from 0° to 180° with a thickness of 0.75 to 1 mm, and malleable stainless steel tubes with a thickness of 1 mm.

The item can also be used to attach fittings to a bench, or in a vice by using the single rod bender.

Comprises:

4 dies Art. 780 RF for pipes with external Ø of: 3 to 4 - 5 to 6 - 7 to 8 - 10mm

1 base element Art. 780 RG

1 bending rod Art. 780 RH

Boxed.

**780RE** Each **284,00**

**780RF**



**Orig. Gedore - Art. E 2785**

PARTS LIST AS PER ART. 780RE.

In strong aluminium alloy.

Size		4	6	8	10
For pipes ext Ø by	mm	3 to 4	5 to 6	7 to 8	10
Bending radius	mm	14	16	24	29
<b>780RF</b>	Each	<b>29,90</b>	<b>29,90</b>	<b>31,70</b>	<b>33,30</b>



**Orig. Gedore - Art. 278570**

SPARE PARTS AS PER ART. 780RE.

Pipe bending base element.

<b>780RG</b>	Each	<b>114,00</b>
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**Orig. Gedore - Art. 278581**

Product description as Art. 780RG

Bending rod with rubber grip.

<b>780RH</b>	Each	<b>58,10</b>
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**Orig. Gedore - Art. 278600**

Lever model for adding fittings to a bench or in a vice.

Suitable for bending EN 10305-3 (DIN 2394) steel precision pipes from 0° to 180°, EN 10305-1 (DIN 2391) hydraulic pipes with a thickness of 1 - 2 mm, and malleable stainless steel pipes with a thickness of between 1 mm and 1.5 mm.

Comprises:

6 dies Art. 780 RM for pipes with external Ø of: 6 to 8 - 10 to 12 - 14 - 15 - 16 - 18mm

1 base element Art. 780 RO

1 bending rod Art. 780 RP

Boxed.

<b>780RL</b>	Each	<b>491,00</b>
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**Orig. Gedore - Art. E 2786**

PARTS LIST AS PER ART. 780RL.

In strong aluminium alloy.

Size		8	12	14	15	16	18
For pipes ext Ø by	mm	6 to 8	10 to 12	14	15	16	18
Bending radius	mm	32	36	36	43	43	50
<b>780RM</b>	Each	<b>36,20</b>	<b>39,20</b>	<b>39,20</b>	<b>46,80</b>	<b>46,80</b>	<b>46,80</b>



**Orig. Gedore - Art. 278670**

SPARE PARTS AS PER ART. 780RL.

Pipe bending base element.

<b>780RO</b>	Each	<b>113,00</b>
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**Orig. Gedore - Art. 278681**

Product description as Art. 780RO

Bending rod with rubber grip.

<b>780RP</b>	Each	<b>136,00</b>
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**Orig. Gedore - Art. 278700**

Single lever model for adding fittings to a bench or in a vice.

Suitable for bending EN 10305-3 (DIN 2394) steel precision pipes from 0° to 180°, EN 10305-1 (DIN 2391) hydraulic pipes with a thickness of 1.5 - 2.5 mm, and malleable stainless steel pipes with a thickness of between 1.5 mm and 2 mm.

Comprises:

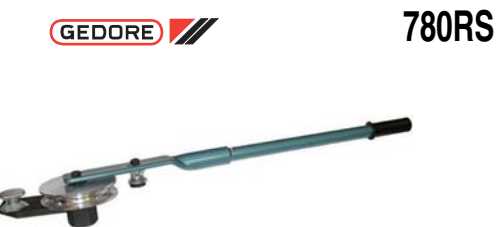
3 dies Art. 780 RT for pipes with external Ø of: 20 - 22 - 25mm

1 base element Art. 780 RV

1 bending rod Art. 780 RZ

Boxed.

<b>780RS</b>	Each	<b>1.030,00</b>
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**Orig. Gedore - Art. E 2787**

PARTS LIST AS PER ART. 780RS.

In strong aluminium alloy.

For pipes ext Ø by	mm	20	22	25
Bending radius	mm	85	85	85
<b>780RT</b>	Each	<b>156,00</b>	<b>156,00</b>	<b>156,00</b>



**780RV**

**Orig. Gedore - Art. 278770**

SPARE PARTS AS PER ART. 780RS.

Pipe bending base element.

<b>780RV</b>	Each	<b>288,00</b>
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**780RZ**

**Orig. Gedore - Art. 278781**

Product description as Art. 780RV

Bending rod with rubber grip.

<b>780RZ</b>	Each	<b>291,00</b>
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**780SB**

**Orig. Gedore - Art. 278**

SPARE DIES FOR ART. 780SA.

In steel.

Size		<b>8</b>	<b>10</b>
For pipes ext Ø by	mm	7 to 8	10
Bending radius	mm	24	29
<b>780SB</b>	Each	<b>40,90</b>	<b>42,80</b>

Product running out of stock.

**780SF**

**Orig. Gedore - Art. 278**

SPARE DIES FOR ART. 780SE. SEE SICUTOOL 2013 CATALOGUE.

In steel.

Size		<b>12</b>	<b>14</b>	<b>15</b>	<b>18</b>
For pipes ext Ø by	mm	10 to 12	14	15	18
Bending radius	mm	36	36	43	50
<b>780SF</b>	Each	<b>44,90</b>	<b>44,90</b>	<b>52,60</b>	<b>52,60</b>

Product running out of stock.

**780SG 1**

**Orig. Gedore - Art. 278170**

SPARE PARTS FOR ART. 780SE. SEE SICUTOOL 2013 CATALOGUE.

Base unit.

<b>780SG 1</b>	Each	<b>102,00</b>
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Product running out of stock.

**780SG 2**

**Orig. Gedore - Art. 278180**

Product description as Art. 780SG 1

Bending rod with rubber handle.

<b>780SG 2</b>	Each	<b>123,00</b>
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Product running out of stock.

**780SL**

**Orig. Gedore - Art. 278200**

One-lever type to be necessarily installed on a bench or vice.

Suitable for bending precision light steel pipes and hydraulic pipes from 0° to 180°.

The set consists of:

No.3 dies Art. 780 SM for pipes ext. Ø 20 - 22 - 25mm

No.1 base unit Art. 780 SP 1

No.1 bending rod Art. 780 SP 2

In case.

<b>780SL</b>	Each	<b>1.030,00</b>
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Product running out of stock.

**Orig. Gedore - Art. 278**  
SPARE DIES FOR ART. 780SL.

In steel.

For pipes ext Ø by	mm	22
Bending radius	mm	85
<b>780SM</b>	Each	<b>188,00</b>

Product running out of stock.

**GEDORE**

**780SM**



2

**Prod. SCU**

Lever-type. Mechanical advancement and rapid return by lever, one-hand operated. Body and operating parts in aluminium alloy. Not suitable for thin steel pipes. Equipped with dies for bending aluminium, brass, annealed copper from Ø 10 to 22mm and rigid or soft coating from Ø 10 to 18mm. Adjustable counter-dies for all measures.

With no. 7 dies for pipes ext. Ø mm. 10-12-14-16-18-20-22.

In plastic case.

<b>780T</b>	Each	<b>227,00</b>
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Dies for pipes ext. Ø mm. 26 is available on request.

**SCU**

CE 780T



SPARE DIES FOR ART. 780T.

For pipes Ø ext	mm	10	12	14	15	16	17	18
Bending radius	mm	35	40	48	50	58	67	69
<b>780V</b>	Each	<b>13,80</b>	<b>14,60</b>	<b>15,90</b>	<b>16,70</b>	<b>16,70</b>	<b>17,60</b>	<b>18,50</b>

For pipes Ø ext	mm	20	22
Bending radius	mm	76	88
<b>780V</b>	Each	<b>22,30</b>	<b>27,80</b>

**SCU**

**780V**



Mechanical advancement and traction, ratchet reducer operated. Not suitable for thin steel pipes. Easily carriable, for easy bending of installed pipe lines. Equipped with suitable dies for bending aluminium, brass, annealed copper pipes from Ø 10 to 22mm. Adjustable counterdies for all sizes. With no. 7 dies for pipes ext. Ø mm. 10-12-14-16-18-20-22. In plastic case.

<b>783A</b>	Each	<b>227,00</b>
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For spare dies see Art. 780 V

**SCU**

CE 783A



**SCREW TUBING BENDERS**

**Prod. SCU**

Sturdy and easily carriable. With ratchet wrench and 5 dies for cold bending of empty pipes. To be installed on vice or pipe desk. For gas or water pipes. Not suitable for thin steel pipes.

For pipes 1/4-3/8-1/2-3/4-1 inches.

In box.

<b>784</b>	Each	<b>742,00</b>
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For spare dies 3/8" to 1" see Art. 785 M. 1/4" die available on request.

**SCU**

**784**



**UNIVERSAL TUBE BENDERS**
**784G****SCU****Prod. SCU**

Hand device used for cold/hot bending of empty thin steel and copper pipes. Conform to European specifications DIN EN 1057. For perfect bending from 0° to 180°. Each diameter to bend needs suitable die and guide supplied in couples. The bender handle may be lengthened by a pipe Ø 1.1/4". The device is supplied together with a base to be bolted to the working desk by means of a tubing bender with ridged roller and cylindrical pressure roller.

Dies and guides excluded and supplied aside. See Art. 784 L-M-N.

Without dies, guides and lever, in box.

**784G** Each **923,00**

For perfect bending, pipe minimum thicknesses as indicated on dies must be respected.  
Product running out of stock.

**784L  
784M  
784N****SCU****DIES AND GUIDES FOR TUBING BENDERS 784 G.****FOR BENDING THIN STEEL PIPES.**

The couple is made of 1 die + 1 guide.

For pipes Ø ext	mm	<b>10</b>	<b>12</b>	<b>19</b>	<b>25</b>	<b>28</b>	<b>32</b>
Min thickness	mm	1	1	1,25	1,50	1,50	1,50
Bending radius	mm	40	40	68	105	126	153
<b>784L</b>	<b>Per pair</b>	<b>258,00</b>	<b>258,00</b>	<b>379,00</b>	<b>568,00</b>	<b>639,00</b>	<b>819,00</b>

Product running out of stock.

**FOR BENDING COPPER PIPES.**

The couple is made of 1 die + 1 guide.

For pipes Ø ext	mm	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>15</b>	<b>22</b>	<b>28</b>	<b>35</b>
Min thickness	mm	1	1	1	1	1	1,1	1,2	1,3
Bending radius	mm	40	40	40	50	68	81	126	175
<b>784M</b>	<b>Per pair</b>	<b>258,00</b>	<b>258,00</b>	<b>258,00</b>	<b>274,00</b>	<b>379,00</b>	<b>434,00</b>	<b>639,00</b>	<b>1.610,00</b>

The die for Ø mm. 35 is supplied with additional tool.

Product running out of stock.

**FOR BENDING PLASTIFIED WICO PIPES.**

The couple is made of 1 die + 1 guide.

Pipe ext Ø without covering	mm	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>15</b>	<b>22</b>
Pipe ext Ø with covering	mm	10	12	14	16	20	26
Min thickness	mm	1	1	1	1	1	1,1
Bending radius	mm	40	50	50	68	68	105
<b>784N</b>	<b>Per pair</b>	<b>258,00</b>	<b>274,00</b>	<b>274,00</b>	<b>379,00</b>	<b>379,00</b>	<b>568,00</b>

Product running out of stock.

**Adjustable spacer.**

**O784P** Each **78,30**

Product running out of stock.

**Adjustable 180° revolving base.**

**O784R** Each **238,00**

Product running out of stock.

**HYDRAULIC PIPE BENDERS**
**784P****SCU****Prod. SCU**

Body and dies in light alloy.

Rotating fork for all-position use.

Hand-operated hydraulic pump. For aluminium, annealed copper, annealed brass, annealed steel, CHIBRO and MANNESMANN, stainless steel up to Ø 16x1,5mm.

GAS pipes Ø 1/2, MEPLA, GEBERIT and similar pipes up to Ø 26mm.

Light type with no. 9 dies Ø mm. 10-12-14-15-16-18-20-22-26 (mm. 26 only for MEPLA, GEBERIT or similar pipes).

In plastic case.

**784P** Each **493,00**

Body and dies in light alloy.  
 Rotating fork for all-position use.  
 Hand-operated hydraulic pump. For aluminium, annealed copper, annealed brass, annealed steel, CHIBRO, MANNESMANN and stainless steel up to Ø 22x1,5mm.  
 GAS pipes Ø 1/2, MEPLA, GEBERIT and similar pipes up to Ø 26mm.  
 Professional type with very powerful pump. With no. 11 dies Ø mm. 10-12-14-15-16-18-20-22-24-26-1/2 gas. (mm. 26 only for MEPLA, GEBERIT and similar).  
 In plastic case.

<b>784R</b>	Each	<b>691,00</b>									
For pipes Ø	mm	10	12	14	15	16	18	20	22	26	
Bending radius	mm	25	35	40	48	60	60	60	70	70	
<b>0784S</b>	Each	37,10	37,10	49,30	49,30	61,70	61,70	61,70	74,10	74,10	
For pipes Ø	mm	10	12	14	15	16	18	20	22	24	26
Bending radius	mm	25	35	40	48	60	60	60	70	70	70
<b>0784U</b>	Each	37,10	37,10	49,30	49,30	61,70	61,70	61,70	74,10	74,10	74,10



**784R**

**2**

**ADDITIONAL DIES ONLY FOR ART. 784 R**

For steel, semicrude copper, MEPLA, GEBERIT and similar with thickness up to 1,5mm (from 24mm to 35mm only for coated pipes MEPLA, GEBERIT and similar).  
 For pipes Ø mm 18 19 22 24 25 26 30  
 Bending radius mm 70 70 110 110 110 110 110  
**784W** Each 74,10 86,30 98,60 111,00 124,00 136,00 136,00  
 For pipes Ø mm 32 35 40  
 Bending radius mm 110 110 120  
**784W** Each 98,60 136,00 98,60

Necessary to install 784 W dies 22 to 35mm on 784 R pipe bender pump. To bend coated pipes from 22mm to 40mm and to bend pipes MEPLA, GEBERIT, STARGAS, etc.

<b>0784W</b>	Per pair	<b>148,00</b>
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**SCU**

**784W**



Device used for bending and straightening pipes. For right or left bends.  
 For cold bending of empty gas pipes up to 90°. Mini model.  
 With no. 4 dies for pipes ranging from 3/8-1/2-3/4-1 inches (mm 17-21-27-33).  
 Complete in case.

<b>784Z</b>	Each	<b>891,00</b>
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**SCU**

**784Z**



Device used for bending and straightening pipes. For right or left bends.  
 For cold bending of empty gas pipes up to 90°.  
 Very powerful pump.  
 With 5 dies for pipes ranging from 3/8-1/2-3/4-1-1.1/4 inches (17-21-27-33-42mm).  
 Complete boxed set.

<b>785A</b>	Each	<b>1.100,00</b>
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Product description as Art. 785A  
 With no. 6 dies for pipes ranging from 3/8-1/2-3/4-1-1.1/4-1.1/2 inches (mm 17-21-27-33-42-48).  
 In wood box.

<b>785B</b>	Each	<b>1.170,00</b>
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Product description as Art. 785A  
 With no. 7 dies for pipes ranging from 3/8-1/2-3/4-1-1.1/4-1.1/2-2 (mm 17-21-27-33-42-48-60).  
 In wood box.

<b>785C</b>	Each	<b>1.730,00</b>
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Product description as Art. 785A  
 With no. 9 dies for pipes ranging from 3/8-1/2-3/4-1-1.1/4-1.1/2-2-2.1/2-3 inches (mm 17-21-27-33-42-48-60-75-88).  
 In wood box.

<b>785D</b>	Each	<b>2.760,00</b>
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Product description as Art. 785A  
 With no. 11 dies for pipes ranging from 3/8-1/2-3/4-1-1.1/4-1.1/2-2-2.1/2-3-3.1/2-4 inches (mm 17-21-27-33-42-48-60-75-88-100-113).  
 In wood box.

<b>785E</b>	Each	<b>4.210,00</b>
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**SCU**

**785A  
785B  
785C  
785D  
785E**



## 785M

SCU



## DIES FOR HYDRAULIC TUBING BENDERS ART. 784 Z – 785 A-B-C-D-E.

For pipes Ø	inches	3/8	1/2	3/4	1	1.1/4	1.1/2	2	2.1/2
Bending radius	mm	45	55	70	95	135	155	200	320
<b>785M</b>	<b>Each</b>	<b>52,90</b>	<b>59,90</b>	<b>77,50</b>	<b>103,00</b>	<b>134,00</b>	<b>177,00</b>	<b>282,00</b>	<b>493,00</b>
For pipes Ø	inches	3	3.1/2	4					
Bending radius	mm	350	540	600					
<b>785M</b>	<b>Each</b>	<b>634,00</b>	<b>272,00</b>	<b>335,00</b>					
For pipes Ø	mm	10	12	14	16	18	20	22	24
Bending radius	mm	35	35	40	45	45	55	55	55
<b>785M</b>	<b>Each</b>	<b>56,40</b>	<b>59,90</b>	<b>63,40</b>	<b>66,90</b>	<b>70,50</b>	<b>70,50</b>	<b>95,10</b>	<b>103,00</b>
For pipes Ø	mm	26	28	30	32	35	38	40	
Bending radius	mm	70	70	70	90	95	95	130	
<b>785M</b>	<b>Each</b>	<b>110,00</b>	<b>124,00</b>	<b>131,00</b>	<b>138,00</b>	<b>152,00</b>	<b>169,00</b>	<b>180,00</b>	

## 785TG

SCU



Device used for bending and straightening DIN 2440 pipes. For right or left bends.

For cold bending of empty gas pipes up to 90°.

Very powerful pump. Equipped with 3 support legs and 1 control lever with handle.

With no. 6 dies for pipes ranging from 1/4-3/8-1/2-3/4-1-1.1/4-1.1/2-2. (Only one die is used for bending Ø 1/4-3/8 and 1/2).

Complete in case.

**785TG** Each **1.600,00**

## 785VG

SCU



## SPARE DIES FOR ART. 785 TG.

For pipes Ø	inches	3/8-1/2	3/4	1	1.1/4	1.1/2	2
Bending radius	mm	63	78	98	128	148	202
<b>785VG</b>	<b>Each</b>	<b>18,40</b>	<b>26,50</b>	<b>44,80</b>	<b>118,00</b>	<b>118,00</b>	<b>168,00</b>

The die for pipes from 3/8 -1/2 inches is also used for bending pipes from 1/4 inches.

786A  
786B

GEDORE



## Orig. Gedore - Art. 246010

Pipe bender. For right or left bends.

For cold bending of the following empty pipes up to 180°: stainless steel pipes up to Ø 22mm, max. thickness 1.5mm, soft and annealed copper pipes DIN EN 1057 up to Ø 28mm, hydraulic pipes and mild steel pipes up to Ø 28mm, max. thickness 2mm, gas and water pipes DIN 2440 Ø 3/8-1/2-3/4.

Sturdy body and very powerful pump (60 kN).

Equipped with 3 support legs and 1 control lever with handle.

In transport case.

Without dies.

**786A** Each **4.520,00**

## Orig. Gedore - Art. 246100

Product description as Art. 786A

The set contains a pipe bender Art. 786 A and 5 dies Art. 786 E 12-15-18-22-28mm.

**786B** Each **6.210,00**

## 786E

GEDORE



## Orig. Gedore - Art. E 246

## DIES PROVIDED WITH GUIDE ART. 786 A-B TO BEND HYDRAULIC PIPES.

For pipes Ø	mm	6	8	10	12	14	15	16
Bending radius	mm	35	35	45	45	55	55	75
<b>786E</b>	<b>Each</b>	<b>254,00</b>	<b>254,00</b>	<b>254,00</b>	<b>254,00</b>	<b>282,00</b>	<b>282,00</b>	<b>333,00</b>
For pipes Ø	mm	18	20	22	25	28		
Bending radius	mm	75	75	85	85	112		
<b>786E</b>	<b>Each</b>	<b>333,00</b>	<b>333,00</b>	<b>363,00</b>	<b>363,00</b>	<b>396,00</b>		

Dies to bend pipes Ø 3/8-1/2-3/4 available on request.

**All items are in sequence. It's very easy to find them!**

Torque screwdriver testers  
Torque wrenches  
Torque screwdrivers  
Inserts - Torque multipliers



From **793G 10**  
To **814GP**

Adjustable wrenches  
Hook spanners  
Caliper spanners  
Wrenches for ring nuts



From **818G**  
To **842V**

Ring and slugging spanners  
Adjustable fixed wrenches  
Ratchet and friction wrenches



From **843G**  
To **894GT**

Wrenches for convectors & scaffolds  
Nut drivers with handle  
Double ended socket wrenches  
Offset socket wrenches  
Square, triangular and cross socket wrenches  
Spark plug spanners-"T" wrenches-Cross wrenches



Da **895G**  
To **926G**

Tire levers  
Tow bars



From **927GS**  
To **933G**

Interchangeable head wrenches set  
Socket sets and accessories  
Reducers and converters



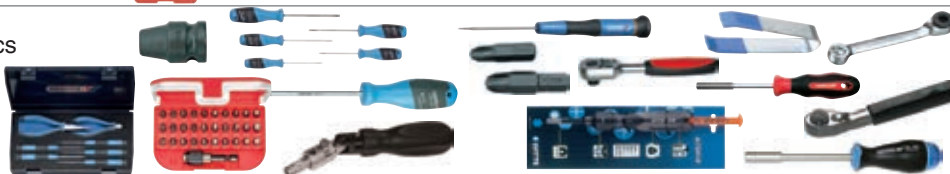
From **940GA**  
To **981GV**

Hexagon impact socket wrenches



From **981GZ**  
To **982RTE**

Screwdrivers for electronics  
Screwdrivers Dremo Plus  
Inserts  
Bit handles



From **982RVA**  
To **985E**

Tool sets - Panels  
Cabinets and benches  
Batteries tools  
Tool trolleys  
Modules for tool trolley



From **985G 3**  
To **1000G 40**

Pipe wrenches  
Pipe cutters  
Pipe reamers



From **1002**  
To **1085**

### TORQUE SCREWDRIVER TESTERS

#### 793G 10



##### Orig. Torqueleader - Art. MTP 10

Precision device for calibration of mechanical, right- and left-hand use torque screwdrivers. Sturdy sheet steel body.

Fastening to workbench. Level for precise positioning.

Double scale cNm / ozf.in. Tolerance  $\pm 2\%$ .

Weight 1 Kg.

Effective load capacity	cNm	0-10
Effective load capacity	ozf.in	0-14
Scale division		0,5 cNm/1 ozf.in
Drive	inches	1/4

<b>793G 10</b>	<b>Each</b>	<b>1.080,00</b>
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Art. 793 G 10 have 1/4 male hex. drive.

Product running out of stock.

#### 793G 35

793GA  
793GB  
793GC  
793GD



##### Orig. Torqueleader

Precision device for calibration of mechanical, right-hand use torque screwdrivers. Measured value indicator.

Die-cast aluminium body. Insensitive to temperature variation.

Fastening to workbench. Double scale Nm (cNm) / lbf.in (ozf.in). Tolerance  $\pm 2\%$ .

Weight 3,2 Kg.

Art.		793G 35	793GA	793GB
Effective load capacity	Nm	7-35 (cNm)	26-130 (cNm)	0,8-4
Effective load capacity	lbf.in	10-50 (ozf.in)	36-180 (ozf.in)	7-36
Scale division		0,5 cNm/0,5 ozf.in	2 cNm/2 ozf.in	0,05 Nm/0,5 lbf.in
Drive	inches	1/4	1/4	1/4
Supplier code		MTS 35	MTS 130	MTS 400
<b>Each</b>		<b>1.410,00</b>	<b>1.410,00</b>	<b>1.410,00</b>

Art.		793GC	793GD
Effective load capacity	Nm	2,4-12	5-25
Effective load capacity	lbf.in	24-120	44-220
Scale division		0,2 Nm/2 lbf.in	0,5 Nm/5 lbf.in
Drive	inches	1/4-3/8	1/4-3/8
Supplier code		MTS 1200	MTS 2500
<b>Each</b>		<b>1.410,00</b>	<b>1.410,00</b>

Art. 793 G 35 - 793 GA - 793 GB have 1/4 square drive and 1/4 male hex. drive.

### ELECTRONIC TORQUE WRENCH TESTERS

#### 793GF

793GH  
793GL  
793GM  
793GP



##### Orig. Gedore

Charge cell electronic device, easy to use for measuring the torque moment. This device allows rapid checking of mechanical torque wrenches and digital torque wrenches with horizontal D rotation movement.

Can be fastened to workbench. Scale in Nm and lbf.ft. Tolerance: Tolerance:  $\pm 1\%$  for each scale reading,  $\pm 1$  digit. Auto reset by unplugging for approx. 5 seconds.

Provided with manufacturer's certificate and RS232 serial interface. With external power feeder 120/240 V.

Art.		793GF	793GH	793GL
Effective load capacity	Nm	0,2-12	0,9-55	9-320
Scale division		0,01 Nm	0,01 Nm	0,1 Nm
Hexagonal drive	mm	6,3	10	17
Square drive	inches	1/4 e 3/8	1/4 e 3/8	3/8 e 1/2
Weight	Kg	3	3	3
Supplier code		8612-012	8612-050	8612-300
<b>Each</b>		<b>1.740,00</b>	<b>1.610,00</b>	<b>1.420,00</b>

Art.		793GM	793GP
Effective load capacity	Nm	90-1100	500-3150
Scale division		1 Nm	1 Nm
Hexagonal drive	mm	36	-
Square drive	inches	1/2 e 3/4	1 e 1.1/2
Weight	Kg	10	26
Supplier code		8612-1000	8612-3150
<b>Each</b>		<b>2.250,00</b>	<b>3.290,00</b>



# Per la **verifica** di utensili a **controllo di coppia**

**Torqueleader®**  
**CAPTURE**  
*Display*



## Il nuovo standard di Torque Analyser Systems

### SICUTOOL E PRORE



Attraverso Prore s.r.l. Sicutool offre servizi di taratura della grandezza "momento torcente" per utensili dinamometrici di tutte le marche:

- chiavi dinamometriche
- giraviti a scatto
- giraviti a lettura diretta
- banchi torsionometrici.

Il Certificato garantisce la riferibilità ai campioni di riferimento nazionali, con le incertezze di misura indicate nella relativa tabella di accreditamento.

### PRORE E' CENTRO ACCREDIA LAT N. 0145

Prore s.r.l. è Centro di Taratura accreditato da ACCREDIA LAT N. 0145.



Le attività di Prore sono regolate da un Manuale di Qualità e da procedure tecniche e gestionali conformi alle norme UNI CEI EN ISO/IEC 17025.

Per maggiori informazioni, visitate il sito [www.prore.it](http://www.prore.it)

SICUTOOL



# Taratura e riparazione di strumenti torsionometrici

Gli strumenti torsionometrici (chiavi e giraviti dinamometrici e dispositivi di taratura) vengono forniti con il **rapporto di taratura** emesso dal fabbricante (Gedore, Torqueleader).

Per **chiavi e giraviti** il rapporto di taratura viene emesso in conformità alla norma di riferimento UNI EN ISO 6789 che prevede 5 prove al 20/60/100% del valore massimo di serraggio con l'indicazione dello scostamento dal valore nominale e l'incertezza di misura.

Sul certificato è riportato anche il riferimento allo strumento campione utilizzato per la taratura, in modo da garantire la **referibilità** richiesta dalle norme ISO 9000 sulla qualità.

La norma ISO 6789 specifica al paragrafo 5.3.2 come determinare l'**intervallo per la ritaratura** degli attrezzi dinamometrici: "Se l'utilizzatore non utilizza un procedimento di controllo, per l'intervallo di ritaratura può essere adottato come valore assegnato un periodo di **12 mesi** o di circa 5000 cicli. Per la prima ritaratura il periodo di validità inizia con il **primo impiego** dell'attrezzo dinamometrico"

Per **dispositivi di taratura** (banchi torsionometrici) i rapporti di taratura vengono emessi dal costruttore secondo le normative o linee guida nazionali (DKD-R 3-8 e BS 7882). Viene garantita la referibilità ai campioni di misura e le caratteristiche metrologiche che consentono l'utilizzo come campioni primari per la taratura di attrezzi dinamometrici.

## RITARATURA PERIODICA CON EMISSIONE DI CERTIFICATO ACCREDIA

Per strumenti torsionometrici **di tutte le marche** fino a un momento torcente massimo di **1000 Nm** Sicutool offre attraverso **PRORE S.r.l. (centro di taratura accreditato LAT 145)** il servizio di taratura con rilascio del certificato LAT. Gli intervalli di taratura e le relative incertezze estese di misura (espresse al livello di fiducia del 95%) sono riportati sulla tabella di accreditamento:

Grandezza	Strumento in taratura	Campo di misura	Incertezza estesa
Momento torcente	Banchi torsionometrici	da 0,2 Nm a 10 Nm da 2 Nm a 100 Nm da 20 Nm a 1000 Nm	0,5% 0,3% 0,2%
	Chiavi dinamometriche e giraviti a scatto	da 0,2 a 1000 Nm	1%
	Chiavi dinamometriche e giraviti a lettura diretta	da 0,2 a 1000 Nm	1%

## SERVIZIO DI RIPARAZIONE

Gli attrezzi dinamometrici e i banchi torsionometrici commercializzati da Sicutool possono essere inviati per la riparazione che viene eseguita presso il costruttore (Gedore e Torqueleader).

La riparazione viene eseguita a seguito dell'accettazione di un preventivo e **comprende** il rilascio di un rapporto di taratura che attesta il corretto funzionamento dello strumento.



Il certificato viene emesso sullo strumento come viene inviato, senza che venga eseguita alcuna riparazione o regolazione.

Possono essere tarati anche attrezzi dinamometrici **nuovi** qualora necessitassero del certificato LAT in alternativa al rapporto di taratura in dotazione.

Il listino prezzi e ulteriore documentazione sono disponibili sul sito internet [www.prore.it](http://www.prore.it).

**Orig.Torqueleader - Art. 036700 CAPTURE DISPLAY + Art. 036246 CAVO**

Display with clear digits of the CAPTURE system to measure the torque according to DIN EN ISO 6789 of screwdrivers and torque wrenches with R+L rotation; opportunity to download the results of the tests on the computer via USB connection. Aluminium body, easy to use, simple to connect via cable to the application sensors and to the rotary encoders of the torque tools. Ideal for use in static control laboratories or for mobile use in the collection of data using the built-in memory and a rechargeable Lithium battery. Chance to integrate with transducers with a standard 2 mV/V connection. Supplied in a sturdy and practical plastic box for transport and protection. Connection cable to the sensors and to the transducers. Dimensions 170x140x80mm.

**793GRA** Each **4.680,00**

Available on request:

Replacement cables for connection to sensors and transducers Art. 793 GSA-B (Art. 036246); connecting cables to the transducers 2 MLV/V (Art. 036226).


**793GRA**
*new*

**3**
**Orig.Torqueleader - Art. CAPTURE SENSOR**

Measurement sensors for the simple and fast transmission of the tightening force of the manual torque tools to the control display Art. 793 GRA, via cable. Body in aluminium alloy, which can be mounted horizontally or vertically. Supplied with UKAS certificate in accordance with BS 7882: 2008 Class 1 (English correspondent of the ACCREDIA certification), with robust and practical plastic box for transport and protection.

Size		2	10	50	250	1500
Effective load capacity	Nm	0,2-2	1-10	5-50	25-250	150-1500
Square drive	inches	1/4	1/4	3/8	1/2	1
Weight	Kg	0,500	0,500	0,570	1,450	4
Supplier code		CS 2	CS 10	CS 50	CS 250	CS 1500
<b>793GSA</b>	<b>Each</b>	<b>2.520,00</b>	<b>2.540,00</b>	<b>2.570,00</b>	<b>2.890,00</b>	<b>4.380,00</b>

Supplied on request:

Support for rapid sensor change (Art. 036 772).


**793GSA**
*new*


1/4"

**Orig.Torqueleader**

Accurate rotary measurement transducers for the simple and fast transmission of the tightening force of the manual torque tools to the control display Art. 793 GRA, via cable. Stable metal body, well-designed to avoid precision errors even in the presence of applications with strong vibrations. Tolerance  $\pm 0.3\%$  on maximum force applied.

Size		2	5	20
Effective load capacity	Nm	0,2-2	0,5-5	2-20
Male/female hexagonal drive	inches	1/4	1/4	1/4
Max no. of revolutions / min continuous		5000	5000	5000
Max no. of revolutions / min intermittent		11000	11000	11000
Weight	Kg	0,210	0,210	0,210
Supplier code		XR 2 HD	XR 5 HD	XR 20HD
<b>793GSB</b>	<b>Each</b>	<b>7.000,00</b>	<b>7.000,00</b>	<b>7.000,00</b>


**793GSB**
*new*


1/4"

**Orig.Torqueleader - Art. 036710 CAPTURE MANAGER**

CAPTURE system software that allows for quick and easy analysis of the data of the tightening torque tools thanks to integration with the system for PC MICROSOFT EXCEL®. It allows to store an unlimited number of tools and data in the PC that can be uploaded and downloaded from the DISPLAY Art. 793 GRA via USB connection.

The clear and simple use of this software allows you to perform tests according to ISO 6789: 2003 ensuring the proper operation of the torque tools. The same can also become traceable by generating customizable calibration certificates according to the above mentioned regulations.

**793GSE** Each **753,00**


**793GSE**
*new*


## 793GT



WITH ONE TOOL  
MANY POSITIONINGS



### Orig. Gedore

Charge cell electronic device for the measurement of the turning moment. Sturdy aluminium alloy body. Used for checking torque wrenches with RIGHT+LEFT rotation according to DIN EN ISO 6789. Positionable both horizontally and vertically. The large-easy reading display may be positioned directly in the device body (except for Art. 793 GT 15) or separately, by means of a provided support and cable, in the operator's most visible point.

Precision:  $\pm 1\%$  for each scale value,  $\pm 1$  digit.

Reading commutation Nm, cNm, lbf-ft, lbf-in.

Provided with certification in compliance with the main national samples. External feeder 12/240 V.

Use temperature from  $+10\text{ C}^\circ$  to  $+40\text{ C}^\circ$ .

Fastening to benchwork or for wall mounting. Dimensions mm 245x155x150h.

Weight 7Kg (793 GT 15 mm 120x80x80h weight 1.5Kg).

In sturdy box.

Size		15	100	500	1000
Effective load capacity	Nm	0,5-15	4-100	20-500	50-1000
Scale division		0,01 Nm	0,01 Nm	0,1 Nm	0,1 Nm
Square drive	inches	1/4	1/2	3/4	3/4
Reductions	inches	-	1/4 e 3/8	3/8 e 1/2	3/8 e 1/2
Supplier code		8624-B01	8624-B10	8624-B50	8624-B100
<b>793GT</b>	<b>Each</b>	<b>5.500,00</b>	<b>5.500,00</b>	<b>5.500,00</b>	<b>5.500,00</b>

Art. 793 GT 15 is equipped with a friction safety device against surcharge. In case of block, use wrench Art. O793 GT 15, included.

"T" wrenches with square drive 1/4" for device release Art. 793 GT 15.

<b>O793GT 15</b>	<b>Each</b>	<b>26,90</b>
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## DIGITAL DYNAMOMETER DEVICES

## 794A



1/2"

### Prod. SCU

Practical and light model which can be inserted in between the ratchet lever and its socket so that it can detect the level of tightening being carried out.

Body made from reinforced synthetic material, functional parts made from steel. Precision  $\pm 2\%$ . Memory capacity for 50 relevant items, display resolution 0.1, selectable units: kg/cm - kg/m - lb/in - lb/ft - N/m.

Batter power mod. CR 2032 (Art. SCU 3600 T), battery not included. Sleep function. Peaking / tracking operating modes.

Female/ male square drive	inches	1/2
Tightening capacity	Nm	40-200
Dimensions	mm	75x44
Weight	grams	120
<b>794A</b>	<b>Each</b>	<b>89,70</b>

Product running out of stock.

## PRECISION TORQUE WRENCHES

## 794G 5



1/4"

### Orig. Gedore - Art. 753-11

Click type. In synthetic material, resistant to fats, oils and hydrocarbons by-products.

Precise adjustment through handle grip ring nut.

Double scale graduation with readings in Nm, lbf. in. Audible acoustic signal ("click") on reaching preset torque value.

Clockwise tightening. Supplied with test certificate in accordance with DIN ISO 6789.

Supplied in box.

Male square drive	inches	1/4
Tightening capacity	Nm	2-12
Tightening capacity	lbf.in	18-106
Scale division		0,5 Nm/5 lbf.in
Overall length	mm	210
Weight	Kg	0,250
<b>794G 5</b>	<b>Each</b>	<b>429,00</b>

**Orig. Gedore - Art. 753-03/13**

**ASSORTED SETS OF TOOLS WITH TORQUE WRENCH**

The set contains:

- 1 x Art. 794G 5 torque wrench 1/4 drive
- 8 x 4-5-5.5-6-7-8-9-10mm hexagonal sockets
- 1 x screwdriver handle 1/4 drive
- 4 x 3-4-5-6mm hexagonal tip sockets
- 3 x 4-5.5-6.5 flat tip sockets
- 3 PHILLIPS sockets size 1-2-3
- 3 x 20-27-30 TORX T. sockets
- 2 x 55-100mm extensions
- 1 x ratchet mechanism 1/4 drive

Supplied in case.

<b>794G 8</b>	Each	<b>817,00</b>
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**794G 8**

1/4"

**3**

**TORQUE SCREWDRIVERS WITH FIXED TORQUE VALUE**

**Prod. SCU - Orig. Wiha**

Types supplied already pre-set (without scale), with torque values recommended by the manufacturers of tools with mechanical fastening plates (from 0.5 Nm to 5 Nm, with a tolerance of ± 10%). Once the pre-set torque value has been reached, you will hear a click sound, also detectable by touch. Protected unscrewing function. Ergonomic handles made of multi-component material to be used with 4 mm hexagonal blades in different shapes Art. 794 G 8F-G-H-L-M-P-R, with bit-holder Art.794G 8T and socket-holders Art. 794 G 8V.

Handle length 130 mm. For right-hand use.

**DYNAMOMETRIC HANDLES WITHOUT BLADES**

Tightening value	Nm	0,5	0,6	0,9	1,1	1,2	1,4	2
<b>794G 8E</b>	Each	<b>58,40</b>	<b>58,40</b>	<b>58,40</b>	<b>58,40</b>	<b>58,40</b>	<b>58,40</b>	<b>61,60</b>
Tightening value	Nm	2,5	3	3,8	4	4,5	5	
<b>794G 8E</b>	Each	<b>61,60</b>	<b>61,60</b>	<b>61,60</b>	<b>64,90</b>	<b>64,90</b>	<b>64,90</b>	

**SCU**

**794G 8E**  
*new*



When choosing blades, the maximum torque of the same should be considered.

Made with CHROME-VANADIUM-MOLYBDENUM steel, hardened, matt chrome. Chrom Top® tip for maximum precision. Blade length 175mm.

**BLADES FOR DYNAMOMETRIC HANDLES 794 G 8E**

With TORX tip. Colour code: DARK GREEN:

TORX size	T	5	6	7	8	9	10	15	20	25
For screws	M.	1,6	2-2,2	2,5	2,5-2,9	3	3-3,5	3,5-4	4-5	4,5-5
Max torque	Nm	0,4	0,6	0,9	1,3	2,5	3,8	5,5	8,0	8,0
<b>794G 8F</b>	Each	<b>7,94</b>	<b>7,94</b>	<b>7,94</b>	<b>7,94</b>	<b>7,94</b>	<b>7,94</b>	<b>7,94</b>	<b>7,94</b>	<b>7,94</b>

**SCU**

**794G 8F**  
*new*



In the selection of dynamometric handgrips you need to choose a torque equal to or less than the one max. of the blades.

**Product description as Art. 794G 8F**

With TORX-PLUS® tip. Colour code: LIGHT GREEN.

TORX-PLUS size	IP	5	6	7	8	9	10	15	20	25
For screws	M.	1,6	2-2,2	2,5	2,5-2,9	3	3-3,5	3,5-4	4-5	4,5-5
Max torque	Nm	0,5	0,8	1,3	2,0	3,0	4,5	6,6	8,0	8,0
<b>794G 8G</b>	Each	<b>8,10</b>	<b>8,10</b>	<b>8,10</b>	<b>8,10</b>	<b>8,10</b>	<b>8,10</b>	<b>8,10</b>	<b>8,10</b>	<b>8,10</b>

**SCU**

**794G 8G**  
*new*



In the selection of dynamometric handgrips you need to choose a torque equal to or less than the one max. of the blades.

**Product description as Art. 794G 8F**

With flat tip. Colour code: GREY

Size		2	2,5	3	3,5	4
Cutting edge	mm	2x0,4	2,5x0,4	3x0,5	3,5x0,6	4x0,8
Max torque	Nm	0,4	0,4	0,6	1,1	2,5
<b>794G 8H</b>	Each	<b>7,78</b>	<b>7,78</b>	<b>7,78</b>	<b>7,78</b>	<b>7,78</b>

**SCU**

**794G 8H**  
*new*



In the selection of dynamometric handgrips you need to choose a torque equal to or less than the one max. of the blades.

**Product description as Art. 794G 8F**

With PHILLIPS tip. Colour code: BLUE.

Size		000	00	0	1	2
For screws	M.	-	-	1,6-2	2-3	3,5-5
Max torque	Nm	0,4	0,4	0,9	3,8	5,5
<b>794G 8L</b>	Each	<b>7,78</b>	<b>7,78</b>	<b>7,78</b>	<b>7,78</b>	<b>7,78</b>

**SCU**

**794G 8L**  
*new*



In the selection of dynamometric handgrips you need to choose a torque equal to or less than the one max. of the blades.

### 794G 8M

new

SCU



Product description as Art. 794G 8F  
With POZIDRIV tip. Colour code: LIGHT BLUE

Size	0	1	2
For screws	M. 1,6-2	2-3	3,5-5
Max torque	Nm 0,9	3,8	5,5
<b>794G 8M</b>	<b>Each 7,78</b>	<b>7,78</b>	<b>7,78</b>

In the selection of dynamometric handgrips you need to choose a torque equal to or less than the one max. of the blades.

### 794G 8P

new

SCU



Product description as Art. 794G 8F  
With HEXAGONAL tip. Colour code: RED.

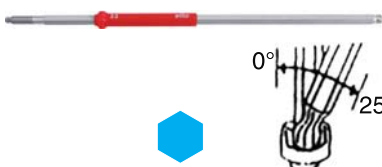
Hexagon	mm	1,3	1,5	2	2,5	3	4
Max torque	Nm	0,4	0,9	1,8	3,8	5,5	8,0
<b>794G 8P</b>	<b>Each</b>	<b>7,78</b>	<b>7,78</b>	<b>7,78</b>	<b>7,78</b>	<b>7,78</b>	<b>7,78</b>

In the selection of dynamometric handgrips you need to choose a torque equal to or less than the one max. of the blades.

### 794G 8R

new

SCU



Product description as Art. 794G 8F  
With HEXAGONAL BALL TIP. Colour code: RED.

Hexagon	mm	1,5	2	2,5	3	4
Max torque	Nm	0,4	0,9	2,0	3,8	8,0
<b>794G 8R</b>	<b>Each</b>	<b>7,94</b>	<b>7,94</b>	<b>7,94</b>	<b>7,94</b>	<b>7,94</b>

In the selection of dynamometric handgrips you need to choose a torque equal to or less than the one max. of the blades.

### 794G 8T

new

SCU



Made with CHROME-VANADIUM-MOLYBDENUM steel, hardened, matt chrome. Stainless steel socket covered in plastic.

Hexagonal female connection 1/4".  
BIT-HOLDER FOR DYNAMOMETRIC HANDLES 794 G 8E

Overall length	mm	162
<b>794G 8T</b>	<b>Each</b>	<b>19,10</b>

### 794G 8V

new

SCU



Made with CHROME-VANADIUM-MOLYBDENUM steel, hardened, matt chrome.  
1/4" male square drive.

SOCKET-HOLDER FOR DYNAMOMETRIC HANDLES 794 G 8E

Overall length	mm	155
<b>794G 8V</b>	<b>Each</b>	<b>12,50</b>

### 794G 9A

SCU



Prod. SCU - Orig. Wera

Pre-set models (without scale). Torque values suggested by tool manufacturers of plates with mechanical clamping (from Nm 0.6 to Nm 5, ± 10% tolerance). Tactile impulse and audible signal on reaching of the preset set torque value and setting to zero of the torque indicator. Unlimited untightening force. Handle and mechanical parts are provided with a safety ring to avoid possible modifications of the preset torque value. Ideal also for controlled tightenings in hard-to-access positions.

4mm hexagonal blades in special steel, matt chromium plated. Black blade tips. Ergonomic handle in multi-component material. .  
Blade length: 65mm. Overall length: 170mm.

TORX screw model.

TORX size	T	6	9	20
Tightening value	Nm	0,6	1,4	5
<b>794G 9A</b>	<b>Each</b>	<b>66,30</b>	<b>66,30</b>	<b>72,80</b>

Product running out of stock.

### 794G 9E

SCU



Pre-set models (without scale). Torque values suggested by tool manufacturers of plates with mechanical clamping (from Nm 0.6 to Nm 5, ± 10% tolerance). Tactile impulse and audible signal on reaching of the preset set torque value and setting to zero of the torque indicator. Unlimited untightening force. Handle and mechanical parts are provided with a safety ring to avoid possible modifications of the preset torque value. Ideal also for controlled tightenings in hard-to-access positions.

4mm hexagonal blades in special steel, matt chromium plated. Black blade tips. Ergonomic handle in multi-component material. .  
Blade length: 65mm. Overall length: 170mm.

Type for Allen screws.

For screws with Hexagon	mm	2	2,5	3
Tightening value	Nm	1,4	2	3
<b>794G 9E</b>	<b>Each</b>	<b>66,10</b>	<b>69,40</b>	<b>69,40</b>

Product running out of stock.

**TORQUE SCREWDRIVERS**

**Orig. Gedore - Art. 2140**

Particularly suitable for controlled clamping of bands and plates with mechanical clamping. Soft material ergonomic handles, adjustable on the rear within a range of values included between 0.6 and 5,4 Nm (3 types). Audible acoustic signal ("click") on reaching preset torque value. Unlimited unscrewing force. 1/4 hex drive to be used with blades of different kinds Art. 794G 9L-M-P-S and with bit-holders Art. 794G 9T or socket-holders Art. 794G 9V. Tolerance: ± 6% for each scale value (Art. 794G 9H 1,5 tolerance: ±10% for each scale value). Handle length 105mm. Right-hand use. Provided with certificate according to DIN ISO 6789. Complete with hex wrench (6 mm) for easy setting of clamping value.

DYNAMOMETRIC HANDLES WITHOUT BLADES

Size		1,5	3	5,4
Tightening capacity	Nm	0,6-1,5	1,5-3,0	3,0-5,4
Scale division		0,1 Nm	0,1 Nm	0,1 Nm
<b>794G 9H</b>	Each	<b>87,80</b>	<b>87,80</b>	<b>87,80</b>



**794G 9H**



**3**

**Orig. Gedore - Art. 2141 TX**

Special steel blades for Art. 794G 9H. 1/4 hexagonal shank. Blade length 170mm.

BLADES FOR DYNAMOMETRIC HANDLES

TORX-tipped model.

TORX size	T	6	7	8	9	10	15	20	25
For screws	M.	2	2,5	2,5	3	3-3,5	3,5-4	4-5	4,5-5
<b>794G 9L</b>	Each	<b>7,48</b>	<b>7,48</b>	<b>7,48</b>	<b>7,48</b>	<b>7,48</b>	<b>7,48</b>	<b>7,48</b>	<b>7,48</b>



**794G 9L**



**Orig. Gedore - Art. 2141 IP**

Product description as Art. 794G 9L

Type with TORX PLUS® tip.

TORX-PLUS size	T	6	7	8	9	10	15
For screws	M.	2	-	2,5 - 3	-	3-3,5	3,5-4
<b>794G 9LA</b>	Each	<b>8,76</b>	<b>8,76</b>	<b>8,76</b>	<b>8,76</b>	<b>8,76</b>	<b>8,76</b>



**794G 9LA**



**Orig. Gedore - Art. 2141 IS**

Product description as Art. 794G 9L

Flat-tipped model.

Size		3	3,5	4
Cutting edge	mm	3,0x0,5	3,5x0,6	4,0x0,8
<b>794G 9M</b>	Each	<b>7,26</b>	<b>7,26</b>	<b>7,26</b>



**794G 9M**



**Orig. Gedore - Art. 2141 PH**

Product description as Art. 794G 9L

PHILLIPS-cross-tipped model.

Size		0	1	2
For screws	M.	1,6-2	2-3	3,5-5
<b>794G 9P</b>	Each	<b>7,26</b>	<b>7,26</b>	<b>7,26</b>



**794G 9P**



**Orig. Gedore - Art. 2141 PZ**

Product description as Art. 794G 9L

POZIDRIV-cross-tipped model.

Size		0	1	2
For screws	M.	1,6-2	2-3	3,5-5
<b>794G 9S</b>	Each	<b>7,26</b>	<b>7,26</b>	<b>7,26</b>



**794G 9S**



**Orig. Gedore - Art. 699 L**

Bit-holder in special steel to be used with Art. 794 G 9H. 1/4" magnetic female hex drive.

BIT-HOLDERS FOR DYNAMOMETRIC HANDLES

Overall length	mm	130
<b>794G 9T</b>	Each	<b>17,10</b>



**794G 9T**



**794G 9V**



1/4"

**Orig. Gedore - Art. 673 L**

Socket-holder in special steel to be used with Art. 794 G 9H. 1/4" male square drive.

**SOCKET-HOLDERS FOR DYNAMOMETRIC HANDLES**

Overall length	mm	130
<b>794G 9V</b>	Each	<b>13,60</b>

**TORQUE SCREWDRIVER SETS**

**794G 9VD**



1/4"

**Orig. Gedore - Art. 2140-3,0-025**

The set contains:

- No.1 x torque handle Art. 794G 9H 3 1/4 drive
- No.9 x bihexagonal sockets Art. 941 RAB 4-4.5-5-5.5-6-7-8-9-10mm
- No.1 x dual-component handle with 1/4" hexagonal drive, 90mm
- No.1 x magnetic bit-holder Art. 794G 9T
- No.1 x socket-holder Art. 794G 9V
- No.1 x internal hexagonal wrench Art. 914 G 6mm
- No.2 x flat-tip bits Art. 983 GA 4 - 6.5mm
- No.6 x internal hexagonal bits Art. 983 GL 2 - 2.5 - 3 - 4 - 5 - 6mm
- No.3 x cross-tip bits PH Art. 983 GC 0 - 1 - 2

In plastic case.

Complete assortment.

<b>794G 9VD</b>	Each	<b>235,00</b>
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**794G 9VF**



1/4"

**Orig. Gedore - Art. 2140-5,4-025**

The set contains:

- No.1 x torque handle Art. 794G 9H 5.4 1/4 drive
- No.9 x bihexagonal sockets Art. 941 RAB 4-4.5-5-5.5-6-7-8-9-10mm
- No.1 x dual-component handle with 1/4" hexagonal drive, 90mm
- No.1 x magnetic bit-holder Art. 794G 9T
- No.1 x socket-holder Art. 794G 9V
- No.1 x internal hexagonal wrench Art. 914 G 6mm
- No.2 x flat-tip bits Art. 983 GA 4 - 6.5mm
- No.6 x internal hexagonal bits Art. 983 GL 2 - 2.5 - 3 - 4 - 5 - 6mm
- No.3 x cross-tip bits PH Art. 983 GC 0 - 1 - 2

In plastic case.

Complete assortment.

<b>794G 9VF</b>	Each	<b>235,00</b>
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**TORQUE SCREWDRIVERS WITHOUT SIZES SCALE**

**794G 9Z 3** *new*

**794G 9Z 4** *new*



1/4"

**Orig. Torqueleader**

SLIDING MODEL WITHOUT SCALE for providing highly accurate repeat operations. This completely eradicates the possibility of exceeding any preset values. Handle can be tightened using the vacuum wheel provided. These screwdrivers must be pre-calibrated directly at their position of use, by using calibration devices as per Art. 793 G 10 to 793 GD and which have been locked to the requested setting which is included as part of the screwdriver clamping range as specified below. Tolerance: ± 10% for each scale reading.

Supplied WITHOUT certificate.

New ergonomic plastic handle. 1/4 female hex drive for bits.

For right-hand use and left-hand unscrewing only. Particularly suitable for controlled tightening of carbide tipped and clamps.

Art.		<b>794G 9Z 3</b>	<b>794G 9Z 4</b>
Tightening capacity	Nm	0,2-1,5	0,5-4,5
Overall length	mm	138	138
Supplier code		PRIME 150 FH	PRIME 450 FH
<b>Each</b>		<b>85,30</b>	<b>85,30</b>

**794G 9Z 5** *new*

**794G 9Z 7** *new*



1/4"

**Orig. Torqueleader**

SLIDING MODEL WITHOUT SCALE for providing highly accurate repeat operations. This completely eradicates the possibility of exceeding any preset values. Handle can be tightened using the vacuum wheel provided. These screwdrivers must be pre-calibrated directly at their position of use, by using calibration devices as per Art. 793 G 10 to 793 GD and which have been locked to the requested setting which is included as part of the screwdriver clamping range as specified below. Tolerance: ± 6% for each scale reading. Provided as per specification specified by DIN ISO 6789.

New ergonomic two-component non-slip handle. 1/4 female hex drive for bits.

For right-hand and left-hand use.

Art.		<b>794G 9Z 5</b>	<b>794G 9Z 7</b>
Tightening capacity	Nm	0,05-0,25	0,2-1,5
Overall length	mm	132	132
Supplier code		PRO 25 FH	PRO 150 FH
<b>Each</b>		<b>139,00</b>	<b>139,00</b>



**Orig. Torqueleader**

Product description as Art. 794G 9Z 5

New ergonomic two-component non-slip handle. 1/4 female hex drive for bits.  
For right-hand and left-hand use. Complete with sliding lever.

Art.	794G 9Z 11	794G 9Z 15
Tightening capacity	Nm 0,5-4,5	2,5-13,5
Overall length	mm 140	140
Supplier code	PRO 450 FH	PRO 1350 FH
<b>Each</b>	<b>144,00</b>	<b>144,00</b>



**794G 9Z 11**

*new*

**794G 9Z 15**

*new*

1/4"

Available on request: "PRO" screwdrivers for right-handed use and unscrewing only for left handed-use; also other versions "PRO ESD."

**Orig. Torqueleader**

Product description as Art. 794G 9Z 5

Aluminium handle. 1/4 female hex drive for bits.

Art. 794 G 9ZA: for right-hand and left-hand use.

Art. 794 G 9ZB: for right-hand use and left-hand unscrewing only.

Art.	794G 9ZA	794G 9ZB
Tightening capacity	cNm 0,5-22	0,5-22
Overall length	mm 104	116
Supplier code	TLS 0022 FH	TLS 0022 FH O/W
<b>Each</b>	<b>200,00</b>	<b>241,00</b>

Products running out of stock.



**794G 9ZA**

**794G 9ZB**

1/4"

**Orig. Torqueleader**

Product description as Art. 794G 9Z 5

Aluminium handle. 1/4 female hex drive for bits.

Art. 794 G 9ZE: for right-hand and left-hand use.

Art. 794 G 9ZF: for right-hand use and left-hand unscrewing only.

Art.	794G 9ZE	794G 9ZF
Tightening capacity	cNm 2-135	2-135
Overall length	mm 111	125
Supplier code	Minor FH	Minor FH O/W
<b>Each</b>	<b>163,00</b>	<b>210,00</b>

Products running out of stock.



**794G 9ZE**

**794G 9ZF**

1/4"

**Orig. Torqueleader**

Product description as Art. 794G 9Z 5

Aluminium handle. 1/4 male square drive for sockets.

Art. 794 G 9ZG: for right-hand and left-hand use.

Art. 794 G 9ZH: for right-hand use and left-hand unscrewing only.

Art.	794G 9ZG	794G 9ZH
Tightening capacity	cNm 2-135	2-135
Overall length	mm 143	143
Supplier code	Minor SD	Minor SD O/W
<b>Each</b>	<b>143,00</b>	<b>208,00</b>

Products running out of stock.



**794G 9ZG**

**794G 9ZH**

1/4"

**Orig. Torqueleader**

Product description as Art. 794G 9Z 5

Aluminium handle. 1/4 female hex drive for bits.

Art. 794 G 9ZL: for right-hand and left-hand use.

Art. 794 G 9ZM: for right-hand use and left-hand unscrewing only.

Art.	794G 9ZL	794G 9ZM
Tightening capacity	cNm 6-406	6-406
Overall length	mm 127	127
Supplier code	Standard FH	Standard FH O/W
<b>Each</b>	<b>171,00</b>	<b>221,00</b>

Products running out of stock.



**794G 9ZL**

**794G 9ZM**

1/4"

**794G 9ZO**   
**794G 9ZP**


1/4"

**Orig. Torqueleader**

Product description as Art. 794G 9Z 5

Aluminium handle. 1/4 male square drive for sockets.

Art. 794 G 9ZO: for right-hand and left-hand use.

Art. 794 G 9ZP: for right-hand use and left-hand unscrewing only.

Art.		794G 9ZO	794G 9ZP
Tightening capacity	cNm	6-406	6-406
Overall length	mm	159	159
Supplier code		Standard SD	Standard SD W/O
<b>Each</b>		<b>168,00</b>	<b>214,00</b>

Products running out of stock.

**794G 9ZR**   
**794G 9ZS**


1/4"

**Orig. Torqueleader**

Product description as Art. 794G 9Z 5

Aluminium handle. 1/4 female hex drive for bits. Complete with sliding lever.

Art. 794 G 9ZR: for right-hand and left-hand use.

Art. 794 G 9ZS: for right-hand use and left-hand unscrewing only.

Art.		794G 9ZR	794G 9ZS
Tightening capacity	Nm	1-13,6	1-13,6
Overall length	mm	137	137
Supplier code		TLS 1360 FH	TLS 1360 FH O/W
<b>Each</b>		<b>211,00</b>	<b>271,00</b>

Products running out of stock.

**794G 9ZV** 


1/4"

**Orig. Torqueleader - Art. TLS 1360 SD O/W**

Product description as Art. 794G 9Z 5

Aluminium handle. 1/4 male square drive for sockets. Complete with sliding lever.

Art. 794 G 9ZT: for right-hand and left-hand use.

Art. 794 G 9ZV: for right-hand use and left-hand unscrewing only.

Tightening capacity	Nm	1-13,6
Overall length	mm	168
<b>794G 9ZV</b>	<b>Each</b>	<b>264,00</b>

Product running out of stock.

**TORQUE SCREWDRIVERS**
**794G 10** 


1/4"

**Orig. Torqueleader - Art. QS Minor Metric FH**

Slipping type.

Aluminium handle.

Tightening adjustment on the handle front side through locking ring nut after setting of the desired torque value.  $\pm 6\%$  tolerance of the set value. Scale graduation with readings in cNm/Nm.

After tightening the handle turns idle. Bi-directional tightening.

Supplied with test certificate as per DIN ISO 6789.

Female hex 1/4" drive for bits.

Tightening capacity	cNm	20-120
Scale division		1 cNm
Overall length	mm	169
<b>794G 10</b>	<b>Each</b>	<b>341,00</b>

**794G 10E** 


1/4"

**Orig. Torqueleader - Art. QS Minor Metric SD**

Product description as Art. 794G 10

1/4" male square drive for sockets.

Tightening capacity	cNm	20-120
Scale division		1 cNm
Overall length	mm	160
<b>794G 10E</b>	<b>Each</b>	<b>333,00</b>

**794G 11** 


1/4"

**Orig. Torqueleader - Art. QS 6 FH**

Product description as Art. 794G 10

1/4" female hex drive for bits.

Tightening capacity	Nm	1-6
Scale division		0,1 Nm
Overall length	mm	184
<b>794G 11</b>	<b>Each</b>	<b>347,00</b>

**Orig. Torqueleader - Art. QS 6 SD**

Product description as Art. 794G 10

1/4" male square drive for sockets.

Tightening capacity	Nm	1-6
Scale division		0,1 Nm
Overall length	mm	222

<b>794G 11E</b>	Each	<b>339,00</b>
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**794G 11E**


**Orig. Torqueleader - Art. QS 9 FH**

Product description as Art. 794G 10

1/4" female hex drive for bits.

Tightening capacity	Nm	4-9
Scale division		0,1 Nm
Overall length	mm	184

<b>794G 12</b>	Each	<b>347,00</b>
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**794G 12**


**Orig. Torqueleader - Art. QS 9 SD**

Product description as Art. 794G 10

1/4" male square drive for sockets.

Tightening capacity	Nm	4-9
Scale division		0,1 Nm
Overall length	mm	222

<b>794G 12B</b>	Each	<b>339,00</b>
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**794G 12B**



Art. 794 G 11 - 11E - 12 - 12B can use the sliding lever Art. 946 GR.

**Orig. Torqueleader - Art. QSN 40 FH**

Sliding type.

Rubber-coated ergonomic handle.

 Tightening adjustment on the handle front side through locking ring nut after setting of the desired torque value.  $\pm 6\%$  tolerance of the scale set value. Scale graduation with readings in cNm/Nm.

After tightening the handle turns idle. Bi-directional tightening.

ESD approved. Supplied with test certificate as per DIN ISO 6789.

1/4" female hex drive for bits.

Tightening capacity	cNm	5-40
Scale division		1 cNm
Overall length	mm	159

<b>794G 12E</b>	Each	<b>414,00</b>
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**794G 12E**


**Orig. Torqueleader - Art. QSN 40 SD**

Product description as Art. 794G 12E

1/4" male square drive for sockets.

Tightening capacity	cNm	5-40
Scale division		1 cNm
Overall length	mm	159

<b>794G 12F</b>	Each	<b>410,00</b>
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**794G 12F**


**Orig. Torqueleader - Art. QSN 120 FH**

Product description as Art. 794G 12E

1/4" female hex drive for bits.

Tightening capacity	cNm	20-120
Scale division		1 cNm
Overall length	mm	183

<b>794G 12H</b>	Each	<b>375,00</b>
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**794G 12H**


**Orig. Torqueleader - Art. QSN 120 SD**

Product description as Art. 794G 12E

1/4" male square drive for sockets.

Tightening capacity	cNm	20-120
Scale division		1 cNm
Overall length	mm	183

<b>794G 12L</b>	Each	<b>366,00</b>
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**794G 12L**



**794G 12M** 

**Orig. Torqueleader - Art. QSN 600 FH**

Product description as Art. 794G 12E

1/4" female hex drive for bits.

Tightening capacity	Nm	1-6
Scale division		0,1 Nm
Overall length	mm	196

<b>794G 12M</b>	<b>Each</b>	<b>384,00</b>
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**794G 12P** 

**Orig. Torqueleader - Art. QSN 600 SD**

Product description as Art. 794G 12E

1/4" male square drive for sockets.

Tightening capacity	Nm	1-6
Scale division		0,1 Nm
Overall length	mm	196

<b>794G 12P</b>	<b>Each</b>	<b>375,00</b>
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**794G 12R** 

**Orig. Torqueleader - Art. QSN 900 FH**

Product description as Art. 794G 12E

1/4" female hex drive for bits.

Tightening capacity	Nm	4-9
Scale division		0,1 Nm
Overall length	mm	196

<b>794G 12R</b>	<b>Each</b>	<b>384,00</b>
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**794G 12S** 

**Orig. Torqueleader - Art. QSN 900 SD**

Product description as Art. 794G 12E

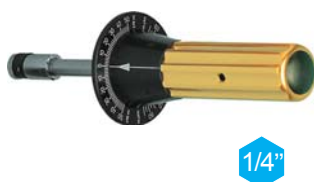
1/4" male square drive for sockets.

Tightening capacity	Nm	4-9
Scale division		0,1 Nm
Overall length	mm	196

<b>794G 12S</b>	<b>Each</b>	<b>375,00</b>
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Art. 794 G 12M - 12P - 12R - 12S can use the sliding lever Art. 946 GR.

**TORQUE SCREWDRIVERS - TIGHTENING-CONTROL**
**794G 15** 

**Orig. Torqueleader - Art. TT 50 FH**

Especially suited to quality control process, research and development and installations.

Aluminium handle.

± 6% tolerance of the set scale value.

Double scale graduation with readings in cNm, ozf. in/lbf. in.

Bi-directional tightening.

Supplied with test certificate as per DIN ISO 6789.

Complete with 1/4 socket adapter.

Tightening capacity	cNm	10-50
Tightening capacity	ozf.in.	14-70
Scale division		2 cNm/2 ozf.in.
Overall length	mm	178

<b>794G 15</b>	<b>Each</b>	<b>347,00</b>
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**794G 15A** 

**Orig. Torqueleader - Art. TT 50 SD**

Product description as Art. 794G 15

1/4" male square drive for sockets.

Tightening capacity	cNm	10-50
Tightening capacity	ozf.in.	14-70
Scale division		2 cNm/2 ozf.in.
Overall length	mm	178

<b>794G 15A</b>	<b>Each</b>	<b>339,00</b>
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**794G 16** 

**Orig. Torqueleader - Art. TT 100 FH**

Product description as Art. 794G 15

Complete with 1/4 socket adapter.

Tightening capacity	cNm	20-100
Tightening capacity	ozf.in.	28-140
Scale division		5 cNm/5 ozf.in.
Overall length	mm	178

<b>794G 16</b>	<b>Each</b>	<b>347,00</b>
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**Orig. Torqueleader - Art. TT 100 SD**

Product description as Art. 794G 15

1/4" male square drive for sockets.

Tightening capacity	cNm	20-100
Tightening capacity	ozf.in.	28-140
Scale division		5 cNm/5 ozf.in.
Overall length	mm	178

<b>794G 16A</b>	<b>Each</b>	<b>339,00</b>
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**794G 16A**



1/4"

**Orig. Torqueleader - Art. TT 250 FH**

Product description as Art. 794G 15

1/4" female hex drive for bits.

Tightening capacity	cNm	50-250
Tightening capacity	lbf.in	4-20
Scale division		10 cNm/0,5 lbf.in
Overall length	mm	250

<b>794G 17</b>	<b>Each</b>	<b>353,00</b>
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**794G 17**



1/4"

**Orig. Torqueleader - Art. TT 250 SD**

Product description as Art. 794G 15

1/4" male square drive for sockets.

Tightening capacity	cNm	50-250
Tightening capacity	lbf.in	4-20
Scale division		10 cNm/0,5 lbf.in
Overall length	mm	250

<b>794G 17A</b>	<b>Each</b>	<b>345,00</b>
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**794G 17A**



1/4"

**Orig. Torqueleader - Art. TT 500 FH**

Product description as Art. 794G 15

1/4" female hex drive for bits.

Tightening capacity	cNm	100-500
Tightening capacity	lbf.in	8-40
Scale division		20 cNm/1 lbf.in
Overall length	mm	250

<b>794G 18</b>	<b>Each</b>	<b>353,00</b>
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**794G 18**



1/4"

**Orig. Torqueleader - Art. TT 500 SD**

Product description as Art. 794G 15

1/4" male square drive for sockets.

Tightening capacity	cNm	100-500
Tightening capacity	lbf.in	8-40
Scale division		20 cNm/1 lbf.in
Overall length	mm	250

<b>794G 18A</b>	<b>Each</b>	<b>345,00</b>
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**794G 18A**



1/4"

Art. 794 G 17 - 17A - 18 - 18A can use the sliding lever Art. 946 GR.

**PRECISION TORQUE WRENCHES WITHOUT SIZES SCALE**

**Orig. Torqueleader**

SLIDING MODEL WITHOUT SCALE. High precision tightening on pre-set torque value. Over-tightening is not possible. Serial assembling and long-term work. Automatic reset. Stainless steel heads, body in special aluminium alloy, ergonomic non-slip rubber handgrip. Integrated ratchet function. "TSP" and "TSN" torque wrenches must be preset directly on the place of use by means of suitable torque testers Art. 793 GB - C -D/793 GL/793 GT and fixed on the desired value within the tightening range of the wrenches mentioned below.

Right operation.

Supplied with test certificate as per DIN ISO 6789.

± 6% tolerance of the scale set torque.

Art.		<b>794GA</b>	<b>794GB</b>
Square drive	inches	1/4	1/4
Tightening capacity	Nm	1-5	2-10
Tightening capacity	lbf.in	10-45	20-90
Overall length	mm	185	185
Weight	Kg	0,19	0,19
Supplier code		TSP 5	TSP 10
<b>Each</b>		<b>368,00</b>	<b>383,00</b>



**794GA  
794GB**



1/4"

**794GC**



**Orig. Torqueleader - Art. TSN 25D**  
 Product description as Art. 794GA  
 ± 4% tolerance of the scale set torque.  
 Square drive inches 1/4  
 Tightening capacity Nm 3-25  
 Tightening capacity lbf.ft 2-18  
 Overall length mm 216  
 Weight Kg 0,34

<b>794GC</b>	Each	<b>468,00</b>
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**794GD  
794GE**



**Orig. Torqueleader**  
 Product description as Art. 794GA  
 ± 4% tolerance of the scale set torque.

Art.		<b>794GD</b>	<b>794GE</b>
Square drive	inches	3/8	3/8
Tightening capacity	Nm	3-25	15-55
Tightening capacity	lbf.ft	2-18	10-40
Overall length	mm	216	324
Weight	Kg	0,34	0,80
Supplier code		TSN 25A	TSN 55
<b>Each</b>		<b>468,00</b>	<b>600,00</b>

Art. 794 GE is not EPA marked.

**794GF**



**Orig. Torqueleader - Art. TSN 125**  
 Product description as Art. 794GA  
 ± 4% tolerance of the scale set torque.

Square drive	inches	1/2
Tightening capacity	Nm	40-125
Tightening capacity	lbf.ft	30-90
Overall length	mm	460
Weight	Kg	1,36
<b>794GF</b>	Each	<b>681,00</b>

Torque wrenches Art. 794 GA to 794 GF can be fixed set at the factory on the desired value (price on request).

**PRECISION TORQUE WRENCHES WITHOUT SIZES SCALE, WITH SIGNAL OUTPUT SYSTEM**

**794GH**   
*new*



**Orig. Torqueleader**  
 SLIDING TYPE WITHOUT SCALE WITH ELECTRONIC SWITCH (Sw), that allows an external device to check if the pre-set torque value has been reached and to count how many times this value has been applied. The wrench is connected to the monitoring device by means of a cable and can be interfaced with computers, switches etc. This system allows for the automated monitoring of the application process of tightening in any line production.  
 Other features of the wrenches similar to Art. 794 GA-B-D-E-F.  
 The wrenches are supplied with a switch Art. 794 GHA and a cable of the length of approx. 6 m Art. 794 GHB.

Size		<b>5</b>	<b>10</b>	<b>25</b>	<b>55</b>	<b>125</b>
Square drive	inches	1/4	1/4	3/8	3/8	1/2
Tightening capacity	Nm	1-5	2-10	5-25	15-55	40-125
Tightening capacity	lbf.in/ft	10-45	20-90	4-18	10-40	30-90
Overall length	mm	335	335	366	474	610
Weight	Kg	0,53	0,53	0,68	1,14	1,70
Supplier code		TSP 5 Sw	TSP 10 Sw	TSN 25 A Sw	TSN 55 Sw	TSN 125 Sw
<b>794GH</b>	Each	<b>951,00</b>	<b>966,00</b>	<b>1.060,00</b>	<b>1.190,00</b>	<b>1.270,00</b>

On request the spanners Art. 794 GH can be supplied pre-calibrated to the desired value for an additional charge.

**794GHA**   
*new*



**Orig. Torqueleader - Art. B25900**  
 ELECTRIC SWITCH FOR Sw type TORQUE WRENCHES, used on all torque wrenches Art. 794 GH 5-10-25-55-125 and 804 GA 2-10-25-65-135. It connects to the line production control system via cable Art. 794 GHB or 794 GHC.  
 Capacity of output signal from max. 100 mA DC 30 V to min. 100 uA AC 50 mV.  
 Supplied without cable.

<b>794GHA</b>	Each	<b>263,00</b>
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**Orig. Torqueleader - Art. D94402**

**CONNECTION CABLES**

between the electrical switch Art. 794 GHA and the line production control system or signal unit Art. 794 GHE.

Flat cable, total length 5 m.

<b>794GHB</b>	Each	<b>188,00</b>
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**794GHB**  
new



**Orig. Torqueleader - Art. D94406**

Product description as Art. 794GHB

Coiled cable, total length in in extension approx. 5 m.

<b>794GHC</b>	Each	<b>291,00</b>
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**794GHC**  
new



**Orig. Torqueleader - Art. C12870**

SERVICE DATA UNIT (SDU) that allows you to amplify, stabilize and adjust the signal transmitted by the torque wrenches by means of a switch (Sw) Art. 794 and 804 GH 5-10-25-55-125 GA 2-10-25-65- 135.

This system reduces the risk of failure to report the activation of the torque wrench.

The unit can be powered by 4 AA alkaline batteries (Art. 3600 E, not supplied) or DC 6V. It is connected to the torque wrenches via cables Art. 794 GHB/C and to the external devices via output contacts to 5 A for 110 V AC or 24 V DC.

Equipped with 1 YELLOW LED to battery power insufficient, 1 RED LED when no signal is transmitted, 1 GREEN LED when the signal is transmitted.

<b>794GHE</b>	Each	<b>571,00</b>
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**794GHE**  
new

**PRECISION TORQUE WRENCHES**

**Orig. Torqueleader**

Sliding model, with scale. High precision tightening on pre-set torque value.

Over-tightening is not possible. Serial assembling and long-term work. Automatic reset. Stainless steel heads, body in special aluminium alloy, ergonomic non-slip rubber handgrip. Integrated ratchet function.

Right operation.

Supplied with test certificate as per DIN ISO 6789.

± 6% tolerance of the scale set torque.

Art.		<b>794GM</b>	<b>794GP</b>
Square drive	inches	1/4	1/4
Tightening capacity	Nm	1-5	2-10
Scale division		0,05 Nm	0,1 Nm
Overall length	mm	195	195
Weight	Kg	0,24	0,24
Supplier code		TSC 5	TSC 10
<b>Each</b>		<b>426,00</b>	<b>437,00</b>



**794GM**  
**794GP**

**Orig. Gedore**

Click type.

For precise, even tightening of screws and bolts. Tolerance: ± 3% for each scale reading. High quality performance ensured. Gedore torque wrenches are characterised by the high resistance of their light alloy body and alloyed steel component parts. Adjusted using a jointed socket that is extracted from the handle. Audible signal ("click") on reaching the set torque value. Square drive for right-handed operation. Two square drives for right/left-handed operation.

Supplied with DIN ISO 6789 test certificate.

Torque wrenches Art. 794GR / 795G 2-6-10-14-22-24A-26-30-34-36E-38-41 are supplied in a case also designed to hold relevant accessories such as sockets, extensions, ratchet heads, etc.

Art.		<b>794GR</b>	<b>794GS</b>	<b>794GT</b>
Square drive	inches	1/4	1/4	1/4
Tightening capacity	Nm	6-30	6-30	6-30
Tightening capacity	lbf.in	50-270	50-270	50-270
Scale division		1 Nm/10 lbf.in	1 Nm/10 lbf.in	1 Nm/10 lbf.in
Overall length	mm	265	265	265
Weight	Kg	0,6	0,9	0,6
Frame		Simple right D	Simple right D	Double right and left D-S
Package in case		Plastic	Plastic box	Plastic
Supplier code		8554-01	8554-02	8559-01
<b>Each</b>		<b>499,00</b>	<b>570,00</b>	<b>520,00</b>



**794GR**  
**794GS**  
**794GT**

795G 1  
795G 2  
795G 3



3/8"

Product description as Art. 794GR

Art.		795G 1	795G 2	795G 3
Square drive	inches	3/8	3/8	3/8
Tightening capacity	Nm	8-40	8-40	8-40
Tightening capacity	lbf.in	70-350	70-350	70-350
Scale division		5 Nm/50 lbf.in	5 Nm/50 lbf.in	5 Nm/50 lbf.in
Overall length	mm	340	340	340
Weight	Kg	1	2,2	1
Frame		Simple right D	Simple right D	Double right and left D-S
Package in case		Plastic	Metal box	Plastic
Supplier code		8560-01	8560-02	8565-01
<b>Each</b>		<b>581,00</b>	<b>680,00</b>	<b>591,00</b>

795G 5  
795G 6  
795G 7



1/2"

Product description as Art. 794GR

Art.		795G 5	795G 6	795G 7
Square drive	inches	1/2	1/2	1/2
Tightening capacity	Nm	20-120	20-120	20-120
Tightening capacity	lbf.ft	15-90	15-90	15-90
Scale division		5 Nm/5 lbf.ft	5 Nm/5 lbf.ft	5 Nm/5 lbf.ft
Overall length	mm	463	463	463
Weight	Kg	1,5	2,8	1,5
Frame		Simple right D	Simple right D	Double right and left D-S
Package in case		Plastic	Metal box	Plastic
Supplier code		8561-01	8561-02	8566-01
<b>Each</b>		<b>645,00</b>	<b>761,00</b>	<b>667,00</b>

795G 9  
795G 10  
795G 11



1/2"

Product description as Art. 794GR

Art.		795G 9	795G 10	795G 11
Square drive	inches	1/2	1/2	1/2
Tightening capacity	Nm	40-200	40-200	40-200
Tightening capacity	lbf.ft	30-150	30-150	30-150
Scale division		5 Nm/5 lbf.ft	5 Nm/5 lbf.ft	5 Nm/5 lbf.ft
Overall length	mm	553	553	553
Weight	Kg	1,4	3,5	1,4
Frame		Simple right D	Simple right D	Double right and left D-S
Package in case		Plastic	Metal box	Plastic
Supplier code		8573-00	8573-02	8578-00
<b>Each</b>		<b>707,00</b>	<b>845,00</b>	<b>729,00</b>

795G 13  
795G 14  
795G 15



1/2"

Product description as Art. 794GR

Art.		795G 13	795G 14	795G 15
Square drive	inches	1/2	1/2	1/2
Tightening capacity	Nm	50-300	50-300	50-300
Tightening capacity	lbf.ft	35-220	35-220	35-220
Scale division		5 Nm/5lbf.ft	5 Nm/5 lbf.ft	5 Nm/5 lbf.ft
Overall length	mm	618	618	618
Weight	Kg	2	3,6	2
Frame		Simple right D	Simple right D	Double right and left D-S
Package in case		Plastic	Metal box	Plastic
Supplier code		8562-10	8562-20	8567-10
<b>Each</b>		<b>809,00</b>	<b>945,00</b>	<b>832,00</b>

795G 21  
795G 22  
795G 23



3/4"

Product description as Art. 794GR

Art.		795G 21	795G 22	795G 23
Square drive	inches	3/4	3/4	3/4
Tightening capacity	Nm	80-360	80-360	80-360
Tightening capacity	lbf.ft	60-260	60-260	60-260
Scale division		5 Nm/5 lbf.ft	5 Nm/5 lbf.ft	5 Nm/5 lbf.ft
Overall length	mm	718	718	718
Weight	Kg	2,4	6,2	2,4
Frame		Simple right D	Simple right D	Double right and left D-S
Package in case		Cardboard	Metal box	Cardboard
Supplier code		8570-10	8570-20	8575-10
<b>Each</b>		<b>1.100,00</b>	<b>1.310,00</b>	<b>1.120,00</b>

795G 24  
795G 24A  
795G 24B



3/4"

Product description as Art. 794GR

Art.		795G 24	795G 24A	795G 24B
Square drive	inches	3/4	3/4	3/4
Tightening capacity	Nm	110-550	110-550	110-550
Tightening capacity	lbf.ft	80-400	80-400	80-400
Scale division		10 Nm/10 lbf.ft	10 Nm/10 lbf.ft	10 Nm/10 lbf.ft
Overall length	mm	812	812	812
Weight	Kg	2,9	6,7	2,9
Frame		Simple right D	Simple right D	Double right and left D-S
Package in case		Cardboard	Metal box	Cardboard
Supplier code		8574-10	8574-20	8579-10
<b>Each</b>		<b>1.450,00</b>	<b>1.670,00</b>	<b>1.480,00</b>



## Product description as Art. 794GR

Art.		795G 25	795G 26	795G 27
Square drive	inches	3/4	3/4	3/4
Tightening capacity	Nm	140-760	140-760	140-760
Tightening capacity	lbf.ft	100-550	100-550	100-550
Scale division		10 Nm/10 lbf.ft	10 Nm/10 lbf.ft	10 Nm/10 lbf.ft
Overall length	mm	812	812	812
Weight	Kg	3,2	7,7	3,2
Frame		Simple right D	Simple right D	Double right and left D-S
Package in case		Cardboard	Metal box	Cardboard
Supplier code		8563-10	8563-20	8568-10
<b>Each</b>		<b>1.540,00</b>	<b>1.760,00</b>	<b>1.570,00</b>

**795G 25**  
**795G 26**  
**795G 27**


3/4"

## Product description as Art. 794GR

Art.		795G 29	795G 30	795G 31
Square drive	inches	3/4	3/4	3/4
Tightening capacity	Nm	140-760	140-760	140-760
Tightening capacity	lbf.ft	100-550	100-550	100-550
Scale division		10 Nm/10 lbf.ft	10 Nm/10 lbf.ft	10 Nm/10 lbf.ft
Overall length	mm	Only wrench 800- With extension 1400	Only wrench 800- With extension 1400	Only wrench 800-With extension 1400
Weight	Kg	5,0	8,8	5,0
Frame		Simple right D	Simple right D	Double right and left D-S
Package in case		Cardboard	Metal box	Cardboard
Supplier code		8563-01	8563-02	8568-01
<b>Each</b>		<b>1.700,00</b>	<b>2.110,00</b>	<b>1.910,00</b>

**795G 29**  
**795G 30**  
**795G 31**


3/4"

## Product description as Art. 794GR

Art.		795G 33	795G 34	795G 35
Square drive	inches	3/4	3/4	3/4
Tightening capacity	Nm	520-1000	520-1000	520-1000
Tightening capacity	lbf.ft	380-730	380-730	380-730
Scale division		10 Nm/10 lbf.ft	10 Nm/10 lbf.ft	10 Nm/10 lbf.ft
Overall length	mm	Only wrench 800- With extension 1400	Only wrench 800- With extension 1400	Only wrench 800-With extension 1400
Weight	Kg	5,6	10	5,6
Frame		Simple right D	Simple right D	Double right and left D-S
Package in case		Cardboard	Metal box	Cardboard
Supplier code		8571-01	8571-02	8576-01
<b>Each</b>		<b>1.880,00</b>	<b>2.110,00</b>	<b>1.910,00</b>

**795G 33**  
**795G 34**  
**795G 35**


3/4"

## Product description as Art. 794GR

Art.		795G 36A	795G 36E	795G 36L
Square drive	inches	1	1	1
Tightening capacity	Nm	600-1500	600-1500	600-1500
Scale division		25 Nm	25 Nm	25 Nm
Overall length	mm	Only wrench 920- With 1 extension 1600	Only wrench 920- With 1 extension 1600	Only wrench 920-With 1 extension 1600
Weight	Kg	10,8	24,3	10,8
Frame		Simple right D	Simple right D	Double right and left D-S
Package in case		Cardboard	Metal box	Cardboard
Supplier code		8581-01	8581-02	8586-01
<b>Each</b>		<b>2.500,00</b>	<b>3.010,00</b>	<b>2.570,00</b>

**795G 36A**  
**795G 36E**  
**795G 36L**


1"

## Product description as Art. 794GR

Art.		795G 37	795G 38	795G 39
Square drive	inches	1	1	1
Tightening capacity	Nm	750-2000	750-2000	750-2000
Scale division		50 Nm	50 Nm	50 Nm
Overall length	mm	Only wrench 900- With 2 extensions 2000	Only wrench 900- With 2 extensions 2000	Only wrench 900-With 2 extensions 2000
Weight	Kg	11,6	24,3	11,6
Frame		Simple right D	Simple right D	Double right and left D-S
Package in case		Cardboard	Metal box	Cardboard
Supplier code		8564-01	8564-02	8569-01
<b>Each</b>		<b>3.230,00</b>	<b>3.740,00</b>	<b>3.320,00</b>

**795G 37**  
**795G 38**  
**795G 39**


1"

## Product description as Art. 794GR

Art.		795G 40	795G 41
Square drive	inches	1 1/2	1 1/2
Tightening capacity	Nm	1500-3000	1500-3000
Scale division		50 Nm	50 Nm
Overall length	mm	Only wrench 1030-With 2 extensions 2350	Only wrench 1030-With 2 extensions 2350
Weight	Kg	13,2	24
Frame		Simple right D	Simple right D
Package in case		Cardboard	Metal box
Supplier code		8572-01	8572-02
<b>Each</b>		<b>3.700,00</b>	<b>4.210,00</b>

**795G 40**  
**795G 41**


1 1/2"

## PRECISION TORQUE WRENCH SETS

**796G 1**  
**796G 3**



1/4"

**Orig. Gedore - Art. 8554-03**

The set contains a torque wrench complete with sockets, extensions and ratchet heads delivered in metal case. (Art. 796 G/1 - 796 G/3 are available in plastic case).

The set consists of:

- 1 x 794 GR torque wrench
- 1 x socket ratchet
- 7 x 8-9-10-11-12-13-14mm hexagonal sockets
- 4 x 4-5-6-8mm internal hexagonal sockets
- 1 flat-tip socket 5.5mm
- 1 cross-tip socket PH 3
- 3 x 20-27-30 Torx sockets
- 2 x 55-100mm extensions

Square drive inches 1/4

Weight Kg 1,3

<b>796G 1</b>	<b>Each</b>	<b>858,00</b>
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**Orig. Gedore - Art. 8559-03**

Product description as Art. 796G 1

The set consists of:

- 1 x 794 GT torque wrench
- 1 x socket ratchet
- 7 x 8-9-10-11-12-13-14mm hexagonal sockets
- 4 x 4-5-6-8mm internal hexagonal sockets
- 1 flat-tip socket 5.5mm
- 1 cross-tip socket PH 3
- 3 x 20-27-30 Torx sockets
- 2 x 55-100mm extensions

Square drive inches 1/4

Weight Kg 1,3

<b>796G 3</b>	<b>Each</b>	<b>870,00</b>
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**796GA**  
**796GB**



3/8"

**Orig. Gedore - Art. 8560-03**

Product description as Art. 796G 1

The set consists of:

- 1 torque wrench 795 G 1
- 1 socket ratchet
- 8 hexagonal sockets 8-10-11-13-14-15-17-19mm
- 4 x 4-5-6-8mm internal hexagonal sockets
- 2 x 125-250mm extensions

Square drive inches 3/8

Weight Kg 3,1

<b>796GA</b>	<b>Each</b>	<b>963,00</b>
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**Orig. Gedore - Art. 8565-03**

Product description as Art. 796G 1

The set consists of:

- 1 torque wrench 795 G 3
- 1 socket ratchet
- 8 hexagonal sockets 8-10-11-13-14-15-17-19mm
- 4 x 4-5-6-8mm internal hexagonal sockets
- 2 x 125-250mm extensions

Square drive inches 3/8

Weight Kg 3,1

<b>796GB</b>	<b>Each</b>	<b>972,00</b>
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**796GC**  
**796GD**



1/2"

**Orig. Gedore - Art. 8561-03**

Product description as Art. 796G 1

The set consists of:

- 1 x 795 G 5 torque wrench
- 1 x socket ratchet
- 7 x 11-13-14-17-19-22-24mm hexagonal sockets
- 4 x 6-8-10-12mm internal hexagonal sockets
- 3 x 75-125-250mm extensions

Square drive inches 1/2

Weight Kg 4,8

<b>796GC</b>	<b>Each</b>	<b>1.100,00</b>
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**Orig. Gedore - Art. 8566-03**

Product description as Art. 796G 1

The set consists of:

- 1 x 795 G 7 torque wrench
- 1 x socket ratchet
- 7 x 11-13-14-17-19-22-24mm hexagonal sockets
- 4 x 6-8-10-12mm internal hexagonal sockets
- 3 x 75-125-250mm extensions

Square drive inches 1/2

Weight Kg 4,8

<b>796GD</b>	<b>Each</b>	<b>1.120,00</b>
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**796GE**  
**796GF**



1/2"

**Orig. Gedore - Art. 8562-30**

Product description as Art. 796G 1

The set consists of:

- 1 x 795 G 13 torque wrench
- 1 x socket ratchet
- 7 x 17-19-22-24-27-30-32mm hexagonal sockets
- 4 x 8-10-12-14mm internal hexagonal sockets
- 3 x 75-125-250mm extensions

Square drive inches 1/2

Weight Kg 6,0

<b>796GE</b>	<b>Each</b>	<b>1.300,00</b>
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**Orig. Gedore - Art. 8567-30**

Product description as Art. 796G 1

The set consists of:

- 1 x 795 G 15 torque wrench
- 1 x socket ratchet
- 7 x 17-19-22-24-27-30-32mm hexagonal sockets
- 4 x 8-10-12-14mm internal hexagonal sockets
- 3 x 75-125-250mm extensions

Square drive inches 1/2

Weight Kg 6,0

<b>796GF</b>	<b>Each</b>	<b>1.330,00</b>
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**796GH**  
**796GL**



3/4"

**Orig. Gedore - Art. 8570-30**

Product description as Art. 796G 1

The set consists of:

- 1 x 795 G 21 torque wrench
- 1 x socket ratchet
- 6 x 19-22-24-27-30-32mm hexagonal sockets
- 2 x 200-400mm extensions

Square drive inches 3/4

Weight Kg 11

<b>796GH</b>	<b>Each</b>	<b>1.790,00</b>
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**Orig. Gedore - Art. 8575-30**

Product description as Art. 796G 1

The set consists of:

- 1 x 795 G 23 torque wrench
- 1 x socket ratchet
- 6 x 19-22-24-27-30-32mm hexagonal sockets
- 2 x 200-400mm extensions

Square drive inches 3/4

Weight Kg 11

<b>796GL</b>	<b>Each</b>	<b>1.810,00</b>
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**Orig. Gedore - Art. 8563-30**

Product description as Art. 796G 1

The set consists of:

- 1 x 795 G 25 torque wrench
- 1 x socket ratchet
- 8 x 22-24-27-30-32-36-41-46mm hexagonal sockets
- 2 x 200-400mm extensions

Square drive	inches	3/4
Weight	Kg	13,6
<b>796GM</b>	<b>Each</b>	<b>2.300,00</b>

**Orig. Gedore - Art. 8568-30**

Product description as Art. 796G 1

The set consists of:

- 1 x 795 G 27 torque wrench
- 1 x socket ratchet
- 8 x 22-24-27-30-32-36-41-46mm hexagonal sockets
- 2 x 200-400mm extensions

Square drive	inches	3/4
Weight	Kg	13,6
<b>796GN</b>	<b>Each</b>	<b>2.330,00</b>



3/4"

**796GM**  
**796GN**

**Orig. Gedore - Art. 8571-03**

Product description as Art. 796G 1

The set consists of:

- 1 x 795 G 33 torque wrench
- 1 socket ratchet
- 6 x 30-32-36-41-46-50mm hexagonal sockets
- 2 x 200-400mm extensions

Square drive	inches	3/4
Weight	Kg	16,8
<b>796GP</b>	<b>Each</b>	<b>2.650,00</b>

**Orig. Gedore - Art. 8576-03**

Product description as Art. 796G 1

The set consists of:

- 1 795 G 35 torque wrench
- 1 socket ratchet
- 6 x 30-32-36-41-46-50mm hexagonal sockets
- 2 x 200-400mm extensions

Square drive	inches	3/4
Weight	Kg	16,8
<b>796GQ</b>	<b>Each</b>	<b>2.680,00</b>



3/4"

**796GP**  
**796GQ**

**Orig. Gedore - Art. 8564-03**

Product description as Art. 796G 1

The set consists of:

- 1 x 795 G 37 torque wrench
- 1 x socket ratchet
- 8 x 36-41-46-50-55-60-65-70mm hexagonal sockets
- 2 x 200-400mm extensions

Square drive	inches	1
Weight	Kg	30,4
<b>796GR</b>	<b>Each</b>	<b>5.270,00</b>

**Orig. Gedore - Art. 8569-03**

Product description as Art. 796G 1

The set consists of:

- 1 x 795 G 39 torque wrench
- 1 x socket ratchet
- 8 x 36-41-46-50-55-60-65-70mm hexagonal sockets
- 2 x 200-400mm extensions

Square drive	inches	1
Weight	Kg	30,4
<b>796GS</b>	<b>Each</b>	<b>5.350,00</b>



1"

**796GR**  
**796GS**

**TORQUE WRENCHES FOR ANGLE CONTROLLED TIGHTENING**

**Orig. Gedore**

Click type. To perform dynamometric and angle- controlled tightenings. Allow bolt serial tightening and safety control tightening. ± 3% tolerance of the scale set torque. Normally used also for normal torque tightening control. The torque wrench and the angle indicator are locked together on the main pin. The reference position of the angle indicator is determined by means of a sliding magnetic arm. Supplied with test certificate in accordance with DIN ISO 6789.

Standard equipment:

- 1 torque wrench for angle controlled tightening
- 1 x ratchet head 1/2 for clockwise tightening
- 1 x 125mm extension
- 1 x 250mm extension

Supplied in metal case.

Art.		<b>798GD</b>	<b>798GE</b>
Drive	inches	1/2	1/2
Tightening capacity	Nm	20-120	40-200
Tightening capacity	lbf.ft	15-90	30-150
Scale division		5 Nm/5 lbf.ft	5 Nm/5 lbf.ft
Overall length	mm	485	575
Supplier code		8261-03	8273-03
<b>Each</b>		<b>936,00</b>	<b>975,00</b>

Products running out of stock.



1/2"

**798GD**  
**798GE**

**ANGLE INDICATORS FOR CONTROLLED ANGLE CLAMPING**

**Orig. Gedore - Art. 8200-11**

Cheap type.

For angular values clamping. Necessary for nut orientation and final clamping.

360° graduated goniometer with magnet and flexible arm for fixing point 0°.

Clamping strength max. 390 Nm.

Male drive	inches	1/2
Female drive	inches	1/2
<b>798GH 2</b>	<b>Each</b>	<b>192,00</b>



1/2"

**798GH 2**

**798GH 3**



**Orig. Gedore - Art. 8200-01**

Professional type.

For angular values clamping. Necessary for nut orientation and final clamping.

Alloy steel goniometer, 360° graduated, with flexible arm, clamping spring and magnet for fixing point 0°.

Max. tightening capacity	Nm	390
Male drive	inches	1/2
Female drive	inches	1/2

<b>798GH 3</b>	<b>Each</b>	<b>313,00</b>
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**798GH 5**



**Orig. Gedore - Art. 8200-02**

Product description as Art. 798GH 3

Max. tightening capacity	Nm	1330
Male drive	inches	3/4
Female drive	inches	3/4

<b>798GH 5</b>	<b>Each</b>	<b>459,00</b>
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Torque wrench max. clamping strength includes angular values.

**DIRECT READING TORQUE WRENCHES**

**798GP 1**  
**798GP 1A**  
**798GP 2**



**Orig. Torqueleader**

Model with dial to check tightening. ± 4% tolerance of the scale set torque. Special light alloy body with rubber ergonomic handle. Double scale with readings in Nm-lbf. in./lbf. ft. For bi-directional tightening.

Also suitable to determine torque values of already tightened bolts.

Supplied with test certificate in accordance with DIN ISO 6789.

With integrated ratchet. Supplied in synthetic material case

Art.		<b>798GP 1</b>	<b>798GP 1A</b>	<b>798GP 2</b>
Drive	inches	1/4	1/4	1/4
Tightening capacity	Nm	0,8-4	1,6-8,0	2,4-12
Tightening capacity	lbf.in	7-35	14-70	24-120
Scale division		0,1 Nm/1 lbf.in	0,25 Nm/1 lbf.in	0,5 Nm/2 lbf.in
Overall length	mm	244	244	244
Weight	Kg	0,52	0,52	0,52
Supplier code		ADS 4	ADS 8	ADS 12 D

<b>Each</b>	<b>524,00</b>	<b>524,00</b>	<b>524,00</b>
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Available on request: same wrenches with audiovideo signal when the pre-set value is reached.

**798GP 3**  
**798GP 4**



Product description as Art. 798GP 1

With integrated ratchet. Supplied in synthetic material case

Art.		<b>798GP 3</b>	<b>798GP 4</b>
Drive	inches	3/8	3/8
Tightening capacity	Nm	5-25	8-40
Tightening capacity	lbf.in	48-240	72-360
Scale division		1 Nm/10 lbf.in	1 Nm/10 lbf.in
Overall length	mm	244	244
Weight	Kg	0,52	0,52
Supplier code		ADS 25	ADS 40

<b>Each</b>	<b>524,00</b>	<b>524,00</b>
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Available on request: same wrenches with audiovideo signal when the pre-set value is reached.

**798GP 5**  
**798GP 5A**  
**798GP 6**



Product description as Art. 798GP 1

With integrated ratchet. Supplied in plastic wallet.

Art.		<b>798GP 5</b>	<b>798GP 5A</b>	<b>798GP 6</b>
Drive	inches	1/2	1/2	1/2
Tightening capacity	Nm	16-80	32-160	40-200
Tightening capacity	lbf.ft	12-60	24-120	30-160
Scale division		2 Nm/1 lbf.ft	2,5 Nm/2 lbf.ft	5 Nm/5 lbf.ft
Overall length	mm	435	515	515
Weight	Kg	1,36	1,41	1,41
Supplier code		BDS 80 E	BDS 160	BDS 200

<b>Each</b>	<b>796,00</b>	<b>796,00</b>	<b>796,00</b>
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Available on request: same wrenches with audiovideo signal when the pre-set value is reached.

Product description as Art. 798GP 1

Integrated ratchet function. Provided with acoustic-visual signal on reaching of the preset torque value.

Supplied in cardboard packaging.

Art.		798GP 7	798GP 8
Drive	inches	3/4	3/4
Tightening capacity	Nm	80-400	160-800
Tightening capacity	lbf.ft	60-300	120-600
Scale division		10 Nm/10 lbf.ft	20 Nm/20 lbf.ft
Overall length	mm	710	1000
Weight	Kg	3,1	4,85
Supplier code		CDS 400 S	DDS 800 S
<b>Each</b>		<b>1.310,00</b>	<b>1.650,00</b>



798GP 7  
798GP 8



3/4"

3

Product description as Art. 798GP 1

Provided with acoustic-visual signal on reaching of the preset torque value. With extension.

Supplied in cardboard packaging.

Art.		798GP 9	798GP 10
Drive	inches	1	1
Tightening capacity	Nm	280-1400	400-2000
Tightening capacity	lbf.ft	200-1000	300-1500
Scale division		25 Nm/25 lbf.ft	50 Nm/50 lbf.ft
Overall length	mm	2040	2040
Weight	Kg	16,7	16,7
Supplier code		EDS 1400 S	EDS 2000 S
<b>Each</b>		<b>3.650,00</b>	<b>3.650,00</b>



798GP 9  
798GP 10



1"

## TORQUE WRENCHES

### Orig. Gedore

Heavy duty break model with built-in ratchet mechanism for bi-directional tightening.

± 4% tolerance for any set torque value.

Automatic release, angled and braked movement of the handle. Scale adjustment in the handle.

Supplied with test certificate as per DIN ISO 6789.

Art.		798GR 1	798GR 2	798GR 3	798GR 4
Square drive	inches	3/4	3/4	3/4	3/4
Tightening capacity	Nm	100-500	150-700	300-1000	700-1500
Tightening capacity	lbf.ft	70-350	100-500	200-750	500-1000
Scale division		10 Nm	10 Nm	20 Nm	25 Nm
Overall length	mm	915	1090	1470	1470
Weight	Kg	5,5	6,0	7,3	10,5
Supplier code		8800-01	8800-02	8800-03	8800-04
<b>Each</b>		<b>797,00</b>	<b>865,00</b>	<b>914,00</b>	<b>1.350,00</b>



798GR 1  
798GR 2  
798GR 3  
798GR 4



3/4"

Art. 798GR4 is provided with an adjusting double hexagon and shackle.

### Orig. Torqueleader

Dividing model providing real accuracy for repeating processes with a set value. Robust construction for long performance life for fitting a series of left and right sided ratchets by using the disc. Tolerance: ± 4% for each scale reading. Automatic disconnection with 20° angular rod body movement. Automatic reset function. Micrometer Nm scale providing a clear view of the values.

Ergonomic adjustment by rotating the soft rubber handle complete with safety lock.

For right-handed use

Equipped with items certified as per DIN ISO 6789.

Square drive	mm	1/4	3/8	1/2
Tightening capacity	Nm	5-25	10-50	20-100
Scale division		0,1 Nm	0,25 Nm	0,5 Nm
Overall length	mm	345	365	400
Weight	Kg	1,11	1,14	1,3
Supplier code		ATB 25D	ATB 50	ATB 100
<b>799G</b>	<b>Each</b>	<b>452,00</b>	<b>407,00</b>	<b>407,00</b>



799G



1/4"

3/8"

1/2"

Products 799G 3/8 and 1/2 running out of stock.

## 800GA



1/4"

3/8"

1/2"

### Orig. Carolus

Release type model.

Suitable for precision installations. Handy left and right side ratchets, which can be reversed through the framework. Can be adjusted by rotating the ergonomic plastic handle with a safety lock for final positioning.

Tolerance:  $\pm 3\%$  for each scale reading. Double micrometer scale Nm/lbf.ft with figures which can be viewed via a magnifying glass and which can be finely tuned and adjusted by using the handle. Equipped with items certified as per DIN ISO 6789.

Size		25	70	100	200	300
Square drive	inches	1/4	3/8	1/2	1/2	1/2
Tightening capacity	Nm	5-25	14-70	20-100	40-200	60-300
Tightening capacity	lbf.ft	3,7-18	10-52	15-75	30-150	45-220
Scale division		0,1 Nm	0,20 Nm	0,5 Nm	1 Nm	1 Nm
Overall length	mm	285	350	395	485	575
Supplier code		4900.025	6900.070	5900.100	5900.200	5900.300
	<b>800GA</b>	<b>Each</b>	<b>209,00</b>	<b>209,00</b>	<b>209,00</b>	<b>219,00</b>

## 800GB



3/4"

Release type model.

Suitable for precision installations. Handy left and right side ratchets, which can pass through the framework. Can be adjusted by rotating the ergonomic plastic handle with a safety lock for final positioning.

Tolerance:  $\pm 3\%$  for each scale reading. Double micrometer scale Nm/lbf.ft with figures which can be viewed via a magnifying glass and which can be finely tuned and adjusted by using the handle. Equipped with items certified as per DIN ISO 6789.

Size		400	550
Square drive	inches	3/4	3/4
Tightening capacity	Nm	80-400	110-550
Tightening capacity	lbf.ft	60-300	80-405
Scale division		1 Nm	1 Nm
Overall length	mm	685	955
Supplier code		8900.400	8900.550
	<b>800GB</b>	<b>Each</b>	<b>371,00</b>   <b>581,00</b>

Square fitting parts for torque wrenches in accordance with Art. 800 GA - B.

Art. O800 GC 1/4 - 3/8 - 1/2: with disk.

Art. O800 GC 3/4: without disk.

Square drive	inches	1/4	3/8	1/2	3/4
<b>O800GC</b>	<b>Each</b>	<b>13,10</b>	<b>11,20</b>	<b>11,20</b>	<b>11,80</b>

## 801GR

## 801GS



1/4"

### Orig. Gedore

Click type, suitable to precise tightening. Handy construction with right/left ratchet mechanism, with reverse square drive. Adjustment obtained by rotating the ergonomically shaped nylon handgrip, safety lock at the extremity.

$\pm 3\%$  tolerance of the scale set torque. Double scale with graduation Nm/lbf.ft on handle below a window with a magnifying-glass effect for a more precise reading.

Supplied with test certificate as per DIN ISO 6789.

Art.		801GR	801GS
Square drive	inches	1/4	1/4
Tightening capacity	Nm	1-5	2-25
Tightening capacity	lbf.ft	0,75-3,7	1,5-18
Scale division		0,025 Nm	0,1 Nm
Overall length	mm	224	285
Weight	Kg	0,30	0,45
Supplier code		4549-00	4549-02
	<b>Each</b>	<b>277,00</b>	<b>295,00</b>

## 801GT



3/8"

### Orig. Gedore - Art. 4549-05

Product description as Art. 801GR

Square drive	inches	3/8
Tightening capacity	Nm	5-50
Tightening capacity	lbf.ft	3,5-37
Scale division		0,25 Nm
Overall length	mm	335
Weight	Kg	0,54
	<b>801GT</b>	<b>Each</b> <b>304,00</b>

**Orig. Gedore**

Product description as Art. 801GR

Art.		802GA	802GB	802GC
Square drive	inches	1/2	1/2	1/2
Tightening capacity	Nm	10-100	20-200	60-300
Tightening capacity	lbf.ft	8-75	15-150	45-220
Scale division		0,5 Nm	1 Nm	1 Nm
Overall length	mm	395	485	577
Weight	Kg	0,9	1,1	1,4
Supplier code		4550-10	4550-20	4550-30
	<b>Each</b>	<b>284,00</b>	<b>306,00</b>	<b>351,00</b>



1/2"

**802GA**  
**802GB**  
**802GC**

Product description as Art. 801GR

Art.		802GE	802GF	802GH
Square drive	inches	3/4	3/4	3/4
Tightening capacity	Nm	75-400	100-550	140-750
Tightening capacity	lbf.ft	55-300	75-405	105-550
Scale division		1 Nm	1 Nm	1 Nm
Overall length	mm	686	957	1236
Weight	Kg	2	3,8	4,8
Supplier code		4550-40	4550-55	4550-75
	<b>Each</b>	<b>579,00</b>	<b>914,00</b>	<b>1.040,00</b>



3/4"

**802GE**  
*new*  
**802GF**  
**802GH**
**3**

Square drive with spare disk.

Size		01	02	2	5
For Art.		801 GR/S	801 GT(mod.4549)	801 GS/T(mod.4550)	802 GA/B/C/E
Square drive	inches	1/4	3/8	3/8	1/2
Overall length	mm	33	37	46	50
Supplier code		4550-75	4550-75	4550-75	4550-75
	<b>Each</b>	<b>12,20</b>	<b>11,10</b>	<b>12,40</b>	<b>10,30</b>

**O802GH**

Click type, suitable to precise tightening. Handy construction with toothed ratchet mechanism for right operation (left operation only to unscrew). Adjustment obtained by rotating the ergonomically shaped handgrip, safety lock at the extremity.  $\pm 3\%$  tolerance of the scale set torque. Double scale with graduation Nm/lbf.ft on handle below a window with a magnifying-glass effect for a more precise reading.

Supplied with test certificate as per DIN ISO 6789.

Art.		802GZ 1	802GZ 2	802GZ 3
Square drive	inches	1/2	1/2	1/2
Tightening capacity	Nm	20-100	40-200	60-300
Tightening capacity	lbf.ft	20-75	30-150	50-220
Scale division		0,5 Nm	1 Nm	1 Nm
Overall length	mm	410	500	590
Weight	Kg	1	1,2	1,4
Supplier code		5550-10	5550-20	5550-30
	<b>Each</b>	<b>390,00</b>	<b>407,00</b>	<b>444,00</b>



1/2"

**802GZ 1**  
**802GZ 2**  
**802GZ 3**
**Orig. Gedore - Dremaster K**

Release type model.

Suitable for precision installations. Handy left and right side ratchets, which can be reversed through the framework. Can be adjusted by rotating the ergonomic handle with safety lock, which includes visual monitoring located at the far end. An additional quick adjustment is also possible by using round tenders, although these are not provided. Dual component handle with soft, non-slip grip with a clear path through to the centre providing an accurate hold and an accurate calibration process. Tolerance:  $\pm 3\%$  for each scale reading. Dual scale Nm/lbf.ft reading which can be selected by using the cursor, and which helps to avoid any potential reading errors.

Micrometric adjustments with Nm values.

Equipped with items certified as per DIN ISO 6789:2003.

Type II, Class A.

With reversible square drive, anti-slip disk and quick, safe button release of sockets.

Size		100	200	300
Square drive	inches	1/2	1/2	1/2
Tightening capacity	Nm	20-100	40-200	60-300
Tightening capacity	lbf.ft	15-75	30-150	45-220
Scale division		0,5 Nm	1 Nm	1 Nm
Overall length	mm	423,5	514,5	606,5
Weight	Kg	1,1	1,3	1,5
Supplier code		DMK 100	DMK 200	DMK 300
	<b>Each</b>	<b>313,00</b>	<b>333,00</b>	<b>396,00</b>

**803A**


1/2"

**803A**

## 803B




3/4"

Product description as Art. 803A

With square through drive and socket stop pin.

Size		400	550	750	850
Square drive	inches	3/4	3/4	3/4	3/4
Tightening capacity	Nm	80-400	110-550	150-750	250-850
Tightening capacity	lbf.ft	60-300	80-405	110-550	185-630
Scale division		1 Nm	1 Nm	1 Nm	1 Nm
Overall length	mm	715,5	953,5	1228,5	1375,5
Weight	Kg	2,4	3,8	4,9	5,2
Supplier code		DMK 400	DMK 550	DMK 750	DMK 850
<b>803B</b>	<b>Each</b>	<b>653,00</b>	<b>1.010,00</b>	<b>1.160,00</b>	<b>1.280,00</b>

Wrenches Art. 803 A 100 - 200 - 300 and 803 B 400 with sockets and extensions can be supplied on request in a metal case.

Spare 1/2 square drives with disk, for torque wrenches Art. 803 A 100 - 200 - 300.

<b>O803C</b>	<b>Each</b>	<b>25,10</b>
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Spare square connectors for wrenches Art. 803 B 400 - 550 - 750 - 850 see Art. 974 RD.

## 803E




1/2"

**Orig. Gedore - Dremaster UK**

Release type model.

Suitable for precision installations. Sturdy construction, easy to handle with ratchet movement towards the right (is only able to move to the left by unscrewing). Can be adjusted by rotating the ergonomic handle with safety lock, which includes visual monitoring located at the far end. An additional quick adjustment is also possible by using round tenders, although these are not provided. Dual component handle with soft, non-slip grip with a clear path through to the centre providing an accurate hold and an accurate calibration process. Tolerance:  $\pm 3\%$  for each scale reading. Dual scale Nm/lbf.ft reading which can be selected by using the cursor, and which helps to avoid any potential reading errors. Micrometric adjustments with Nm values. Equipped with items certified as per DIN ISO 6789:2003.

Equipped with items certified as per DIN ISO 6789:2003.

Type II, Class A.

Size		100	200	300
Square drive	inches	1/2	1/2	1/2
Tightening capacity	Nm	20-100	40-200	60-300
Tightening capacity	lbf.ft	15-75	30-150	45-220
Scale division		0,5 Nm	1 Nm	1 Nm
Overall length	mm	438	529	620
Weight	Kg	1,2	1,4	1,6
Supplier code		DMUK 100	DMUK 200	DMUK 300
<b>803E</b>	<b>Each</b>	<b>455,00</b>	<b>475,00</b>	<b>519,00</b>

## TORQUE WRENCHES WITHOUT SCALE

## 803G




9x12 14x18

**Orig. Gedore**

Model without scale. High precision tightening on pre-set torque value.  $\pm 3\%$  tolerance of the scale set torque. Audible acoustic signal ("click") on reaching of the set torque value, angled movement at  $3^\circ$  of the rod, to allow tightening even in difficult-to access places. Handy and light construction. Automatic reset. "FS" torque wrenches must be preset directly on the place of use by means of suitable torque testers Art. 793 GC-D/793 GL/793 GT and fixed on the desired value within the tightening range of the wrenches mentioned below. Bi-directional tightening. Possibility to unscrew without changing the wrench (function available only on this model).

Supplied with test certificate as per DIN ISO 6789.

Torque wrenches Art. 803 G and 803 GP can be fixed set at the factory on the desired value (price on request).

Size		25	50	85	200
Inserts drive	mm	9x12	9x12	9x12	14x18
Tightening capacity	Nm	2-25	5-50	15-85	20-200
Overall length	mm	180	240	320	400
Weight	Kg	0,21	0,27	0,34	0,75
Supplier code		4150-25	4150-50	4150-85	4151-20
<b>803G</b>	<b>Each</b>	<b>187,00</b>	<b>192,00</b>	<b>205,00</b>	<b>272,00</b>

For use with torque testers Art. 793 GC-D, heads Art. 806 GD 1/4 - 3/8 are required. For use with torque testers Art. 793 GL, heads Art. 806 GD 3/8 - 1/2 or Art. 806 GE 3/8 - 1/2 are required (for Art. 803 G 200 heads Art. 806 GM 1/2 or Art. 806 GP 1/2 ar



**Orig. Torqueleader**

Model without scale. High precision tightening on pre-set torque value. Long-lasting serial tightening. Automatic reset. Automatic disconnection through angled movement at 20° of the rod. "TBN" torque wrenches must be preset directly on the place of use by means of suitable torque testers Art. 793 GA-B-C or 793 GT and fixed on the desired value within the tightening range of the wrenches mentioned below. Bi-directional tightening.

Supplied with test certificate as per DIN ISO 6789.

± 6% tolerance of the scale set torque. Type with 9x12mm end fittings frontal connection.

Art.		803GA	803GB
Tightening capacity	Nm	0,2-2	1-10
Tightening capacity	lbf.in	1,8-18	9-89
Overall length	mm	135	135
Weight	Kg	0,15	0,15
Supplier code		TBN 2 E G	TBN 10 E G
<b>Each</b>		<b>290,00</b>	<b>302,00</b>

For use with torque testers Art. 793 GA-B-C, heads Art. 806 GD 1/4 - 3/8 or Art. 806 GE 1/4 - 3/8 are required. For use with torque testers Art. 793 GT, heads Art. 806 GD 1/4" or Art. 806 GE 1/4" are required.


**803GA**  
**803GB**

**9x12**
**3**

Model without scale. High precision tightening on pre-set torque value. Long-lasting serial tightening. Automatic reset. Automatic disconnection through angled movement at 20° of the rod. "TBN" torque wrenches must be preset directly on the place of use by means of suitable torque testers Art. 793 GD (only for Art. 803 GC), 793 GL-T and fixed on the desired value within the tightening range of the wrenches mentioned below. Bi-directional tightening.

Supplied with test certificate as per DIN ISO 6789.

Tolerance: ± 4% for each capacity reading.

Type with frontal connection of inserts.

Art.		803GC	803GD	803GE	803GF
Inserts drive	mm	9x12	9x12	9x12	14x18
Tightening capacity	Nm	5-25	10-65	20-135	40-200
Tightening capacity	lbf.in	44-221	89-575	177-1195	29-147
Overall length	mm	265	302	408	510
Weight	Kg	0,40	0,75	1,03	1,4
Supplier code		TBN 25 E G	TBN 65 E G	TBN 135 E G	TBN 200 G
<b>Each</b>		<b>327,00</b>	<b>380,00</b>	<b>423,00</b>	<b>561,00</b>

When using with calibrating device Art. 793 GD, use inserts Art. 806 GD 1/4 - 3/8 or Art. 806 GE 1/4 - 3/8. When using with calibrating devices Art. 793 GL, use inserts Art. 806 GD 3/8 - 1/2 or Art. 806 GE 3/8 - 1/2.


**803GC**  
**803GD**  
**803GE**  
**803GF**

**9x12 14x18**

Model without scale. High precision tightening on pre-set torque value. Long-lasting serial tightening. Automatic reset. Automatic disconnection through angled movement at 20° of the rod. "TBN" torque wrenches must be preset directly on the place of use by means of suitable torque testers Art. 793 GD (only for Art. 803 GL), 793 GL-T and fixed on the desired value within the tightening range of the wrenches mentioned below. Bi-directional tightening.

Supplied with test certificate as per DIN ISO 6789.

± 4% tolerance of the scale set torque. Type with straight end fitting with male pin Ø 16mm.

Art.		803GL	803GM	803GP	803GPE
Tightening capacity	Nm	5-25	10-65	20-135	40-200
Tightening capacity	lbf.in	44-221	89-575	177-1195	29-147
Overall length	mm	265	302	408	520
Weight	Kg	0,40	0,75	1,03	1,4
Supplier code		TBN 25 E	TBN 65 E	TBN 135 E	TBN 200
<b>Each</b>		<b>315,00</b>	<b>365,00</b>	<b>407,00</b>	<b>533,00</b>

When using with calibrating device Art. 793 GD, use inserts Art. 809 GR 3/8. When using with calibration devices Art. 793 GL, use inserts Art. 809 GL-R-S. When using with calibrating device Art. 793 GT, use inserts Art. 809


**803GL**  
**803GM**  
**803GP**  
**803GPE**

**16**

**803GR**  
**803GT**

**9x12**

SLIDING MODEL WITHOUT SCALE. High precision tightening on pre-set torque value. Over-tightening is not possible. Automatic reset. Automatic disconnection through angled movement at 110° of the head. Heads in stainless steel microfusion, body in special aluminium alloy, ergonomic rubber handgrip. "STB" torque wrenches must be preset directly on the place of use by means of suitable torque testers Art. 793 GC-D-L-T and fixed on the desired value within the tightening range of the wrenches mentioned below. Ideal for controlled clamping of joints of hydraulic and air compressed plants.

Right operation.

Supplied with test certificate as per DIN ISO 6789.

± 4% tolerance of the set scale torque.

With end fitting frontal connection 9x12mm.

Art.		803GR	803GT
Tightening capacity	Nm	7-35	20-70
Overall length	mm	250	350
Weight	Kg	0,50	1
Supplier code		STB 35 G	STB 70 G
	<b>Each</b>	<b>621,00</b>	<b>639,00</b>

In case of use with torque tester Art. 793 GC-D, connections Art. 806 GD 1/4 - 3/8 or Art. 806 GE 1/4 - 3/8 are necessary.

In case of use with torque tester Art. 793 GL, connections Art. 806 GD 3/8 - 1/2 or Art. 806 GE 3/8 - 1/2 are necessary.

To be used with torque tester Art. 793 GT, connections Art. 806 GD 1/2 or Art. 806 GE 1/2 are necessary.

Products running out of stock.

**803GV**  
**803GZ**

**16**

Product description as Art. 803GR

± 4% tolerance of the set scale torque.

Straight connection with Ø 16mm male pin.

Art.		803GV	803GZ
Tightening capacity	Nm	7-35	20-70
Overall length	mm	225	365
Weight	Kg	0,50	1
Supplier code		STB 35	STB 70
	<b>Each</b>	<b>593,00</b>	<b>614,00</b>

In case of use with torque tester Art. 793 GC-D, connections Art. 809 GR are necessary.

In case of use with torque tester Art. 793 GL, connections Art. 809 GL-R-S are necessary.

With torque tester Art. 793 GT, connections Art. 809 G are necessary.

Products running out of stock.

**PRECISION TORQUE WRENCHES WITHOUT SIZES SCALE, WITH SIGNAL OUTPUT SYSTEM**
**804GA**  
*new*

**9x12**

Orig. Torqueleader

SWITCH TYPE WITHOUT SCALE WITH ELECTRONIC SWITCH (Sw), that allows an external device to check if the pre-set torque value has been reached and to count how many times this value has been applied. The wrench is connected to the monitoring device by means of a cable and can be interfaced with computers, switches etc. This system allows for the automated monitoring of the application process of tightening in any line production.

Other features of the wrenches similar to Art. 803 GA-B-D-E-F.

The wrenches are supplied with a switch Art. 794 GHA and a cable of the length of approx. 6 m Art. 794 GHB.

Size		2	10	25	65	135
Tightening capacity	Nm	0,4-2	1-10	5-25	10-65	27-135
Tightening capacity	lbf.in/ft	3,5-18	9-89	4-18	7-48	18-100
Overall length	mm	133	133	415	452	558
Weight	Kg	0,13	0,15	0,75	1,09	1,68
Supplier code		TBN 2 G Sw	TBN 10 G Sw	TBN 25 G Sw	TBN 65 G Sw	TBN 135 G Sw
	<b>Each</b>	<b>872,00</b>	<b>885,00</b>	<b>910,00</b>	<b>963,00</b>	<b>1.030,00</b>

On request, the spanners Art. 803 GF to 803 GPE can be supplied with an electrical switch (Sw).

On request the spanners Art. 804 GA can be supplied pre-calibrated to the desired value for an additional charge.

**TORQUE WRENCHES WITH FEMALE DRIVE**

**Orig. Torqueleader**

Dividing model providing real accuracy for repeating processes with a set value. Robust construction which provides long performance life when installing bulk items. Tolerance: ± 6% for each scale reading.

Automatic disconnection with 20° angular rod body movement. Automatic reset feature.

Micrometer Nm scale providing a clear view of the values.

Ergonomic adjustment by rotating the soft rubber handle complete with safety lock, positioned at the far end. Can be used with both left and right handed operation.

Equipped with items certified as per DIN ISO 6789.

Type with frontal connection of inserts.

Art.		804GH	804GL	804GM
Inserts drive	mm	9x12	9x12	9x12
Tightening capacity	Nm	1-5	2-10	5-25
Scale division		0,025 Nm	0,05 Nm	0,1 Nm
Overall length	mm	230	230	303
Weight	Kg	0,29	0,3	0,7
Supplier code		ATB 5 G	ATB 10 G	ATB 25 G
<b>Each</b>		<b>310,00</b>	<b>310,00</b>	<b>309,00</b>



**804GH  
804GL  
804GM**



**9x12**

**3**

Art. 804 GM is not marked EPA. Art. 804GM running out of stock.

**Orig. Carolus**

Release type model.

Suitable for precision installations. Easy to handle: Tolerance: ± 3% for each scale reading. Dual micrometer scale Nm/lbf.ft with handle and values which can be viewed by using a magnifying glass for easy reading. Can be adjusted by rotating the ergonomic plastic handle with a safety lock for final positioning.

For use with left and right handed operation.

Equipped with items certified as per DIN ISO 6789.

Type with frontal connection of inserts.

Size		25	50	100	150
Inserts drive	mm	9x12	9x12	9x12	9x12
Tightening capacity	Nm	5-25	10-50	20-100	30-150
Tightening capacity	lbf.ft	4-18	8-37	15-75	20-110
Scale division		0,1 Nm	0,25 Nm	0,5 Nm	1 Nm
Overall length	mm	274	324	369,5	460,5
Supplier code		4912.025	6912.050	5912.100	5912.150
<b>804GP</b>	<b>Each</b>	<b>195,00</b>	<b>195,00</b>	<b>195,00</b>	<b>203,00</b>



**804GP**



**9x12**

Product description as Art. 804GP

Type with frontal connection of inserts.

Size		200	300	400
Inserts drive	mm	14x18	14x18	14x18
Tightening capacity	Nm	40-200	60-300	80-400
Tightening capacity	lbf.ft	30-150	45-220	60-300
Scale division		1 Nm	1 Nm	1 Nm
Overall length	mm	470,5	561,5	648,5
Supplier code		5918.200	5918.300	8918.400
<b>804GR</b>	<b>Each</b>	<b>203,00</b>	<b>284,00</b>	<b>405,00</b>



**804GR**



**14x18**

**Orig. Gedore**

Click type. Handy construction. ± 3% tolerance of the scale set torque.

Double scale with graduation Nm/lbf.ft on handle below a window with a magnifying-glass effect that makes reading easier.

Adjustment obtained by rotating the ergonomically shaped nylon handgrip, safety lock at the extremity. For controlled bi-directional tightening.

Supplied with test certificate as per DIN ISO 6789.

With end fitting frontal connection.

Art.		804GS	804GT	805GA	805GB
Inserts drive	mm	9x12	9x12	9x12	9x12
Tightening capacity	Nm	2-25	5-50	10-100	20-150
Tightening capacity	lbf.ft	1,5-18	4-37	8-75	15-110
Scale division		0,1 Nm	0,25 Nm	0,5 Nm	1 Nm
Overall length	mm	274	324	370	461
Weight	Kg	0,3	0,45	0,6	0,8
Supplier code		4101-02	4101-05	4100-01	4200-02
<b>Each</b>		<b>212,00</b>	<b>222,00</b>	<b>235,00</b>	<b>264,00</b>



**804GS  
804GT  
805GA  
805GB**



**9x12**

805GC  
805GD  
805GE

**GEDORE** 



14x18

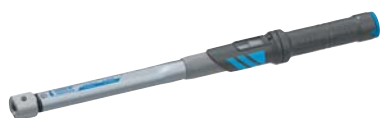
Product description as Art. 804GS

With end fitting frontal connection.

Art.		805GC	805GD	805GE
Inserts drive	mm	14x18	14x18	14x18
Tightening capacity	Nm	20-200	60-300	75-400
Tightening capacity	lbf.ft	15-150	45-220	55-300
Scale division		1 Nm	1 Nm	1 Nm
Overall length	mm	471	562	649
Weight	Kg	0,9	1,2	1,6
Supplier code		4201-01	4300-01	4301-01
<b>Each</b>		<b>270,00</b>	<b>308,00</b>	<b>458,00</b>

3 805GF

**GEDORE** 



9x12

**Orig. Gedore - Dremaster SE**

Release type model.

Suitable for precision installations. Easy to handle: Can be adjusted by rotating the ergonomic handle with safety lock, which includes visual monitoring located at the far end. An additional quick adjustment is also possible by using round tenders, although these are not provided. Dual component handle with soft, non-slip grip with a clear path through to the centre providing an accurate hold and an accurate calibration process. Tolerance:  $\pm 3\%$  for each scale reading. Dual scale Nm/lbf.ft reading which can be selected by using the cursor, and which helps to avoid any potential reading errors. Micrometric adjustments with Nm values.

Equipped with items certified as per DIN ISO 6789:2003.

Type II, Class A.

Type with frontal connection of inserts.

Size		100	150
Inserts drive	mm	9x12	9x12
Tightening capacity	Nm	20-100	30-150
Tightening capacity	lbf.ft	15-75	22-110
Scale division		0,5 Nm	1 Nm
Overall length	mm	398,5	489,5
Weight	Kg	0,8	1,0
Supplier code		DMSE 100	DMSE 150
<b>805GF</b>	<b>Each</b>	<b>273,00</b>	<b>306,00</b>

805GH

**GEDORE** 



14x18

Product description as Art. 805GF

Type with frontal connection of inserts.

Size		200	300	400
Inserts drive	mm	14x18	14x18	14x18
Tightening capacity	Nm	40-200	60-300	80-400
Tightening capacity	lbf.ft	30-150	45-220	60-300
Scale division		1 Nm	1 Nm	1 Nm
Overall length	mm	499,5	590,5	677,5
Weight	Kg	1,1	1,3	2,0
Supplier code		DMSE 200	DMSE 300	DMSE 400
<b>805GH</b>	<b>Each</b>	<b>313,00</b>	<b>359,00</b>	<b>532,00</b>

805GL  
805GP

**GEDORE** 



9x12

**Orig. Gedore**

Click type. Light alloy body. Inside components in alloyed steel.  $\pm 3\%$  tolerance of the scale set torque. Double scale Nm/lbf on handle. Adjustment by means of the jointed socket built-in in the handle. Audible acoustic signal ("click") on reaching preset torque value. For controlled bi-directional tightening.

Supplied with test certificate as per DIN ISO 6789.

With end fitting frontal connection.

Art.		805GL	805GP
Inserts drive	mm	9x12	9x12
Tightening capacity	Nm	8-40	20-120
Tightening capacity	lbf.in	70-350	-
Tightening capacity	lbf.ft	-	15-90
Scale division		5 Nm/50 lbf.in	5 Nm/5 lbf.ft
Overall length	mm	365	490
Weight	Kg	0,95	1,25
Supplier code		8480-01	8481-01
<b>Each</b>		<b>629,00</b>	<b>693,00</b>

805GR

**GEDORE** 



14x18

**Orig. Gedore - Art. 8482-01**

Product description as Art. 805GL

With end fitting frontal connection.

Inserts drive	mm	14x18
Tightening capacity	Nm	50-400
Tightening capacity	lbf.in	-
Tightening capacity	lbf.ft	35-300
Scale division		5 Nm/5 lbf.ft
Overall length	mm	650
Weight	Kg	1,7
<b>805GR</b>	<b>Each</b>	<b>869,00</b>

**BITS WITH 9X12 MM MALE COUPLING**

**Orig. Carolus - Art. 7709**

Made from special steel.  
For all torque wrenches with female 9x12mm connector.  
Fixed open wrench inserts.

Opening	mm	7	8	9	10	11	12	13
<b>805GT</b>	Each	30,80	30,80	30,80	30,80	30,80	30,80	30,80

Opening	mm	14	15	16	17	18	19
<b>805GT</b>	Each	30,80	30,80	30,80	30,80	30,80	30,80



**Orig. Carolus - Art. 7710**

Product description as Art. 805GT  
Closed polygonal wrench insert.

Opening	mm	8	10	11	12	13	14	15
<b>805GV</b>	Each	30,80	30,80	30,80	30,80	30,80	30,80	30,80

Opening	mm	16	17	18	19	21	22
<b>805GV</b>	Each	30,80	30,80	30,80	30,80	34,10	34,10



**Orig. Carolus - Art. 7711**

Product description as Art. 805GT  
Open polygonal wrench insert.

Opening	mm	10	11	13	17	19	22
<b>805GZ</b>	Each	35,60	35,60	35,60	35,60	35,60	35,60



**Orig. Gedore**

Made from CHROME-VANADIUM steel.  
For all torque wrenches with female 9x12mm connector.  
Open end fitting.

Opening	mm	7	8	9	10	11	12	13
<b>806GA</b>	Each	57,30	57,30	57,30	57,30	57,30	57,30	57,30

Opening	mm	14	15	16	17	18	19
<b>806GA</b>	Each	57,30	57,30	57,30	57,30	57,30	57,30



Product description as Art. 806GA

Bihexagonal ring end fitting.

Opening	mm	7	8	10	11	12	13	14
<b>806GB</b>	Each	60,50	60,50	60,50	60,50	60,50	60,50	60,50

Opening	mm	15	16	17	18	19	21	22
<b>806GB</b>	Each	60,50	60,50	60,50	60,50	60,50	60,50	60,50



Product description as Art. 806GA

Bihexagonal open end fitting.

Opening	mm	10	11	12	13	14	17	18
<b>806GC</b>	Each	63,80	63,80	63,80	63,80	63,80	63,80	63,80

Opening	mm	19	22
<b>806GC</b>	Each	63,80	63,80



Product description as Art. 806GA

TORX end fitting.

TORX size	E	6	8	10	12
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Seal	mm	5,74	7,52	9,42	11,17
<b>806GCT</b>	Each	61,10	55,50	55,50	55,50

Product running out of stock.



Product description as Art. 806GA

Ratchet mechanism, right/left dial.

Square drive	inches	1/4	3/8	1/2
<b>806GD</b>	Each	134,00	139,00	145,00



**806GDT** **9x12**



**Orig. Carolus - Art. 7712**  
 Made from special steel.  
 For all torque wrenches with female 9x12mm connector.  
 Fixed insert.

Square drive	inches	1/4	3/8	1/2
Max tightening threshold	Nm	30	135	150
<b>806GDT</b>	Each	<b>34,90</b>	<b>34,90</b>	<b>34,90</b>

**806GE** **9x12**



**Orig. Gedore**  
 Made from CHROME-VANADIUM steel.  
 For all torque wrenches with female 9x12mm connector.  
 Right/left through square drive.

Square drive	inches	1/4	3/8	1/2
<b>806GE</b>	Each	<b>58,30</b>	<b>58,30</b>	<b>58,30</b>

**806GET** **9x12**



**Orig. Carolus - Art. 7713**  
 Made from special steel.  
 For all torque wrenches with female 9x12mm connector.  
 Bit holder insert.  
 For bits with 5/16 drive.

<b>806GET</b>	Each	<b>40,40</b>
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**806GF** **9x12**



**Orig. Gedore**  
 Made from CHROME-VANADIUM steel.  
 For all torque wrenches with female 9x12mm connector.  
 Bit-holder insert.

For bits drive	inches	1/4	5/16
Supplier code		7812-10	7812-00
<b>806GF</b>	Each	<b>62,00</b>	<b>60,20</b>

**806GFS** **9x12**



For all torque wrenches with female 9x12mm connector.  
 Insert for special working. Used to weld customized tightening devices to solve installation problems.

<b>806GFS</b>	Each	<b>47,10</b>
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**806GFT** **9x12**



**Prod. SCU**  
 Made from special steel.  
 For all torque wrenches with female 9x12mm connector.  
 Adapter insert to expand the wrench drive from 9x12mm to 14x18mm.  
 Maximum torque moment 100 Nm.

<b>806GFT</b>	Each	<b>94,20</b>
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**14x18**

**BITS WITH 14X18 MM MALE COUPLING**

**806GFV** **14x18**



**Orig. Carolus - Art. 7714**  
 Made from special steel.  
 For all torque wrenches with female 14x18mm connector.  
 Fixed open wrench inserts.

Opening	mm	13	14	15	16	17	18	19	21
<b>806GFV</b>	Each	<b>35,60</b>	<b>35,60</b>	<b>35,60</b>	<b>35,60</b>	<b>35,60</b>	<b>35,60</b>	<b>35,60</b>	<b>40,50</b>
Opening	mm	22	24	27	30	32	34	36	41
<b>806GFV</b>	Each	<b>40,50</b>	<b>40,50</b>	<b>47,70</b>	<b>47,70</b>	<b>52,70</b>	<b>52,70</b>	<b>52,70</b>	<b>60,80</b>

**806GFZ** **14x18**



**Orig. Carolus - Art. 7715**  
 Product description as Art. 806GFV  
 Closed polygonal wrench insert.

Opening	mm	13	14	15	16	17	18	19	21
<b>806GFZ</b>	Each	<b>38,10</b>	<b>38,10</b>	<b>38,10</b>	<b>38,10</b>	<b>38,10</b>	<b>38,10</b>	<b>38,10</b>	<b>43,50</b>
Opening	mm	22	24	27	30	32	36	41	
<b>806GFZ</b>	Each	<b>43,50</b>	<b>46,20</b>	<b>46,20</b>	<b>48,30</b>	<b>50,10</b>	<b>53,40</b>	<b>56,40</b>	

**Orig. Gedore**

Made from CHROME-VANADIUM steel.  
For all torque wrenches with female 14x18mm connector.  
Open end fitting.

Opening	mm	13	14	15	16	17	18	19
<b>806GH</b>	<b>Each</b>	65,30	65,30	65,30	65,30	65,30	65,30	65,30
Opening	mm	21	22	24	27	29	30	32
<b>806GH</b>	<b>Each</b>	78,20	78,20	78,20	78,20	88,60	88,60	88,60
Opening	mm	34	36	41				
<b>806GH</b>	<b>Each</b>	95,20	100,10	100,10				

**GEDORE** 14x18 806GH



Product description as Art. 806GH

Bihexagonal ring end fitting.

Opening	mm	13	14	15	16	17	18	19	21
<b>806GL</b>	<b>Each</b>	66,90	66,90	66,90	66,90	66,90	66,90	66,90	80,30
Opening	mm	22	24	27	30	32	34	36	41
<b>806GL</b>	<b>Each</b>	80,30	80,30	80,30	90,10	90,10	98,30	98,30	98,30

**GEDORE** 14x18 806GL



Product description as Art. 806GH

Internal TORX end fitting

TORX size	E	14	18	20	24
Seal	mm	12,90	16,70	18,45	22,16
<b>806GLT</b>	<b>Each</b>	73,20	73,20	73,20	82,40

Product running out of stock.

**GEDORE** 14x18 806GLT



Product description as Art. 806GH

Ratchet mechanism, right/left dial.

Square drive	inches	1/2	3/4
<b>806GM</b>	<b>Each</b>	145,00	211,00

**GEDORE** 14x18 806GM



**Orig. Carolus - Art. 7716**

Made from special steel.  
For all torque wrenches with female 14x18mm connector.  
Fixed insert.

Square drive	inches	1/2	3/4
Max tightening threshold	Nm	340	
<b>806GN</b>	<b>Each</b>	40,40	

**carolus** 14x18 806GN



**Orig. Gedore**

Made from CHROME-VANADIUM steel.  
For all torque wrenches with female 14x18mm connector.  
Right/left through square drive.

Square drive	inches	1/2	3/4
<b>806GP</b>	<b>Each</b>	62,40	104,00

**GEDORE** 14x18 806GP



Product description as Art. 806GP

Bit-holder insert.

5/16" drive.

<b>806GS</b>	<b>Each</b>	127,00
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**GEDORE** 14x18 806GS



For all torque wrenches with female 14x18mm connector.

Insert for special working. Used to weld customized tightening devices to solve installation problems.

<b>806GT</b>	<b>Each</b>	54,20
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**GEDORE** 14x18 806GT



**806GZ****SCU****14x18****9x12****Prod. SCU**

Made from CHROME-VANADIUM steel.

For all torque wrenches with female 14x18mm connector.

Adapter insert to reduce the wrench drive from 14x18mm to 9x12mm.

Maximum torque moment 100 Nm.

**806GZ** Each **149,00****ASSORTED SET OF TOOLS WITH TORQUE WRENCH****3****807A  
807B****GEDORE** **9x12****Orig. Gedore - Art. 4101-G02**

Composition of torque wrench including inserts and ratchets in metal casing.

Comprises:

1 torque wrench 804 GS

3 inserts 806 GA 10-13-17

3 inserts 806 GB 10-13-17

1 ratchet insert 806 GD 3/8

**807A** Each **818,00**

Product running out of stock.

**Orig. Gedore - Art. 4101-G05**

Product description as Art. 807A

Comprises:

1 torque wrench 804 GT

3 inserts 806 GA 10-13-17

3 inserts 806 GB 10-13-17

1 ratchet insert 806 GD 3/8

**807B** Each **780,00**

Product running out of stock.

**807E****GEDORE** **9x12****Orig. Gedore - Art. GDMSE 100**

Product description as Art. 807A

Comprises:

1 torque wrench 805 GF 100

3 inserts 806 GA 13-19-17

3 inserts 806 GB 13-19-17

1 ratchet insert 806 GD 1/2

**807E** Each **1.040,00****807G****GEDORE** **14x18****Orig. Gedore - Art. GDMSE 200**

Product description as Art. 807A

Comprises:

1 torque wrench 805 GH 200

3 inserts 806 GH 17-19-24

3 inserts 806 Gal 17-19-24

1 ratchet insert 806 GM 1/2

**807G** Each **1.220,00**



**TORQUE WRENCHES WITH MALE DRIVE**

**Orig. Torqueleader - Art. ATB 25**

Model with high precision tightening on pre-set torque value.  
Sturdy finish for long-lasting serial tightening. ± 4% tolerance of the scale set torque.  
Automatic disconnection through angled movement at 20° of the rod. Automatic rest.  
Scale with graduation Nm with value clear reading.



**808GA**

Adjustment obtained by rotating the ergonomically shaped soft rubber handgrip, safety lock at the extremity. For controlled bi-directional tightening.  
Supplied with test certificate as per DIN ISO 6789.

With straight connection with male pin

Pivot drive Ø	mm	16
Tightening capacity	Nm	5-25
Scale division		0,1 Nm
Overall length	mm	297
Weight	Kg	0,68



16

3

<b>808GA</b>	<b>Each</b>	<b>270,00</b>
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Product running out of stock.

**Orig. Gedore**

Click type. Handy construction. Adjustment obtained by rotating the ergonomically shaped nylon handgrip, safety lock at the extremity. ± 3% tolerance of the scale set torque.  
Double scale with graduation Nm/lbf.ft on handle below a window with a magnifying-glass effect that makes reading easier. For controlled bi-directional tightening.  
Supplied with test certificate as per DIN ISO 6789.



**808GL**  
**808GP**  
**808GR**  
**808GS**  
**808GT**  
**808GV**  
*new*

Art.		808GL	808GP	808GR	808GS	808GT	808GV
Pivot drive Ø	mm	16	16	16	16	16	16
Tightening capacity	Nm	2-25	5-50	10-100	20-200	60-300	75-400
Tightening capacity	lbf.ft	1,5-18	3,5-37	8-75	15-150	45-220	55-300
Scale division		0,1 Nm	0,25 Nm	0,5 Nm	1 Nm	1 Nm	1 Nm
Overall length	mm	279	329	377	468	559	646
Weight	Kg	0,33	0,39	0,7	0,86	1,08	1,39
Supplier code		4400-02	4405-05	4410-01	4420-01	4430-01	4440-01
<b>Each</b>		<b>193,00</b>	<b>202,00</b>	<b>222,00</b>	<b>256,00</b>	<b>294,00</b>	<b>407,00</b>



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**Orig. Gedore - Dremaster Z**

Release type model.  
Easy to handle. Can be adjusted by rotating the ergonomic handle with safety lock, which includes visual monitoring located at the far end. An additional quick adjustment is also possible by using round tenders, although these are not provided. Dual component handle with soft, non-slip grip with a clear path through to the centre providing an accurate hold and an accurate calibration process. Tolerance: ± 3% for each scale reading. Dual scale Nm/lbf.ft reading which can be selected by using the cursor, and which helps to avoid any potential reading errors.  
Micrometric adjustments with Nm values.



**808H**

Equipped with items certified as per DIN ISO 6789:2003.

Type II, Class A.

Type with straight coupling with male pin.

Size		100	200	300	400
Pivot drive Ø	mm	16	16	16	16
Tightening capacity	Nm	20-100	40-200	60-300	80-400
Tightening capacity	lbf.ft	15-75	30-150	45-220	60-300
Scale division		0,5 Nm	1 Nm	1 Nm	1 Nm
Overall length	mm	405,5	496,5	587,5	677,5
Weight	Kg	0,9	1,1	1,3	2,2
Supplier code		DMZ 100	DMZ 200	DMZ 300	DMZ 400
<b>808H</b>	<b>Each</b>	<b>259,00</b>	<b>298,00</b>	<b>342,00</b>	<b>475,00</b>



16

Wrenches Art. 808 H with inserts and ratchets can be supplied on request in a metal case.

**Product description as Art. 808H**

Type with straight coupling with male pin.

Size		550	750	850
Pivot drive Ø	mm	22	22	22
Tightening capacity	Nm	110-550	150-750	250-850
Tightening capacity	lbf.ft	80-405	110-550	185-630
Scale division		1 Nm	1 Nm	1 Nm
Overall length	mm	913	1194	1341
Weight	Kg	3,6	4,7	5
Supplier code		DMZ 550	DMZ 750	DMZ 850
<b>808M</b>	<b>Each</b>	<b>812,00</b>	<b>944,00</b>	<b>1.370,00</b>



**808M**



22

809GA  
809GB  
809GC



16

**Orig. Gedore**

Click type. Light alloy body. Inside components in alloyed steel. ± 3% tolerance of the scale set torque. Double scale Nm/lbf on handle. Adjustment by means of the jointed socket built-in in the handle. Audible acoustic signal ("click") on reaching preset torque value. For controlled bi-directional tightening.

Supplied with test certificate as per DIN ISO 6789.

Type with straight connection with male pin.

Art.		809GA	809GB	809GC
Pivot drive Ø	mm	16	16	16
Tightening capacity	Nm	8-40	20-120	50-400
Tightening capacity	lbf.in	70-350	-	-
Tightening capacity	lbf.ft	-	15-90	35-300
Scale division		5 Nm/50 lbf.in	5 Nm/5 lbf.ft	5 Nm/5 lbf.ft
Overall length	mm	365	490	642
Weight	Kg	1	1,45	2
Supplier code		8460-01	8461-01	8462-01
<b>Each</b>		<b>580,00</b>	<b>645,00</b>	<b>807,00</b>

809GD



22

**Orig. Gedore - Art. 8463-10**

Product description as Art. 809GA

Pivot drive Ø	mm	22
Tightening capacity	Nm	140-620
Tightening capacity	lbf.ft	105-450
Scale division		10 Nm/10 lbf.ft
Overall length	mm	845
Weight	Kg	3

<b>809GD</b>	<b>Each</b>	<b>1.540,00</b>
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809GE



28

**Orig. Gedore - Art. 8471-01**

Product description as Art. 809GA

Pivot drive Ø	mm	28
Tightening capacity	Nm	520-1000
Tightening capacity	lbf.ft	380-730
Scale division		10 Nm/10 lbf.ft
Overall length	mm	845
Weight	Kg	3

<b>809GE</b>	<b>Each</b>	<b>2.180,00</b>
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Art. 809 GE: supplied with bar. Wrench overall length: 1330mm.

**BITS WITH 16 MM DIAMETER FEMALE COUPLING**

809GF



16



**Orig. Gedore**

Made from CHROME-VANADIUM steel.

For all torque wrenches with male Ø 16mm connector.

Open end fitting.

Opening	mm	7	8	9	10	11	12	13
<b>809GF</b>	<b>Each</b>	<b>55,10</b>	<b>55,10</b>	<b>55,10</b>	<b>55,10</b>	<b>55,10</b>	<b>55,10</b>	<b>55,10</b>
Opening	mm	14	15	16	17	18	19	20
<b>809GF</b>	<b>Each</b>	<b>55,10</b>	<b>55,10</b>	<b>55,10</b>	<b>55,10</b>	<b>55,10</b>	<b>55,10</b>	<b>55,10</b>
Opening	mm	21	22	23	24	25	26	27
<b>809GF</b>	<b>Each</b>	<b>59,10</b>	<b>59,10</b>	<b>59,10</b>	<b>59,10</b>	<b>59,10</b>	<b>64,40</b>	<b>64,40</b>
Opening	mm	28	29	30	32	36		
<b>809GF</b>	<b>Each</b>	<b>64,40</b>	<b>64,40</b>	<b>64,40</b>	<b>64,40</b>	<b>64,40</b>		

Inch sizes are available on request.

809GH



16



Product description as Art. 809GF

Bihexagonal ring end fitting.

Opening	mm	7	8	9	10	11	12	13
<b>809GH</b>	<b>Each</b>	<b>57,50</b>	<b>57,50</b>	<b>57,50</b>	<b>57,50</b>	<b>57,50</b>	<b>57,50</b>	<b>57,50</b>
Opening	mm	14	15	16	17	18	19	20
<b>809GH</b>	<b>Each</b>	<b>57,50</b>	<b>57,50</b>	<b>57,50</b>	<b>57,50</b>	<b>57,50</b>	<b>57,50</b>	<b>57,50</b>
Opening	mm	21	22	23	24	27		
<b>809GH</b>	<b>Each</b>	<b>60,10</b>	<b>60,10</b>	<b>60,10</b>	<b>60,10</b>	<b>60,10</b>		

Inch sizes are available on request.

Product description as Art. 809GF

Bihexagonal open end fitting.

Opening	mm	7	8	9	10	11	12	13
<b>809GHA</b>	Each	67,70	67,70	67,70	66,60	67,70	67,70	68,80
Opening	mm	14	15	16	17	18	19	20
<b>809GHA</b>	Each	73,30	68,80	72,40	73,30	76,10	76,10	76,10
Opening	mm	21	22	23	24	27		
<b>809GHA</b>	Each	80,30	82,80	80,60	82,80	84,30		

Size mm 23 running out of stock.

**GEDORE**

16

**809GHA**



Product description as Art. 809GF

Square drive insert.

Square drive	inches	3/8	1/2
<b>809GL</b>	Each	105,00	105,00

**GEDORE**

16

**809GL**

3



Product description as Art. 809GF

Hex male drive.

Opening	mm	3	4	5	6	8
<b>809GM</b>	Each	106,00	106,00	106,00	106,00	106,00

**GEDORE**

16

**809GM**



Product description as Art. 809GF

External TORX end fitting

TORX size	T	20	25	27	30	40	45
Seal	mm	3,86	4,43	4,99	5,52	6,65	7,82
<b>809GP</b>	Each	103,00	103,00	103,00	103,00	121,00	121,00

Product running out of stock.

**GEDORE**

16

**809GP**



Product description as Art. 809GF

Ratchet mechanism, 3/8" square drive.

<b>809GR</b>	Each	131,00
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**GEDORE**

16

**809GR**



Product description as Art. 809GF

Ratchet mechanism, left/right dial, 1/2" square drive.

<b>809GS</b>	Each	133,00
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**GEDORE**

16

**809GS**



**BITS WITH 22 MM DIAMETER FEMALE COUPLING**

Orig. Gedore

Made from CHROME-VANADIUM steel.

For all torque wrenches with male Ø 22mm connector.

Open end fitting.

Opening	mm	22	24	27	30	32	34	36	
<b>809GT</b>	Each	94,70	94,70	94,70	94,70	104,00	104,00	104,00	
Opening	mm	41	46						
<b>809GT</b>	Each	113,00	113,00						

**GEDORE**

22

**809GT**



Product description as Art. 809GT

Bihexagonal ring end fitting

Opening	mm	22	24	27	30	32	34	36	
<b>809GV</b>	Each	97,10	97,10	97,10	97,10	106,00	106,00	106,00	
Opening	mm	41	46						
<b>809GV</b>	Each	112,00	112,00						

**GEDORE**

22

**809GV**



**809GZ** **22**



Product description as Art. 809GT  
3/4" square drive.

<b>809GZ</b>	Each	<b>133,00</b>
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**809GZA** **22**



Product description as Art. 809GT  
Ratchet mechanism, 3/4" square drive.

<b>809GZA</b>	Each	<b>246,00</b>
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**BITS WITH 28 MM DIAMETER FEMALE COUPLING**

**810GA** **28**



Orig. Gedore  
Made from CHROME-VANADIUM steel.  
For all torque wrenches with male Ø 28mm connector.  
Open end fitting.

Opening	mm	<b>32</b>	<b>34</b>	<b>36</b>	<b>41</b>	<b>46</b>	<b>50</b>	<b>55</b>
<b>810GA</b>	Each	<b>989,00</b>	<b>989,00</b>	<b>1.030,00</b>	<b>1.030,00</b>	<b>1.030,00</b>	<b>1.030,00</b>	<b>1.050,00</b>
Opening	mm	<b>60</b>	<b>65</b>	<b>70</b>				
<b>810GA</b>	Each	<b>1.080,00</b>	<b>1.110,00</b>	<b>1.140,00</b>				

Size mm 32 and 34 running out of stock.

**810GB** **28**



Product description as Art. 810GA  
Bihexagonal ring end fitting.

Opening	mm	<b>27</b>	<b>30</b>	<b>32</b>	<b>34</b>	<b>36</b>	<b>41</b>	<b>46</b>
<b>810GB</b>	Each	<b>1.160,00</b>	<b>1.160,00</b>	<b>1.160,00</b>	<b>1.160,00</b>	<b>1.190,00</b>	<b>1.190,00</b>	<b>1.190,00</b>
Opening	mm	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>		
<b>810GB</b>	Each	<b>1.190,00</b>	<b>1.240,00</b>	<b>1.240,00</b>	<b>1.280,00</b>	<b>1.280,00</b>		

Size mm 27, 30, 32 and 34 running out of stock.

**810GE** **28**



Product description as Art. 810GA  
Ratchet mechanism, 3/4" square drive.

<b>810GE</b>	Each	<b>1.240,00</b>
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**ELECTRONIC TORQUE WRENCHES, TORCO TRONIC**

**810GH**



**9x12 14x18**

Orig. Gedore - Art. 8455-350  
Electronic torque wrench with microprocessor control, CE mark. Reversible ratchet with disc change. 1/2" drive for right and left tightening, removable. Square female drive 9x12mm (Art. 810 GH 120) or 14x18mm (Art. 810 GH 350) when the ratchet is removed. Big LC display. Easy to be operated through 3 keys.  
High measuring accuracy: ± 1% ±1 Digit.  
Supplied with test certificate as per DIN ISO 6789.  
Storage function, direct PC connection (RS serial interface).  
Supplied in case.

Size		<b>350</b>
Tightening capacity	Nm	70-350
Scale division	Nm	0,1
Overall length	mm	658
Weight	Kg	1,3
<b>810GH</b>	Each	<b>1.530,00</b>

Product running out of stock.

**Orig. Gedore - Torcotronic III**

Latest generation digital torque wrench used for TORQUE and ANGULAR measurements. Microprocessor controls with CE marking. 1/2" reversible ratchet disc for tightening on the left and on the right, removable via the ratchet insert keys and can be attached with female coupling measuring 9x12 (as per Art. 810 GR 120) o mm 14x18 (Art. 810 GR 350). Graphic display with rear lit liquid crystal display. Simple operation with menu icons and four function keys. Dual scale in Nm and lbf.ft.

High level of measuring accuracy: ± 1% ± 1 digit / ± 1% ± 1° at 360° with a clamping speed to 4°/s. Is able to program various measuring distances depending on the inserts which have been installed. Keypad lock, visual display with 3 LEDs and a buzzer.

Equipped with items specified as per DIN ISO 6789:2003. Type I, Class C. Approved in accordance with TÜV SÜD regulations. Comes complete with a large memory, which is also able to measure modes and select 5 different clamping settings. Direct PC connection via USB cable, software available on disk.

Batteries available in AA format (as per Art. SCU 3600 E) or with NiMH batteries.

Provided with casing.

Size		120	350
Inserts drive	mm	9x12	14x18
Tightening capacity	Nm	10-120	70-350
Tightening capacity	lbf.ft	7,4-88,5	51,6-258,2
Scale division	Nm	0,1 Nm/0,1°	0,1 Nm/0,1°
Overall length	mm	565	701
Weight	Kg	0,9	1,2
Supplier code		TT 3 KH 120	TT 3 KH 350
<b>810GR</b>	<b>Each</b>	<b>1.950,00</b>	<b>2.050,00</b>

In order to make full use of the wrench functions it must be connected to a PC with operating system WINDOWS XP or above.



**810GR**



**9x12 14x18 1/2"**



**SOCKET RATCHETS FOR TORQUE WRENCHES**

**Orig. Gedore**

Sockets with built-in ratchet head to be used in combination with torque wrenches for controlled clockwise tightening. Square female drive on one extremity, square male drive on the other extremity.

Drive	inches	1/4	3/8	1/2	3/4	1
Overall height	mm	21	28	35	53	63
Ø	mm	24	35	46	65	73
Supplier code		754-00	754-01	754-02	754-04	754-06
<b>811G</b>	<b>Each</b>	<b>116,00</b>	<b>121,00</b>	<b>155,00</b>	<b>230,00</b>	<b>596,00</b>



**811G**



Socket ratchets for counter clockwise torque wrenches on request.

**PRECISION TORQUE MULTIPLIER**

**Prod. SCU**

Mechanical torque multiplier of the tightening value set by the operator on the torque wrench. ± 5% tolerance. For bi-directional tightening.

Art. 811 GT 1680: with reaction bar.

Art. 811 GT 2700: with reaction foot.

Art. 811 GT 4500: with reaction bar.

Art. 811 GT 6000: with reaction foot and bar.

Art. 811 GT 9500: with reaction foot and bar.

Supplied in case.

Max tightening threshold	Nm	1680	2700	3500	4500	6000	9500
Int. panel for dynamometric key	inches	1/2	3/4	3/4	1/2	1/2	1/2
Ext. panel for bushes	inches	3/4	1	1	1.1/2	1.1/2	1.1/2
Multiplies force 1x		6	5,4	4,5	16	26	26
Drum Ø	mm	100	100	108	112	130	184
Overall height	mm	106	126	130	175	216	215
Weight	Kg	4,9	6,3	7,3	8,3	15,7	30,3
<b>811GT</b>	<b>Each</b>	<b>1.210,00</b>	<b>1.370,00</b>	<b>2.730,00</b>	<b>3.870,00</b>	<b>6.740,00</b>	<b>12.630,00</b>



**811GT**



Check the maximum load to choose the right torque multiplier.

## 812GR



### Orig. Gedore - Art. 8660-01 RS

Mechanical torque multiplier, compact housing to enable the user to screw hard-to-access connections.

Multiplication at the ratio 1:25 of the value set by the operator on the torque wrench. Kick-back protection.  $\pm 4\%$  tolerance. For bi-directional tightening. With reaction foot.

Int. panel for dynamometric key	inches	1/2
Ext. panel for bushes	inches	1.1/2
Multiplies force 1x		25
Drum Ø	mm	119
Overall height	mm	271
Max tightening threshold	Nm	6000
Weight	Kg	15

**812GR** Each **4.770,00**

Check the maximum load to choose the right torque multiplier.

## 813GE



### Orig. Gedore - Art. 8601-13 RS

Mechanical multiplier of the torque value set by the operator on the torque wrench. Adjustable locking device.

Rahsol-Dremotec models with "RS" are fitted with kick-back protection. Precision:  $\pm 4\%$ . For right and left hand use.

Art. 813 GD-E-F-M-R5-S-T: with reaction plate.

Art. 813 GH-O: with reaction bar.

Int. panel for dynamometric key	inches	1/2
Ext. panel for bushes	inches	1
Multiplies force 1x		25
Drum Ø	mm	108
Overall height	mm	156
Max tightening threshold	Nm	1700
Weight	Kg	6,5

**813GE** Each **3.310,00**

Product running out of stock.

## 813GF



### Orig. Gedore - Art. 8602-21

Product description as Art. 813GE

Int. panel for dynamometric key	inches	3/4
Ext. panel for bushes	inches	1
Multiplies force 1x		5
Drum Ø	mm	110
Overall height	mm	143
Max tightening threshold	Nm	2700
Weight	Kg	7,2

**813GF** Each **2.290,00**

Product running out of stock.

## 813GM



### Orig. Gedore - Art. 8603-31

Product description as Art. 813GE

Int. panel for dynamometric key	inches	3/4
Ext. panel for bushes	inches	1.1/2
Multiplies force 1x		5
Drum Ø	mm	119
Overall height	mm	149
Max tightening threshold	Nm	3400
Weight	Kg	8,7

**813GM** Each **2.590,00**

Product running out of stock.

## 813GR 5



### Orig. Gedore - Art. 8604-44

Product description as Art. 813GE

Int. panel for dynamometric key	inches	3/4
Ext. panel for bushes	inches	1.1/2
Multiplies force 1x		5
Drum Ø	mm	144
Overall height	mm	165
Max tightening threshold	Nm	6000
Weight	Kg	13,6

**813GR 5** Each **4.200,00**

Product running out of stock.

**Orig. Gedore - Art. 8604-45 RS**

Product description as Art. 813GE

Int. panel for dynamometric key	inches	1/2
Ext. panel for bushes	inches	1.1/2
Multiplies force 1x		25
Drum Ø	mm	144
Overall height	mm	226
Max tightening threshold	Nm	6000
Weight	Kg	16,5

**813GS** Each **5.210,00**

Product running out of stock.



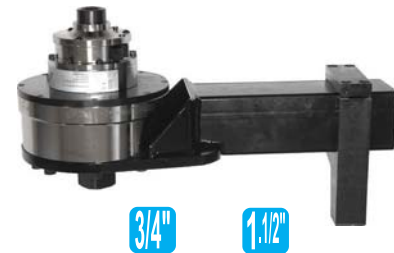
**813GS**
**Orig. Gedore - Art. 8605-62 RS**

Product description as Art. 813GE

Int. panel for dynamometric key	inches	3/4
Ext. panel for bushes	inches	1.1/2
Multiplies force 1x		25
Drum Ø	mm	184
Overall height	mm	209
Max tightening threshold	Nm	9500
Weight	Kg	21

**813GT** Each **9.530,00**

Product running out of stock.



**813GT**
**3**
**Orig. Gedore - Art. DVV-13 Z**

New generation of power multipliers which can produce high quality and multiple repeat measurement functions which can be included alongside your CALIBRATION CERTIFICATE. Suitable for any type of use even under the most demanding and most onerous circumstances. Mechanical model, can be operated alongside a manual torque wrench which can be used to tighten and loosen bolts, screws, etc.. Include single-stage planetary gear transmission and is made from high-quality aluminium alloys which make it both robust and lightweight. PTFE gears have been coated to provide durability. Accuracy range of 3%. Output framework includes holes for using sockets where wrenches can be inserted with pins and locking rings. Available in sturdy, portable casing.

Complete with forged CHROME-VANADIUM steel reaction bracket.

Max tightening threshold	Nm	1300
Int. panel for dynamometric key	inches	1/2
Ext. panel for bushes	inches	3/4
Multiplies force 1x		5
Drum Ø	mm	80
Overall height	mm	133
Weight	Kg	1,9

**814GA** Each **2.180,00**


**814GA**
**Orig. Gedore - Art. DVI-28 L**

Product description as Art. 814GA

Complete with light alloy reaction plate, with adjustable connection panel.

Max tightening threshold	Nm	2800
Int. panel for dynamometric key	inches	3/4
Ext. panel for bushes	inches	1
Multiplies force 1x		5,5
Drum Ø	mm	106
Overall height	mm	146
Weight	Kg	3,4

**814GE** Each **3.520,00**


**814GE**
**Orig. Gedore - Art. DVV-40 ZRS**

New generation of power multipliers which can produce high quality and multiple repeat measurement functions which can be included alongside your CALIBRATION CERTIFICATE. Suitable for any type of use even under the most demanding and most onerous circumstances. Mechanical model, can be operated alongside a manual torque wrench which can be used to tighten and loosen bolts, screws, etc.. Includes single-stage planetary gear transmission and is made from high-quality aluminium alloys which make it both robust and lightweight. PTFE gears have been coated to provide durability. Accuracy range of 3%. Output framework includes holes for using sockets where wrenches can be inserted with pins and locking rings. Available in sturdy, portable casing.

Complete with recoil and overload safety device. With forged CHROME-VANADIUM steel reaction bracket.

Max tightening threshold	Nm	4000
Int. panel for dynamometric key	inches	1/2
Ext. panel for bushes	inches	1
Multiplies force 1x		16
Drum Ø	mm	88
Overall height	mm	227
Weight	Kg	5,9

**814GL** Each **4.640,00**


**814GL**

## 814GP




3/4"

1.1/2"

**Orig. Gedore - Art. DVV-80 ZRS**

Product description as Art. 814GL

Complete with recoil and overload safety device. With forged CHROME-VANADIUM steel reaction bracket.

Max tightening threshold	Nm	8000
Int. panel for dynamometric key	inches	3/4
Ext. panel for bushes	inches	1.1/2
Multiplies force 1x		22
Drum Ø	mm	128
Overall height	mm	277
Weight	Kg	13,3

<b>814GP</b>	<b>Each</b>	<b>12.200,00</b>
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**ADJUSTABLE WRENCHES**

## 818G


**Orig. Gedore - Art. 60P-62P**

Made from forged CHROME-VANADIUM steel.

Head angled at 15°, (600mm head angled at 22.5°), ISO 6787. With graded scale up to size 310mm.

Phosphate finish. Polished head.

Overall length	mm	100	150	200	250	310	380	460	600
Overall length	inches	4	6	8	10	12	15	18	24
Max opening	mm	14	20	25	30	36	43	53	63
<b>818G</b>	<b>Each</b>	<b>15,40</b>	<b>15,50</b>	<b>20,60</b>	<b>24,60</b>	<b>34,80</b>	<b>75,50</b>	<b>114,00</b>	<b>316,00</b>

The 100mm wrench is not original Gedore.

## 819G


**Orig. Gedore - Art. 60 CP**

Made from forged CHROME-VANADIUM steel.

Head angled at 15°, ISO 6787. With graded scale.

Chrome finish. Polished head.

Overall length	mm	100	150	200	250	310
Overall length	inches	4	6	8	10	12
Max opening	mm	14	20	25	30	36
<b>819G</b>	<b>Each</b>	<b>16,40</b>	<b>16,20</b>	<b>21,60</b>	<b>27,70</b>	<b>38,10</b>

The 100mm wrench is not original Gedore.

## 820GA


**Orig. Gedore - Art. 60 S-8 JP**

Patented type made from forged CHROME-VANADIUM steel.

Head angled at 15°, ISO 6787. With graded scale.

Phosphate-coated, polished head and ergonomic grip in high-grip plastic material.

The protected mechanical elements and additional hammer surface allow light hammering.

Overall length	mm	200
Overall length	inches	8
Max opening	mm	25
<b>820GA</b>	<b>Each</b>	<b>28,30</b>

## 820GE


**Orig. Gedore - Art. 60 S-8 JC**

Product description as Art. 820GA

Chrome plated, polished head and ergonomic grip in high-grip plastic material.

The protected mechanical elements and additional hammer surface allow light hammering.

Overall length	mm	200
Overall length	inches	8
Max opening	mm	25
<b>820GE</b>	<b>Each</b>	<b>28,20</b>

## 821


**Prod. SCU**

Head angled at 15° with scale in millimeters. Chrome-titanium finish and handle sheathed with soft plastic material. In CHROME VANADIUM steel.

Overall length	mm	150	200	250	300
Max opening	mm	19	24	30	36
<b>821</b>	<b>Each</b>	<b>5,74</b>	<b>8,86</b>	<b>10,80</b>	<b>14,10</b>

## 822




Crescent type. In alloyed forged steel, hardened parts subject to sliding.

Chrome plated execution.

Overall length	mm	150	200	250	300	380	450
Max opening	mm	19	24	30	36	46	55
<b>822</b>	<b>Each</b>	<b>3,66</b>	<b>5,82</b>	<b>7,22</b>	<b>10,80</b>	<b>26,90</b>	<b>44,90</b>



**Orig. Peddinghaus - Art. 9048200001**

With rounded jaws and mobile wheel for use with ratchet effect, for fast and accurate nut recovery. Made of special hardened steel, handle covered with rubber for a more secure grip.

With scale.

Overall length	mm	200
Opening	mm	6 to 24
<b>822GT</b>	<b>Each</b>	<b>37,70</b>


**822GT**  
new

**COMBINATION ADJUSTABLE WRENCHES**
**Prod. SCU**

Combined model. Smooth/knurled jaw. Sliding jaw opening by rotating knurl backwards. In forged steel, head angled at 15°, with scale in millimeters. Chrome plated finish. Especially suited to mechanics, installers and plumbers.

Overall length	mm	250	300
Max opening	mm	30	35
<b>823G</b>	<b>Each</b>	<b>37,40</b>	<b>50,10</b>


**SCU**
**823G**
**3**

Combined with fixed head for traditional use and articulated head for use with ratchet effect. By moving the dedicated lever, the head allows for the rapid recovery of the nut with better grip of the jaws on the same. Head made of special hardened steel, ergonomic handle made of sturdy plastic.

Overall length	mm	210
Max opening	mm	24
<b>824G</b>	<b>Each</b>	<b>52,80</b>


**SCU**
**824G**  
new

**ADJUSTABLE HOOK SPANNERS**
**Prod. SCU**

Lightweight and handy model with square pin for long assembling works. In special steel, hardened. For nuts DIN 1804 and DIN 981.

Burnished finish.

For rings and locking ring nuts	mm	20/35	35/60	60/90	90/155	155/230
Nib thickness	mm	3	4	6	7	8
Overall length	mm	135	175	240	300	420
<b>831G</b>	<b>Each</b>	<b>21,60</b>	<b>23,10</b>	<b>29,60</b>	<b>43,20</b>	<b>72,30</b>


**SCU**
**831G**

With square pin. In special steel, hardened. For nuts DIN 1804 and DIN 981.

Burnished finish.

For rings and locking ring nuts	mm	20/35	35/60	60/90	90/155	155/230
Nib thickness	mm	5	6	7	8	10
Overall length	mm	165	210	280	335	460
<b>832G</b>	<b>Each</b>	<b>22,50</b>	<b>24,10</b>	<b>31,20</b>	<b>45,10</b>	<b>75,20</b>


**SCU**
**832G**

Product description as Art. 832G

Nicket polished finish.

For rings and locking ring nuts	mm	20/35	35/60	60/90	90/155	155/230
Nib thickness	mm	5	6	7	8	10
Overall length	mm	165	210	280	335	460
<b>832GE</b>	<b>Each</b>	<b>23,70</b>	<b>28,10</b>	<b>33,40</b>	<b>48,10</b>	<b>83,70</b>


**SCU**
**832GE**

Industrial model, forged, with square nib section. In hardened steel. Locknuts as per DIN 1804.

Chrome finish.

For rings and locking ring nuts	mm	15/35	35/50	50/80	80/120	120/180
Overall length	mm	170	215	290	345	480
<b>832GL</b>	<b>Each</b>	<b>25,10</b>	<b>33,30</b>	<b>43,10</b>	<b>56,60</b>	<b>72,70</b>


**SCU**
**832GL**

With square pin. In special steel, hardened. For nuts DIN 1804 and DIN 981.

NIROSTA stainless steel finish.

For rings and locking ring nuts	mm	20/35	35/60	60/90	90/155	155/230
Nib thickness	mm	5	6	7	7	10
Overall length	mm	165	210	280	335	460
<b>832GR</b>	<b>Each</b>	<b>56,40</b>	<b>60,20</b>	<b>68,30</b>	<b>91,60</b>	<b>172,00</b>


**SCU**
**INOX**
**832GR**

Lightweight and handy model with round pin for long assembling works. In special steel, hardened. For nuts DIN 1816.

Burnished finish.

For rings and locking ring nuts	mm	20/34	20/35	35/60	60/90	90/155	155/230
Nib Ø	mm	2,5	3	4	5	6	8
Overall length	mm	135	135	175	245	300	420
<b>832GV</b>	<b>Each</b>	<b>27,10</b>	<b>27,10</b>	<b>28,90</b>	<b>35,30</b>	<b>53,40</b>	<b>86,10</b>


**SCU**
**832GV**



Industrial type with round pin. In special steel, hardened. For nuts DIN 1816. Burnished finish.

For rings and locking ring nuts	mm	22/35	35/60	60/90	95/155	165/230
Nib Ø	mm	3	4	5,5	6	10
Overall length	mm	165	205	280	335	460
<b>833G</b>	<b>Each</b>	<b>28,10</b>	<b>30,20</b>	<b>36,60</b>	<b>55,60</b>	<b>90,20</b>



Product description as Art. 833G  
Nickel polished finish.

For rings and locking ring nuts	mm	22/35	35/60	60/90	95/155	165/230
Nib Ø	mm	3	4	5,5	6	10
Overall length	mm	165	205	280	335	460
<b>833GF</b>	<b>Each</b>	<b>31,50</b>	<b>33,10</b>	<b>40,40</b>	<b>58,30</b>	<b>98,10</b>



Industrial model, forged, with rounded nib. In hardened steel. Locknuts as per DIN 1816. Chrome finish.

For rings and locking ring nuts	mm	15/35	35/50	50/80	80/120	120/180
Nib Ø	mm	2,7	3,8	4,8	5,8	7,8
Overall length	mm	170	215	290	345	480
<b>833GL</b>	<b>Each</b>	<b>32,70</b>	<b>35,30</b>	<b>47,30</b>	<b>67,20</b>	<b>81,80</b>

**ADJUSTABLE HOOK WRENCHES FOR DYNAMOMETRIC TIGHTENING**



Prod. SCU  
With round pin, insert type, 1/2" square drive. To operate in combination with a torque wrench. In special steel, hardened. For nuts DIN 1816. Burnished finish.

For rings and locking ring nuts	mm	35/60	60/90
Nib Ø	mm	4	5,5
Overall length	mm	110	130
<b>834G</b>	<b>Each</b>	<b>77,90</b>	<b>81,30</b>

**ADJUSTABLE HOOK SPANNERS**



Prod. SCU  
Pin and toothed-rack type. In special steel, hardened. Burnished finish. For nuts DIN 1804.

For rings and locking ring nuts	mm	20/42	45/90	95/165
Nib thickness	mm	4	6	10
Overall length	mm	180	240	335
<b>835G</b>	<b>Each</b>	<b>27,30</b>	<b>30,70</b>	<b>49,10</b>

Available on request: the same spanners with square connection 1/2" - 3/4" for use with torque wrenches.

**HOOK VARIABLE SPANNERS**



Prod. SCU  
Model with round fixed pivots. Burnished finish, in special hardened steel.

Type		3	4	4A	5	6	6A	8
Nib Ø	mm	3	4	4	5	6	6	8
For rings and locking ring nuts	mm	18/40	18/40	40/80	40/80	40/80	80/125	80/125
Overall length	mm	150	150	220	220	220	295	295
<b>839G</b>	<b>Each</b>	<b>24,70</b>	<b>24,80</b>	<b>33,10</b>	<b>33,10</b>	<b>33,10</b>	<b>52,80</b>	<b>52,80</b>
Type		8A	10					
Nib Ø	mm	8	10					
For rings and locking ring nuts	mm	125/200	125/200					
Overall length	mm	405	405					
<b>839G</b>	<b>Each</b>	<b>112,00</b>	<b>113,00</b>					



Model with round interchangeable pivots. Burnished finish, in special hardened steel.

Type		3	4	4A	5	6	6A	8
Nib Ø	mm	3	4	4	5	6	6	8
For rings and locking ring nuts	mm	18/40	18/40	40/80	40/80	40/80	80/125	80/125
Overall length	mm	150	150	220	220	220	295	295
<b>840G</b>	<b>Each</b>	<b>32,10</b>	<b>32,10</b>	<b>44,30</b>	<b>44,30</b>	<b>44,30</b>	<b>65,30</b>	<b>65,30</b>
Type		8A	10					
Nib Ø	mm	8	10					
For rings and locking ring nuts	mm	125/200	125/200					
Overall length	mm	405	405					
<b>840G</b>	<b>Each</b>	<b>123,00</b>	<b>123,00</b>					

Available on request: the same spanners with square connection 1/2" - 3/4" for use with torque wrenches.

Round interchangeable pivots for Art.840G.

Type		3	4	4A	5	6	6A	8	8A	10
Ø	mm	3	4	4	5	6	6	8	8	10
<b>O840G</b>	<b>Each</b>	<b>2,98</b>	<b>2,98</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,70</b>	<b>6,00</b>	<b>6,00</b>

Prices in EURO - VAT not included

**HOOK SPANNERS**
**Prod. SCU**

In special steel, hardened. For nuts DIN 6499 D (ER). Zinc finish.

For locking ring Ø	mm	32	35	42	50	63
Size	DIN	16	20	25	32	40
Overall length	mm	163	183	203	253	285
<b>840GE</b>	<b>Each</b>	<b>11,70</b>	<b>12,90</b>	<b>13,30</b>	<b>16,70</b>	<b>22,70</b>


**840GE**
**HOOK SPANNERS FOR DYNAMOMETRIC CLAMPING**
**Prod. SCU**

Insert type, 1/2" square drive, for operation in combination with a torque wrench. In special steel, hardened. For DIN 6499 D (ER) ring nut. Zinc finish.

For locking ring Ø	mm	32	42	50	63
Size	DIN	16	25	32	40
Overall length	mm	69	85	85	85
<b>840GL</b>	<b>Each</b>	<b>65,90</b>	<b>67,60</b>	<b>78,50</b>	<b>88,50</b>


**840GL**
**3**
**HOOK SPANNERS**
**Prod. SCU**

In special steel.

Matt chromium plated.

Type with square pin. For nuts DIN 1804 and DIN 981.

For rings and locking ring nuts	mm	12/14	16/20	22/28	30/32	34/38	40/42	45/50
Overall length	mm	110	110	136	136	170	170	205
<b>840S</b>	<b>Each</b>	<b>6,62</b>	<b>6,36</b>	<b>6,48</b>	<b>6,48</b>	<b>8,56</b>	<b>8,56</b>	<b>10,40</b>
For rings and locking ring nuts	mm	52/55	58/65	68/75	80/90	92/95	98/100	105/115
Overall length	mm	205	240	240	280	280	280	320
<b>840S</b>	<b>Each</b>	<b>10,40</b>	<b>12,40</b>	<b>12,40</b>	<b>15,90</b>	<b>15,90</b>	<b>15,90</b>	<b>23,80</b>
For rings and locking ring nuts	mm	120/130	135/145	155/165	180/195	205/220	230/245	260/270
Overall length	mm	330	380	380	380	480	570	570
<b>840S</b>	<b>Each</b>	<b>23,80</b>	<b>39,20</b>	<b>39,30</b>	<b>40,80</b>	<b>70,70</b>	<b>90,20</b>	<b>90,50</b>


**840S**

When stocks are depleted, we will provide size 12/14 e 16/20 with burnished instead of chromated execution.

Product description as Art. 840S

Type with round pin. For nuts DIN 1816.

For rings and locking ring nuts	mm	12/14	16/20	25/28	30/32	34/36	40/42	45/50
Overall length	mm	110	110	136	136	170	170	205
<b>840T</b>	<b>Each</b>	<b>8,40</b>	<b>8,40</b>	<b>7,56</b>	<b>7,56</b>	<b>10,00</b>	<b>10,00</b>	<b>11,90</b>
For rings and locking ring nuts	mm	52/55	58/62	68/75	80/90	95/100	110/115	120/130
Overall length	mm	205	240	240	280	280	320	330
<b>840T</b>	<b>Each</b>	<b>11,90</b>	<b>13,90</b>	<b>13,90</b>	<b>17,80</b>	<b>17,80</b>	<b>25,80</b>	<b>25,80</b>
For rings and locking ring nuts	mm	135/145	155/165	180/195				
Overall length	mm	380	380	380				
<b>840T</b>	<b>Each</b>	<b>42,10</b>	<b>42,50</b>	<b>44,10</b>				

Sizes mm 12/14 e 16/20 running out of stock.


**840T**
**Orig. Gedore - Art. 40**

In CHROME VANADIUM forged steel. Phosphate finish.

Type with square pin. For nuts DIN 1804 and DIN 981.

For rings and locking ring nuts	mm	16/20	25/28	30/32	34/36	40/42	45/50	52/55
Overall length	mm	110	135	135	170	170	205	205
<b>841G</b>	<b>Each</b>	<b>14,30</b>	<b>13,30</b>	<b>13,30</b>	<b>14,30</b>	<b>14,30</b>	<b>16,00</b>	<b>16,00</b>
For rings and locking ring nuts	mm	58/62	68/75	80/90	95/100	110/115	120/130	135/145
Overall length	mm	240	240	280	280	335	335	385
<b>841G</b>	<b>Each</b>	<b>19,10</b>	<b>19,10</b>	<b>23,90</b>	<b>23,90</b>	<b>34,50</b>	<b>34,50</b>	<b>49,20</b>
For rings and locking ring nuts	mm	155/165	180/195	205/220				
Overall length	mm	385	465	465				
<b>841G</b>	<b>Each</b>	<b>51,50</b>	<b>130,00</b>	<b>130,00</b>				


**841G**

## 841GA



Orig. Gedore - Art. 40Z

Product description as Art. 841G

Type with round pin. For nuts DIN 1816.

For rings and locking ring nuts	mm	16/18	20/22	25/28	30/32	34/36	40/42	45/50
Nib Ø	mm	2,5	2,5	3	4	4	4	5
Overall length	mm	110	110	135	135	170	170	205
<b>841GA</b>	<b>Each</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>18,10</b>	<b>18,10</b>	<b>19,90</b>
For rings and locking ring nuts	mm	52/55	58/62	68/75	80/90	95/100	110/115	120/130
Nib Ø	mm	5	5	6	6	8	8	8
Overall length	mm	205	240	240	280	280	335	335
<b>841GA</b>	<b>Each</b>	<b>19,90</b>	<b>23,70</b>	<b>23,70</b>	<b>29,10</b>	<b>29,10</b>	<b>44,20</b>	<b>44,20</b>
For rings and locking ring nuts	mm	135/145	155/165	180/195	205/220			
Nib Ø	mm	8	8	10	10			
Overall length	mm	385	385	465	465			
<b>841GA</b>	<b>Each</b>	<b>55,90</b>	<b>55,90</b>	<b>139,00</b>	<b>139,00</b>			

### CALIPER FACE SPANNERS

## 842GA 842GB 842GBB 842GC 842GD



Orig. Gedore

In forged, CHROME VANADIUM steel.

Phosphate finish.

Adjustable opening. For threaded ring nuts and rings.

Art.	842GA	842GB	842GBB	842GC	842GD	
Nib Ø	mm	2,9	3,8	4,8	5,8	7,8
Overall length	mm	178	178	230	230	230
Max opening	mm	110	110	160	160	160
Supplier code		44	44	44	44	44
<b>Each</b>	<b>35,40</b>	<b>35,40</b>	<b>40,70</b>	<b>40,70</b>	<b>42,40</b>	

## 842GP



Prod. SCU

In special steel. Burnished finish.

Adjustable opening. For threaded ring nuts and rings.

Nib Ø	mm	1,5	2	2,5	3	4	5	6
Overall length	mm	115	115	115	160	160	215	215
Min= max opening	mm	7/40	7/40	7/40	11/60	11/60	14/100	14/100
<b>842GP</b>	<b>Each</b>	<b>11,20</b>	<b>11,20</b>	<b>11,20</b>	<b>12,40</b>	<b>12,40</b>	<b>19,20</b>	<b>19,20</b>
Nib Ø	mm	8	10	12				
Overall length	mm	260	260	260				
Min= max opening	mm	22/125	22/125	22/125				
<b>842GP</b>	<b>Each</b>	<b>32,10</b>	<b>34,80</b>	<b>35,10</b>				

### WRENCHES FOR METAL RINGS

## 842R



**3/8"** **1/2"** **3/4"**

Prod. SCU

In special steel, hardened. Burnished finish. Square joint. HAND USE.

For KM ring nuts, internal toothing.

Locking ring nuts Ø	mm	18	22	25	28	32	38	45
Ø ring nuts thread	mm	10x0,75	12x1	15x1	17x1	20x1	25x1,5	30x1,5
Teeth	Nr	4	4	4	4	4	4	4
Square drive	inches	3/8	3/8	1/2	1/2	1/2	3/4	3/4
<b>842R</b>	<b>Each</b>	<b>57,90</b>	<b>62,70</b>	<b>69,40</b>	<b>73,30</b>	<b>79,10</b>	<b>83,90</b>	<b>86,80</b>
Locking ring nuts Ø	mm	52	58	65	70			
Ø ring nuts thread	mm	35x1,5	40x1,5	45x1,5	50x1,5			
Teeth	Nr	4	4	4	4			
Square drive	inches	3/4	3/4	3/4	3/4			
<b>842R</b>	<b>Each</b>	<b>96,40</b>	<b>103,00</b>	<b>109,00</b>	<b>113,00</b>			

## 842S



**3/8"** **1/2"** **3/4"**

Product description as Art. 842R

For GU self-locking ring nuts, internal toothing

Locking ring nuts Ø	mm	18	22	25	28	32	38	44
Ø ring nuts thread	mm	10x0,75	12x1	15x1	17x1	20x1	25x1,5	30x1,5
Teeth	Nr	4	4	4	4	4	4	4
Square drive	inches	3/8	3/8	1/2	1/2	1/2	3/4	3/4
<b>842S</b>	<b>Each</b>	<b>57,90</b>	<b>62,70</b>	<b>69,40</b>	<b>73,30</b>	<b>79,10</b>	<b>83,90</b>	<b>86,80</b>
Locking ring nuts Ø	mm	50	56	62	68			
Ø ring nuts thread	mm	35x1,5	40x1,5	45x1,5	50x1,5			
Teeth	Nr	4	4	4	4			
Square drive	inches	3/4	3/4	3/4	3/4			
<b>842S</b>	<b>Each</b>	<b>96,40</b>	<b>103,00</b>	<b>109,00</b>	<b>113,00</b>			

Product description as Art. 842R

For KM ring nuts, external toothing.

Locking ring nuts Ø	mm	<b>18</b>	<b>22</b>	<b>25</b>	<b>28</b>	<b>32</b>	<b>38</b>	<b>45</b>
Ø ring nuts thread	mm	10x0,75	12x1	15x1	17x1	20x1	25x1,5	30x1,5
Teeth	Nr	4	4	4	4	4	4	4
Square drive	inches	3/8	3/8	1/2	1/2	1/2	3/4	3/4
<b>842T</b>	<b>Each</b>	<b>34,70</b>	<b>35,70</b>	<b>36,70</b>	<b>38,60</b>	<b>42,40</b>	<b>43,40</b>	<b>44,40</b>
Locking ring nuts Ø	mm	<b>52</b>	<b>58</b>	<b>65</b>	<b>70</b>	<b>75</b>	<b>80</b>	
Ø ring nuts thread	mm	35x1,5	40x1,5	45x1,5	50x1,5	55x2	60x2	
Teeth	Nr	4	4	4	4	4	4	
Square drive	inches	3/4	3/4	3/4	3/4	3/4	3/4	
<b>842T</b>	<b>Each</b>	<b>45,40</b>	<b>47,30</b>	<b>51,10</b>	<b>55,90</b>	<b>72,50</b>	<b>84,90</b>	

**SCU**

**842T**



3/8"

1/2"

3/4"

**3**

Product description as Art. 842R

For GU self-locking ring nuts, external toothing

Locking ring nuts Ø	mm	<b>18</b>	<b>22</b>	<b>25</b>	<b>28</b>	<b>32</b>	<b>38</b>	<b>44</b>
Ø ring nuts thread	mm	10x0,75	12x1	15x1	17x1	20x1	25x1,5	30x1,5
Teeth	Nr	4	4	4	4	4	4	4
Square drive	inches	3/8	3/8	1/2	1/2	1/2	3/4	3/4
<b>842V</b>	<b>Each</b>	<b>34,70</b>	<b>35,70</b>	<b>36,70</b>	<b>38,60</b>	<b>42,40</b>	<b>43,40</b>	<b>44,40</b>
Locking ring nuts Ø	mm	<b>50</b>	<b>56</b>	<b>62</b>	<b>68</b>			
Ø ring nuts thread	mm	35x1,5	40x1,5	45x1,5	50x1,5			
Teeth	Nr	4	4	4	4			
Square drive	inches	3/4	3/4	3/4	3/4			
<b>842V</b>	<b>Each</b>	<b>45,40</b>	<b>47,30</b>	<b>51,10</b>	<b>55,90</b>			

**SCU**

**842V**



3/8"

1/2"

3/4"

**BIHEXAGON RING SLOPPING SPANNERS**

Orig. Gedore - Art. 306

In forged CHROME VANADIUM steel up to a length of 435mm, in forged SPECIAL STEEL from a length of 450mm. Single ended, bihexagonal. Grey sandblasted finish.

Heavy duty. For use with hammers or sledge hammers. Dimensions according to DIN 7444.

**GEDORE**

**843G**  
**843GP**



Opening	mm	<b>22</b>	<b>24</b>	<b>27</b>	<b>30</b>	<b>32</b>	<b>34</b>	<b>36</b>	<b>38</b>	<b>41</b>	<b>46</b>	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>
Overall length	mm	160	160	180	190	195	195	205	205	225	240	250	270	270	290
Head thickness	mm	15	15	15,5	16,5	16,5	16,5	19,5	19,5	20,5	22,5	23,5	25	26	29
Weight	Kg	0,250	0,250	0,350	0,400	0,450	0,600	0,750	0,660	0,850	1,050	1,250	1,550	1,650	2,300
<b>843G</b>	<b>Each</b>	<b>27,70</b>	<b>24,40</b>	<b>29,90</b>	<b>35,10</b>	<b>37,60</b>	<b>39,80</b>	<b>46,50</b>	<b>50,30</b>	<b>60,80</b>	<b>65,30</b>	<b>75,70</b>	<b>83,90</b>	<b>90,30</b>	<b>119,00</b>
Opening	mm	<b>70</b>	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>	<b>95</b>	<b>100</b>	<b>105</b>	<b>110</b>	<b>115</b>	<b>120</b>	<b>125</b>	<b>130</b>	<b>135</b>
Overall length	mm	320	325	345	360	400	400	400	435	435	435	480	480	520	520
Head thickness	mm	32,5	34	35	37	41,5	41,5	41,5	47,5	47,5	47,5	54	54	58	58
Weight	Kg	2,600	3,350	3,800	4,200	5,700	5,700	5,700	8,500	8,500	8,500	10,000	10,000	13,000	13,000
<b>843G</b>	<b>Each</b>	<b>131,00</b>	<b>142,00</b>	<b>201,00</b>	<b>244,00</b>	<b>294,00</b>	<b>332,00</b>	<b>372,00</b>	<b>467,00</b>	<b>504,00</b>	<b>547,00</b>	<b>1.220,00</b>	<b>1.560,00</b>	<b>1.690,00</b>	<b>1.780,00</b>
Opening	mm	<b>140</b>	<b>145</b>	<b>150</b>	<b>155</b>	<b>160</b>	<b>165</b>	<b>170</b>	<b>175</b>	<b>185</b>	<b>190</b>	<b>195</b>	<b>210</b>		
Overall length	mm	520	580	580	580	580	650	650	650	700	700	700	750		
Head thickness	mm	58	64	64	64	64	70	70	70	75	75	75	80		
Weight	Kg	13,000	18,000	18,000	18,000	18,000	25,000	25,000	25,000	32,000	32,000	32,000	40,000		
<b>843G</b>	<b>Each</b>	<b>2.050,00</b>	<b>2.680,00</b>	<b>2.920,00</b>	<b>3.140,00</b>	<b>3.140,00</b>	<b>3.360,00</b>	<b>4.070,00</b>	<b>4.480,00</b>	<b>on request</b>					

When stocks are depleted, the size 22 mm will become SCU. Sizes 24 to 60 mm are supplied with UNIT DRIVE shaped opening.

Size mm 170 running out of stock.

Product description as Art. 843G

MODEL WITH OPENINGS IN US INCH SIZES

Opening	inches	<b>1</b>	<b>1.1/16</b>	<b>1.1/8</b>	<b>1.3/16</b>	<b>1.1/4</b>	<b>1.5/16</b>	<b>1.3/8</b>	<b>1.7/16</b>	<b>1.1/2</b>	<b>1.5/8</b>	<b>1.11/16</b>	<b>1.3/4</b>	<b>1.13/16</b>	<b>1.7/8</b>	<b>2</b>
Overall length	mm	160	185	185	190	190	195	195	205	210	225	225	225	240	240	250
Head thickness	mm	15	15,5	15,5	16,5	16,5	16,5	16,5	19,5	20	20,5	20,5	20,5	22,5	22,5	23,5
Weight	Kg	0,250	0,350	0,350	0,400	0,400	0,450	0,450	0,750	0,725	0,850	0,850	0,850	1,050	1,050	1,250
<b>843GP</b>	<b>Each</b>	<b>32,50</b>	<b>32,10</b>	<b>36,40</b>	<b>36,40</b>	<b>39,60</b>	<b>39,60</b>	<b>42,10</b>	<b>42,90</b>	<b>42,90</b>	<b>63,10</b>	<b>63,10</b>	<b>74,10</b>	<b>74,10</b>	<b>74,10</b>	<b>87,90</b>
Opening	inches	<b>2.1/16</b>	<b>2.1/8</b>	<b>2.3/16</b>	<b>2.1/4</b>	<b>2.3/8</b>	<b>2.7/16</b>	<b>2.9/16</b>	<b>2.5/8</b>	<b>2.3/4</b>	<b>3</b>	<b>3.1/8</b>	<b>3.3/8</b>	<b>3.1/2</b>	<b>3.3/4</b>	<b>3.7/8</b>
Overall length	mm	250	250	270	270	270	270	290	290	320	325	345	360	390	400	420
Head thickness	mm	23,5	23,5	25	25	26	26	29	29	32,5	34	35	36	40	41,5	45
Weight	Kg	1,250	1,320	1,550	1,550	1,650	1,650	2,300	2,300	2,600	3,350	3,800	3,550	5,430	5,700	6,800
<b>843GP</b>	<b>Each</b>	<b>88,40</b>	<b>120,00</b>	<b>116,00</b>	<b>116,00</b>	<b>116,00</b>	<b>118,00</b>	<b>147,00</b>	<b>147,00</b>	<b>160,00</b>	<b>169,00</b>	<b>235,00</b>	<b>396,00</b>	<b>464,00</b>	<b>427,00</b>	<b>631,00</b>
Opening	inches	<b>4</b>	<b>4.1/8</b>	<b>4.1/2</b>												
Overall length	mm	420	420	450												
Head thickness	mm	45	45	48												
Weight	Kg	6,800	6,300	7,900												
<b>843GP</b>	<b>Each</b>	<b>1.020,00</b>	<b>891,00</b>	<b>916,00</b>												

Sizes 1 and 1.3/8 inch with UNIT DRIVE shaped opening.

## HEAVY DUTY RING SPANNERS

845G




## Orig. Gedore - Art. 2A-2AR

In forged CHROME VANADIUM steel.  
Single ended, bihexagonal. Chrome plated finish.  
Used with extension tubes as levers.  
Heavy duty.

Without extension tube.

Opening	mm	22	24	27	30	32	34	36
Length without lever	mm	180	180	190	200	235	235	245
Insertion neck Ø	mm	18,3	18,3	18,3	18,3	21,3	21,3	21,3
<b>845G</b>	<b>Each</b>	<b>148,00</b>	<b>39,30</b>	<b>40,40</b>	<b>43,40</b>	<b>47,40</b>	<b>60,20</b>	<b>58,90</b>
Opening	mm	41	46	50	55	60	65	70
Length without lever	mm	265	280	290	300	345	355	365
Insertion neck Ø	mm	21,3	24,1	24,1	24,1	29,1	29,1	29,1
<b>845G</b>	<b>Each</b>	<b>68,30</b>	<b>80,10</b>	<b>94,10</b>	<b>102,00</b>	<b>135,00</b>	<b>145,00</b>	<b>175,00</b>
Opening	mm	75	80	85	90	95	100	105
Length without lever	mm	375	385	385	410	410	412	415
Insertion neck Ø	mm	29,1	29,1	29,1	29,1	29,1	29,1	29,1
<b>845G</b>	<b>Each</b>	<b>189,00</b>	<b>242,00</b>	<b>240,00</b>	<b>445,00</b>	<b>488,00</b>	<b>689,00</b>	<b>694,00</b>

846GA  
846GB  
846GC  
846GD




## Orig. Gedore

Extension tubes  
For ring spanners Art. 845 G.

Art.	846GA	846GB	846GC	846GD	
Opening	mm	22-30	32-41	46-55	60-105
<b>Each</b>		<b>32,20</b>	<b>47,10</b>	<b>70,10</b>	<b>93,90</b>

## HEAVY DUTY RING SPANNERS SETS

847G




## Orig. Gedore - Art. 2 ATM

Displayer containing 15 ring spanners Art. 845 G from 24mm to 85mm and 4 extension tubes art. 846 G.

Metallic frame, finely lacquered, dimensions 955x740mm.

19-tool set.

The set contains:

15 x 24-27-30-32-36-41-46-50-55-60-65-70-75-80-85mm ring spanners Art. 845 G

4 x extension tubes Art. 846 GA-B-C-D

Complete set.

<b>847G</b>	<b>Each</b>	<b>2.330,00</b>
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## DEEP RING SPANNERS

848G




## Orig. Gedore - Art. 308

In forged SPECIAL STEEL. Dimensions according to DIN 3111.

With hang-up hole.

Opening	mm	13*	14*	15*	16*	17*	18*	19*	20*
Overall length	mm	138	138	138	155	155	155	171	171
Head thickness	mm	8,3	8,3	8,3	9,5	9,5	9,5	11,5	11,5
<b>848G</b>	<b>Each</b>	<b>50,40</b>	<b>42,10</b>	<b>50,40</b>	<b>53,60</b>	<b>44,70</b>	<b>56,80</b>	<b>47,40</b>	<b>56,80</b>
Opening	mm	21*	22*	24*	25*	26*	29*	30*	32
Overall length	mm	190	190	215	215	230	254	254	265
Head thickness	mm	13	13	15	15	16	18	18	19
<b>848G</b>	<b>Each</b>	<b>64,40</b>	<b>53,60</b>	<b>55,40</b>	<b>66,40</b>	<b>70,60</b>	<b>79,40</b>	<b>66,20</b>	<b>58,90</b>
Opening	mm	36	41	46	50	55	60	65	
Overall length	mm	295	330	365	400	445	475	510	
Head thickness	mm	22	25	27	28	29	30	32	
<b>848G</b>	<b>Each</b>	<b>69,90</b>	<b>89,20</b>	<b>102,00</b>	<b>122,00</b>	<b>148,00</b>	<b>173,00</b>	<b>206,00</b>	

\* Sizes running out of stock.

**BIHEXAGON RING SLOPPING SPANNERS**

**Orig. Gedore - Art. 133**

In forged CHROME VANADIUM steel up to a length of 500mm, in forged SPECIAL STEEL from a length of 525mm. Single ended. Grey sandblasted finish. Heavy duty. For use with hammers or sledge hammers. Dimensions according to DIN 133.



**849G  
849GP**

Opening	mm	22	24	27	30	32	34	36	41	46	50	55	60	65
Overall length	mm	180	180	180	190	195	195	210	225	255	280	310	320	350
Head thickness	mm	16	16	16,5	17	17,5	17,5	18,5	19,5	20	21,5	24,5	24,5	28
Weight	Kg	0,280	0,280	0,400	0,450	0,500	0,640	0,700	0,950	1,300	1,700	2,250	2,700	3,300
<b>849G</b>	<b>Each</b>	<b>31,10</b>	<b>34,60</b>	<b>29,60</b>	<b>31,60</b>	<b>32,50</b>	<b>43,70</b>	<b>37,70</b>	<b>50,30</b>	<b>64,20</b>	<b>70,50</b>	<b>94,10</b>	<b>94,70</b>	<b>125,00</b>
Opening	mm	70	75	80	85	90	95	100	105	110	115	120	125	130
Overall length	mm	370	400	405	405	455	455	500	500	500	525	525	545	575
Head thickness	mm	30	31,5	34,5	34,5	39	39	47	47	47	55	55	50	55
Weight	Kg	3,900	5,250	6,000	6,100	8,000	8,100	13,200	12,900	12,900	17,200	17,250	17,300	20,000
<b>849G</b>	<b>Each</b>	<b>151,00</b>	<b>198,00</b>	<b>201,00</b>	<b>214,00</b>	<b>322,00</b>	<b>333,00</b>	<b>585,00</b>	<b>635,00</b>	<b>644,00</b>	<b>861,00</b>	<b>891,00</b>	<b>982,00</b>	<b>1.270,00</b>
Opening	mm	135	140	145	150	155	160	165	170	175				
Overall length	mm	575	640	640	640	640	715	715	715	715				
Head thickness	mm	55	60	60	60	60	70	70	70	70				
Weight	Kg	20,000	20,000	28,000	28,000	28,000	28,000	35,000	35,000	35,000				
<b>849G</b>	<b>Each</b>	<b>1.330,00</b>	<b>1.420,00</b>	<b>1.990,00</b>	<b>2.060,00</b>	<b>2.590,00</b>	<b>2.400,00</b>	<b>2.600,00</b>	<b>3.550,00</b>	<b>4.180,00</b>				

While stocks last measures mm 22-24 become SCU.  
Sizes 155 - 175 running out of stock.

Product description as Art. 849G

MODEL WITH OPENINGS IN US INCH SIZES

Opening	inches	1	1.1/16	1.1/8	1.3/16	1.1/4	1.5/16	1.3/8	1.7/16	1.1/2	1.5/8	1.11/16	1.3/4	1.13/16
Overall length	mm	180	180	180	190	190	195	195	210	210	225	225	225	255
Head thickness	mm	16,5	16,5	16,5	17	17	17,5	17,5	18,5	18,5	19,5	19,5	19,5	20
Weight	Kg	0,340	0,330	0,310	0,450	0,450	0,500	0,500	0,700	0,700	0,950	0,950	0,950	1,300
<b>849GP</b>	<b>Each</b>	<b>48,10</b>	<b>46,70</b>	<b>43,40</b>	<b>55,50</b>	<b>48,10</b>	<b>45,70</b>	<b>50,30</b>	<b>52,10</b>	<b>52,10</b>	<b>74,80</b>	<b>71,50</b>	<b>80,30</b>	<b>80,10</b>
Opening	inches	1.7/8	2	2.1/16	2.1/8	2.3/16	2.1/4	2.3/8	2.7/16	2.9/16	2.5/8	2.3/4	3	3.1/8
Overall length	mm	255	280	280	280	310	310	320	320	350	350	370	400	405
Head thickness	mm	20	21,5	21,5	21,5	24,5	24,5	24,5	24,5	28	28	30	31,5	34,5
Weight	Kg	1,300	1,700	1,700	1,700	2,250	2,250	2,700	2,700	3,300	3,300	3,900	5,250	6,000
<b>849GP</b>	<b>Each</b>	<b>84,30</b>	<b>106,00</b>	<b>115,00</b>	<b>126,00</b>	<b>144,00</b>	<b>127,00</b>	<b>145,00</b>	<b>133,00</b>	<b>195,00</b>	<b>175,00</b>	<b>282,00</b>	<b>265,00</b>	<b>239,00</b>
Opening	inches	3.3/8	3.1/2	3.3/4	3.7/8	4	4.1/8	4.1/2						
Overall length	mm	405	455	455	500	500	500	525						
Head thickness	mm	34,5	39	39	47	47	47	55						
Weight	Kg	6,100	8,000	8,100	12,900	12,900	12,900	17,200						
<b>849GP</b>	<b>Each</b>	<b>277,00</b>	<b>370,00</b>	<b>373,00</b>	<b>670,00</b>	<b>670,00</b>	<b>1.030,00</b>	<b>1.390,00</b>						

**SINGLE ENDED OPEN JAW SPANNERS**

**Orig. Gedore - Art. 894**

In CHROME VANADIUM steel. Phosphate finish up to 38mm, sandblasted finish from 41mm. Dimensions according to DIN 894. With hole.



**850G**

Opening	mm	6	7	8	9	10	11	12	13	14	15	16	17	19	22	24
Overall length	mm	73	78	94	100	106	112	124	132	140	145	155	159	170	193	217
Head thickness	mm	3,2	3,2	3,5	4	4,5	5	5	5,5	5,5	5,5	5,5	6	7	8	9
<b>850G</b>	<b>Each</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,70</b>	<b>3,70</b>	<b>4,10</b>	<b>4,36</b>	<b>4,36</b>	<b>4,50</b>	<b>5,66</b>	<b>5,68</b>	<b>4,56</b>	<b>5,60</b>	<b>6,58</b>	<b>8,82</b>
Opening	mm	25	27	30	32	34	36	38	41	46	50	55	60	65	70	75
Overall length	mm	217	239	263	275	290	305	305	344	380	413	459	494	528	572	610
Head thickness	mm	9	9,8	10,8	11,8	12,3	12,8	12,8	13,8	14,8	15,8	16,8	17,7	18,7	19,7	20,7
<b>850G</b>	<b>Each</b>	<b>9,24</b>	<b>10,40</b>	<b>12,50</b>	<b>13,90</b>	<b>24,60</b>	<b>19,40</b>	<b>21,60</b>	<b>23,80</b>	<b>31,30</b>	<b>39,30</b>	<b>44,30</b>	<b>57,50</b>	<b>68,50</b>	<b>87,60</b>	<b>102,00</b>
Opening	mm	80	85	90	95	100	105	110	115	120	125	130				
Overall length	mm	645	688	740	740	847	1000	1000	1000	1000	1000	1000				
Head thickness	mm	21,7	22,7	24,6	24,6	25	28	28	28	28	28	27				
<b>850G</b>	<b>Each</b>	<b>129,00</b>	<b>176,00</b>	<b>213,00</b>	<b>295,00</b>	<b>308,00</b>	<b>424,00</b>	<b>444,00</b>	<b>606,00</b>	<b>617,00</b>	<b>829,00</b>	<b>861,00</b>				

**Prod. SCU**

In steel. Nickel finish. Dimensions according to DIN 894.





**850R**

Opening	mm	6	7	8	9	10	11	12	13							
<b>850R</b>	<b>Each</b>	<b>0,70</b>	<b>0,74</b>	<b>0,74</b>	<b>0,74</b>	<b>0,76</b>	<b>0,80</b>	<b>0,80</b>	<b>0,90</b>							
Opening	mm	14	15	16	17	18	19	22	24							
<b>850R</b>	<b>Each</b>	<b>1,00</b>	<b>1,18</b>	<b>1,18</b>	<b>1,28</b>	<b>1,34</b>	<b>1,38</b>	<b>1,94</b>	<b>2,26</b>							
Opening	mm	27	30	32	36	38	40	41	46							
<b>850R</b>	<b>Each</b>	<b>2,66</b>	<b>3,70</b>	<b>4,50</b>	<b>5,70</b>	<b>6,92</b>	<b>7,60</b>	<b>7,60</b>	<b>10,50</b>							
Opening	mm	50	55	60	65	70	75	80	85							
<b>850R</b>	<b>Each</b>	<b>13,80</b>	<b>23,50</b>	<b>34,40</b>	<b>43,90</b>	<b>66,80</b>	<b>97,10</b>	<b>119,00</b>	<b>132,00</b>							

Prices in EURO - VAT not included

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## DOUBLE ENDED OPEN JAW SPANNERS

**852G**  

**Orig. Gedore - Art. 895**  
In CHROME VANADIUM steel.  
Dimensiones according to DIN 895.  
Phosphate finish up to 34x36mm, sandblasted finish from 36x41mm.

Opening	mm	6x7	7x8	8x9	8x10	9x11	10x11	10x12	10x13	11x13	12x13	12x14	13x14	13x15	13x17	14x15
Overall length	mm	96	107	108	114	122	124	128	128	140	140	140	140	154	158	154
Head thickness	mm	3,2	3,7	3,7	4,2	5	5	5	5	5,5	5,5	5,5	5,5	5,5	6	5,5
<b>852G</b>	<b>Each</b>	<b>3,74</b>	<b>4,52</b>	<b>3,74</b>	<b>3,74</b>	<b>4,52</b>	<b>3,98</b>	<b>5,30</b>	<b>4,52</b>	<b>4,52</b>	<b>4,52</b>	<b>4,52</b>	<b>5,66</b>	<b>5,02</b>	<b>5,12</b>	<b>5,66</b>
Opening	mm	14x17	16x17	17x19	17x22	18x19	19x22	19x24	20x22	21x23	22x24	22x27	24x26	24x27	24x30	25x28
Overall length	mm	158	158	171	192	171	195	207	195	221	221	233	241	246	269	246
Head thickness	mm	6	6	7	8	7	8	9	8	9	9	9,8	8,5	9,8	10,8	9,8
<b>852G</b>	<b>Each</b>	<b>5,26</b>	<b>6,02</b>	<b>5,90</b>	<b>7,72</b>	<b>8,18</b>	<b>7,44</b>	<b>9,54</b>	<b>8,38</b>	<b>12,40</b>	<b>9,92</b>	<b>11,80</b>	<b>16,70</b>	<b>12,40</b>	<b>13,40</b>	<b>16,70</b>
Opening	mm	27x30	27x32	30x32	30x36	32x36	34x36	36x41	41x46	46x50	50x55	55x60	65x70	75x80		
Overall length	mm	275	275	278	306	310	320	347	383	420	463	504	580	665		
Head thickness	mm	10,8	11,8	11,8	12,8	12,8	13,3	13,8	14,8	15,8	16,8	17,7	19,7	21,7		
<b>852G</b>	<b>Each</b>	<b>17,10</b>	<b>17,10</b>	<b>17,10</b>	<b>23,30</b>	<b>22,90</b>	<b>28,50</b>	<b>37,90</b>	<b>39,20</b>	<b>53,70</b>	<b>63,90</b>	<b>76,20</b>	<b>132,00</b>	<b>245,00</b>		



Sizes mm 21x23, 24x26 and 25x28 running out of stock.

**852R**  

**Prod. SCU**  
In steel. Nickel finish. Dimensions according to DIN 895.

Opening	mm	6x7	8x9	8x10	10x11	10x13	11x13	12x13
<b>852R</b>	<b>Each</b>	<b>0,70</b>	<b>0,70</b>	<b>0,76</b>	<b>0,80</b>	<b>0,80</b>	<b>0,86</b>	<b>0,94</b>
Opening	mm	13x14	13x17	14x15	14x17	16x17	17x19	18x19
<b>852R</b>	<b>Each</b>	<b>0,94</b>	<b>1,08</b>	<b>1,08</b>	<b>1,12</b>	<b>1,14</b>	<b>1,36</b>	<b>1,36</b>
Opening	mm	17x22	19x22	20x22	19x24	21x23	22x24	24x26
<b>852R</b>	<b>Each</b>	<b>1,98</b>	<b>1,98</b>	<b>2,22</b>	<b>2,52</b>	<b>2,88</b>	<b>2,98</b>	<b>3,18</b>
Opening	mm	24x27	24x30	25x28	27x30	27x32	30x32	30x36
<b>852R</b>	<b>Each</b>	<b>3,32</b>	<b>4,56</b>	<b>4,68</b>	<b>5,06</b>	<b>5,08</b>	<b>5,70</b>	<b>6,70</b>
Opening	mm	32x36	36x41	41x46	46x50	50x55	55x60	
<b>852R</b>	<b>Each</b>	<b>6,78</b>	<b>11,10</b>	<b>15,20</b>	<b>30,60</b>	<b>45,80</b>	<b>52,30</b>	



## DOUBLE ENDED OPEN JAW SPANNERS SETS

**853GA**  

**Orig. Gedore - Art. 895/08**  
Made from CHROME-VANADIUM steel.  
Dimensions according to DIN 895.  
Cardboard packaging.  
Set of 8 wrenches Art. 852 G. Dimensions: 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22mm.

<b>853GA</b>	<b>Per set</b>	<b>44,20</b>
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## CROWFOOT SPANNERS

**856G**  

**Orig. Gedore - Art. 3114**  
In CHROME VANADIUM steel.  
For working on nuts placed in hard-to-access positions.  
Chrome plated finish. Bars for wrenches see Art. 902 GE.

Opening	mm	13	14	16	17	18	19	21	22
Overall length	mm	160	160	200	200	200	200	200	200
Bore for levers Ø	mm	8,5	8,5	10,5	10,5	12,5	12,5	12,5	12,5
<b>856G</b>	<b>Each</b>	<b>32,10</b>	<b>32,70</b>	<b>42,10</b>	<b>37,10</b>	<b>42,10</b>	<b>42,10</b>	<b>49,10</b>	<b>49,10</b>
Opening	mm	24	27	30	32	36	41	46	50
Overall length	mm	250	250	250	250	315	315	315	315
Bore for levers Ø	mm	14,5	14,5	16,5	16,5	19	19	21	21
<b>856G</b>	<b>Each</b>	<b>60,40</b>	<b>66,60</b>	<b>72,10</b>	<b>80,50</b>	<b>132,00</b>	<b>176,00</b>	<b>201,00</b>	<b>231,00</b>

## GAS CYLINDER WRENCHES

**858**  

**Prod. SCU**  
Made of steel, with 1 bent head.  
Opening 25mm.  
Overall length 160mm  
Nickel finish.

<b>858</b>	<b>Each</b>	<b>1,72</b>
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**THIN WRENCHES**

**Prod. SCU**

Made of hardened CHROME-VANADIUM steel.  
With two jaws, according to ISO 691-1, particularly thin for use in confined spaces.  
Nickel-plated finish.



**858GA**  
*new*

Opening	mm	3x3,5	4x4,5	5x5,5	6x6,5	7x8	9x10
Overall length	mm	120	120	120	120	125	125
Heads thickness	mm	1,5	1,5	1,5	1,5	2	2
<b>858GA</b>	<b>Each</b>	<b>6,12</b>	<b>6,12</b>	<b>6,12</b>	<b>6,12</b>	<b>7,38</b>	<b>8,52</b>



**THIN WRENCHES SETS**

**Prod. SCU**

Made of hardened CHROME-VANADIUM steel.  
With two jaws, according to ISO 691-1, particularly thin for use in confined spaces.  
Nickel-plated finish.  
Set of 6 spanners Art. 858 GA mm 3x3.5 - 4x4.5 - 5x5.5 - 6x6.5 - 7x8 - 9x10.  
In plastic bag.



**858GB**  
*new*

**3**

<b>858GB</b>	<b>Per set</b>	<b>44,10</b>
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**THIN WRENCHES**

Made of hardened CHROME-VANADIUM steel.  
With two jaws, particularly thin for use in confined spaces.  
Chrome plated matt finish.



**858GC**  
*new*

Opening	mm	6x7	8x9	10x11	12x13	14x15	16x17	18x19
Overall length	mm	150	175	175	210	210	250	250
Heads thickness	mm	2,2	2,6	2,6	3,6	3,6	4,6	4,6
<b>858GC</b>	<b>Cad.</b>	<b>17,70</b>	<b>17,70</b>	<b>17,70</b>	<b>20,50</b>	<b>20,50</b>	<b>26,50</b>	<b>26,50</b>



Opening	mm	20x22	21x23	22x24
Overall length	mm	290	290	290
Heads thickness	mm	5,6	5,6	5,6
<b>858GC</b>	<b>Cad.</b>	<b>35,80</b>	<b>35,80</b>	<b>35,80</b>

On request, measurements in inches available.

**THIN WRENCHES SETS**

Made of hardened CHROME-VANADIUM steel.  
With two jaws, particularly thin for use in confined spaces.  
Chrome plated matt finish.  
Set of 10 spanners Art. 858 GC mm 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 22-24.  
Packed in bag that can be rolled up.



**858GD**  
*new*

<b>858GD</b>	<b>Per set</b>	<b>265,00</b>
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**THIN WRENCHES**

**Prod. SCU**

Made of hardened special steel.  
With particularly thin jaws for use in confined spaces.  
Burnished finish.



**858GL**  
*new*

Opening	mm	10	12	13	14	15	16	17	19	22	24
Overall length	mm	100	115	135	135	145	145	145	175	195	215
Heads thickness	mm	2	2,5	3	3	3	3	3	3	4	4
<b>858GL</b>	<b>Each</b>	<b>6,82</b>	<b>7,54</b>	<b>7,90</b>	<b>8,26</b>	<b>8,62</b>	<b>8,98</b>	<b>9,14</b>	<b>10,10</b>	<b>10,80</b>	<b>14,10</b>



**IGNITION SPANNERS SETS**

**Orig. Gedore - Art. 625 M**

8-pieces set of nickel wrenches. Opening dimensions: 4-4.5-5-5.5-6-6.5-7-7.5mm.  
1 x 0.40mm sheet metal thickness gauge, 1 scredriver and 1 file for contacts.



**860G**

<b>860G</b>	<b>Per set</b>	<b>12,10</b>
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**DOUBLE OPEN ENDED SPANNERS MIDGET PATTERN**

**862G**



**Orig. Gedore - Art. 8**

In CHROME-MOLYBDENUM steel.

Heads of same dimensions angled at 15° and 75°. Chrome plated finish.

Opening	mm	4	4,5	5	5,5	6	7	8
Overall length	mm	70	70	78	78	78	91	96
Head thickness	mm	1,8	1,8	1,8	1,8	1,8	1,8	2,8
<b>862G</b>	<b>Each</b>	<b>6,52</b>	<b>6,52</b>	<b>6,52</b>	<b>6,52</b>	<b>6,52</b>	<b>6,52</b>	<b>7,28</b>
Opening	mm	9	10	11	12	13	14	
Overall length	mm	103	105	116	116	131	131	
Head thickness	mm	2,8	2,8	2,8	2,8	2,8	2,8	
<b>862G</b>	<b>Each</b>	<b>7,38</b>	<b>7,28</b>	<b>7,28</b>	<b>7,72</b>	<b>7,72</b>	<b>9,32</b>	

**DOUBLE OPEN ENDED SPANNERS SETS MIDGET PATTERN**

**863GA**



**Orig. Gedore - Art. 8-0100**

Product description as Art. 862G

Set of 10 wrenches Art. 862 G. Dimensions: 5-5.5-6-7-8-9-10-11-12-13mm.

Supplied in plastic bag.

<b>863GA</b>	<b>Per set</b>	<b>71,30</b>
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**DOUBLE OPEN ENDED SPANNERS**

**870G**  
**870GP**



**Orig. Gedore - Art. 6**

According to DIN 3110 / ISO 3318 - ISO 1085

In CHROME VANADIUM steel.

Double open ended model. Heads angled at 15°.

Finely worked. Chrome plated finish.

Opening	mm	4x4,5	4x5	5x5,5	5,5x7	6x7	6x8	7x8	7x9	8x9	8x10	9x10	9x11	10x11	10x12	10x13
Overall length	mm	100	100	100	122	122	122	140	140	140	140	157	157	157	157	172
Heads thickness	mm	3,4	3,4	3,4	3,5	3,5	3,5	3,8	3,8	3,8	4	4,5	4,5	4,5	4,5	5
<b>870G</b>	<b>Each</b>	<b>8,82</b>	<b>8,82</b>	<b>8,82</b>	<b>6,90</b>	<b>5,76</b>	<b>6,90</b>	<b>7,36</b>	<b>7,60</b>	<b>5,92</b>	<b>7,20</b>	<b>8,00</b>	<b>8,00</b>	<b>6,70</b>	<b>7,84</b>	<b>9,00</b>
Opening	mm	10x14	11x13	11x14	12x13	12x14	13x14	13x15	14x15	13x17	14x17	16x17	16x18	17x19	18x19	18x21
Overall length	mm	172	172	172	172	172	178	188	188	205	205	205	205	222	222	236
Heads thickness	mm	5	5	5	5	5	5	5,5	5,5	6	6	6	6	6,5	6,5	7
<b>870G</b>	<b>Each</b>	<b>9,30</b>	<b>9,18</b>	<b>9,30</b>	<b>8,10</b>	<b>9,10</b>	<b>9,10</b>	<b>9,84</b>	<b>8,70</b>	<b>10,10</b>	<b>10,10</b>	<b>9,36</b>	<b>11,30</b>	<b>11,50</b>	<b>11,10</b>	<b>14,30</b>
Opening	mm	17x22	19x22	20x22	19x24	21x23	21x24	22x24	22x27	24x26	24x27	24x30	25x28	27x29	27x30	27x32
Overall length	mm	236	236	236	250	247	250	250	266	266	266	280	280	302	302	302
Heads thickness	mm	7	7	7	7,5	7,5	7,5	7,5	8	8	8	8,5	8,5	9	9	9
<b>870G</b>	<b>Each</b>	<b>14,40</b>	<b>13,40</b>	<b>13,10</b>	<b>15,20</b>	<b>14,30</b>	<b>16,50</b>	<b>15,10</b>	<b>18,40</b>	<b>17,30</b>	<b>17,30</b>	<b>20,40</b>	<b>19,90</b>	<b>25,60</b>	<b>24,20</b>	<b>24,20</b>
Opening	mm	30x32	30x34	30x36	32x36	34x36	36x41	38x42	41x46	46x50						
Overall length	mm	302	302	328	328	328	360	360	400	450						
Heads thickness	mm	9	9	9,4	9,4	9,4	10	10	10,7	11,6						
<b>870G</b>	<b>Each</b>	<b>24,20</b>	<b>27,70</b>	<b>43,80</b>	<b>43,80</b>	<b>51,80</b>	<b>58,40</b>	<b>67,90</b>	<b>77,70</b>	<b>109,00</b>						

Product description as Art. 870G

MODEL WITH OPENINGS IN US INCH SIZES

Opening	inches	1/4x5/16	5/16x11/32	5/16x3/8	3/8x7/16	7/16x1/2	1/2x9/16	9/16x5/8	19/32x11/16	5/8x11/16
Opening	mm	6,35x7,94	7,24x8,73	7,94x9,52	9,52x11,11	11,11x12,70	12,70x14,28	14,28x15,88	15,08x17,46	15,88x17,46
Overall length	mm	122	140	140	157	172	190	190	205	205
<b>870GP</b>	<b>Each</b>	<b>7,48</b>	<b>7,82</b>	<b>8,26</b>	<b>8,70</b>	<b>10,20</b>	<b>10,60</b>	<b>11,60</b>	<b>11,90</b>	<b>11,90</b>
Opening	inches	5/8x3/4	11/16x3/4	3/4x25/32	3/4x7/8	25/32x13/16	13/16x7/8	7/8x15/16	15/16x1	1x1/8
Opening	mm	15,88x19,05	17,46x19,05	19,05x19,84	19,05x22,22	19,84x20,64	20,64x22,22	22,22x23,81	23,81x25,40	25,40x28,58
Overall length	mm	222	222	222	236	236	236	250	266	280
<b>870GP</b>	<b>Each</b>	<b>12,90</b>	<b>14,10</b>	<b>14,10</b>	<b>15,80</b>	<b>15,80</b>	<b>15,80</b>	<b>17,90</b>	<b>20,30</b>	<b>22,10</b>
Opening	inches	1.1/16x1.1/8	1.1/16x1.1/4	1.3/16x1.5/16	1.1/4x1.3/8	1.1/4x1.7/16	1.5/16x1.1/2	1.3/8x1.1/2		
Opening	mm	26,99x28,58	26,99x31,75	30,16x33,34	31,75x34,92	31,75x36,51	33,34x38,10	34,92x38,10		
Overall length	mm	302	302	302	328	328	328	328		
<b>870GP</b>	<b>Each</b>	<b>27,10</b>	<b>27,80</b>	<b>27,80</b>	<b>49,60</b>	<b>49,60</b>	<b>51,40</b>	<b>51,40</b>		

Sizes inches 5/16x11/32 running out of stock.

**Orig. Carolus - Art. 05**

According to DIN 3110 / ISO 3318 - ISO 1085  
In CHROME VANADIUM steel.  
Double open ended model. Heads angled at 15°.  
Chrome plated finish.

Opening	mm	<b>6x7</b>	<b>8x9</b>	<b>8x10</b>	<b>10x11</b>	<b>10x13</b>	<b>12x13</b>	<b>12x14</b>
Overall length	mm	122	140	140	157	172	172	172
<b>870GR</b>	<b>Each</b>	<b>3,34</b>	<b>3,34</b>	<b>4,12</b>	<b>4,12</b>	<b>4,66</b>	<b>4,66</b>	<b>5,56</b>
Opening	mm	<b>13x14</b>	<b>13x15</b>	<b>13x17</b>	<b>14x15</b>	<b>16x17</b>	<b>17x19</b>	<b>18x19</b>
Overall length	mm	178	188	205	188	205	222	222
<b>870GR</b>	<b>Each</b>	<b>5,32</b>	<b>5,64</b>	<b>5,64</b>	<b>5,64</b>	<b>5,64</b>	<b>6,40</b>	<b>6,40</b>
Opening	mm	<b>19x22</b>	<b>20x22</b>	<b>21x23</b>	<b>22x24</b>	<b>24x26</b>	<b>24x27</b>	<b>24x30</b>
Overall length	mm	236	236	247	250	266	266	280
<b>870GR</b>	<b>Each</b>	<b>7,54</b>	<b>7,54</b>	<b>7,78</b>	<b>8,68</b>	<b>9,36</b>	<b>9,82</b>	<b>15,80</b>
Opening	mm	<b>25x28</b>	<b>27x30</b>	<b>27x32</b>	<b>30x32</b>	<b>32x36</b>	<b>36x41</b>	
Overall length	mm	280	302	302	302	328	380	
<b>870GR</b>	<b>Each</b>	<b>11,40</b>	<b>15,10</b>	<b>15,10</b>	<b>15,10</b>	<b>28,20</b>	<b>36,50</b>	



**870GR**



**3**

**DOUBLE ENDED OPEN JAW SPANNERS SETS**

**Orig. Gedore - Art. 6**

According to DIN 3110 / ISO 3318 - ISO 1085  
In CHROME VANADIUM steel. Double open ended model. Heads angled at 15°.  
Finely worked. Chrome plated finish.  
Supplied in cardboard packaging.  
Set of 6 wrenches Art. 870 G. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17mm.

<b>871G 6</b>	<b>Per set</b>	<b>45,10</b>
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Product description as Art. 871G 6

Set of 8 wrenches Art. 870 G. Dimensions: 6x7-8x9- 10x11-12x13-14x15-16x17-18x19-20x22mm.

<b>871G 8</b>	<b>Per set</b>	<b>69,40</b>
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Product description as Art. 871G 6

Set of 10 wrenches Art. 870 G. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-21x23-24x27mm.

<b>871G 10</b>	<b>Per set</b>	<b>102,00</b>
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Product description as Art. 871G 6

Set of 10 wrenches Art. 870 G. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-24x27-30x32mm.

<b>871G 10A</b>	<b>Per set</b>	<b>112,00</b>
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Product description as Art. 871G 6

Set of 12 wrenches Art. 870 G. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-21x23-24x27-25x28-30x32mm.

<b>871G 12</b>	<b>Per set</b>	<b>146,00</b>
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Product description as Art. 871G 6

Set of 12 wrenches Art. 870 G. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-21x23-24x26-25x28-27x32mm.

<b>871G 12A</b>	<b>Per set</b>	<b>146,00</b>
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**Orig. Gedore - Art. 6A**

Product description as Art. 871G 6

SET OF DOUBLE OPEN ENDED WRENCHES WITH OPENINGS IN US INCH SIZES

Set of 8 wrenches Art. 870 GP. Dimensions: 1/4x5/16-5/16x3/8-7/16x1/2-9/16x5/8-19/32x11/16-3/4x25/32-13/16x7/8-15/16x1 inches.

<b>871GP 8</b>	<b>Per set</b>	<b>101,00</b>
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Product description as Art. 871G 6

SET OF DOUBLE OPEN ENDED WRENCHES WITH OPENINGS IN US INCH SIZES

Set of 12 wrenches Art. 870 GP. Dimensions: 1/4x5/16-5/16x3/8-3/8x7/16-19/32x11/16-5/8x3/4-3/4x7/8-7/16x1/2-1/2x9/16-9/16x5/8-25/32x13/16-15/16x1-1.1/16x1.1/8 inches.

<b>871GP 12</b>	<b>Per set</b>	<b>163,00</b>
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- 871G 6**
- 871G 8**
- 871G 10**
- 871G 10A**
- 871G 12**
- 871G 12A**
- 871GP 8**
- 871GP 12**



871GS 8  
871GS 12



**Orig. Gedore - Art. H6**

According to DIN 3110 / ISO 3318 - ISO 1085  
In CHROME VANADIUM steel. Double open ended model. Heads angled at 15°. Finely worked. Chrome plated finish.

SET OF DOUBLE OPEN ENDED WRENCHES WITH STAND

Set of 8 wrenches Art. 870 G. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22mm  
Supplied on stand.

871GS 8 Per set **88,90**

Product description as Art. 871GS 8

SET OF DOUBLE OPEN ENDED WRENCHES WITH STAND

Set of 12 wrenches Art. 870 G. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-21x23-24x27-25x28-30x32mm. Supplied on stand.

871GS 12 Per set **170,00**

3

872GA  
872GB  
872GC  
872GD  
872GE



**Orig. Carolus - Art. 0500**

According to DIN 3110 / ISO 3318 - ISO 1085  
In CHROME VANADIUM steel. Double open ended model. Heads angled at 15°. Chrome plated finish.

Supplied in cardboard packaging.

Set of 6 wrenches Art. 870 GR. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17mm.

872GA Per set **26,80**

Product description as Art. 872GA

Set of 8 wrenches Art. 870 GR. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22mm:

872GB Per set **37,10**

Product description as Art. 872GA

Set of 10 wrenches Art. 870 GR. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-24x27-30x32mm.

872GC Per set **60,60**

Product description as Art. 872GA

Set of 12 wrenches Art. 870 GR. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-21x23-24x27-25x28-30x32mm.

872GD Per set **72,50**

Product description as Art. 872GA

Set of 12 wrenches Art. 870 GR. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-21x23-24x26-25x28-27x32mm.

872GE Per set **72,50**

**PLASTIC SUPPORTS FOR WRENCHES SETS**

872GT 8  
872GT 12



**Orig. Gedore - Art. E-PH 6-8L**

Plastic supports for 8-wrenches sets.

872GT 8 Each **2,90**

**Orig. Gedore - Art. E-PH 6-12L**

Plastic supports for 12-wrenches sets.

872GT 12 Each **3,70**

**DOUBLE OPEN ENDED SPANNERS**

873



**Prod. SCU**

Standard model. According to DIN 3110. In CHROME VANADIUM steel. Double open ended model. Heads angled at 15°. Chrome plated finish.

Opening	mm	6x7	8x9	10x11	12x13	14x15	16x17	18x19
Overall length	mm	122	140	157	172	190	209	222
<b>873</b>	<b>Each</b>	<b>1,68</b>	<b>2,26</b>	<b>2,62</b>	<b>2,88</b>	<b>3,32</b>	<b>3,68</b>	<b>4,80</b>
Opening	mm	20x22	21x23	24x27	25x28	30x32		
Overall length	mm	236	250	266	280	302		
<b>873</b>	<b>Each</b>	<b>5,06</b>	<b>5,88</b>	<b>7,86</b>	<b>9,00</b>	<b>13,60</b>		

**DOUBLE ENDED OPEN JAW SPANNERS SETS**

873A  
873B



**Prod. SCU**

Standard model. According to DIN 3110. In CHROME VANADIUM steel. Double open ended model. Heads angled at 15°. Chrome plated finish. Supplied in cardboard packaging.

Set of 8 wrenches Art. 873. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22mm.

873A Per set **26,30**

Product description as Art. 873A

Set of 12 wrenches Art. 873. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-21x23-24x27-25x28-30x32mm.

873B Per set **62,50**

Prices in EURO - VAT not included

**DOUBLE ENDED OPEN JAW SPANNERS WITH RATCHET**

**Orig. Sturem**

Made from CHROME-VANADIUM steel. With two jaws with a 15° inclination. Equipped with a patented system of movable jaws that allows to screw bolts, nuts, etc. with a ratchet effect. Particularly suitable for fast tightening and in places that are hard to access. Measurements of the jaws in mm/inches. Chrome plated finish.

**STUREM**

**873E**  
*new*



Size		1	2	3	4
Opening	mm	9-10x11-12	13-14x16x17	18-19x20-22	22-24x25-27
Opening	inches.	3/8"x7/16"	1/2"-9/16"x5/8"	11/16"-3/4"x13/16"	7/8"-15/16"x1"-1.1/16"
Overall length	mm	135	180	215	260
<b>873E</b>	<b>Each</b>	<b>26,50</b>	<b>33,80</b>	<b>38,10</b>	<b>44,70</b>

**DOUBLE ENDED OPEN JAW SPANNERS WITH RATCHET IN SETS**

**Orig. Sturem**

Made from CHROME-VANADIUM steel. With two jaws with a 15° inclination. Equipped with a patented system of movable jaws that allows to screw bolts, nuts, etc. with a ratchet effect. Particularly suitable for fast tightening and in places that are hard to access. Measurements of the jaws in mm/inches. Chrome plated finish. Set of 4 spanners Art. 873 E 1-2-3-4. Packed in plastic case.

**STUREM**

**873F**  
*new*



<b>873F</b>	<b>Per set</b>	<b>111,00</b>
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**COMBINATION SPANNERS**

**Orig. Gedore - Art. 1B**

According to DIN 3113 B/ISO 3318. In CHROME VANADIUM steel. Combination reinforced model with 1 hexagonal profile and 1 bihexagonal profile, bent at 10°. Thin and wide open end. Finely worked. Chrome plated finish. Dimensions 5mm and 5.5mm have hexagonal rings instead of polygonal rings.

**GEDORE**

**874G**  
**874GA**



Opening	mm	5	5,5	6	7	8	9	10	11	12	13	14
Heads thickness	mm	3,7x5	3,7x5	3,7x5	3,7x6	4x6,5	4,3x7,5	4,7x8,2	5x9	5,3x9,5	6x10,2	6,3x11
Overall length	mm	100	100	100	112	125	138	148	158	168	185	198
<b>874G</b>	<b>Each</b>	<b>11,10</b>	<b>11,10</b>	<b>10,50</b>	<b>10,40</b>	<b>10,20</b>	<b>11,60</b>	<b>11,50</b>	<b>12,50</b>	<b>13,00</b>	<b>14,10</b>	<b>14,30</b>
Opening	mm	15	16	17	18	19	20	21	22	23	24	25
Heads thickness	mm	6,7x11,5	7x12	7,5x12,5	7,7x13,2	8x13,5	8,5x14,5	8,7x14,5	9x14,5	9,3x15,5	9,5x15,5	10x17,5
Overall length	mm	210	220	232	245	258	270	280	292	305	318	328
<b>874G</b>	<b>Each</b>	<b>16,90</b>	<b>18,20</b>	<b>18,80</b>	<b>21,10</b>	<b>22,10</b>	<b>23,60</b>	<b>24,50</b>	<b>27,30</b>	<b>29,70</b>	<b>30,70</b>	<b>32,70</b>
Opening	mm	26	27	28	29	30	32	33	34	36	38	41
Heads thickness	mm	10,3x17,5	10,5x17,5	11x19,5	11x19,5	11,2x19,5	11,8x20,5	11,8x20,5	11,8x20,5	12,8x23,5	13,2x24,2	14x25,5
Overall length	mm	340	352	370	370	390	412	412	412	460	460	520
<b>874G</b>	<b>Each</b>	<b>33,10</b>	<b>34,80</b>	<b>40,50</b>	<b>43,40</b>	<b>44,90</b>	<b>47,10</b>	<b>53,90</b>	<b>61,10</b>	<b>86,50</b>	<b>96,90</b>	<b>105,00</b>
Opening	mm	46	50	55	60	65	70	75	80			
Heads thickness	mm	15x27,5	16x29,5	17x30,5	18x32	22x33	24x35	26x38	28x41			
Overall length	mm	550	580	620	660	710	760	810	860			
<b>874G</b>	<b>Each</b>	<b>141,00</b>	<b>174,00</b>	<b>217,00</b>	<b>301,00</b>	<b>600,00</b>	<b>664,00</b>	<b>752,00</b>	<b>883,00</b>			

Art. 874 Gx5, 60 with polygonal open end "UNIT DRIVE".

Product description as Art. 874G

**MODEL WITH OPENINGS IN US INCH SIZES**

Opening	inches	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8
Heads thickness	mm	3,7x5	4x6,5	4,7x8,2	5x9	6x10,2	6,3x11	7x12	7,7x13,2	8x13,5	8,7x14,5	9x14,5
Overall length	mm	100	125	148	158	185	198	220	245	258	280	292
<b>874GA</b>	<b>Each</b>	<b>10,70</b>	<b>10,90</b>	<b>13,70</b>	<b>13,20</b>	<b>14,40</b>	<b>16,10</b>	<b>18,30</b>	<b>24,10</b>	<b>23,50</b>	<b>28,20</b>	<b>30,10</b>
Opening	inches	15/16	1	1.1/16	1.1/8	1.1/4	1.5/16	1.3/8	1.7/16	1.1/2	1.5/8	1.3/4
Heads thickness	mm	9,5x15,5	10,3x17,5	10,5x17,5	11x19,5	11,8x20,5	11,8x20,5	12,8x23,5	12,8x23,5	13,2x24,2	14x25,5	15x27,5
Overall length	mm	318	340	352	370	412	412	460	460	460	520	550
<b>874GA</b>	<b>Each</b>	<b>32,10</b>	<b>32,90</b>	<b>36,20</b>	<b>42,70</b>	<b>49,80</b>	<b>54,50</b>	<b>98,80</b>	<b>105,00</b>	<b>106,00</b>	<b>127,00</b>	<b>153,00</b>
Opening	inches	1.13/16	1.7/8	2	2.1/16	2.3/16	2.1/4	2.3/8	2.7/16			
Heads thickness	mm	15x27,5	15x27,5	16x29,5	16x29,5	17x30,5	17x30,5	18x32	18x32			
Overall length	mm	550	550	580	580	620	620	660	660			
<b>874GA</b>	<b>Each</b>	<b>157,00</b>	<b>157,00</b>	<b>203,00</b>	<b>203,00</b>	<b>246,00</b>	<b>246,00</b>	<b>345,00</b>	<b>345,00</b>			

Art. 874 GAx1/4 - 1.5/16 with polygonal open end "UNIT DRIVE".

## 874GD 874GE




### Orig. Gedore - Art. 7

According to DIN 3113 A/3318.  
In CHROME VANADIUM steel.  
Bihexagonal head angled at 15°.  
Finely worked. Chrome plated finish.

Opening	mm	3	3,2	3,5	4	4,5	5	5,5	6	7	8	9	10
Heads thickness	mm	2,8x2,8	2,8x2,8	2,8x2,8	3,2x3,2	3,2x3,2	3,6x3,6	3,6x3,6	3,4x5	3,6x5,5	3,8x6	4x6,5	4,2x7
Overall length	mm	78	78	78	85	85	92	92	100	110	120	130	140
<b>874GD</b>	<b>Each</b>	<b>12,50</b>	<b>12,80</b>	<b>12,50</b>	<b>12,50</b>	<b>12,50</b>	<b>12,50</b>	<b>12,50</b>	<b>8,36</b>	<b>8,24</b>	<b>8,72</b>	<b>9,00</b>	<b>8,76</b>
Opening	mm	11	12	13	14	15	16	17	18	19	20	21	22
Heads thickness	mm	4,5x7,5	4,8x8	5x8,5	5,2x9	5,5x9,5	5,8x10	6x10,5	6,2x11	6,5x11,5	6,8x12	7x12,5	7,2x13
Overall length	mm	150	160	170	180	190	200	210	220	230	240	252	262
<b>874GD</b>	<b>Each</b>	<b>9,64</b>	<b>10,30</b>	<b>10,40</b>	<b>11,10</b>	<b>11,90</b>	<b>12,70</b>	<b>12,80</b>	<b>14,60</b>	<b>14,30</b>	<b>17,30</b>	<b>17,70</b>	<b>19,80</b>
Opening	mm	23	24	25	26	27	28	29	30	32	34	36	
Heads thickness	mm	7,6x13,5	8x14	8,2x14,5	8,2x15	8,5x15,5	8,8x16	8,8x16,5	9x17	9,5x18	10x19	10,5x20	
Overall length	mm	270	282	290	302	310	320	330	340	380	420	460	
<b>874GD</b>	<b>Each</b>	<b>20,50</b>	<b>22,20</b>	<b>23,10</b>	<b>23,60</b>	<b>25,80</b>	<b>29,50</b>	<b>30,20</b>	<b>30,70</b>	<b>33,70</b>	<b>44,80</b>	<b>66,10</b>	

Dimensions: 3-3,2-3,5-4-4,5-5-5,5 mm, hexagonal rings instead of polygonal rings.

Product description as Art. 874GD

MODEL WITH OPENINGS IN US INCH SIZES

Opening	inches	1/4	5/16	11/32	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16	1
Heads thickness	mm	3,4x5	3,8x6	4x6,5	4,2x7	4,5x7,5	5x8,5	5,2x9	5,8x10	6,2x11	6,5x11,5	7x12,5	7,2x13	8x14	8,2x15
Overall length	mm	100	120	130	140	150	170	180	200	220	230	252	262	282	302
<b>874GE</b>	<b>Each</b>	<b>9,84</b>	<b>9,94</b>	<b>10,10</b>	<b>10,30</b>	<b>10,80</b>	<b>12,10</b>	<b>12,80</b>	<b>14,70</b>	<b>16,70</b>	<b>17,30</b>	<b>19,60</b>	<b>22,10</b>	<b>25,30</b>	<b>24,80</b>

## 874GL




### Orig. Gedore - Art. 7XL

LONG pattern.  
According to DIN 3113.  
In CHROME VANADIUM steel.  
Bihexagonal head angled at 15°.  
Finely worked. Chrome plated finish.

Opening	mm	7	8	9	10	11	12	13	14	15	16	17	18
Heads thickness	mm	4,5x7	4,5x7	4,5x7,5	5x8,5	5,5x9	5,5x10	6x10,5	6,5x10,8	7x11,2	7,5x11,8	8,5x12,2	8,5x13,2
Overall length	mm	170	170	180	190	200	210	225	235	250	265	280	295
<b>874GL</b>	<b>Each</b>	<b>12,10</b>	<b>12,00</b>	<b>13,70</b>	<b>13,60</b>	<b>13,60</b>	<b>13,60</b>	<b>13,60</b>	<b>16,40</b>	<b>16,40</b>	<b>19,30</b>	<b>19,30</b>	<b>23,80</b>
Opening	mm	19	21	22	24	27	30	32	33	34	36	41	46
Heads thickness	mm	9,5x14,2	9,5x14,2	11x16,2	12x18,2	13x20,2	14x21,2	14x22,2	15x23,2	15x23,2	15x24,2	16x26	17x28
Overall length	mm	310	340	350	400	450	480	500	520	550	600	640	640
<b>874GL</b>	<b>Each</b>	<b>23,80</b>	<b>27,40</b>	<b>27,40</b>	<b>30,40</b>	<b>39,10</b>	<b>63,60</b>	<b>76,80</b>	<b>96,30</b>	<b>97,30</b>	<b>96,90</b>	<b>108,00</b>	<b>175,00</b>

## 874GR




### Orig. Carolus - Art. 09

According to DIN 3113 A.  
In CHROME VANADIUM steel.  
Bihexagonal head angled at 15°.  
Chrome plated finish.

Opening	mm	6	7	8	9	10	11	12
Heads thickness	mm	3,4x5	3,6x5,5	3,8x6	4x6,5	4,2x7	4,5x7,5	4,8x8
Overall length	mm	100	110	120	130	140	150	160
<b>874GR</b>	<b>Each</b>	<b>4,12</b>	<b>4,12</b>	<b>4,12</b>	<b>4,12</b>	<b>4,34</b>	<b>4,72</b>	<b>5,18</b>
Opening	mm	13	14	15	16	17	18	19
Heads thickness	mm	5x8,5	5,2x9	5,5x9,5	5,8x10	6x10,5	6,2x11	6,5x11,5
Overall length	mm	170	180	190	200	210	220	230
<b>874GR</b>	<b>Each</b>	<b>5,18</b>	<b>5,64</b>	<b>5,86</b>	<b>6,32</b>	<b>6,32</b>	<b>7,62</b>	<b>7,62</b>
Opening	mm	20	21	22	24	27	30	32
Heads thickness	mm	6,8x12	7x12,5	7,2x13	8x14	8,5x15,5	9x17	9,5x18
Overall length	mm	240	252	262	282	310	340	370
<b>874GR</b>	<b>Each</b>	<b>9,06</b>	<b>9,36</b>	<b>9,98</b>	<b>11,50</b>	<b>15,70</b>	<b>16,40</b>	<b>19,70</b>
Opening	mm	34						
Heads thickness	mm	10x19						
Overall length	mm	420						
<b>874GR</b>	<b>Each</b>	<b>26,60</b>						

**COMBINATION SPANNERS SETS**

**Orig. Gedore - Art. 1B**

According to DIN 3113 B/ISO 3318.

In CHROME VANADIUM steel.

Combination reinforced model with 1 hexagonal profile and 1 bihexagonal profile, bent at 10°.

Thin and wide open end. Finely worked. Chrome plated finish.

Supplied in cardboard packaging.

Set of 8 wrenches Art. 874 G 8-9-10-11-13-14-17-19mm

**875G 8** Per set **116,00**

Product description as Art. 875G 8

Set of 11 wrenches Art. 874 G 8-9-10-11-12-13-14-15-17-19-22mm

**875G 11** Per set **173,00**

Product description as Art. 875G 8

Set of 12 wrenches Art. 874 G 10-11-12-13-14-17-19-22-24-27-30-32mm

**875G 12** Per set **292,00**

Product description as Art. 875G 8

Set of 17 wrenches Art. 874 G 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22mm

**875G 17** Per set **281,00**

Product description as Art. 875G 8

Set of 20 wrenches Art. 874 G 8-9-10-11-12-13-14-15-16-17-18-19-21-22-23-24-26-27-30-32mm

**875G 20** Per set **438,00**

Product description as Art. 875G 8

Set of 25 wrenches Art. 874 G 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-30-32mm

**875G 25** Per set **593,00**

Product description as Art. 875G 8

SET OF COMBINATION WRENCHES WITH OPENINGS IN US INCH SIZES

Set of 8 wrenches Art. 874 GA - inch sizes 3/8-7/16-1/2-9/16-5/8-3/4-7/8-1

**875GP 8** Per set **160,00**

Product description as Art. 875G 8

SET OF COMBINATION WRENCHES WITH OPENINGS IN US INCH SIZES

Set of 14 wrenches Art. 874 GA - inch sizes 5/16-3/8-7/16-1/2- 9/16-5/8-11/16-3/4-13/16-7/8-1-1.1/16-1.1/8-1.1/4

**875GP 14** Per set **346,00**



**875G 8**  
**875G 11**  
**875G 12**  
**875G 17**  
**875G 20**  
**875G 25**  
**875GP 8**  
**875GP 14**

**3**



**Orig. Gedore - Art. 7**

According to DIN 3113 A/3318. In CHROME VANADIUM steel.

Bihexagonal head angled at 15°.

Finely worked. Chrome plated finish.

Supplied in cardboard packaging.

Set of 12 wrenches Art. 874 GD 6-7-8-9-10-11-12-13-14-15-17-19mm

**877G 12** Per set **123,00**

Product description as Art. 877G 12

Set of 17 wrenches Art. 874 GD 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22mm

**877G 17** Per set **205,00**

Product description as Art. 877G 12

Set of 20 wrenches Art. 874 GD 8-9-10-11-12-13-14-15-16-17-18-19-21-22-23-24-26-27-30-32mm

**877G 20** Per set **327,00**

Product description as Art. 877G 12

Set of 25 wrenches Art. 874 GD 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-30-32mm

**877G 25** Per set **414,00**

Product description as Art. 877G 12

SET OF COMBINATION WRENCHES WITH OPENINGS IN US INCH SIZES

Set of 8 wrenches Art. 874 GE - inch sizes 1/4-5/16-3/8-7/16-1/2-9/16-5/8-3/4

**877GP 8** Per set **97,50**

Product description as Art. 877G 12

SET OF COMBINATION WRENCHES WITH OPENINGS IN US INCH SIZES

Set of 12 wrenches Art. 874 GE - inch sizes 5/16-3/8-7/16-1/2-9/16-5/8-11/16-3/4-13/16-7/8-15/16-1

**877GP 12** Per set **196,00**



**877G 12**  
**877G 17**  
**877G 20**  
**877G 25**  
**877GP 8**  
**877GP 12**



**877GS 12**



**Orig. Gedore - Art. 7 XL**  
 LONG pattern.  
 According to DIN 3113.  
 In CHROME VANADIUM steel.  
 Bihexagonal head angled at 15°. Finely worked. Chrome plated finish.  
 Supplied in cardboard packaging.  
 Set of 12 wrenches Art. 874 GL 10-11-12-13-14-17-19-22-24-27-30-32mm

**877GS 12** Per set **346,00**

**3**  
**878GA**  
**878GB**  
**878GE**  
**878GF**



**Orig. Carolus - Art. 0900**  
 According to DIN 3113 A. In CHROME VANADIUM steel.  
 Bihexagonal head angled at 15°. Chrome plated finish.  
 Supplied in cardboard packaging(only Art. 878 GB supplied in bag).  
 Set of 10 wrenches Art. 874 GR 8-10-11-12-13-14-15-17-19-22mm

**878GA** Per set **53,90**

Product description as Art. 878GA  
 Set of 13 wrenches Art. 874 GR 6-7-8-9-10-11-12-13-14-15-17-19-22mm

**878GB** Per set **71,90**

Product description as Art. 878GA  
 Set of 12 wrenches Art. 874 GR 10-11-12-13-14-17-19-22-24-27-30-32mm.

**878GE** Per set **111,00**

Product description as Art. 878GA  
 Set of 21 wrenches Art. 874 GR 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-24-27-30-32mm

**878GF** Per set **167,00**

**COMBINATION SPANNERS**

**879**



**Prod. SCU**  
 Standard model. According to DIN 3113 A. In CHROME VANADIUM steel. Bihexagonal head angled at 15°. Chrome plated finish.

Mouths opening	mm	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
Overall length	mm	100	110	120	130	140	150	160
<b>879</b>	<b>Each</b>	<b>1,38</b>	<b>1,38</b>	<b>1,62</b>	<b>1,62</b>	<b>1,88</b>	<b>1,94</b>	<b>2,32</b>
Mouths opening	mm	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>
Overall length	mm	170	180	190	200	210	220	230
<b>879</b>	<b>Each</b>	<b>2,38</b>	<b>2,50</b>	<b>2,68</b>	<b>2,88</b>	<b>3,08</b>	<b>4,06</b>	<b>4,32</b>
Mouths opening	mm	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>
Overall length	mm	240	250	260	270	280	290	300
<b>879</b>	<b>Each</b>	<b>4,80</b>	<b>5,38</b>	<b>6,30</b>	<b>6,86</b>	<b>7,68</b>	<b>8,30</b>	<b>9,18</b>
Mouths opening	mm	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>32</b>		
Overall length	mm	310	320	330	340	360		
<b>879</b>	<b>Each</b>	<b>10,30</b>	<b>11,10</b>	<b>12,10</b>	<b>12,20</b>	<b>12,70</b>		

**COMBINATION SPANNERS SETS**

**879A**  
**879B**



**Prod. SCU**  
 Standard model. According to DIN 3113A. In CHROME VANADIUM steel. Bihexagonal head angled at 15°. Chrome plated finish.  
 Supplied in cardboard packaging.  
 Set of 17 wrenches Art. 879 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22mm.

**879A** Per set **51,10**

Product description as Art. 879A  
 Set of 26 wrenches Art. 879 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-32mm.

**879B** Per set **141,00**

**COMBINATION OPEN AND RATCHET-RING SPANNERS**

**879D**



**Prod. SCU**  
 Short pattern. In CHROME-VANADIUM steel. Straight heads, with 1 open end and 1 bihexagonal ratchet hand. Fine toothed. Sturdy, handy and user-friendly. High quality. Finely worked. Chrome plated finish.

Mouths opening	mm	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>
Overall length	mm	90	93	95	103	103	105	115
<b>879D</b>	<b>Each</b>	<b>8,62</b>	<b>8,90</b>	<b>8,90</b>	<b>9,06</b>	<b>9,50</b>	<b>9,78</b>	<b>10,40</b>
Mouths opening	mm	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>		
Overall length	mm	119	122	125	131	136		
<b>879D</b>	<b>Each</b>	<b>11,40</b>	<b>11,90</b>	<b>12,90</b>	<b>14,30</b>	<b>14,30</b>		



**COMBINATION OPEN AND RATCHET-RING SPANNERS SETS**

**Prod. SCU**

Short pattern. In CHROME-VANADIUM steel. Straight heads, with 1 open end and 1 bihexagonal ratchet hand. Fine toothed. Sturdy, handy and user-friendly. High quality. Finely worked. Chrome plated finish.

Supplied in cardboard packaging.

Set of 8 wrenches Art. 879 D. Dimensions: 8-10-12-13-14-15-17-19mm.

**879E** Per set **85,80**



**879E**

Product description as Art. 879E

Supplied in cardboard packaging.

Set of 10 wrenches Art. 879 D. Dimensions: 10-11-12-13-14-15-16-17-18-19mm.

**879F** Per set **112,44**



**879F**

**3**

**COMBINATION OPEN AND RATCHET-RING SPANNERS**

**Orig. Carolus - Art. 1700**

Made from CHROME-VANADIUM steel.

Straight, thin heads with a fixed aperture and a polygonal ratchet (72 teeth). Sturdy, easy to handle, practical. Finely worked. Chrome finish.

Mouths opening	mm	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>
Overall length	mm	135	158	158	164	167	177	189
<b>879FA</b>	<b>Each</b>	<b>11,10</b>	<b>12,20</b>	<b>12,70</b>	<b>14,40</b>	<b>14,80</b>	<b>15,10</b>	<b>16,10</b>
Mouths opening	mm	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>
Overall length	mm	198	205	224	235	246	280	280
<b>879FA</b>	<b>Each</b>	<b>18,30</b>	<b>19,10</b>	<b>19,90</b>	<b>22,50</b>	<b>23,40</b>	<b>31,60</b>	<b>31,90</b>
Mouths opening	mm	<b>22</b>	<b>24</b>	<b>27</b>	<b>30</b>	<b>32</b>	<b>34</b>	<b>36</b>
Overall length	mm	280	310	330	425	425	460	490
<b>879FA</b>	<b>Each</b>	<b>32,30</b>	<b>38,40</b>	<b>54,60</b>	<b>76,20</b>	<b>77,30</b>	<b>92,10</b>	<b>114,00</b>



**879FA**

**COMBINATION OPEN AND RATCHET-RING SPANNERS SETS**

**Orig. Carolus - Art. 1700.005**

Made from CHROME-VANADIUM steel.

Straight, thin heads with a fixed aperture and a polygonal ratchet (72 teeth). Sturdy, easy to handle, practical. Finely worked. Chrome finish.

Packed in cardboard box.

Set of 5 wrenches Art. 879 FA size 8-10-13-17-19mm.

**879FB** Per set **76,80**



**879FB**

**Orig. Carolus**

Product description as Art. 879FB

Packed in roll-up bag Art. 2076 GB.

Set of 8 wrenches Art. 879 FA size 8-10-12-13-14-17-19-22mm.

**879FD** Per set **154,02**



**879FD**

**COMBINATION OPEN AND RATCHET-RING SPANNERS**

**879FE**



**Orig. Gedore - Art. 7R**

Made from CHROME-VANADIUM steel, forged, with a double T structure which provides greater resistance when rotating, and which has a hollow profile for improved ergonomics. Operational ratchet angle allows reduced tightening in confined spaces.

Heads are straight and thin with one fixed aperture, and one with polygonal ratchet. Ratchet side is opening by unscrewing 2 screws for easy inspection and cleaning. Accurate and precise craftsmanship. Chrome finish.

Mouths opening	mm	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>
Overall length	mm	140	150	160	164	170	180	190
<b>879FE</b>	<b>Each</b>	<b>18,20</b>	<b>18,60</b>	<b>19,10</b>	<b>19,60</b>	<b>20,80</b>	<b>22,30</b>	<b>23,00</b>
Mouths opening	mm	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>21</b>	<b>22</b>
Overall length	mm	200	212	225	235	250	274	292
<b>879FE</b>	<b>Each</b>	<b>24,10</b>	<b>25,50</b>	<b>26,90</b>	<b>28,60</b>	<b>29,20</b>	<b>35,10</b>	<b>40,20</b>
Mouths opening	mm	<b>24</b>	<b>27</b>	<b>30</b>	<b>32</b>	<b>34</b>	<b>36</b>	
Overall length	mm	325	359	399	424	449	480	
<b>879FE</b>	<b>Each</b>	<b>45,90</b>	<b>102,00</b>	<b>114,00</b>	<b>134,00</b>	<b>147,00</b>	<b>162,00</b>	

**COMBINATION OPEN AND RATCHET-RING SPANNERS SETS**

**879FG**



**Orig. Gedore**

Made from CHROME-VANADIUM steel, forged, with a double T structure which provides greater resistance when rotating, and which has a hollow profile for improved ergonomics. Operational ratchet angle allows reduced tightening in confined spaces.

Heads are straight and thin with one fixed aperture, and one with polygonal ratchet. Ratchet side is opening by unscrewing 2 screws for easy inspection and cleaning. Accurate and precise craftsmanship. Chrome finish.

Packed in roll-up bag Art. 2076 GA.

Set of 5 wrenches Art. 879 FE size 8-10-13-17-19mm.

<b>879FG</b>	<b>Per set</b>	<b>123,60</b>
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**879FL**



Product description as Art. 879FG

Packed in roll-up bag Art. 2076 GB.

Set of 8 wrenches Art. 879 FW size 8-10-12-13-14-17-19-22mm.

<b>879FL</b>	<b>Per set</b>	<b>208,32</b>
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**COMBINATION OPEN AND RATCHET-RING SPANNERS**

**879G**



**Orig. Gedore - Art. 7R**

In CHROME VANADIUM steel. Straight and thin heads, with 1 open end and 1 bihexagonal ratchet head. Sturdy, handy and user-friendly. Finely worked. Chrome plated finish.

Mouths opening	mm	<b>12</b>	<b>16</b>	<b>18</b>	<b>27</b>	<b>30</b>	<b>32</b>
Overall length	mm	172	208	236	359	403	425
<b>879G</b>	<b>Each</b>	<b>16,50</b>	<b>20,30</b>	<b>22,70</b>	<b>80,30</b>	<b>89,40</b>	<b>105,00</b>

Product running out of stock.

**879GB**



**multiprofile**



**Prod. SCU**

In CHROME VANADIUM steel. Straight and thin heads, with 1 open end and 1 bihexagonal ratchet head with MULTIPLE PROFILE for tightening hexagonal head screws, hexagonal head screws with worn out/rounded head up to 50%, bihexagonal head screws, TORX, XZN-SPLINE, square head screws. Sturdy, handy and user-friendly. Finely worked. Chrome plated finish.

Mouths opening	mm	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>
Overall length	mm	140	150	160	165	172	177	191
<b>879GB</b>	<b>Each</b>	<b>24,10</b>	<b>24,10</b>	<b>26,20</b>	<b>28,70</b>	<b>30,40</b>	<b>32,60</b>	<b>33,90</b>
Mouths opening	mm	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>22</b>	<b>24</b>
Overall length	mm	200	208	225	236	248	290	295
<b>879GB</b>	<b>Each</b>	<b>36,80</b>	<b>39,70</b>	<b>41,30</b>	<b>45,90</b>	<b>47,20</b>	<b>60,70</b>	<b>65,30</b>

**Orig. Carolus - Art. 1710**

Made from CHROME-VANADIUM steel. Thin heads, with 1 open end and 1 bi-hex 72 tooth ratchet head, bent at 15°, with cursor for clockwise and counter clockwise operation. With retaining ring for easy use even with bolts fixed on long bars. Sturdy, easy to handle, practical. Finely worked. Chrome finish.

Mouths opening	mm	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>
Overall length	mm	134	158	158	164	167	177	189
<b>879GE</b>	<b>Each</b>	<b>14,50</b>	<b>16,10</b>	<b>16,50</b>	<b>18,20</b>	<b>19,10</b>	<b>19,60</b>	<b>21,10</b>
Mouths opening	mm	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>
Overall length	mm	198	204	224	245	245	280	280
<b>879GE</b>	<b>Each</b>	<b>23,60</b>	<b>24,60</b>	<b>25,90</b>	<b>29,10</b>	<b>30,50</b>	<b>40,20</b>	<b>41,30</b>
Mouths opening	mm	<b>22</b>	<b>24</b>	<b>27</b>	<b>30</b>	<b>32</b>	<b>34</b>	<b>36</b>
Overall length	mm	280	310	330	425	425	460	490
<b>879GE</b>	<b>Each</b>	<b>41,90</b>	<b>47,10</b>	<b>65,40</b>	<b>85,70</b>	<b>87,30</b>	<b>114,00</b>	<b>136,00</b>



**879GE**



**3**

**COMBINATION OPEN AND RATCHET-RING SPANNERS SETS**

**Orig. Carolus**

Made from CHROME-VANADIUM steel. Thin heads, with 1 open end and 1 bi-hex 72 tooth ratchet head, bent at 15°, with cursor for clockwise and counter clockwise operation. With retaining ring for easy use even with bolts fixed on long bars. Sturdy, easy to handle, practical. Finely worked. Chrome finish.

Packed in roll-up bag Art. 2076 GB.

Set of 8 wrenches Art. 879 GE size 8-10-12-13-14-15-17-19mm.

<b>879GEL</b>	<b>Per set</b>	<b>179,42</b>
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**879GEL**



Product description as Art. 879GEL

Packed in roll-up bag Art. 2076 GC.

Set of 12 wrenches Art. 879 GE size 8-9-10-11-12-13-14-15-16-17-18-19mm.

<b>879GEP</b>	<b>Per set</b>	<b>268,48</b>
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**879GEP**



**Orig. Carolus - Art. 1507.00**

Made from CHROME-VANADIUM steel. Thin heads, with 1 open end and 1 bi-hex 72 tooth ratchet head, bent at 15°, with cursor for clockwise and counter clockwise operation. With retaining ring for easy use even with bolts fixed on long bars. Sturdy, easy to handle, practical. Finely worked.

Chrome finish. Supplied in metal case.

Set of 7 wrenches Art. 879 GE. Dimensions: 8-10-12-13-15-17-19mm.

1 x magnetic 1/4" hex bit adapter Art. 947 GB to use in combination with wrench Art. 879 GE 8mm

1 x magnetic 5/16" hex bit adapter Art. 984 GFA to use in combination with wrench Art. 879 GE 13mm

1 x 1/4" square drive socket adapter Art. 947 GC to use in combination with wrench Art. 879 GE 10mm

1 x 3/8" square drive socket adapter Art. 956 RM to be used in combination with wrench Art. 879 GE 15mm

1 x 1/2" square drive socket adapter Art. 971 RL to be used in combination with wrench Art. 879 GE 19mm.

<b>879GF</b>	<b>Per set</b>	<b>251,00</b>
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**879GF**



**Orig. Carolus - Art. 1512.00**

Product description as Art. 879GF

Set of 12 wrenches Art. 879 GE. Dimensions: 8-9-10-11-12-13-14-15-16-17-18-19mm.

1 x magnetic 1/4" hex bit adapter Art. 947 GB to be used in combination with wrench Art. 879 GE 8mm

1 x magnetic 5/16" hex bit adapter Art. 984 GFA to be used in combination with wrench Art. 879 GE 13mm

1 x 1/4" square drive socket adapter Art. 947 GC to be used in combination with wrench Art. 879 GE 10mm

1 x 3/8" square drive socket adapter Art. 956 RM to be used in combination with wrench Art. 879 GE 15mm

1 x 1/2" square drive socket adapter Art. 971 RL to be used in combination with wrench Art. 879 GE 19mm.

<b>879GL</b>	<b>Per set</b>	<b>333,00</b>
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**879GL**



**COMBINATION OPEN AND RATCHET-RING SPANNERS**

879GM



**Orig. Gedore - Art. 7UR**

Made from CHROME-VANADIUM steel, forged, with a double T structure which provides greater resistance when rotating, and which has a hollow profile for improved ergonomics. Operational ratchet angle allows reduced tightening in confined spaces.

A straight, slender head, with a fixed aperture. A second one, at an incline of 13°, includes a polygonal ratchet for D+S movement. Ratchet side is opening by unscrewing 2 screws for easy inspection and cleaning. Accurate and precise craftsmanship. Chrome finish.

Mouths opening	mm	8	9	10	11	12	13	14	15
Overall length	mm	140	150	160	164	170	180	190	200
<b>879GM</b>	<b>Each</b>	<b>27,30</b>	<b>27,30</b>	<b>28,40</b>	<b>28,40</b>	<b>29,60</b>	<b>29,20</b>	<b>33,90</b>	<b>33,90</b>
Mouths opening	mm	16	17	18	19	21	22	24	
Overall length	mm	212	225	237	250	274	292	325	
<b>879GM</b>	<b>Each</b>	<b>40,20</b>	<b>40,20</b>	<b>43,40</b>	<b>43,40</b>	<b>63,80</b>	<b>63,80</b>	<b>75,40</b>	

**COMBINATION OPEN AND RATCHET-RING SPANNERS SETS**

879GP



**Orig. Gedore**

Made from CHROME-VANADIUM steel, forged, with a double T structure which provides greater resistance when rotating, and which has a hollow profile for improved ergonomics. Operational ratchet angle allows reduced tightening in confined spaces.

A straight, slender head, with a fixed aperture. A second one, at an incline of 13°, includes a polygonal ratchet for D+S movement. Ratchet side is opening by unscrewing 2 screws for easy inspection and cleaning. Accurate and precise craftsmanship. Chrome finish.

Packed in roll-up bag Art. 2076 GB.

Set of 8 wrenches Art. 879 GM size 8-10-12-13-14-15-17-19mm.

<b>879GP</b>	<b>Per set</b>	<b>274,52</b>
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879GR



Product description as Art. 879GP

Packed in roll-up bag Art. 2076 GC.

Set of 12 wrenches Art. 879 GM size 8-9-10-11-12-13-14-15-16-17-18-19mm.

<b>879GR</b>	<b>Per set</b>	<b>414,88</b>
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**COMBINATION OPEN AND RATCHET-RING SPANNERS**

879GS



**Orig. Gedore - Art. 7UR**

In CHROME VANADIUM steel. Thin heads, with 1 irregular-shaped open end allowing for an effective and quick clamping with ratchet effect. With 1 bihexagonal ratchet head, bent at 15°, with lever change for clockwise and counter clockwise operation. Sturdy, handy and user-friendly. Finely worked. Chrome plated finish.

Mouths opening	mm	8	9	12	16	18	19
Overall length	mm	140	150	170	210	235	250
<b>879GS</b>	<b>Each</b>	<b>21,40</b>	<b>21,40</b>	<b>23,20</b>	<b>32,10</b>	<b>34,40</b>	<b>34,40</b>

Product running out of stock.

**FLEXIBLE GEAR WRENCHES**

879GV



**Prod. SCU**

Model with swivel ratchet, bent up to 180°. In CHROME-VANADIUM steel. With 1 open end and 1 bihexagonal ratchet head. Fine toothed. Sturdy, handy and user-friendly. High quality. Finely worked. Chrome plated finish.

Mouths opening	mm	6	7	8	9	10	11	12
Overall length	mm	130	130	130	155	155	170	173
<b>879GV</b>	<b>Each</b>	<b>12,10</b>	<b>12,10</b>	<b>12,10</b>	<b>12,30</b>	<b>12,80</b>	<b>13,10</b>	<b>13,80</b>
Mouths opening	mm	13	14	15	16	17	18	19
Overall length	mm	185	194	215	210	230	248	248
<b>879GV</b>	<b>Each</b>	<b>14,20</b>	<b>14,70</b>	<b>15,40</b>	<b>16,70</b>	<b>17,30</b>	<b>18,10</b>	<b>18,60</b>
Mouths opening	mm	20	21	22	23	24	25	26
Overall length	mm	280	280	280	320	320	320	320
<b>879GV</b>	<b>Each</b>	<b>29,80</b>	<b>29,80</b>	<b>29,80</b>	<b>34,40</b>	<b>34,40</b>	<b>34,40</b>	<b>34,40</b>

**FLEXIBLE GEAR WRENCHES SETS**

**Prod. SCU**

Model with swivel ratchet, bent up to 180°. In CHROME-VANADIUM steel. With 1 open end and 1 bihexagonal ratchet head. Fine toothed. Sturdy, handy and user-friendly. High quality. Finely worked. Chrome plated finish.

Supplied in rolled tool bag Art. 2076 GA.

Set of 5 wrenches Art. 879 GV. Dimensions: 8-10-13-17-19mm.

**879GZA** Per set **82,90**

**SCU**

**879GZA**



**3**

Product description as Art. 879GZA

Supplied in rolled tool bag Art. 2076 GB.

Set of 8 wrenches Art. 879 GV. Dimensions: 8-10-12-13-14-15-17-19mm.

**879GZB** Per set **127,52**

**SCU**

**879GZB**



Product description as Art. 879GZA

Supplied in rolled tool bag Art. 2076 GC.

Set of 12 wrenches Art. 879 GV. Dimensions: 8-9-10-11-12-13-14-15-16-17-18-19mm.

**879GZC** Per set **188,78**

**SCU**

**879GZC**



**COMBINATION OPEN AND RATCHET-RING SPANNERS**

**Prod. SCU**

Long model with fixed head with its opening folded at 90° proportional to the polygonal head ratchet. Made from CHROME-VANADIUM steel. Fine toothing. Robust, easy to manage, this special shape allows a higher powered transmission with less effort than a traditional type of key. Finely worked. Chrome finish.

Mouths opening	mm	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>
Overall length	mm	150	165	180	195	205	220	235
<b>880</b>	Each	<b>27,10</b>	<b>27,80</b>	<b>28,80</b>	<b>29,70</b>	<b>30,70</b>	<b>32,10</b>	<b>32,90</b>

Mouths opening	mm	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>
Overall length	mm	250	260	275	290	305
<b>880</b>	Each	<b>34,40</b>	<b>36,30</b>	<b>38,60</b>	<b>40,40</b>	<b>42,70</b>

Product running out of stock.

**SCU**

**880**



**COMBINATION OPEN AND RATCHET-RING SPANNERS IN SETS**

**Prod. SCU**

Long model with fixed head with its opening folded at 90° proportional to the polygonal head ratchet. Made from CHROME-VANADIUM steel. Fine toothing. Robust, easy to manage, this special shape allows a higher powered transmission with less effort than a traditional type of key. Finely worked. Chrome finish.

Packed in box.

Set of 12 wrenches Art. 880 8-9-10-11-12-13-14-15-16-17-18-19.

**880A** Per set **314,00**

Product running out of stock.

**SCU**

**880A**



**BIHEXAGON RING SPANNERS**

**880G  
880GP**



**Orig. Gedore - Art. 2**

According to DIN 838-ISO 3318 - ISO 1085.  
In CHROME VANADIUM steel. Double open ended, bihexagonal.  
Special head profile also suited for box nut.  
Very long type for stress reduction and easy performance.  
Finely worked. Chrome plated finish.

Opening	mm	5,5x7	6x7	8x9	8x10	9x11	10x11	10x12	10x13	11x13	11x14	12x13	13x14
Overall length	mm	170	170	182	182	195	195	195	212	212	212	212	225
<b>880G</b>	<b>Each</b>	<b>15,20</b>	<b>12,60</b>	<b>12,80</b>	<b>14,80</b>	<b>16,60</b>	<b>14,10</b>	<b>16,50</b>	<b>17,10</b>	<b>17,80</b>	<b>18,10</b>	<b>14,80</b>	<b>17,30</b>
Opening	mm	13x15	13x17	14x15	14x17	16x17	16x18	17x19	18x19	19x22	19x24	20x22	21x23
Overall length	mm	225	245	225	245	245	265	265	265	287	305	287	305
<b>880G</b>	<b>Each</b>	<b>17,60</b>	<b>19,60</b>	<b>16,10</b>	<b>19,60</b>	<b>18,10</b>	<b>22,10</b>	<b>21,10</b>	<b>19,90</b>	<b>26,40</b>	<b>30,70</b>	<b>23,30</b>	<b>28,10</b>
Opening	mm	21x24	22x24	22x27	24x26	24x27	24x30	25x28	27x29	27x30	27x32	30x32	30x34
Overall length	mm	307	307	325	325	325	345	345	345	345	370	370	375
<b>880G</b>	<b>Each</b>	<b>31,50</b>	<b>30,70</b>	<b>35,80</b>	<b>33,30</b>	<b>31,50</b>	<b>35,40</b>	<b>34,80</b>	<b>45,10</b>	<b>41,20</b>	<b>40,00</b>	<b>40,00</b>	<b>45,60</b>
Opening	mm	30x36	32x36	34x36	36x41	38x42	41x46	46x50	55x60	65x70	75x80	85x90	
Overall length	mm	400	400	420	440	440	485	535	610	685	790	800	
<b>880G</b>	<b>Each</b>	<b>73,80</b>	<b>70,70</b>	<b>82,10</b>	<b>93,30</b>	<b>101,00</b>	<b>117,00</b>	<b>148,00</b>	<b>236,00</b>	<b>465,00</b>	<b>775,00</b>	<b>983,00</b>	

Size mm 11x14 running out of stock.

Product description as Art. 880G

MODEL WITH OPENINGS IN US INCH SIZES

Opening	inches	1/4x5/16	5/16x3/8	3/8x7/16	7/16x1/2	1/2x9/16	9/16x5/8	19/32x11/16	5/8x11/16	3/4x25/32
Opening	mm	6,35x7,94	7,94x9,52	9,52x11,11	11,11x12,70	12,70x14,29	14,29x15,87	15,08x26,99	15,87x17,46	19,05x19,84
Overall length	mm	170	180	195	212	225	225	245	245	265
<b>880GP</b>	<b>Each</b>	<b>14,50</b>	<b>15,20</b>	<b>17,20</b>	<b>19,20</b>	<b>19,20</b>	<b>19,20</b>	<b>20,40</b>	<b>21,20</b>	<b>23,50</b>
Opening	inches	3/4x7/8	25/32x13/16	13/16x7/8	15/16x1	1x1.1/8	1.1/16x1.1/4	1.1/8x1.5/16		
Opening	mm	19,05x22,23	19,84x20,64	20,64x22,23	23,81x25,40	25,40x28,58	26,99x31,75	28,58x33,34		
Overall length	mm	285	285	285	325	345	370	370		
<b>880GP</b>	<b>Each</b>	<b>28,60</b>	<b>31,60</b>	<b>28,60</b>	<b>36,30</b>	<b>38,30</b>	<b>43,50</b>	<b>44,80</b>		

Size inches 1x1.1/8 running out of stock.

**880GR**



**Orig. Carolus - Art. 01**

Compliant with DIN 838/ISO 3318 - ISO 1085.  
Made from CHROME-VANADIUM steel. With two bi-hex ends. Chrome finish.

Opening	mm	6x7	8x9	10x11	10x13	12x13	13x15	13x17
Overall length	mm	170	182	185	212	212	225	246
<b>880GR</b>	<b>Each</b>	<b>6,10</b>	<b>6,10</b>	<b>6,40</b>	<b>7,16</b>	<b>7,16</b>	<b>8,14</b>	<b>8,98</b>
Opening	mm	14x15	16x17	17x19	18x19	19x22	20x22	21x23
Overall length	mm	225	245	265	265	287	287	305
<b>880GR</b>	<b>Each</b>	<b>7,46</b>	<b>8,76</b>	<b>9,76</b>	<b>9,36</b>	<b>11,70</b>	<b>11,60</b>	<b>13,80</b>
Opening	mm	22x24	24x26	24x27	25x28	27x32	30x32	36x41
Overall length	mm	307	325	325	345	370	370	440
<b>880GR</b>	<b>Each</b>	<b>13,80</b>	<b>16,20</b>	<b>16,20</b>	<b>16,60</b>	<b>20,10</b>	<b>20,10</b>	<b>33,20</b>

**BIHEXAGON RING SPANNERS SETS**

**881G 8  
881G 10  
881G 12  
881GP 8  
881GP 10**



**Orig. Gedore - Art. 2**

According to DIN 838-ISO 3318 - ISO 1085.  
In CHROME VANADIUM steel. Double ended, bihexagonal.  
Special head profile also suited for box nuts.  
Very long type for stress reduction and easy performance.  
Finely worked. Chrome plated finish. Supplied in cardboard packaging.  
Set of 8 wrenches Art. 880 G. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22mm

**881G 8** Per set **127,00**

Product description as Art. 881G 8

Set of 10 wrenches Art. 880 G

Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-24x27-30x32mm

**881G 10** Per set **203,00**

Product description as Art. 881G 8

Set of 12 wrenches Art. 880 G.

Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-21x23-24x27-25x28-30x32mm

**881G 12** Per set **265,00**

Product description as Art. 881G 8

SET OF BIHEXAGONAL RING WRENCHES WITH OPENINGS IN US INCH SIZES

Set of 8 wrenches Art. 880 GP.

Inch sizes: 1/4x5/16-5/16x3/8-7/16x1/2-9/16x5/8-19/32x11/16-3/4x25/32-13/16x7/8-15/16x1

**881GP 8** Per set **176,00**

Product description as Art. 881G 8

SET OF BIHEXAGONAL RING WRENCHES WITH OPENINGS IN US INCH SIZES

Set of 10 wrenches 880 GP. Inch sizes: 1/4x5/16-5/16x3/8-7/16x1/2-9/16x5/8-19/32x11/16-3/4x25/32-13/16x7/8-15/16x1-1.1/16x1.1/4-1.1/8x1.5/16

**881GP 10** Per set **265,00**

**Orig. Carolus - Art. 0100**

Compliant with DIN 838/ISO 3318 - ISO 1085.  
 Made from CHROME-VANADIUM steel.  
 With two bi-hex ends. Chrome finish. Supplied in cardboard box.  
 Set of 8 wrenches Art. 880 GR.  
 Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22mm

**882GB** Per set **60,30**

Product description as Art. 882GB

Set of 10 wrenches Art. 880 GR.

Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-24x27-30x32mm

**882GC** Per set **95,10**

Product description as Art. 882GB

Set of 12 wrenches Art. 880 GR.

Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-21x23-24x27-25x28-30x32mm

**882GD** Per set **118,00**



**882GB**  
**882GC**  
**882GD**



**3**

**BIHEXAGON RING SPANNERS**

**Prod. SCU**

Standard model. According to DIN 838. In CHROME VANADIUM steel. Double ended, bihexagonal. Chrome plated finish.

Opening	mm	<b>6x7</b>	<b>8x9</b>	<b>10x11</b>	<b>12x13</b>	<b>14x15</b>	<b>16x17</b>	<b>18x19</b>
Overall length	mm	170	180	195	210	225	245	265
<b>882M</b>	<b>Each</b>	<b>2,38</b>	<b>2,88</b>	<b>3,18</b>	<b>3,68</b>	<b>4,06</b>	<b>4,56</b>	<b>6,00</b>

Opening	mm	<b>20x22</b>	<b>21x23</b>	<b>24x27</b>	<b>25x28</b>	<b>30x32</b>
Overall length	mm	285	305	325	345	370
<b>882M</b>	<b>Each</b>	<b>7,74</b>	<b>8,74</b>	<b>11,10</b>	<b>12,60</b>	<b>15,50</b>



**882M**



**BIHEXAGON RING SPANNERS SETS**

**Prod. SCU**

Standard model. According to DIN 838. In CHROME VANADIUM steel. Double ended, bihexagonal. Chrome plated finish.

Supplied in cardboard packaging.

Set of 8 wrenches Art. 882 M. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22mm.

**882P** Per set **34,50**

Product description as Art. 882P

Set of 12 wrenches Art. 882 M. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-21x23-24x27-25x28-30x32mm.

**882R** Per set **82,20**



**882P**  
**882R**



**HALF MOON RING SPANNERS**

**Orig. Gedore - Art. 304**

In forged CHROME VANADIUM steel.  
 Thin double ended, polygonal. Chrome plated finish.

Opening	mm	<b>11x13</b>	<b>13x17</b>	<b>14x16</b>	<b>14x17</b>	<b>15x17</b>	<b>16x18</b>	<b>19x22</b>
Overall length	mm	150	185	185	185	185	185	230
Mouths thickness	mm	7x7,5	8,5x8,5	8,7x8,5	8,5x8,5	8,7x8,5	8,5x8,5	10x10,5
<b>882S</b>	<b>Each</b>	<b>25,50</b>	<b>32,20</b>	<b>32,20</b>	<b>32,20</b>	<b>32,20</b>	<b>38,80</b>	<b>40,50</b>



**882S**



**FLARE NUT SPANNERS**

**Orig. Gedore - Art. 400**

According to DIN 3118. In CHROME-VANADIUM steel.  
 Double headed, angled at 15°. Suitable to tighten nuts incorporated in pipes.  
 Finely worked. Chrome-plated finish.

Opening	mm	<b>8x10</b>	<b>9x11</b>	<b>10x11</b>	<b>10x12</b>	<b>11x13</b>
Overall length	mm	140	145	150	150	160
Mouths thickness	mm	6,5x8	7,5x8,5	8x8,5	8x8,5	8,5x10,5
Mouths type		HEXAG.	HEXAG.	HEXAG.	HEXAG.	HEXAG.
Pipe passage	mm	6x7	6,5x8,5	7x8,5	7x9	8,5x10
Mouths angulation opening		30°	30°	30°	30°	30°
<b>883G</b>	<b>Each</b>	<b>21,50</b>	<b>23,60</b>	<b>23,20</b>	<b>23,60</b>	<b>23,60</b>



**883G**



Opening	mm	<b>12x14</b>	<b>13x15</b>	<b>14x17</b>	<b>17x19</b>	<b>19x22</b>
Overall length	mm	170	180	195	210	230
Mouths thickness	mm	9,5x11,2	10,5x11,8	11,5x12,2	12,2x13,2	13,2x15,2
Mouths type		HEXAG.	POLIG.	POLIG.	POLIG.	POLIG.
Pipe passage	mm	9x11,2	10x12	11x14	14x15	15x17
Mouths angulation opening		30°	15°	15°	15°	15°
<b>883G</b>	<b>Each</b>	<b>24,10</b>	<b>26,30</b>	<b>26,30</b>	<b>29,50</b>	<b>35,50</b>

Opening	mm	<b>22x24</b>	<b>24x27</b>	<b>30x32</b>	<b>36x41</b>
Overall length	mm	250	270	300	351
Mouths thickness	mm	15,2x16,2	16,2x17,2	20,2x22,2	25,2x28,2
Mouths type		POLIG.	POLIG.	POLIG.	POLIG.
Pipe passage	mm	17x18	18x20	22x24	25x32
Mouths angulation opening		15°	15°	15°	15°
<b>883G</b>	<b>Each</b>	<b>39,90</b>	<b>48,80</b>	<b>63,90</b>	<b>74,10</b>

Prices in EURO - VAT not included

**883GP**



Product description as Art. 883G  
MODEL WITH OPENINGS IN US INCH SIZES

Opening	inches	5/16x3/8	3/8x7/16	7/16x1/2	1/2x9/16	9/16x5/8
Overall length	mm	140	150	160	170	195
Mouths thickness	mm	6,5x8	8x8,5	8,5x10,5	9,5x11,2	11,2x12,2
Mouths type		HEXAG.	HEXAG.	HEXAG.	HEXAG.	POLIG.
Pipe passage	mm	6x7	7x8,5	8,5x10	10x11	11x13
Mouths angulation opening		30°	30°	30°	30°	15°
<b>883GP</b>	<b>Each</b>	<b>23,60</b>	<b>25,50</b>	<b>26,40</b>	<b>26,90</b>	<b>29,70</b>
Opening	inches	5/8x3/4	3/4x7/8	7/8x1		
Overall length	mm	210	230	250		
Mouths thickness	mm	12,2x13,2	13,2x15,2	15,2x16,2		
Mouths type		POLIG.	POLIG.	POLIG.		
Pipe passage	mm	13x15	15x17	17x19		
Mouths angulation opening		15°	15°	15°		
<b>883GP</b>	<b>Each</b>	<b>33,10</b>	<b>37,70</b>	<b>43,90</b>		

**RATCHET RING WRENCHES**

**883GS**  
**883GT**



**Prod. SCU**  
Body in sheet steel and forged head.  
Suitable to tighten Suitable to tighten nuts incorporated in pipes.

Opening	mm	7	8	9	10	11	12	13
Head thickness	mm	7,2	7,2	7,2	7,2	7,2	7,2	7,2
Overall length	mm	138	138	138	138	138	138	138
<b>883GS</b>	<b>Each</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>44,10</b>	<b>44,10</b>	<b>44,10</b>	<b>44,10</b>
Opening	mm	14	16	17	19	21	22	24
Head thickness	mm	7,2	9,7	9,7	9,7	12,9	12,9	12,9
Overall length	mm	138	184	184	184	236	236	236
<b>883GS</b>	<b>Each</b>	<b>47,50</b>	<b>48,90</b>	<b>48,90</b>	<b>48,90</b>	<b>63,40</b>	<b>63,40</b>	<b>63,40</b>
Opening	mm	27	30	32				
Head thickness	mm	12,9	12,9	12,9				
Overall length	mm	236	236	236				
<b>883GS</b>	<b>Each</b>	<b>121,00</b>	<b>121,00</b>	<b>147,00</b>				

Product description as Art. 883GS  
MODEL WITH OPENINGS IN US INCH SIZES

Opening	inches	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16	1
Head thickness	mm	7,2	7,2	7,2	7,2	7,2	9,7	9,7	9,7	12,9	12,9	12,9	12,9
Overall length	mm	138	138	138	138	138	184	184	184	236	236	236	236
<b>883GT</b>	<b>Each</b>	<b>33,10</b>	<b>33,10</b>	<b>33,10</b>	<b>33,10</b>	<b>40,40</b>	<b>40,40</b>	<b>40,40</b>	<b>40,40</b>	<b>49,40</b>	<b>49,40</b>	<b>49,40</b>	<b>49,80</b>

**DOUBLE OPEN ENDED SPANNERS**

**884G**



**Orig. Gedore - Art. 4**  
According to DIN 837/ISO 3318-ISO 1085. In CHROME VANADIUM steel.  
Straight double ended bihexagonal ring. Finely worked. Chrome plated finish.

Opening	mm	6x7	8x9	8x10	10x11	10x13	12x13	13x15
Overall length	mm	99	114	115	131	149	149	161
<b>884G</b>	<b>Each</b>	<b>15,40</b>	<b>15,90</b>	<b>14,70</b>	<b>15,10</b>	<b>16,70</b>	<b>17,30</b>	<b>18,70</b>
Opening	mm	13x17	14x15	16x17	17x19	18x19	19x22	20x22
Overall length	mm	167	161	169	186	186	209	209
<b>884G</b>	<b>Each</b>	<b>19,10</b>	<b>18,30</b>	<b>19,10</b>	<b>19,30</b>	<b>19,30</b>	<b>21,20</b>	<b>22,30</b>
Opening	mm	21x23	22x24	24x26	24x27	25x28	30x32	32x36
Overall length	mm	233	233	261	260	289	320	357
<b>884G</b>	<b>Each</b>	<b>23,40</b>	<b>24,90</b>	<b>27,30</b>	<b>26,80</b>	<b>30,10</b>	<b>36,50</b>	<b>55,10</b>
Opening	mm	36x41	41x46	46x50				
Overall length	mm	391	431	473				
<b>884G</b>	<b>Each</b>	<b>66,80</b>	<b>94,40</b>	<b>118,00</b>				

**TORX RING SPANNERS**

**884GT**



**Orig. Gedore - Art. TX 4**  
In CHROME-VANADIUM steel.  
Double ended, TORX bihexagonal, straight. Chrome-plated finish.

TORX size	E	6x8	10x12	14x18	20x24
Screw thread Ø	M.	5/4-6/7	8/5-10/8	12/10-14/12	16/18-20
Max impression opening (mm)	mm	5,74/7,52	9,42/11,17	12,90/16,70	18,45/22,16
Overall length	mm	110	140	180	225
<b>884GT</b>	<b>Each</b>	<b>20,40</b>	<b>21,20</b>	<b>25,10</b>	<b>33,90</b>



**DOUBLE ENDED OPEN JAW SPANNERS SETS**

**Orig. Gedore - Art. 4**

According to DIN 837/ISO 3318-ISO 1085. In CHROME VANADIUM steel. Straight double ended bihexagonal ring. Finely worked. Chrome plated finish. Supplied in cardboard packaging.

Set of 8 wrenches Art. 884 G. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22mm.

**885G 8** Per set **144,00**

Product description as Art. 885G 8

Set of 12 wrenches Art. 884 G. Dimensions: 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-21x23-24x27-25x28-30x32mm

**885G 12** Per set **263,00**



**885G 8**  
**885G 12**



**3**

**RATCHET BIHEXAGON RING SPANNERS**

**Prod. SCU**

In CHROME-VANADIUM steel, forged. Double ended, bi-hexagonal, straight. Finely worked. Chrome plated finish. Ratchet head movement.

Opening	mm	<b>8x9</b>	<b>10x11</b>	<b>12x13</b>	<b>14x15</b>	<b>16x18</b>	<b>17x19</b>
Overall length	mm	129	150	168	180	208	230
<b>885GE</b>	<b>Each</b>	<b>11,40</b>	<b>12,70</b>	<b>13,90</b>	<b>15,90</b>	<b>17,60</b>	<b>18,80</b>



**885GE**



**Orig. Gedore - Art. 4 R**

Made from CHROME-VANADIUM steel, forged, with a double T structure which provides greater resistance when rotating, and which has a hollow profile for improved ergonomics. Operational ratchet angle allows reduced tightening in confined spaces.

With two polygonal straight, thin mouths. Finely worked. Chrome finish.

Opening	mm	<b>8x9</b>	<b>8x10</b>	<b>10x11</b>	<b>10x13</b>	<b>12x13</b>	<b>14x15</b>	<b>16x17</b>
Overall length	mm	134	144	153	165	174	197	222
<b>885GEL</b>	<b>Each</b>	<b>37,60</b>	<b>38,80</b>	<b>40,20</b>	<b>41,30</b>	<b>41,80</b>	<b>45,30</b>	<b>48,20</b>



**885GEL**



**RATCHET TORX RING SPANNERS**

**Prod. SCU**

In CHROME-VANADIUM steel, forged. Double ended, bi-hexagonal, straight. Finely worked. Chrome plated finish. Ratchet head movement.

TORX size	E	<b>6x8</b>	<b>10x12</b>	<b>14x18</b>	<b>20x24</b>
Max impression opening (mm)	mm	5,74/7,52	9,42/11,17	12,90/16,70	18,45/22,16
Overall length	mm	120	137	180	230
<b>885GF</b>	<b>Each</b>	<b>13,10</b>	<b>13,60</b>	<b>16,40</b>	<b>19,50</b>



**885GF**



**RATCHET TORX RING SPANNERS SETS**

**Prod. SCU**

In CHROME-VANADIUM steel, forged. Double ended, bi-hexagonal, straight. Finely worked. Chrome plated finish. Ratchet head movement.

Set of 4 wrenches Art. 885 GF 6x8 - 10x12 - 14x18 - 20x24. In rolling tool bag Art. 2076 GA.

**885GL** Per set **70,50**



**885GL**



**RATCHET BIHEXAGON RING SPANNERS**

**Orig. Carolus - Art. 1740.00**

Dual compass model available in different sizes on both sides. Made from CHROME-VANADIUM steel. With polygonal, straight mouths. Complete with ratchet slider which enables D+S movement. Finely worked. Chrome finish.

Mouth aperture 10-13-17-19mm. Total length 225mm.

**885GLP** Each **44,60**



**885GLP**



**885GM** SCU



**Prod. SCU**

Dual compass model available in different sizes on both sides. Made from CHROME-VANADIUM steel. With polygonal, straight mouths. Ratchet lever for D+S movement. Finely worked. Chrome finish.

Size	mm	1	2	3	4
Opening	mm	8x10 - 12x13	9x11 - 14x15	16x17 - 18x19	20x21 - 22x24
Overall length	mm	160	180	230	290
<b>885GM</b>	Each	<b>52,30</b>	<b>51,10</b>	<b>62,70</b>	<b>78,10</b>

**RATCHET BIHEXAGON RING SPANNERS SETS**

**885GMA** SCU



**Prod. SCU**

Dual compass model available in different sizes on both sides. Made from CHROME-VANADIUM steel. With polygonal, straight mouths. Ratchet lever for D+S movement. Finely worked. Chrome finish.

Set of 4 wrenches Art. 885 GM 1-2-3-4.  
Packed in box.

<b>885GMA</b>	Per set	<b>224,00</b>
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**RATCHET RING SPANNERS WITH INTERCHANGEABLE INSERTS**

**885GP** carolus



**Orig. Carolus - Art. 1520.00**

Made from CHROME-VANADIUM steel. Double-ended, bi-hex (14 and 19mm) and interchangeable end fittings (mm and TORX). Finely worked. Chrome finish. Ratchet mechanism. Ergonomic wrench supplied with 9 end fittings (8 - 9 - 10 - 11 - 12 - 13 - 15 - 16 - 17mm) and 9 TORX bi-hex end fittings (E 8 - 10 - 11 - 12 - 14 - 16 - 18 - 20 - 22), interchangeable. In an elegant and practical metal case.

<b>885GP</b>	Each	<b>110,00</b>
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Particularly suitable for locking and unlocking nuts at the ends of prisoners, on threaded rods of whatever length or located at depth.

Product running out of stock.

**OPEN ENDED-SWIVEL SOCKET WRENCH**

**886G** GEDORE



**Orig. Gedore - Art. 534**

In CHROME-VANADIUM steel.  
Open ended-bihexagonal swivel socket.  
Finely worked. Chrome-plated finish.

With hole on the open-endedn head for use with bars Art. 902 G.

Opening	mm	10	11	12	13	14	15	16
Overall length	mm	179	189	198	208	218	231	244
Bore Ø for levers	mm	5	5	5	5	6	6	6
<b>886G</b>	Each	<b>24,90</b>	<b>25,50</b>	<b>27,70</b>	<b>27,70</b>	<b>28,90</b>	<b>30,10</b>	<b>33,10</b>

Opening	mm	17	18	19
Overall length	mm	255	269	283
Bore Ø for levers	mm	8	8	8
<b>886G</b>	Each	<b>33,10</b>	<b>36,90</b>	<b>36,90</b>

**DOUBLE END SWIVEL WRENCH**

**887GA** GEDORE



**Orig. Gedore - Art. 34**

In CHROME-VANADIUM steel.  
Double end swivel socket, bihexagonal, with hole for use with a bar.  
Finely worked. Chrome-plated finish.  
For bars see Art. 902 G.

Opening	mm	8x9	10x11	12x13	13x15	14x15	13x17	14x17
Overall length	mm	200	205	240	245	245	275	280
Bore Ø for levers	mm	6	6	8	8	8	10	10
<b>887GA</b>	Each	<b>49,10</b>	<b>49,30</b>	<b>52,90</b>	<b>56,40</b>	<b>56,40</b>	<b>61,20</b>	<b>61,20</b>

Opening	mm	16x17	17x19	18x19	20x22	21x23	24x27	30x32
Overall length	mm	280	315	315	350	350	410	470
Bore Ø for levers	mm	10	12	12	12	12	14	14
<b>887GA</b>	Each	<b>67,30</b>	<b>70,50</b>	<b>70,50</b>	<b>80,40</b>	<b>81,80</b>	<b>101,00</b>	<b>151,00</b>

**887GB** GEDORE



Product description as Art. 887GA

**MODEL WITH OPENINGS IN US INCH SIZES**

Opening	inches	3/8x7/16	1/2x9/16	19/32x11/16	5/8x3/4	13/16x7/8	15/16x1
Overall length	mm	205	245	280	315	350	410
Bore Ø for levers	mm	6	8	10	12	12	14
<b>887GB</b>	Each	<b>50,20</b>	<b>58,80</b>	<b>74,10</b>	<b>76,50</b>	<b>86,70</b>	<b>111,00</b>

Prices in EURO - VAT not included

**TORX SWIVEL WRENCHES**

**Orig. Gedore - Art. TX 34**

In CHROME-VANADIUM steel.  
Double ended, TORX swivel sockets, with holes for use with a bar.  
Chrome-plated finish. Polished heads. For bars see Art. 902 G.

TORX size	E	<b>6x8</b>	<b>10x12</b>	<b>14x18</b>	<b>20x24</b>
Screw thread Ø	M.	5/4-6/5	8/6-10/8	12/10-14/12	16/18-20
Max impression opening (mm)	mm	5,6/7,4	9,3/11,1	12,8/16,6	18,4/22,1
Overall length	mm	190	230	265	295
<b>887GT</b>	Each	<b>49,40</b>	<b>63,30</b>	<b>68,20</b>	<b>80,50</b>



**887GT**



**3**

**RATCHETING WRENCHES**

**Prod. SCU**

In sturdy sheet steel, reinforced. Clockwise and counter-clockwise operation. Double ended, bihexagonal. Ratchet mechanism.  
Chrome-plated finish.

Model with straight heads.

Opening	mm	<b>7x8</b>	<b>9x10</b>	<b>11x12</b>	<b>13x14</b>	<b>15x17</b>	<b>16x18</b>	<b>19x21</b>
Mouths type		hexag.	polig.	polig.	polig.	polig.	polig.	polig.
<b>888GT</b>	Each	<b>10,60</b>	<b>11,50</b>	<b>15,70</b>	<b>16,80</b>	<b>19,20</b>	<b>19,60</b>	<b>21,60</b>



**888GT**



Product description as Art. 888GT

Model with flexible heads.

Opening	mm	<b>7x8</b>	<b>9x10</b>	<b>11x12</b>	<b>13x14</b>	<b>15x17</b>	<b>16x18</b>	<b>19x21</b>
Mouths type		hexag.	polig.	polig.	polig.	polig.	polig.	polig.
<b>889G</b>	Each	<b>10,80</b>	<b>11,80</b>	<b>16,10</b>	<b>17,10</b>	<b>19,80</b>	<b>20,10</b>	<b>22,10</b>



**889G**



**Orig. Gedore - Art. 14R**

In sturdy sheet steel, reinforced. Clockwise and counter-clockwise operation. Double ended, bihexagonal. Fine ratchet mechanism. Finely worked. Chrome-plated finish.

Model with straight heads.

Opening	mm	<b>8x9</b>	<b>12x13</b>	<b>14x15</b>	<b>16x18</b>
<b>889GR</b>	Each	<b>11,80</b>	<b>12,30</b>	<b>13,10</b>	<b>13,10</b>



**889GR**



Product running out of stock.

**RATCHETING WRENCHES SETS**

**Prod. SCU**

In sturdy sheet steel, reinforced. Clockwise and counter-clockwise operation. Double ended, bihexagonal. Ratchet mechanism.  
Chrome-plated finish.

Model with straight head.

Set of 5 wrenches Art. 888 GT 7x8 - 9x10 - 11x12 - 13x14 - 15x17mm.

In rolling tool bag Art. 2076 GA.

<b>889L</b>	Per set	<b>81,70</b>
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**889L**



Product description as Art. 889L

Model with flexible head.

Set of 5 wrenches Art. 889 G 7x8 - 9x10 - 11x12 - 13x14 - 15x17mm.

In rolling tool bag Art. 2076 GA.

<b>889P</b>	Per set	<b>83,50</b>
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**889P**



**FRICTION TYPE RATCHES**

**890GA**



**Orig. Gedore - Art. 31 KR**

In chrome-vanadium STEEL. Clockwise and counter-clockwise operation. Friction ratchet handle. Interchangeable bi-hexagon inserts. Burnished finish. Complete wrench.

Opening	mm	8	9*	10	11*	12*	13	14*	15	17	18*	19	21	22	23*	24	26	27
Overall length	mm	150	150	150	150	150	150	205	205	205	255	255	255	255	255	305	305	305
Weight	grams	90	90	90	90	90	90	220	220	220	370	370	370	370	370	480	480	480
<b>890GA</b>	<b>Each</b>	<b>61,10</b>	<b>70,10</b>	<b>61,10</b>	<b>71,50</b>	<b>63,10</b>	<b>61,10</b>	<b>82,50</b>	<b>89,70</b>	<b>82,80</b>	<b>99,20</b>	<b>83,20</b>	<b>85,10</b>	<b>83,20</b>	<b>95,30</b>	<b>105,00</b>	<b>107,00</b>	<b>107,00</b>
Opening	mm	28	30	32	34*	36	41	46	50	55	60	65	70	75	80	85	90	
Overall length	mm	305	400	400	500	500	500	635	635	760	760	940	940	960	960	1150	1150	
Weight	grams	480	720	720	1200	1250	1250	2500	2500	3050	3050	5000	5000	5900	5900	10100	10100	
<b>890GA</b>	<b>Each</b>	<b>109,00</b>	<b>145,00</b>	<b>145,00</b>	<b>206,00</b>	<b>191,00</b>	<b>191,00</b>	<b>275,00</b>	<b>275,00</b>	<b>387,00</b>	<b>387,00</b>	<b>599,00</b>	<b>599,00</b>	<b>723,00</b>	<b>723,00</b>	<b>1.340,00</b>	<b>1.340,00</b>	

Up to Art. 890 GA from 60 mm with bi-hexagon "UNIT DRIVE" head.  
Up to Art. 890 GA from 60 mm flat body, from 65 mm round pipe body grip.  
\* Sizes running out of stock.

**890GB**



**Orig. Gedore - Art. 31 R**

Spare inserts for Art. 890 GA.

Opening	mm	8	9*	10	11*	12*	13	14*
<b>890GB</b>	<b>Each</b>	<b>13,30</b>	<b>23,50</b>	<b>13,30</b>	<b>24,90</b>	<b>16,50</b>	<b>13,30</b>	<b>17,40</b>
Opening	mm	15	16*	17	18*	19	21	22
<b>890GB</b>	<b>Each</b>	<b>22,50</b>	<b>23,80</b>	<b>15,50</b>	<b>36,20</b>	<b>17,50</b>	<b>19,30</b>	<b>17,50</b>
Opening	mm	23*	24	26	27	28	30	32
<b>890GB</b>	<b>Each</b>	<b>31,30</b>	<b>24,10</b>	<b>25,80</b>	<b>26,50</b>	<b>28,10</b>	<b>30,80</b>	<b>30,80</b>
Opening	mm	34*	36	41	46	50	55	60
<b>890GB</b>	<b>Each</b>	<b>54,80</b>	<b>35,10</b>	<b>35,10</b>	<b>63,60</b>	<b>63,60</b>	<b>93,30</b>	<b>93,30</b>
Opening	mm	65	70	75	80	85	90	
<b>890GB</b>	<b>Each</b>	<b>149,00</b>	<b>149,00</b>	<b>161,00</b>	<b>161,00</b>	<b>413,00</b>	<b>413,00</b>	

Up to Art. 890 GB from 60mm with bi-hexagon head "UNIT DRIVE"  
\* Sizes running out of stock.

**891GA**



**Orig. Gedore - Art. 31 KVR**

In chrome-vanadium STEEL. Clockwise and counter-clockwise operation. Friction ratchet handle. Interchangeable square inserts. Burnished finish. Complete wrench.

Opening	mm	8	9	10	12	14	17	19
Overall length	mm	150	150	150	205	205	255	255
Weight	grams	90	90	90	220	220	370	370
<b>891GA</b>	<b>Each</b>	<b>66,40</b>	<b>66,40</b>	<b>61,70</b>	<b>83,20</b>	<b>83,20</b>	<b>84,10</b>	<b>83,20</b>

**891GB**



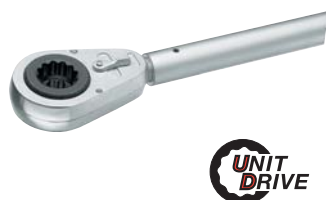
**Orig. Gedore - Art. 31 VR**

Spare inserts for Art. 891GA.

Opening	mm	8	9	10	12	14	17	19
<b>891GB</b>	<b>Each</b>	<b>18,50</b>	<b>18,50</b>	<b>13,90</b>	<b>16,10</b>	<b>16,10</b>	<b>18,20</b>	<b>17,50</b>

**RATCHETING WRENCHES**

**892GA**



**Orig. Gedore**

In CHROME-VANADIUM steel. Clockwise and counter-clockwise operation through reverse lever. Chrome-plated finish. With bi-hexagon inserts.

Opening	mm	22	24	27	28	30	32	36
Overall length	mm	620	620	620	620	620	620	910
Head thickness	mm	27,9	27,9	27,9	27,9	27,9	27,9	43
Weight	grams	2600	2600	2600	3300	2600	2600	5000
Supplier code		41	41	41	41	41	41	41B
<b>892GA</b>	<b>Each</b>	<b>313,00</b>	<b>313,00</b>	<b>313,00</b>	<b>313,00</b>	<b>313,00</b>	<b>313,00</b>	<b>402,00</b>
Opening	mm	41	46					
Overall length	mm	910	910					
Head thickness	mm	43	43					
Weight	grams	5000	5000					
Supplier code		41B	41B					
<b>892GA</b>	<b>Each</b>	<b>413,00</b>	<b>405,00</b>					

Prices in EURO - VAT not included

Product description as Art. 892GA

With square inserts.

Opening	mm	19	22	24	27	30	32	36
Overall length	mm	620	620	620	620	910	910	910
Head thickness	mm	27,9	27,9	27,9	27,9	43	43	43
Weight	grams	2600	2600	2600	2600	5000	5000	5000
Supplier code		41 V	41 V	41 V	41 V	41 BV	41 BV	41 BV
<b>892GB</b>	<b>Each</b>	<b>313,00</b>	<b>313,00</b>	<b>313,00</b>	<b>313,00</b>	<b>405,00</b>	<b>405,00</b>	<b>383,00</b>



**892GB**



**Orig. Gedore - Art. 29**

In special steel. Clockwise and counter-clockwise operation. Double inserts of different dimensions and tipped end.

Bi-hexagon inserts. Burnished finish.

Opening	mm	17x19	19x22	19x24	24x30	27x32	36x41
Overall length	mm	310	360	360	400	400	450
Weight	grams	500	650	650	1000	1000	2000
<b>893G</b>	<b>Each</b>	<b>58,80</b>	<b>81,70</b>	<b>81,70</b>	<b>155,00</b>	<b>162,00</b>	<b>246,00</b>



**893G**



**3**

**Prod. SCU**

In special steel. For bi-directional tightening. Double inserts of different dimensions on both sides. Bi-hex inserts. Burnished finish.

Size		2	3	4
Opening	mm	14x17 - 19x21	17x19 - 22x24	19x21 - 24x27
Overall length	mm	275	330	330
Weight	grams	600	700	750
<b>893GE</b>	<b>Each</b>	<b>102,00</b>	<b>108,00</b>	<b>112,00</b>



**893GE**



**Orig. Peddinghaus-Mob**

In special steel, chrome plated. Holed type, quick locking double splined attachment.

HEXAGONAL SOCKETS WITH SPLINED ATTACHMENT

Suitable to tighten and unscrew nuts placed at stud bolts extremities, on threaded bars of any length or deeply set. To be used with ratchet Art. 894 GL.

Opening	mm	10	11	12	13	14	15	16
<b>894GA</b>	<b>Each</b>	<b>6,08</b>	<b>7,46</b>	<b>7,46</b>	<b>7,46</b>	<b>8,04</b>	<b>8,04</b>	<b>8,04</b>
Opening	mm	17	18	19				
<b>894GA</b>	<b>Each</b>	<b>8,04</b>	<b>8,04</b>	<b>8,04</b>				



**894GA**



Product description as Art. 894GA

EXTENSIONS

To be used with exagonal sockets Art. 894 GA and ratchet Art. 894 GL.

Overall length	mm	75
<b>894GB</b>	<b>Each</b>	<b>14,10</b>



**894GB**



Product description as Art. 894GA

1/4" SOCKET ADAPTERS

To be used with ratchet lever Art. 984 GL also with 1/4" standard sockets. With socket locking/unlocking device.

<b>894GE</b>	<b>Each</b>	<b>10,90</b>
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**1/4"**

**894GE**



Product description as Art. 894GA

3/8" SOCKET ADAPTERS

To be used with ratchet lever Art. 984 GL also with 3/8" standard sockets. With socket locking/unlocking device.

<b>894GF</b>	<b>Each</b>	<b>14,10</b>
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**3/8"**

**894GF**



Product description as Art. 894GA

RATCHETS

Lever for right + left operation. Fine ratchet mechanism, con angolo di ripresa di 5°.

To be used with hexagonal sockets Art. 894 GA, extension Art. 894 GB and adapters Art. 894 GE-F.

Overall length	mm	200
<b>894GL</b>	<b>Each</b>	<b>60,50</b>



**894GL**



894GP

**Orig. Peddinghaus-Mob - Art. 9400010001**

Product description as Art. 894GA

SETS OF SOCKETS AND ACCESSORIES

The set contains 14 tools.

Each set consists of:

10 x hexagonal socket with splined attachment Art. 894 GA 10-11-12-13-14-15-16-17-18-19mm

1 x extension 75mm Art. 894 GB

1 x 1/4" socket adapter Art. 894 GE

1 x 3/8" socket adapter Art. 894 GF

1 x ratchet lever 200mm Art. 894 GL

Complete assorted set supplied in plastic case.

894GP	Each	96,80
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## STUD SCREW INSERTER

894GR

**Orig. Gedore - Art. 3173**

Bit to fit and extract bolts, slings and stud bolts simply and rapidly.

Hexagonal drive.

Thread Ø	M	6	8	10	12
894GR	Each	62,20	62,20	63,10	64,20

894GT

**Orig. Gedore - Art. 3174**

Product description as Art. 894GR

SDS-plus drive.

Thread Ø	M	6	8	10	12
894GT	Each	68,60	68,60	69,30	69,90

Product running out of stock.

## BIHEXAGON RING SPANNERS CONVECTOR

895G

**Prod. SCU**

In CHROME VANADIUM steel.

Polygonal openings

Chrome finish.

Opening	mm	21x22
Overall length	mm	300

895G	Each	11,60
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895GE

new



Made of CHROME-VANADIUM steel with double ratchet and handle with pointed end for the fast centring of holes.

Polygonal jaws. Chrome-plated finish.

Opening	mm	21x22
Overall length	mm	310

895GE	Each	23,70
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## CONVECTOR WRENCHES

895GN

**Orig. Sturem - Art. 560200**

In special steel. Model with stepped sliding bar, 3/8 - 1/2.

895GN	Each	29,80
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895GP

**Orig. Sturem - Art. 550500**

In special steel. Steps: 3/8 - 1/2 - 3/4 - 1 - 1.1/4.

18mm square drive. Length: 160mm.

895GP	Each	32,10
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895GP 4



1/2"

**Prod. SCU**

In forged steel.

Suitable to install and dismantle valves and securing flanges mounted on heating convectors.

Hexagonal, bihexagonal and winged inner setting.

Ratchet control levers: see Art. 895 GP 8.

For 3/8 - 1/2 - 3/4 - 7/8 - 1 inch drives.

1/2" square drive.

895GP 4	Each	14,10
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Ratchet with 1/2" reverse square drive, in special steel, without adapter. Suitable for wrenches Art. 895 GP 4. Rubber handle. Length: 240mm.

**895GP 8** Each **35,10**

SCU

1/2"

**895GP 8**



To replace convector elements in heating systems.  
For 1" inch drives.

Overall length	mm	500	750	1000
Square drive	mm	18	18	18
<b>895RA</b>	<b>Each</b>	<b>8,98</b>	<b>11,90</b>	<b>13,90</b>

SCU

**895RA**



**3**

Product description as Art. 895RA

For 1.1/4" inch drives..

Overall length	mm	500	750	1000
Square drive	mm	18	18	18
<b>895RB</b>	<b>Each</b>	<b>11,70</b>	<b>13,60</b>	<b>18,70</b>

SCU

**895RB**



Ratchet wit reverse square drive, in CHROME VANADIUM steel. Suitable for wrenches Art. 895 RA and 895 RB. With rubber handle. Length: 500mm.

**895RK** Each **59,40**

SCU

**895RK**



Simple lever for wrenches Art. 895 RA and 895 RB. With rubber handle.  
Length: 450mm.

**895RL** Each **12,90**

SCU

**895RL**



**CONVECTOR WRENCHES SETS**

**Prod. SCU**

In CHROME VANADIUM steel.

Suitable for fixing thermostatic valves on the radiators of heating systems.

They include bit wrenches for 3/8 - 1/2 - 3/4 - 1inch drives and relative operating lever.

In plastic case.

**896** Each **56,50**

SCU

**896**



**NUT DRIVERS WITH HANDLE**

**Prod. SCU**

In forged steel. With hexagonal shaped mouth.

Chrome plated finish. Plastic handle.

Hexagon	mm	4	5	5,5	6	7	8	9
Overall length	mm	180	180	180	180	195	195	195
<b>898A</b>	<b>Each</b>	<b>4,92</b>	<b>4,92</b>	<b>4,92</b>	<b>4,92</b>	<b>6,78</b>	<b>6,78</b>	<b>6,78</b>

SCU

Hexagon icon

**898A**



Hexagon	mm	10	11	12	13	14
Overall length	mm	195	195	195	195	195
<b>898A</b>	<b>Each</b>	<b>6,78</b>	<b>8,28</b>	<b>8,28</b>	<b>8,28</b>	<b>8,28</b>

Product description as Art. 898A

Packed in roll-up bag Art. 2076 GB.

Set of 8 wrenches Art. 898 A size 4-5-5.5-6-7-8-10-13mm.

**898B** Per set **56,92**

SCU

Hexagon icon

**898B**



898C

SCU



In forged steel. With hexagonal opening.  
Nickel finish. Plastic handle.

Short pattern.

Hexagon	mm	4	11	12	13	14
Overall length	mm	155	170	170	180	180
<b>898C</b>	Each	<b>2,80</b>	<b>3,78</b>	<b>3,84</b>	<b>3,94</b>	<b>4,08</b>

Product running out of stock.

898L

SCU



Product description as Art. 898C

Long pattern.

Hexagon	mm	5	7	9	12
Overall length	mm	210	210	210	220
<b>898L</b>	Each	<b>3,12</b>	<b>3,42</b>	<b>3,60</b>	<b>4,02</b>

Product running out of stock.

899

SCU



Especially suitable for fixing plates and stud bolts. In forged steel.  
Very wide hexagonal opening. Chrome plated finish. With plastic handle.

Hexagon	mm	4	5	5,5	6	7	8	9
Overall length	mm	210	210	210	210	210	220	220
Mouth depth	mm	25	28	31	38	38	50	50
<b>899</b>	Each	<b>7,84</b>	<b>7,84</b>	<b>7,84</b>	<b>7,84</b>	<b>7,84</b>	<b>8,34</b>	<b>8,50</b>
Hexagon	mm	10	11	12	13	14		
Overall length	mm	220	220	230	230	230		
Mouth depth	mm	50	50	50	55	55		
<b>899</b>	Each	<b>9,50</b>	<b>9,82</b>	<b>10,10</b>	<b>11,10</b>	<b>11,80</b>		

899GL

GEDORE



Orig. Gedore - Art. 2133

Hexagonal opening, 25mm wide, also suitable for box nuts.  
Chrome finish, unpolished. Dual component handle with hang-up hole.  
With hexagon on blade starting from size 10mm.

Hexagon	mm	2,5*	3,2*	3,5*	4*	4,5*	5	5,5	6
Overall length	mm	215	215	215	215	215	215	215	215
<b>899GL</b>	Each	<b>14,80</b>	<b>14,80</b>	<b>14,80</b>	<b>14,80</b>	<b>14,80</b>	<b>14,80</b>	<b>14,80</b>	<b>14,80</b>
Hexagon	mm	7	8	9	10	11	12	13	14*
Overall length	mm	225	225	225	225	235	235	235	235
<b>899GL</b>	Each	<b>15,80</b>	<b>16,50</b>	<b>18,10</b>	<b>22,30</b>	<b>25,20</b>	<b>26,30</b>	<b>27,80</b>	<b>29,70</b>

When stocks are depleted, we will provide keys with handles in different form. \* Sizes running out of stock.

## FLEXIBLE NUT DRIVERS WITH HANDLE

899GM  
new

SCU



Prod. SCU

Flexible. Particularly suitable for the tightening of clamps. With hexagonal jaw.  
Flexible covered in rubber. Plastic handle with hole.

Hexagon	mm	6	7	8	10
Overall length	mm	250	250	250	275
<b>899GM</b>	Each	<b>11,10</b>	<b>11,40</b>	<b>11,90</b>	<b>16,10</b>

899GP

GEDORE



Orig. Gedore - Art. 33 F

In CHROME VANADIUM steel.  
Flexible type for hose clip clamping.  
Hexagonal opening, 13.5mm wide.  
Chrome plated finish. Plastic handle with hang-up hole.

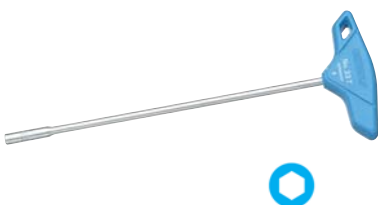
Hexagon	mm	5	6	8	10
Overall length	mm	250	250	250	270
<b>899GP</b>	Each	<b>34,10</b>	<b>33,90</b>	<b>33,90</b>	<b>39,60</b>

Product running out of stock.

## NUT "T" DRIVERS WITH HANDLE

899GT

GEDORE



Orig. Gedore - Art. 33 T

In CHROME VANADIUM steel.  
Hexagonal opening, 25mm wide, also suitable for box nuts.  
Chrome plated finish, unpolished.  
Plastic handle with hang-up hole.

Hexagon	mm	2,5*	3*	3,5*	4*	4,5*	5*	5,5	6
Overall length	mm	180	180	180	227,5	227,5	227,5	227,5	227,5
<b>899GT</b>	Each	<b>19,80</b>	<b>19,80</b>	<b>19,80</b>	<b>18,50</b>	<b>18,50</b>	<b>18,50</b>	<b>21,30</b>	<b>21,50</b>
Hexagon	mm	7	8	9	10	11	12	13	14
Overall length	mm	227,5	227,8	227,5	227,5	269	269	269	269
<b>899GT</b>	Each	<b>21,90</b>	<b>22,80</b>	<b>25,10</b>	<b>24,90</b>	<b>30,40</b>	<b>32,30</b>	<b>34,10</b>	<b>36,20</b>

\* Sizes running out of stock.



**Prod. SCU**

In CHROME VANADIUM steel.

TORX opening. Chrome plated finish. Plastic handle with hang-up hole.

Blade length: 230mm.

TORX size	E	6	8	10	12	14
For screws DIN 931/6921	M.	5/4	6/5	8/6	10/8	12/10
Mouth depth	mm	10	12	13	17	23
<b>899GZA</b>	Each	15,20	15,20	17,20	17,20	19,10



**INTERCHANGEABLE NUT WENCHES WITH JOINTED BAR IN SETS**

**Prod. SCU**

With a round body made from sturdy sheet steel, a hinged lever, and a knurled steel based hexagonal spout measuring 13 mm. Complete with 6 hexagonal sockets measuring mm 9-10-11-12-14-17 which can be installed on the hexagonal mouth.

<b>899R</b>	Per set	57,70
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**DOUBLE ENDED SOCKET WRENCHES**

**Prod. SCU**

In steel tubing. Double ended, hexagonal. Nickel finish.

Opening	mm	6x7	7x9	8x9	8x10	9x11	10x11	10x12
Bore for levers Ø	mm	4	6,3	6,3	6,3	6,3	6,3	6,3
<b>900</b>	Each	1,08	1,08	1,08	1,16	1,16	1,16	1,22
Opening	mm	12x13	12x14	13x15	14x15	14x17	16x17	16x18
Bore for levers Ø	mm	7,3	7,3	6,5	7,3	7,3	7,3	8,5
<b>900</b>	Each	1,26	1,26	1,48	1,48	1,52	1,58	1,58
Opening	mm	17x19	18x19	18x20	19x22	20x22	21x23	22x25
Bore for levers Ø	mm	8,5	8,5	9,2	10,5	10,5	10,5	10,5
<b>900</b>	Each	1,66	1,66	1,84	2,02	2,02	2,16	2,38
Opening	mm	22x27	23x27	24x26	24x27	25x28	27x32	30x32
Bore for levers Ø	mm	11,7	11,7	11	11,7	11,7	13,4	13,4
<b>900</b>	Each	2,56	2,60	2,38	2,60	2,74	3,06	3,06
Opening	mm	32x36	35x38	36x41	40x42	46x50	50x55	55x60
Bore for levers Ø	mm	13,4	13,5	13,8	13,8	15,8	17,4	17,4
<b>900</b>	Each	3,90	4,66	4,76	5,46	7,26	7,84	9,06



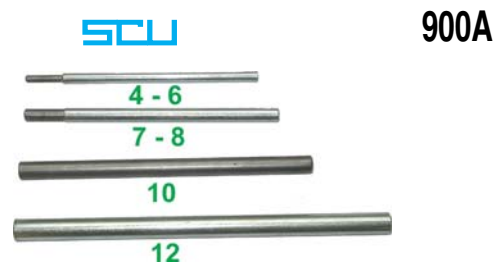
For sliding bars see Art. 900 A. Due to wrench manufacturing process, the bar Ø could slightly vary.

**STEPPED TOMMY BARS**

**Prod. SCU**

In special steel, completely hardened.

Size		6	8	10	12
Steps number		2	2	1	1
Steps diameter	mm	4-6	7-8	10	12
<b>900A</b>	Each	0,88	1,04	1,22	1,66



**DOUBLE ENDED SOCKET WRENCHES SETS**

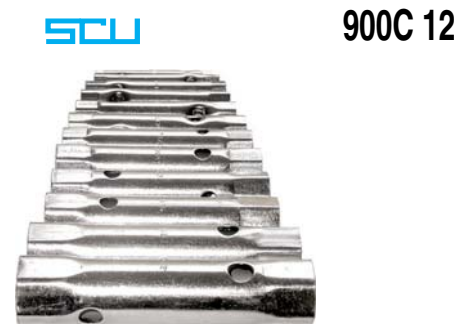
**Prod. SCU**

In steel tubing. Double ended, hexagonal. Nickel finish.

Set of 12 wrenches Art. 900. Dimensions: 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x26 - 25x28 - 30x32mm

Supplied in cardboard packaging.

<b>900C 12</b>	Per set	21,66
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## DOUBLE ENDED SOCKET WRENCHES

900G 

## Orig. Gedore - Art. 26 R

According to DIN 896 B/ISO 2236 - ISO 1085

In drawn steel tubing. Double hexagonal ended, hardened. Also suitable for box nuts. Chrome plated finish.

Without sliding bar.

Opening	mm	5,5x7	6x7	8x9	8x10	10x11	10x13	11x13
Overall length	mm	105	110	110	120	120	140	140
Bore for levers Ø	mm	5	5	6	6	6	8	8

<b>900G</b>	Each	<b>5,72</b>	<b>5,54</b>	<b>5,86</b>	<b>6,68</b>	<b>6,78</b>	<b>7,66</b>	<b>7,80</b>
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Opening	mm	12x13	12x14	13x14	13x15	13x17	14x15	14x17
Overall length	mm	140	140	140	140	150	140	150
Bore for levers Ø	mm	8	8	8	8	10	8	10

<b>900G</b>	Each	<b>7,72</b>	<b>7,82</b>	<b>7,80</b>	<b>8,56</b>	<b>9,96</b>	<b>8,38</b>	<b>10,60</b>
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Opening	mm	16x17	17x19	18x19	19x22	20x22	21x23	22x24
Overall length	mm	150	160	160	170	170	170	190
Bore for levers Ø	mm	10	12	12	12	12	14	14

<b>900G</b>	Each	<b>9,90</b>	<b>13,40</b>	<b>13,40</b>	<b>13,80</b>	<b>13,90</b>	<b>14,30</b>	<b>14,60</b>
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Opening	mm	24x26	24x27	25x28	27x30	27x32	30x32	30x36
Overall length	mm	190	190	200	200	200	200	220
Bore for levers Ø	mm	14	14	16	16	16	16	18

<b>900G</b>	Each	<b>15,70</b>	<b>15,70</b>	<b>16,30</b>	<b>18,40</b>	<b>19,70</b>	<b>19,70</b>	<b>24,50</b>
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Opening	mm	32x36	36x41	41x46	46x50	50x55
Overall length	mm	220	220	240	240	240
Bore for levers Ø	mm	18	18	20	20	20

<b>900G</b>	Each	<b>24,20</b>	<b>28,60</b>	<b>32,50</b>	<b>97,70</b>	<b>119,00</b>
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For levers see Art. 902 GB/GC/GD/GE.



## STEPPED TOMMY BARS

902GB 

5 - 6

## Orig. Gedore - Art. 26 RS/1-2-3/26 d.

In CHROME VANADIUM steel. Completely hardened.

2-stepped sliding bar Ø 5-6mm.

<b>902GB</b>	Each	<b>7,60</b>
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902GC 

8 - 10

Product description as Art. 902GB

2-stepped sliding bar Ø 8-10mm.

<b>902GC</b>	Each	<b>10,50</b>
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902GD 

12 - 14 - 16

Product description as Art. 902GB

3-stepped sliding bar Ø 12-14-16mm.

<b>902GD</b>	Each	<b>9,28</b>
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902GE 

Product description as Art. 902GB

Cylindrical type.

Ø	mm	5	6	8	10	12	14	16
<b>902GE</b>	Each	<b>4,14</b>	<b>4,22</b>	<b>5,16</b>	<b>6,58</b>	<b>8,16</b>	<b>11,90</b>	<b>18,20</b>

Ø	mm	18	20
<b>902GE</b>	Each	<b>28,40</b>	<b>43,50</b>

## DOUBLE ENDED SOCKET WRENCHES SETS

903G 8   
903G 12

## Orig. Gedore - Art. Kd 26 R

According to DIN 896 B/ISO 2236 - ISO 1085

In drawn steel. Hexagonal double ended, hardened. Also suitable for box nuts.

Chrome plated finish.

Set of 8 wrenches Art. 900 G. Dimensions: 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22mm and

3 sliding bars Art. 902 GB-C-D.

Supplied in cardboard packaging.

<b>903G 8</b>	Per set	<b>111,00</b>
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Product description as Art. 903G 8

Set of 12 wrenches Art. 900 G. Dimensions: 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 25x28 - 30x32mm and 3 sliding bars Art. 902 GB-C-D.

Supplied in cardboard packaging.

<b>903G 12</b>	Per set	<b>177,00</b>
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**DOUBLE ENDED SOCKET WRENCHES**

**Prod. SCU**

In forged CHROME VANADIUM steel.  
Hexagonal hardened open ends.  
Also suitable for box nuts and protruding nuts.  
Chrome-titanium finish.  
Without sliding bars.

Opening	mm	6x7	8x9	10x11	12x13	14x15	16x17	18x19
Overall length	mm	105	110	120	140	145	155	165
Bore for levers Ø	mm	3	3	5	6	6,5	7	8
<b>907G</b>	<b>Each</b>	<b>12,80</b>	<b>13,10</b>	<b>13,80</b>	<b>16,20</b>	<b>18,10</b>	<b>21,20</b>	<b>23,10</b>

Opening	mm	20x22	24x27	30x32
Overall length	mm	170	195	210
Bore for levers Ø	mm	10	12	13,5
<b>907G</b>	<b>Each</b>	<b>27,20</b>	<b>41,60</b>	<b>48,10</b>

**SCU**

**907G**



**3**

**STEPPED TOMMY BARS**

**Prod. SCU**

In special steel, completely hardened.  
With 4 steps Ø 2.5 - 4.5 - 5.5 - 6mm for wrenches Art. 907 G 6x7 to 14x15.

<b>907GB</b>	<b>Each</b>	<b>10,90</b>
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**SCU**

**907GB**



Product description as Art. 907GB

With 6 steps Ø 6.5 - 7.5 - 9.5 - 11.5 - 12.5 - 13mm for wrenches Art. 907 G 16x17 to 30x32.

<b>907GC</b>	<b>Each</b>	<b>14,70</b>
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**SCU**

**907GC**



**DOUBLE ENDED SOCKET WRENCHES SETS**

**Prod. SCU**

In forged CHROME VANADIUM steel.  
Hexagonal hardened open ends.  
Also suitable for box and protruding nuts.  
Chrome-titanium finish.  
Without extension tubes.  
Set of 8 wrenches Art. 907 G. Dimensions: 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22mm.  
Supplied in tool bag.

<b>908G 8</b>	<b>Per set</b>	<b>132,00</b>
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**SCU**

**908G 8**



**DOUBLE ENDED SOCKET WRENCHES**

**Orig. Gedore - Art. 626**

According to DIN 896 A/ISO 2236 - ISO 1085  
Double ended, hexagonal. In CHROME VANADIUM steel, hardened.  
Sturdy and forged construction.  
Suitable for box nuts and protruding nuts.  
Chrome plated finish with polished heads.  
Without sliding bars.

Opening	mm	6x7	8x9	10x11	12x13	14x15	16x17	17x19
Overall length	mm	105	110	120	140	145	155	165
Bore for levers Ø	mm	4	4	5	6	6	7	8
<b>909GE</b>	<b>Each</b>	<b>12,10</b>	<b>11,70</b>	<b>12,70</b>	<b>14,10</b>	<b>18,50</b>	<b>20,90</b>	<b>23,70</b>

Opening	mm	18x19	19x22	20x22	21x23*	21x24*	24x26	24x27
Overall length	mm	165	175	175	185	185	195	195
Bore for levers Ø	mm	8	9	9	10	12	12	12
<b>909GE</b>	<b>Each</b>	<b>23,70</b>	<b>28,40</b>	<b>25,70</b>	<b>59,50</b>	<b>80,60</b>	<b>42,70</b>	<b>34,60</b>

Opening	mm	25x28*	30x32	30x34*	32x36
Overall length	mm	205	210	220	225
Bore for levers Ø	mm	12	14	14	16,5
<b>909GE</b>	<b>Each</b>	<b>102,00</b>	<b>61,90</b>	<b>129,00</b>	<b>77,90</b>

**GEDORE**

**909GE**



As for Tommy bars see Art. 909 GL. \* Sizes running out of stock.

**STEPPED TOMMY BARS**

**Orig. Gedore - Art. 626 S.**

In CHROME VANADIUM steel. Completely hardened.  
Chrome plated finish.

Size		1	2	3
Steps number		4	5	3
Steps diameter	mm	3,7-4,7-5,2-7	6,7-7,7-8,7-9,7-11	11,7-13,7-16
Keys opening	mm	6x7 - 14x15	13x17 - 21x23	21x24 - 32x36
<b>909GL</b>	<b>Each</b>	<b>4,78</b>	<b>6,36</b>	<b>9,28</b>

**GEDORE**

**909GL**



**DOUBLE ENDED SOCKET WRENCHES SETS**

**909GS 8**



**Orig. Gedore - Art. KD 626**  
 According to DIN 896 A/ISO 2236 - ISO 1085  
 Double ended, hexagonal. In CHROME VANADIUM steel, hardened.  
 Sturdy and forged construction.  
 Suitable for box nuts and protruding nuts.  
 Chrome plated finish with polished heads.  
 Set of 8 wrenches Art. 909 GE. Dimensions: 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22mm and 2 sliding bars Art. 909 GL 1-2.  
 Supplied in cardboard packaging.

**909GS 8** Per set **154,00**

**DOUBLE ENDED SOCKET WRENCHES**

**909GSA**



**Orig. Gedore - Art. 27**  
 In CHROME VANADIUM steel.  
 Chrome plated steel.  
 Wide hexagonal openings for a better nut clamping.  
 Heavy duty. Well suitable for truck wheel nuts.  
 Without sliding bar.

Opening mm	<b>24x27</b>	<b>27x32</b>	<b>28x32</b>	<b>28x33</b>	<b>30x32</b>	<b>30x33</b>	<b>32x38</b>
Opening inches	15/16x1.1/16	-	1.3/32x1.1/4	-	1.3/16x1.1/4	-	1.1/4x1.1/2
Overall length mm	400	400	400	400	400	400	400
<b>909GSA</b> Each	<b>53,00</b>	<b>55,70</b>	<b>55,70</b>	<b>40,70</b>	<b>55,70</b>	<b>55,70</b>	<b>60,90</b>

Size mm 28x33 running out of stock.

sliding bar length: 630mm, Ø 18mm (for all dimensions).

**O909GSB** Each **28,90**

**NUT DRIVERS WITH HANDLES**

**909GSE**



**Prod. SCU**  
 In CHROME VANADIUM steel pipe tubing. Chrome plated finish. Hexagonal sockets.  
 Polypropylene handle, unbreakable. With hole for use with sliding bars.  
 Blade length: approx. 120mm, handle length: approx. 115mm.

Mouth opening mm		<b>3</b>	<b>4</b>	<b>5</b>	<b>5,5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>909GSE</b> Each		<b>7,00</b>	<b>7,00</b>	<b>7,00</b>	<b>7,00</b>	<b>8,16</b>	<b>8,16</b>	<b>8,16</b>
Mouth opening mm		<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>
<b>909GSE</b> Each		<b>8,16</b>	<b>9,08</b>	<b>9,08</b>	<b>10,20</b>	<b>10,20</b>	<b>10,20</b>	<b>12,50</b>
Mouth opening mm		<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>		
<b>909GSE</b> Each		<b>12,50</b>	<b>12,50</b>	<b>14,50</b>	<b>14,50</b>	<b>16,10</b>		

**NUT DRIVERS WITH HANDLES SETS**

**909GSF**

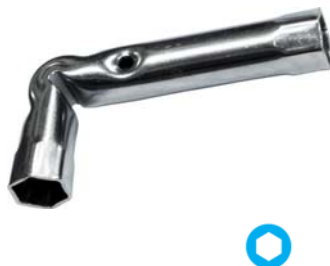


**Prod. SCU**  
 In CHROME VANADIUM steel pipe tubing. Chrome plated finish. Hexagonal sockets.  
 Polypropylene handle, unbreakable. With hole for use with sliding bars.  
 Blade length: approx. 120mm, handle length: approx. 115mm.  
 Set of 8 x 4 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10mm wrenches Art. 909 GSE da.  
 Supplied in cardboard package.

**909GSF** Per set **62,72**

**DOUBLE ENDED SOCKET WRENCHES**

**909T**



**Prod. SCU**  
 Bent type. In steel tubing. Double ended, hexagonal.  
 Nickel finish.  
 Without sliding bar.

Opening mm		<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
Bore for levers Ø mm		4,2	4,2	5,2	5,2	5,2	6,2	6,2
<b>909T</b> Each		<b>1,08</b>	<b>1,08</b>	<b>1,22</b>	<b>1,22</b>	<b>1,34</b>	<b>1,34</b>	<b>1,66</b>
Opening mm		<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>
Bore for levers Ø mm		6,2	6,2	6,4	6,9	7,2	7,2	7,2
<b>909T</b> Each		<b>1,66</b>	<b>1,80</b>	<b>1,80</b>	<b>2,02</b>	<b>2,02</b>	<b>2,20</b>	<b>2,20</b>
Opening mm		<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>26</b>	
Bore for levers Ø mm		7,2	7,2	7,2	10,2	9,2	10,5	
<b>909T</b> Each		<b>2,70</b>	<b>2,70</b>	<b>2,70</b>	<b>4,40</b>	<b>4,58</b>	<b>4,88</b>	

For sliding bars see Art. 900 A. Due to wrench manufacturing process, the bar Ø could slightly vary.  
 Size mm 26 running out of stock.

**DOUBLE ENDED SOCKET WRENCHES BEND TO 90°**

**Orig. Gedore - Art. 25 PK**

Bent, heavy type with bore.  
In CHROME VANADIUM steel.

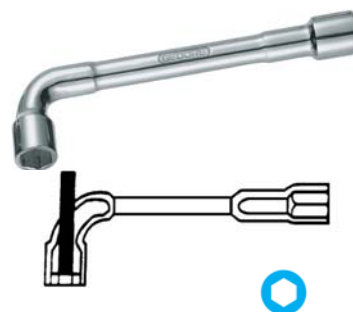
Suitable for box nuts and protruding nuts. To be used also with extension tube to increase clamping strength.

Bent head and straight head, hexagonal. Chrome plated finish.

Opening	mm	6	7	8	9	10	11	12	13
Overall length	mm	105	107	112	122	130	136	145	152
<b>909Z</b>	<b>Each</b>	<b>6,56</b>	<b>6,56</b>	<b>5,96</b>	<b>5,82</b>	<b>5,82</b>	<b>6,56</b>	<b>7,70</b>	<b>8,02</b>
Opening	mm	14	15	16	17	18	19	21	22
Overall length	mm	160	170	178	187	195	205	212	225
<b>909Z</b>	<b>Each</b>	<b>8,66</b>	<b>9,82</b>	<b>11,70</b>	<b>12,20</b>	<b>12,60</b>	<b>13,70</b>	<b>17,20</b>	<b>17,20</b>
Opening	mm	24	27	30	32	34	36		
Overall length	mm	250	280	310	330	340	355		
<b>909Z</b>	<b>Each</b>	<b>22,60</b>	<b>29,20</b>	<b>38,50</b>	<b>38,50</b>	<b>43,50</b>	<b>48,40</b>		



**909Z**



**3**

**DOUBLE ENDED SOCKET WRENCHES BEND TO 90° SETS**

**Orig. Gedore**

Product description as Art. 909Z

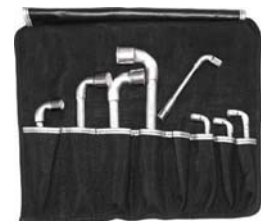
Set of 8 wrenches Art. 909 Z 6 - 7 - 8 - 10 - 13 - 17 - 19 - 22mm.

In rolling tool bag Art. 2076 GB.

<b>909ZE</b>	<b>Per set</b>	<b>84,64</b>
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**909ZE**



Product description as Art. 909Z

Set of 15 wrenches Art. 909 Z 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19 - 21 - 22mm.

In rolling tool bag Art. 2076 GD.

<b>909ZF</b>	<b>Per set</b>	<b>155,38</b>
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**909ZF**



**OFFSET SOCKET WRENCHES**

**Orig. Gedore - Art. 25**

With deep hexagonal opening.

In CHROME VANADIUM steel. Heavy-duty model.

Suitable also for box nuts and protruding nuts.

Chrome plated finish.

Opening	mm	10	13	14	17	19	22	24	27
Overall length	mm	160	200	215	250	280	315	345	380
<b>910G</b>	<b>Each</b>	<b>20,40</b>	<b>21,50</b>	<b>22,70</b>	<b>27,10</b>	<b>33,10</b>	<b>41,60</b>	<b>47,70</b>	<b>55,60</b>
Opening	mm	30	32	36	41	46	50	55	60
Overall length	mm	420	450	500	560	630	630	670	670
<b>910G</b>	<b>Each</b>	<b>69,30</b>	<b>78,70</b>	<b>112,00</b>	<b>157,00</b>	<b>185,00</b>	<b>227,00</b>	<b>257,00</b>	<b>314,00</b>



**910G**



**Orig. Gedore - Art. 25 V**

With deep square openings.

In CHROME VANADIUM steel. Sturdy head model.

Suitable also for box nuts and protruding nuts.

Chrome plated finish.

Opening	mm	8	9	10	12	13	14	17
Overall length	mm	150	160	175	215	230	240	280
<b>911G</b>	<b>Each</b>	<b>19,80</b>	<b>23,10</b>	<b>23,10</b>	<b>23,30</b>	<b>24,20</b>	<b>25,50</b>	<b>36,50</b>



**911G**



**OFFSET SOCKET WRENCHES**

**Prod. SCU**

According to DIN 248.

In special forged and hardened steel.

Burnished finish.

Opening	mm	8	10	12	13	14	17	19
Overall length	mm	160	195	235	250	270	315	345
<b>911GL</b>	<b>Each</b>	<b>41,50</b>	<b>43,80</b>	<b>46,80</b>	<b>54,00</b>	<b>54,30</b>	<b>80,90</b>	<b>88,20</b>
Opening	mm	22	24					
Overall length	mm	385	415					
<b>911GL</b>	<b>Each</b>	<b>121,00</b>	<b>128,00</b>					



**911GL**



**SQUARE SOCKET WRENCHES**

911GM

SCU

**Prod. SCU**

According to DIN 7417.  
Short pattern with ring-shaped handle.  
Made of steel. Nickel finish.

Opening	mm	4	5	6	7	8	10	12
Overall length	mm	52	52	52	52	58	64	65
<b>911GM</b>	<b>Each</b>	<b>5,24</b>	<b>5,24</b>	<b>4,38</b>	<b>4,38</b>	<b>4,38</b>	<b>13,60</b>	<b>8,82</b>

**TRIANGULAR SOCKET WRENCHES**

911GO

SCU

**Prod. SCU**

Short pattern with ring-shaped grip.  
Made of steel. Nickel finish.

Opening	mm	4	5	6	7	8	10	12
Overall length	mm	55	55	55	55	60	60	65
<b>911GO</b>	<b>Each</b>	<b>5,24</b>	<b>5,24</b>	<b>5,24</b>	<b>6,46</b>	<b>6,46</b>	<b>8,82</b>	<b>8,82</b>

**OFFET CROSS SOCKET WRENCHES**

911GP

SCU

**Prod. SCU**

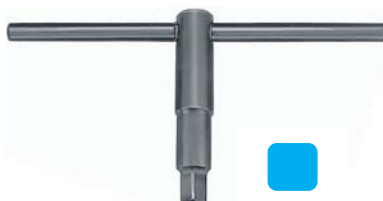
According to DIN 6368.  
In special steel, hardened.  
Burnished finish.  
Suitable for cross-head screws DIN 6367 installed on cutter spindles.

Size		16	22	27	32
For threaded screws	M.	8	10	12	16
Overall length	mm	180	200	225	250
<b>911GP</b>	<b>Each</b>	<b>20,10</b>	<b>24,40</b>	<b>29,50</b>	<b>40,20</b>

**SQUARE SOCKET WRENCHES, MALES**

911GS

SCU

**Prod. SCU**

According to DIN 905.  
In special steel, hardened.  
Burnished finish.

Square side	mm	4	5	6	7	8	9	10
Overall height	mm	60	60	80	80	80	80	100
<b>911GS</b>	<b>Each</b>	<b>10,70</b>	<b>10,70</b>	<b>11,30</b>	<b>11,80</b>	<b>12,20</b>	<b>14,70</b>	<b>17,60</b>
Square side	mm	11	12	13	14	17	19	22
Overall height	mm	100	100	100	120	160	200	200
<b>911GS</b>	<b>Each</b>	<b>20,40</b>	<b>23,10</b>	<b>28,10</b>	<b>31,90</b>	<b>54,20</b>	<b>77,70</b>	<b>126,00</b>

For "T"-type with female square outlet, see Art. 919 L.

**TRIANGULAR SOCKET WRENCHES**

911Z

SCU

**Prod. SCU**

According to DIN 22417.  
T-model. Triangular socket. In drawn steel tubing. With sliding bar.  
Zinc finish.

For screws	M.	4	5	6	8	10	12	16	
Overall length	mm	90	100	112	125	140	160	170	
<b>911Z</b>	<b>Each</b>	<b>3,42</b>	<b>3,64</b>	<b>3,74</b>	<b>4,02</b>	<b>4,80</b>	<b>5,66</b>	<b>8,12</b>	
For screws	M.	20							
Overall length	mm	200							
<b>911Z</b>	<b>Each</b>	<b>9,82</b>							

**SOCKET HEAD SCREW WRENCHES**

912G


**Orig. Gedore - Art. 42 X**

In CHROME VANADIUM steel.  
For XZN screws. Chrome plated finish.

For screws	M	4	5	6	8	10	12	14
Overall length	mm	63	75	86	98	110	124	139
<b>912G</b>	<b>Each</b>	<b>5,44</b>	<b>6,32</b>	<b>7,40</b>	<b>9,42</b>	<b>13,30</b>	<b>15,10</b>	<b>21,60</b>
For screws	M	16	18					
Overall length	mm	156	178					
<b>912G</b>	<b>Each</b>	<b>32,70</b>	<b>41,20</b>					

T-wrenches for XZN screws: see Witte range of products.

**Orig. Gedore - Art. 43**

For RIBE screws. Chrome plated finish.

For screws	M	5	6	8	10	12	14
Overall length	mm	71	80	90	100	112	125
<b>912GB</b>	<b>Each</b>	<b>6,70</b>	<b>7,80</b>	<b>10,40</b>	<b>14,40</b>	<b>16,30</b>	<b>23,20</b>



**912GB**



**Prod. SCU**

For TORX screws. Sandblasted finish.

For TORX screws	T	6	7	8	9	10	15	20	25
For threads	M.	2	2,5	2,5	3	3-3,5	3,5-4	4-5	4,5-5
Seal	mm	1,7	1,99	2,31	2,50	2,74	3,27	3,86	4,43
Overall length	mm	44	50	51	51	54	57	61	64
<b>912GP</b>	<b>Each</b>	<b>2,44</b>	<b>2,44</b>	<b>2,44</b>	<b>1,78</b>	<b>1,78</b>	<b>1,88</b>	<b>1,96</b>	<b>2,14</b>



**912GP**

**3**



For TORX screws

For TORX screws	T	27	30	40	45	50	55	60
For threads	M.	4,5-5-6	6-7	7-8	8-10	10	12	14
Seal	mm	4,99	5,52	6,65	7,82	8,83	11,22	13,25
Overall length	mm	69	76	83	91	104	120	134
<b>912GP</b>	<b>Each</b>	<b>2,34</b>	<b>2,62</b>	<b>2,98</b>	<b>3,36</b>	<b>4,10</b>	<b>5,78</b>	<b>7,92</b>

**Orig. Gedore - Art. 43 TX**

For TORX screws. Chrome plated finish.

For TORX screws	T	6	7	8	9	10	15	20	25
For threads	M.	2	2,5	2,5	3	3-3,5	3,5-4	4-5	4,5-5
Seal	mm	1,7	1,99	2,31	2,50	2,74	3,27	3,86	4,43
Overall length	mm	42	48	48	48	51	54	57	60
<b>912GS</b>	<b>Each</b>	<b>7,42</b>	<b>7,42</b>	<b>7,42</b>	<b>7,50</b>	<b>7,72</b>	<b>7,84</b>	<b>8,58</b>	<b>8,98</b>



**912GS**



For TORX screws

For TORX screws	T	27	30	40	45	50	55	60
For threads	M.	4,5-5-6	6-7	7-8	8-10	10	12	14
Seal	mm	4,99	5,52	6,65	7,82	8,83	11,22	13,25
Overall length	mm	64	70	76	83	95	108	120
<b>912GS</b>	<b>Each</b>	<b>9,68</b>	<b>9,68</b>	<b>11,30</b>	<b>13,10</b>	<b>14,30</b>	<b>20,10</b>	<b>25,50</b>

**Prod. SCU**

Long pattern.

For TORX screws. Chrome plated finish.

For TORX screws	T	6	7	8	9	10	15	20
For threads	M.	2	2,5	2,5	3	3-3,5	3,5-4	4-5
Seal	mm	1,7	1,99	2,31	2,50	2,74	3,27	3,86
Overall length	mm	80	88	101	111	121	136	148
<b>912GS 1</b>	<b>Each</b>	<b>3,08</b>	<b>3,08</b>	<b>3,08</b>	<b>3,08</b>	<b>3,28</b>	<b>3,46</b>	<b>3,64</b>



**912GS 1**



For TORX screws

For TORX screws	T	25	27	30	40	45	50
For threads	M.	4,5-5	4,5-5-6	6-7	7-8	8-10	10
Seal	mm	4,43	4,99	5,52	6,65	7,82	8,83
Overall length	mm	163	170	178	188	195	200
<b>912GS 1</b>	<b>Each</b>	<b>3,72</b>	<b>4,02</b>	<b>4,30</b>	<b>4,94</b>	<b>5,88</b>	<b>6,72</b>

For TORX screws. Sandblasted finish.

Combination model with a spherical head giving a working angle up to 20° and a head to perform normal working tasks.

For TORX screws	T	9	10	15	20	25	27	30
For threads	M.	3	3-3,5	3,5-4	4-5	4,5-5	4,5-5-6	6-7
Seal	mm	2,50	2,74	3,27	3,86	4,43	4,99	5,52
Overall length	mm	67	76	86	98	100	111	125
<b>912GSA</b>	<b>Each</b>	<b>4,30</b>	<b>4,66</b>	<b>4,86</b>	<b>5,04</b>	<b>5,32</b>	<b>5,60</b>	<b>5,70</b>



**912GSA**



For TORX screws

For TORX screws	T	40	45	50	55	60
For threads	M.	7-8	8-10	10	12	14
Seal	mm	6,65	7,82	8,83	11,22	13,25
Overall length	mm	139	145	149	157	167
<b>912GSA</b>	<b>Each</b>	<b>7,10</b>	<b>7,64</b>	<b>8,38</b>	<b>11,40</b>	<b>14,40</b>

For TORX screw with hole (Tamper-TORX). Sandblasted finish.

For TORX screws	T	9	10	15	20	25	27	30	40
For threads	M.	3	3-3,5	3,5-4	4-5	4,5-5	4,5-5-6	6-7	7-8
Seal	mm	2,50	2,74	3,27	3,86	4,43	4,99	5,52	6,65
Overall length	mm	59	65	76	87	98	106	111	119
<b>912GSE</b>	<b>Each</b>	<b>3,28</b>	<b>3,28</b>	<b>3,36</b>	<b>3,36</b>	<b>3,54</b>	<b>3,64</b>	<b>3,70</b>	<b>4,02</b>



**912GSE**



**SOCKET HEAD SCREW WRENCHES SETS**
**912GT**

**Orig. Gedore - Art. 43 TX**Set of 9 pcs. Art. 912 GS T7- T8 - T9 - T10 - T15 - T20 - T25 - T30 - T40.  
In plastic bag.

<b>912GT</b>	Per set	<b>79,20</b>
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**912GT 8**

**Prod. SCU**Set of 8 pcs. Art. 912 GP T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40.  
In plastic wallet.

<b>912GT 8</b>	Per set	<b>22,40</b>
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**912GT 9**

Set of 8 pcs. Art. 912 GSE T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40.  
In plastic wallet.

<b>912GT 9</b>	Per set	<b>26,10</b>
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**912GT 12**

**Orig. Gedore - Art. H43 TX**Set of 9 pcs. Art. 912 GS T7 - T8 - T9 - T10 - T15 - T20 - T25 - T30 - T40.  
In plastic holder.

<b>912GT 12</b>	Per set	<b>80,30</b>
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**912GT 15**

**Prod. SCU**Set of 8 pcs. Art. 912 GP T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40.  
In plastic holder.

<b>912GT 15</b>	Per set	<b>22,10</b>
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**912GT 16**

Set of 9 pcs. Art. 912 GS 1 T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50.  
In plastic holder.

<b>912GT 16</b>	Per set	<b>43,40</b>
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**912GT 17**

Set of 8 pcs. Art. 912 GSA T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40.  
In plastic holder.

<b>912GT 17</b>	Per set	<b>45,30</b>
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Set of 8 pcs. Art. 912 GSE T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40.  
In plastic holder.

**912GT 18** Per set **31,40**



Set of 8 pcs. Art. 912 GP T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40.  
In ring holder-

**912GT 20** Per set **21,50**



CHROME VANADIUM steel blades. With dual component pocket holder.  
Set of 8 sandblasted blades T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40.  
For TORX screws.

**912GU** Per set **20,50**



CHROME VANADIUM steel blades. With dual component pocket holder.  
Set of 8 sandblasted blades T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40.  
For TORX screws with hole (Tamper-TORX).

**912GVE** Per set **24,30**



**SOCKET HEAD SCREW WRENCHES**

**Prod. SCU**

In CHROME VANADIUM steel. For TORX screws.  
Plastic side handgrip. Particularly suited to screws of tool Multiplex bits and hard metal inserts.

	T	5	6	7	8	9	10	15	20
For TORX screws	M.	1,8	2	2,5	2,5	3	3-3,5	3,5-4	4-5
Seal	mm	1,42	1,7	1,99	2,31	2,50	2,74	3,27	3,86
Overall length	mm	68	68	68	73	73	73	79	79
<b>912GZ</b>	Each	<b>3,46</b>	<b>3,46</b>	<b>3,46</b>	<b>3,46</b>	<b>3,18</b>	<b>3,18</b>	<b>3,36</b>	<b>3,54</b>



Made from CHROME-VANADIUM steel. For TORX PLUS® screw attachments.  
Plastic handle, sandblasted blade. Particularly suitable for carbide tipped screws.

	IP	5	6	7	8	9	10	15	20
For TORX PLUS® screws	M.	1,8	2	2,5	2,5	3	3-3,5	3,5-4	4-5
Seal	mm	1,42	1,7	1,99	2,31	2,50	2,74	3,27	3,86
Overall length	mm	68	68	68	73	73	73	79	79
<b>912GZE</b>	Each	<b>5,22</b>	<b>5,22</b>	<b>5,22</b>	<b>5,22</b>	<b>4,76</b>	<b>4,76</b>	<b>5,04</b>	<b>5,32</b>



**912GZF** SCU



In CHROME VANADIUM steel.  
For TORX screws.  
Screwdriver grip in bicomponent material with hang-up hole, chrome plated blade, burnished tip.

For TORX screws	T	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>15</b>	<b>20</b>
For threads	M.	2	2,5	2,5	3	3-3,5	3,5-4	4-5
Seal	mm	1,7	1,99	2,31	2,50	2,74	3,27	3,86
Overall length	mm	140	140	150	150	170	170	200
<b>912GZF</b>	<b>Each</b>	<b>5,22</b>	<b>5,22</b>	<b>5,22</b>	<b>5,04</b>	<b>5,32</b>	<b>5,40</b>	<b>5,50</b>

For TORX screws	T	<b>25</b>	<b>27</b>	<b>30</b>	<b>40</b>	<b>45</b>
For threads	M.	4,5-5	4,5-5-6	6-7	7-8	8-10
Seal	mm	4,43	4,99	5,52	6,65	7,82
Overall length	mm	200	225	225	240	250
<b>912GZF</b>	<b>Each</b>	<b>5,60</b>	<b>5,88</b>	<b>6,16</b>	<b>6,80</b>	<b>8,38</b>

When stocks are depleted, we will provide keys with handles in different form.

**912GZR** SCU



Made from CHROME-VANADIUM steel.  
For TORX screw attachments.  
"T" shaped handle with hole, chrome plated and burnished blade.

For TORX screws	T	<b>8</b>	<b>9</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>27</b>
For threads	M.	2,5	3	3-3,5	3,5-4	4-5	4,5-5	4,5-5-6
Seal	mm	2,31	2,50	2,74	3,27	3,86	4,43	4,99
Overall length	mm	125	125	125	125	132	132	132
<b>912GZR</b>	<b>Each</b>	<b>6,34</b>	<b>5,96</b>	<b>6,06</b>	<b>6,16</b>	<b>6,34</b>	<b>6,52</b>	<b>6,72</b>

For TORX screws	T	<b>30</b>	<b>40</b>	<b>45</b>	<b>50</b>	<b>55</b>	<b>60</b>
For threads	M.	6-7	7-8	8-10	10	12	14
Seal	mm	5,52	6,65	7,82	8,83	11,22	13,25
Overall length	mm	132	132	189	189	189	189
<b>912GZR</b>	<b>Each</b>	<b>6,72</b>	<b>7,28</b>	<b>8,86</b>	<b>10,30</b>	<b>12,30</b>	<b>14,80</b>

When stocks are depleted, we will provide keys with handles in different form.

**912GZS** SCU



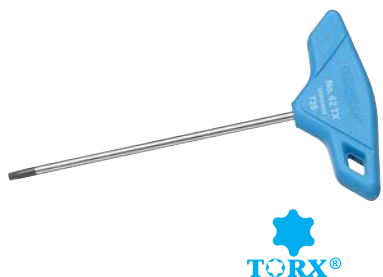
Made from CHROME-VANADIUM steel. For TORX PLUS® screw attachments.  
"T" shaped handle with hole, chrome plated and burnished blade.

For TORX PLUS® screws	IP	<b>9</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>27</b>	<b>30</b>
For threads	M.	3	3-3,5	3,5-4	4-5	4,5-5	4,5-5-6	6-7
Seal	mm	2,50	2,74	3,27	3,86	4,43	4,99	5,52
Overall length	mm	125	125	125	132	182	182	182
<b>912GZS</b>	<b>Each</b>	<b>8,94</b>	<b>9,14</b>	<b>9,22</b>	<b>9,50</b>	<b>9,78</b>	<b>10,10</b>	<b>10,10</b>

For TORX PLUS® screws	IP	<b>40</b>
For threads	M.	7-8
Seal	mm	6,65
Overall length	mm	182
<b>912GZS</b>	<b>Each</b>	<b>10,90</b>

**913G** GEDORE



Orig. Gedore - Art. 42 TX  
In CHROME VANADIUM steel.  
For TORX screws.  
T-handle with hang-up hole, chrome plated blade, burnished tip.

For TORX screws	T	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>15</b>
For threads	M.	1,8	2	2,5	2,5	3	3-3,5	3,5-4
Seal	mm	1,42	1,70	1,99	2,31	2,50	2,74	3,27
Overall length	mm	110	110	110	127	127	127	147
<b>913G</b>	<b>Each</b>	<b>9,06</b>	<b>9,06</b>	<b>9,06</b>	<b>9,06</b>	<b>10,20</b>	<b>10,20</b>	<b>10,20</b>

For TORX screws	T	<b>20</b>	<b>25</b>	<b>27</b>	<b>30</b>	<b>40</b>	<b>45</b>	<b>50</b>
For threads	M.	4-5	4,5-5	4,5-5-6	6-7	7-8	8-10	10
Seal	mm	3,86	4,43	4,99	5,52	6,65	7,82	8,83
Overall length	mm	173,5	173,5	193,5	193,5	213,5	231	246
<b>913G</b>	<b>Each</b>	<b>10,20</b>	<b>11,20</b>	<b>11,20</b>	<b>11,90</b>	<b>14,70</b>	<b>17,70</b>	<b>20,70</b>

**913GD** SCU



Prod. SCU  
In special steel. For TORX screws.  
Double headed model. Bicomponent T-handle (excluded sizes T 45/50) with hang-up hole, nickel-plated blade.

For TORX screws	T	<b>9</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>27</b>	<b>30</b>
For threads	M.	3	3-3,5	3,5-4	4-5	4,5-5	4,5-5-6	6-7
Seal	mm	2,50	2,74	3,27	3,86	4,43	4,99	5,52
Overall length	mm	151	151	151	185	185	185	185
<b>913GD</b>	<b>Each</b>	<b>7,08</b>	<b>7,08</b>	<b>7,18</b>	<b>7,36</b>	<b>7,54</b>	<b>7,74</b>	<b>7,74</b>

For TORX screws	T	<b>40</b>	<b>45</b>	<b>50</b>
For threads	M.	7-8	8-10	10
Seal	mm	6,65	7,82	8,83
Overall length	mm	218	240	240
<b>913GD</b>	<b>Each</b>	<b>8,30</b>	<b>12,70</b>	<b>13,60</b>

When stocks are depleted, we will provide wrenches with handles in different form.

Prices in EURO - VAT not included

**Orig. Gedore - Art. DT 43 KTX**

Made from CHROME-VANADIUM steel. For TORX screw attachments.  
Model is combined with ball end which can be used when tilted at up to 25°, while the other end can be used for routine operations. "T" shaped handle with hole, chrome plated and burnished blade.

For TORX screws	T	10	15	20	25	27	30	40
For threads	M.	3-3,5	3,5-4	4-5	4,5-5	4,5-5-6	6-7	7-8
Seal	mm	2,74	3,27	3,86	4,43	4,99	5,52	6,65
Overall length	mm	150	170	202,5	222,5	242,5	279	309
<b>913GD 3</b>	<b>Each</b>	<b>19,50</b>	<b>21,30</b>	<b>21,10</b>	<b>25,30</b>	<b>24,10</b>	<b>23,60</b>	<b>23,60</b>



**Orig. Gedore - Art. ITX 34**

In CHROME-MOLYBDENUM steel.  
Double end Torx swivel sockets with holes for use as a lever.  
Chrome plated finish, phosphated heads.

For TORX screws	T	15x20	25x27	30x40	45x50	55x60
For threads	M.	3,5-4/4-5	4,5-5/4,5-5-6	6-7/7-8	8-10/10	12/14
Seal	mm	3,27/3,86	4,43/4,99	5,52/6,65	7,82/8,83	11,22/13,25
Overall length	mm	205	208	210	244	280
<b>913GDA</b>	<b>Each</b>	<b>62,10</b>	<b>62,10</b>	<b>62,10</b>	<b>62,10</b>	<b>83,40</b>



**Prod. SCU**

In CHROME VANADIUM steel.  
For TORX screws with hole (Tamper-Torx).  
Screwdriver grip in bicomponent material (excluded size T 45) with hang-up hole, chrome plated blade, burnished tip.

For TORX screws	T	9	10	15	20	25	27	30
For threads	M.	3	3-3,5	3,5-4	4-5	4,5-5	4,5-5-6	6-7
Seal	mm	2,50	2,74	3,27	3,86	4,43	4,99	5,52
Overall length	mm	150	170	170	200	200	215	225
<b>913GDB</b>	<b>Each</b>	<b>5,70</b>	<b>5,88</b>	<b>5,96</b>	<b>6,06</b>	<b>6,16</b>	<b>6,44</b>	<b>6,62</b>



For TORX screws	T	40	45
For threads	M.	7-8	8-10
Seal	mm	6,65	7,82
Overall length	mm	240	240
<b>913GDB</b>	<b>Each</b>	<b>7,28</b>	<b>18,60</b>

When stocks are depleted, we will provide keys with handles in different form.

**SOCKET HEAD SCREW WRENCHES SETS**

**Prod. SCU**

In special steel. For TORX screws.  
Double headed model. Bicomponent T-handle with hang-up hole, nickel-plated blade.  
Set of 8 wrenches Art. 913 GD T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40.  
In rolling tool bag Art. 2076 GBB.

<b>913GDL</b>	<b>Per set</b>	<b>69,00</b>
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When stocks are depleted, we will provide wrenches with handles in different form.



Product description as Art. 913GDL

Set of 8 wrenches Art. 913 GD by T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40.  
With metal support, for workbench.

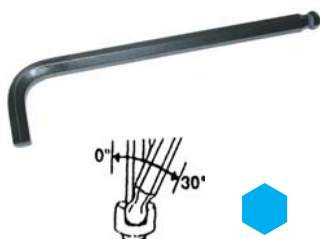
<b>913GDP</b>	<b>Per set</b>	<b>76,10</b>
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When stocks are depleted, we will provide wrenches with handles in different form.



**ALLEN HEAD SCREW WRENCHES**

**913GE SCU**



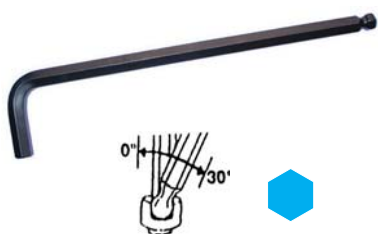
**Prod. SCU**

In CHROME VANADIUM steel.  
Model with a spherical head giving a working angle up to 30° and a head to perform normal working tasks. Sandblasted/burnished finish.

Hexagonal heads in millimeters and US inch sizes.

Hexagon	mm	1,5	2	2,5	3	4	5
Overall length	mm	81	87	92	103	114	133
<b>913GE</b>	<b>Each</b>	<b>0,96</b>	<b>0,98</b>	<b>1,06</b>	<b>1,10</b>	<b>1,46</b>	<b>1,66</b>
Hexagon	mm	6	8	10	12	14	17
Overall length	mm	156	178	200	226	290	330
<b>913GE</b>	<b>Each</b>	<b>2,14</b>	<b>3,52</b>	<b>4,86</b>	<b>7,98</b>	<b>17,70</b>	<b>30,90</b>
Hexagon	inches	1/20	1/16	5/64	3/32	7/64	1/8
Overall length	mm	75	81	87	92	94	103
<b>913GE</b>	<b>Each</b>	<b>0,94</b>	<b>0,96</b>	<b>0,98</b>	<b>1,06</b>	<b>1,08</b>	<b>1,10</b>
Hexagon	inches	9/64	5/32	3/16	7/32	1/4	5/16
Overall length	mm	107	114	133	142	156	178
<b>913GE</b>	<b>Each</b>	<b>1,28</b>	<b>1,46</b>	<b>1,66</b>	<b>1,90</b>	<b>2,14</b>	<b>3,52</b>

**913GF SCU**



**Long patter.**

In CHROME-VANADIUM steel.

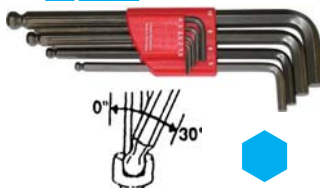
Model with a spherical head giving a working angle up to 30° and a head to perform normal working tasks Sandblasted finish.

Hexagonal heads in millimeters.

Hexagon	mm	1,5	2	2,5	3	4	5
Overall length	mm	91	102	114	129	144	165
<b>913GF</b>	<b>Each</b>	<b>1,12</b>	<b>1,12</b>	<b>1,22</b>	<b>1,28</b>	<b>1,68</b>	<b>1,96</b>
Hexagon	mm	6	7	8	10	12	
Overall length	mm	186	197	208	234	262	
<b>913GF</b>	<b>Each</b>	<b>2,52</b>	<b>3,82</b>	<b>4,02</b>	<b>5,56</b>	<b>8,88</b>	

**ALLEN HEAD SCREW WRENCHES SETS**

**913GF 9 SCU**



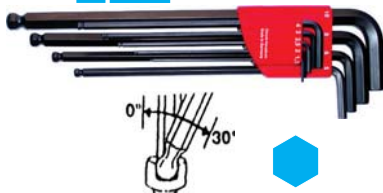
**Prod. SCU**

Set of 9 pcs. Art. 913 GE. Dimensions: 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10mm.

Supplied in a plastic holder.

<b>913GF 9</b>	<b>Per set</b>	<b>21,50</b>
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**913GFA SCU**

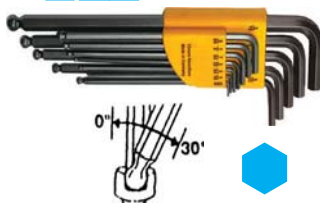


Set of 9 pcs. Art. 913 GF. Dimensions: 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10mm.

Supplied in a plastic holder

<b>913GFA</b>	<b>Per set</b>	<b>24,50</b>
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**913GFP SCU**



Serie di 12 pz. Art. 913 GE da

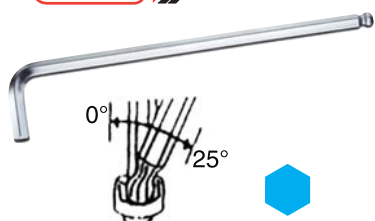
inches. 1/20 - 1/16 - 5/64 - 3/32 - 7/64 - 1/8 - 9/64 - 5/32 - 3/16 - 7/32 - 1/4 - 5/16.

Supplied in a plastic holder

<b>913GFP</b>	<b>Per set</b>	<b>22,20</b>
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**ALLEN HEAD SCREW WRENCHES**

**913GH GEDORE**



**Orig. Gedore - Art. 42 KEL**

LONG type. Made from CHROME-VANADIUM steel.

With spherical head giving a working angle of up to 25° and a head to perform normal tasks.

Chrome finish.

Hexagon	mm	1,5	2	2,5	3	4	5	6
Overall length	mm	92	102	114,5	129	144	165	186
<b>913GH</b>	<b>Each</b>	<b>4,30</b>	<b>4,30</b>	<b>4,30</b>	<b>4,30</b>	<b>5,02</b>	<b>5,66</b>	<b>7,06</b>
Hexagon	mm	7	8	10	12			
Overall length	mm	195	208	234	262			
<b>913GH</b>	<b>Each</b>	<b>10,20</b>	<b>10,20</b>	<b>13,30</b>	<b>17,10</b>			

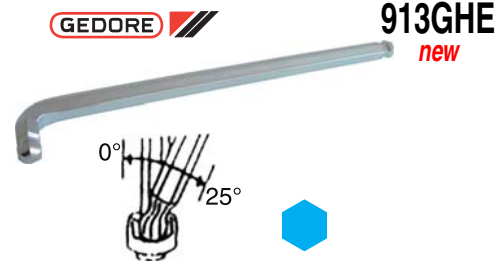
**Orig. Gedore - Art. 42 DKEL**

LONG type. Made of CHROME-VANADIUM steel.  
With double ball end for inclined use up to 25° on both sides. Galvanised finish.

Hexagon	mm	1,5	2	2,5	3	4	5	6
Overall length	mm	89	102	115	129	144	165	186
<b>913GHE</b>	<b>Each</b>	<b>5,48</b>	<b>5,48</b>	<b>5,48</b>	<b>5,48</b>	<b>6,42</b>	<b>7,22</b>	<b>8,96</b>

Hexagon	mm	7	8	10
Overall length	mm	197	205	227
<b>913GHE</b>	<b>Each</b>	<b>13,00</b>	<b>13,00</b>	<b>17,10</b>

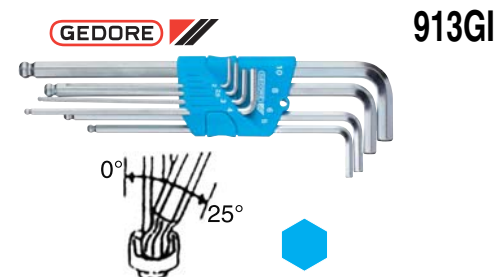


**ALLEN HEAD SCREW WRENCHES SETS**

**Orig. Gedore - Art. H42 KEL-88**

Set of 8 pcs. Art. 913 GH. Dimensions: 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10mm.  
Supplied in a plastic holder.

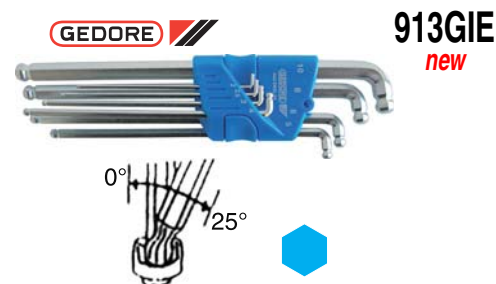
<b>913GI</b>	<b>Per set</b>	<b>31,40</b>
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**Orig. Gedore - Art. H42 DKEL-88**

Set of 8 pcs. Art. 913 GHE mm 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10.  
In plastic holder.

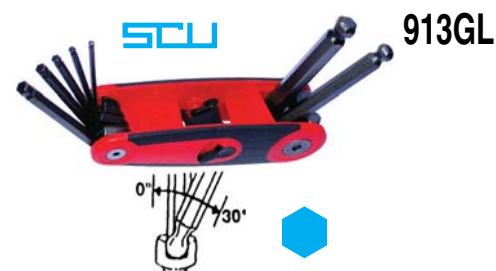
<b>913GIE</b>	<b>Per set</b>	<b>73,10</b>
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**Prod. SCU**

CHROME-VANADIUM steel blades. With pocket holder in dual component material.  
Set of 7 sandblasted blades. Dimensions: 2.5 - 3 - 4 - 5 - 6 - 8 - 10mm.

<b>913GL</b>	<b>Per set</b>	<b>24,70</b>
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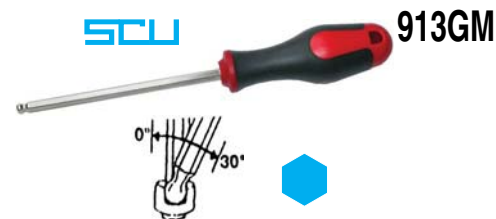
**ALLEN HEAD SCREW WRENCHES**

**Prod. SCU**

In CHROME VANADIUM steel.  
Model with a spherical head giving a working angle up to 30°.  
Screwdriver grip in dual component material. Hang-up hole, Nickel finish.

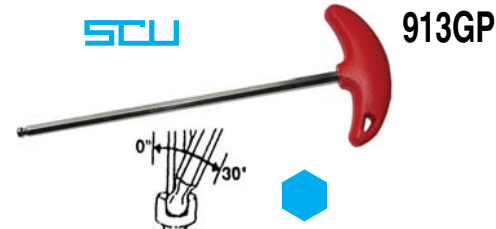
Hexagon	mm	2	2,5	3	4	5	6	8	10
Overall length	mm	190	190	190	200	200	235	260	270
<b>913GM</b>	<b>Each</b>	<b>4,02</b>	<b>4,10</b>	<b>4,20</b>	<b>4,48</b>	<b>5,04</b>	<b>5,88</b>	<b>7,82</b>	<b>10,50</b>

When stocks are depleted, we will provide keys with handles in different form.



Model with spherical head giving a working angle up to 30°.  
"T" handle with hang-up hole. CHROME VANADIUM nickel finish.

Hexagon	mm	3	4	5	6	8	10
Overall length	mm	125	175	182	232	232	239
<b>913GP</b>	<b>Each</b>	<b>3,36</b>	<b>4,30</b>	<b>4,76</b>	<b>5,60</b>	<b>7,54</b>	<b>12,40</b>

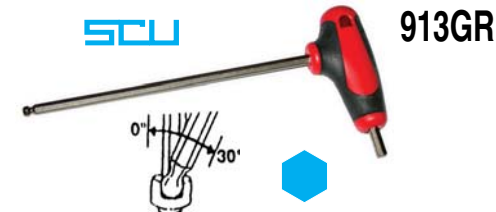


In CHROME VANADIUM steel.  
Model with a spherical head giving a working angle up to 30° and a head to perform normal working tasks.

Bicomponent "T" handle, holed. Nickel finish.

Hexagon	mm	3	4	5	6	8	10
Overall length	mm	151	151	184	184	218	218
<b>913GR</b>	<b>Each</b>	<b>5,56</b>	<b>6,02</b>	<b>6,56</b>	<b>7,26</b>	<b>8,74</b>	<b>13,90</b>

When stocks are depleted, we will provide wrenches with handles in different form.



**ALLEN HEAD SCREW WRENCHES SETS**

913GT


**Prod. SCU**

In CHROME VANADIUM steel.

Model with a spherical head giving a working angle up to 30° and a head to perform normal working tasks.

Bicomponent "T" handle, holed. Nickel finish.

Set of 6 wrenches Art. 913 GR 3 - 4 - 5 - 6 - 8 - 10mm.

In rolling tool bag Art. 2076 GB.

<b>913GT</b>	Per set	<b>56,66</b>
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When stocks are depleted, we will provide wrenches with handles in different form.

913GV




Product description as Art. 913GT

Set of 7 wrenches Art. 913 GR 3 - 4 - 5 - 6 - 8mm and Art. 915 GC 2 - 2.5mm.

With metal support, for workbench.

<b>913GV</b>	Per set	<b>61,10</b>
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Size mm 2 and 2,5 have both the extremity for normal use (Art. 915 GC).

When stocks are depleted, we will provide wrenches with handles in different form.

**ALLEN HEAD WRENCHES WITH HOLES**

913GZ


**Prod. SCU**

In CHROME VANADIUM steel DIN 6911, burnished finish.

For Allen screws and hole for pin DIN 6912.

Hexagon	mm	3	4	5	6	8	10	12	
Overall length	mm	63	71	80	90	100	112	125	
<b>913GZ</b>	Each	<b>0,64</b>	<b>0,68</b>	<b>0,76</b>	<b>0,96</b>	<b>1,52</b>	<b>2,28</b>	<b>3,80</b>	
Hexagon	mm	14	17						
Overall length	mm	140	160						
<b>913GZ</b>	Each	<b>6,46</b>	<b>12,60</b>						

**ALLEN HEAD WRENCHES WITH SECURITY PINS**

913GZA


**Prod. SCU**

In CHROME VANADIUM steel, zinc finish.

For Allen screws and security pin.

Hexagon	mm	2,5	3	4	5	6	8
Overall length	mm	58	66	74	85	96	108
<b>913GZA</b>	Each	<b>1,78</b>	<b>2,14</b>	<b>2,24</b>	<b>2,44</b>	<b>2,62</b>	<b>3,08</b>

**ALLEN HEAD SCREW WRENCHES**

914


**Prod. SCU**

In special steel, chromated finish. First quality with rounded off head for a perfect fit with the screw.

Hexagon	mm	1,5	2	2,5	3	3,5	4	5	5,5	
Overall length	mm	46	52	58	66	69	74	85	90	
For screws Ø	mm	2	2,5	3	4	-	5	6	-	
<b>914</b>	Each	<b>0,10</b>	<b>0,12</b>	<b>0,14</b>	<b>0,14</b>	<b>0,18</b>	<b>0,20</b>	<b>0,30</b>	<b>0,42</b>	
Hexagon	mm	6	7	8	9	10	12	14	17	
Overall length	mm	96	102	108	114	112	125	140	160	
For screws Ø	mm	8	9	10	-	12	14	16-18	20-22	
<b>914</b>	Each	<b>0,48</b>	<b>0,76</b>	<b>0,96</b>	<b>1,40</b>	<b>1,70</b>	<b>2,36</b>	<b>3,68</b>	<b>6,16</b>	
Hexagon	mm	19	22	24	27	30	32	36		
Overall length	mm	180	200	224	250	280	315	355		
For screws Ø	mm	24-27	30	33	36	-	42	48		
<b>914</b>	Each	<b>8,90</b>	<b>14,70</b>	<b>18,90</b>	<b>26,40</b>	<b>38,30</b>	<b>47,40</b>	<b>69,10</b>		

**Orig. Gedore - Art. 42**

In CHROME VANADIUM steel, chrome plated finish DIN ISO 2936. Rounded off heads for a perfect fit with the screw.

Hexagon	mm	0,7	0,9	1,3	1,5	2	2,5	3	4
Overall length	mm	33	33	41	46,5	52	58,5	66	74
For screws Ø	mm	-	-	-	2	2,5	3	4	5
<b>914G</b>	<b>Each</b>	<b>1,00</b>	<b>1,00</b>	<b>0,84</b>	<b>0,84</b>	<b>0,78</b>	<b>0,80</b>	<b>1,16</b>	<b>1,58</b>
Hexagon	mm	5	5,5	6	7	8	9	10	12
Overall length	mm	85	85	96	102	108	114	122	137
For screws Ø	mm	6	-	8	9	10	11	12	14
<b>914G</b>	<b>Each</b>	<b>1,58</b>	<b>1,86</b>	<b>1,64</b>	<b>2,14</b>	<b>2,70</b>	<b>3,32</b>	<b>4,22</b>	<b>6,18</b>
Hexagon	mm	14	17	19	22	24	27	30	32
Overall length	mm	154	177	199	222	248	277	315	347
For screws Ø	mm	16-18	20-22	24-27	30	33	36	-	48
<b>914G</b>	<b>Each</b>	<b>11,70</b>	<b>18,60</b>	<b>21,20</b>	<b>30,80</b>	<b>38,20</b>	<b>53,40</b>	<b>77,60</b>	<b>110,00</b>



**914G**



**3**

Product description as Art. 914G

Hexagonal heads in US inch sizes.

Hexagon	inches	3/64	1/16	5/64	3/32	1/8	5/32	3/16	7/32
Hexagon	mm	1,19	1,59	2	2,38	3,17	3,97	4,76	5,5
<b>914GA</b>	<b>Each</b>	<b>0,80</b>	<b>0,80</b>	<b>0,78</b>	<b>0,78</b>	<b>0,98</b>	<b>1,52</b>	<b>1,78</b>	<b>1,86</b>
Hexagon	inches	1/4	5/16	3/8	1/2	9/16	5/8	3/4	
Hexagon	mm	6,35	7,94	9,52	12,7	14,29	15,87	19,05	
<b>914GA</b>	<b>Each</b>	<b>1,78</b>	<b>2,58</b>	<b>3,74</b>	<b>6,66</b>	<b>11,30</b>	<b>14,70</b>	<b>22,10</b>	



**914GA**



**Prod. SCU**

In special steel, chromated finish. Fine quality with rounded off head for a perfect fit with the screw.

Hexagonal heads in US inch sizes.

Hexagon	inches	3/64	0,05	1/16	5/64	3/32	1/8	5/32
Hexagon	mm	1,19	1,27	1,59	1,98	2,38	3,18	3,97
<b>914GAP</b>	<b>Each</b>	<b>0,10</b>	<b>0,10</b>	<b>0,10</b>	<b>0,12</b>	<b>0,12</b>	<b>0,16</b>	<b>0,28</b>
Hexagon	inches	3/16	7/32	1/4	5/16	3/8	1/2	9/16
Hexagon	mm	4,76	5,56	6,35	7,94	9,53	12,7	14,29
<b>914GAP</b>	<b>Each</b>	<b>0,30</b>	<b>0,42</b>	<b>0,52</b>	<b>1,06</b>	<b>1,84</b>	<b>3,36</b>	<b>3,98</b>
Hexagon	inches	5/8	3/4	1				
Hexagon	mm	15,88	19,05	25,4				
<b>914GAP</b>	<b>Each</b>	<b>5,74</b>	<b>9,88</b>	<b>27,10</b>				



**914GAP**



**Orig. Gedore - Art. 42EL**

Extra-long model.

In CHROME VANADIUM steel, chrome plated finish DIN ISO 2936. Rounded off heads for a perfect fit with the screw.

Hexagon	mm	2	2,5	3	4	5	6	8
Overall length	mm	102	114,5	129	144	165	186	208
For screws Ø	mm	2,5	3	4	5	6	8	10
<b>914GB</b>	<b>Each</b>	<b>1,72</b>	<b>1,72</b>	<b>2,20</b>	<b>2,52</b>	<b>3,28</b>	<b>4,16</b>	<b>6,00</b>
Hexagon	mm	10	12	14				
Overall length	mm	234	262	294				
For screws Ø	mm	12	14	16-18				
<b>914GB</b>	<b>Each</b>	<b>10,50</b>	<b>14,50</b>	<b>21,40</b>				



**914GB**



**Prod. SCU**

Extra-long model.

In special steel, chromated finish. Fine quality with rounded off heads for a perfect fit with the screw.

Hexagon	mm	1,5	2	2,5	3	4	5	6
Overall length	mm	91	102	114	129	144	165	186
For screws Ø	mm	2	2,5	3	4	5	6	8
<b>914GBA</b>	<b>Each</b>	<b>0,22</b>	<b>0,22</b>	<b>0,24</b>	<b>0,30</b>	<b>0,44</b>	<b>0,84</b>	<b>1,10</b>
Hexagon	mm	8	10	12	14	17	19	
Overall length	mm	208	234	262	294	337	379	
For screws Ø	mm	10	12	14	16-18	20-22	24-27	
<b>914GBA</b>	<b>Each</b>	<b>1,98</b>	<b>3,24</b>	<b>4,76</b>	<b>7,70</b>	<b>13,60</b>	<b>17,20</b>	



**914GBA**



914GBP 

Product description as Art. 914GBA

Hexagonal heads in US inch sizes.

Hexagon	inches	1/16	5/64	3/32	1/8	9/64	5/32	3/16
Overall length	mm	92	102	114	129	136	144	165
<b>914GBP</b>	<b>Each</b>	<b>0,22</b>	<b>0,22</b>	<b>0,24</b>	<b>0,30</b>	<b>0,44</b>	<b>0,44</b>	<b>0,84</b>
Hexagon	inches	7/32	1/4	9/32	5/16	11/32	3/8	7/16
Overall length	mm	160	186	190	208	210	234	236
<b>914GBP</b>	<b>Each</b>	<b>0,92</b>	<b>1,10</b>	<b>1,36</b>	<b>1,98</b>	<b>2,48</b>	<b>3,24</b>	<b>3,80</b>
Hexagon	inches	1/2	9/16	5/8	3/4			
Overall length	mm	293	294	290	360			
<b>914GBP</b>	<b>Each</b>	<b>5,90</b>	<b>7,70</b>	<b>12,50</b>	<b>17,20</b>			

## ALLEN HEAD SCREW WRENCHES SETS

914GC 7 

914GC 9

914GC 11

914GC 11P

914GC 14



Prod. SCU

Set of 7 pcs. Art. 914. Dimensions: 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6mm.

Supplied in plastic bag.

**914GC 7** Per set **2,70**

Set of 9 pcs. Art. 914. Dimensions: 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10mm.

Supplied in plastic bag.

**914GC 9** Per set **5,64**

Set of 11 pcs. Art. 914. Dimensions: 1.5 - 2 - 2.5 - 3 - 4 - 5 - 5.5 - 6 - 7 - 8 - 10mm.

Supplied in plastic bag.

**914GC 11** Per set **6,76**

Set of 11 pcs. Art. 914 GAP.

Inch sizes: 1/16 - 5/64 - 3/32 - 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 3/8.

Supplied in plastic bag.

**914GC 11P** Per set **7,52**

Set of 14 pcs. Art. 914. Dimensions: 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 - 17 - 19 - 22mm.

Supplied in plastic bag.

**914GC 14** Per set **66,90**914GD 7 

914GD 8

914GD 9

914GD 10

914GF 7

914GF 9



Orig. Gedore - Art. 42-07

Set of 7 pcs. Art. 914 G. Dimensions: 2 - 2.5 - 3 - 4 - 5 - 6 - 8mm.

Supplied in plastic bag.

**914GD 7** Per set **11,60**

Orig. Gedore - Art. 42-08

Set of 8 pcs Art. 914 G. Dimensions: 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14mm.

Supplied in plastic bag.

**914GD 8** Per set **35,10**

Orig. Gedore - Art. 42-09

Set of 9 pcs. Art. 914 G. Dimensions: 2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 10mm.

Supplied in plastic bag.

**914GD 9** Per set **18,50**

Orig. Gedore - Art. 42-010

Set of 10 pcs. Art. 914 G. Dimensions: 2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10mm.

Supplied in plastic bag.

**914GD 10** Per set **21,82**

Orig. Gedore - Art. 42-07A

Set of 7 pcs. Art. 914 GA. Inch sizes: 5/64 - 3/32 - 1/8 - 5/32 - 3/16 - 7/32 - 1/4.

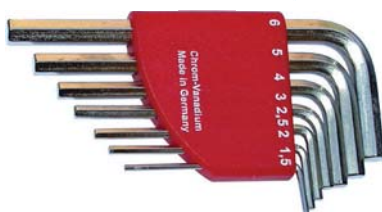
Supplied in plastic bag.

**914GF 7** Per set **11,80**

Orig. Gedore - Art. 42-09A

Set of 9 pcs. Art. 914 GA. Inch sizes: 5/64 - 3/32 - 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 5/16 - 3/8.

Supplied in plastic bags.

**914GF 9** Per set **17,60**914GF 70 

Prod. SCU

Set of 7 pcs. Art. 914. Dimensions: 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6mm.

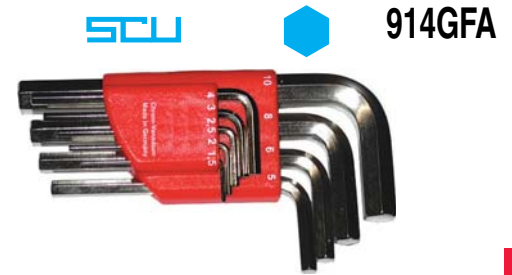
Supplied in a plastic holder.

**914GF 70** Per set **4,70**



Set of 9 pcs. Art. 914. Dimensions: 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10mm.  
Supplied in a plastic holder.

**914GFA** Per set **8,58**



Set of 10 pcs. Art. 914. Dimensions: 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 - 12mm.  
Supplied in a plastic holder.

**914GFB** Per set **13,50**



**3**

Set of 9 pcs Art. 914 GAP. Inch sizes: 1/16 - 5/64 - 3/32 - 1/8 - 5/32 - 3/16 - 1/4 - 5/16 - 3/8.  
Supplied in a plastic holder.

**914GFE** Per set **9,04**



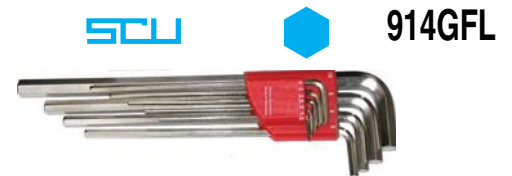
Set of 10 pcs. Art. 914 GAP. Inch sizes: 1/16 - 5/64 - 3/32 - 1/8 - 5/32 - 3/16 - 1/4 - 5/16 - 3/8-1/2.  
Supplied in a plastic holder.

**914GFH** Per set **13,50**



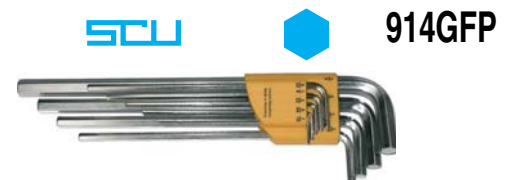
Set of 9 pcs. Art. 914 GBA. Dimensions: 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10mm.  
Supplied in a plastic holder.

**914GFL** Per set **16,60**



Set of 9 pcs. Art. 914 GBP. Inch sizes: 1/16 - 5/64 - 3/32 - 1/8 - 5/32 - 3/16 - 1/4 - 5/16 - 3/8.  
Supplied in a plastic holder.

**914GFP** Per set **15,40**



**Orig. Gedore - Art. PH 42-88**

Set of 8 pcs. Art. 914 G. Dimensions: 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10mm. Supplied in a plastic holder.

**914GH** Per set **16,60**



**914GH 1** 

**Orig. Gedore - Art. H 42-10**

 Set of 10 pcs. Art. 914 G. Dimensions: 1.3 - 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10mm.  
 Supplied in a plastic holder.

**914GH 1** Per set **20,60**
**914GH 2** 

**Orig. Gedore - Art. H42-88A**

 Set of 8 pcs. Art. 914 GA. Inch sizes: 5/64 - 3/32 - 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 5/16.  
 Supplied in a plastic holder.

**914GH 2** Per set **14,90**
**914GH 3** 

**Orig. Gedore - Art. H 42 EL-88**

 Set of 8 pcs. Art. 914 GB. Dimensions: 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10mm.  
 Supplied in a plastic holder.

**914GH 3** Per set **38,20**
**914GL**   
**914GM 8**

**Orig. Gedore - Art. S 42-07**

 Set of 7 pcs. Art. 914 G. Dimensions: 2 - 2.5 - 3 - 4 - 5 - 6 - 8mm.  
 With ring holder.

**914GL** Per set **13,30**
**Prod. SCU**

 Set of 8 pcs. Art. 914. Dimensions: 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10mm.  
 With ring holder.

**914GM 8** Per set **4,56**
**914GMP** 

 Set of 8 pcs. Art. 914 GAP. Inch sizes: 5/64 - 3/32 - 1/8 - 5/32 - 3/16 - 1/4 - 5/16 - 3/8.  
 With ring holder.

**914GMP** Per set **8,60**
**914GN**   
**914GR**

**Orig. Gedore - Art. SCL 42-70**

 Blades made of vanadium-chrome steel, with robust metal pocket holder.  
 Chrome plated finish.

Set of 7 blades. Dimensions: 2.5 - 3 - 4 - 5 - 6 - 8 - 10mm.

**914GN** Per set **28,10**
**Orig. Gedore - Art. SCL 42-90 A**

Product description as Art. 914GN

Set of 9 blades. Inch-sizes: 5/64 - 3/32 - 7/64 - 1/8 - 9/64 - 5/32 - 3/16 - 7/32 - 1/4.

**914GR** Per set **29,20**
**914GS** 

**Prod. SCU**

CHROME-VANADIUM steel blades. With robust pocket holder in dual component material.

Set of 7 burnished blades. Dimensions: 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6mm.

**914GS** Per set **13,10**

Product description as Art. 914GS

Set of 7 burnished blades. Dimensions: 2.5 - 3 - 4 - 5 - 6 - 8 - 10mm.

**914GT** Per set **17,30**

Product description as Art. 914GS

Set of 7 burnished blades: Inch-sizes 3/32 - 1/8 - 5/32 - 3/16 - 1/4 - 5/16 - 3/8.

**914GTP** Per set **17,30**



**914GT**  
**914GTP**

### ALLEN HEAD SCREW WRENCHES

#### Prod. SCU

In CHROME VANADIUM steel.

Screwdriver grip in bi-component material (excluded size 1,5 mm), with hang-up hole.

Nickel finish.

Hexagon	mm	1,5	2	2,5	3	4	5	6
Overall length	mm	140	150	165	165	175	175	210
<b>914GV</b>	<b>Each</b>	<b>2,96</b>	<b>2,44</b>	<b>2,62</b>	<b>2,62</b>	<b>2,80</b>	<b>3,46</b>	<b>4,48</b>

When stocks are depleted, we will provide wrenches with handles in different form.



**914GV**

In CHROME VANADIUM steel.

"T" handle with hang-up hole. Nickel finish.

Hexagon	mm	2	2,5	3	4	5	6	7
Blade length	mm	100	100	150	150	200	200	200
Overall length	mm	125	125	175	175	232	232	232
<b>914GZ</b>	<b>Each</b>	<b>3,08</b>	<b>3,18</b>	<b>3,18</b>	<b>3,28</b>	<b>4,20</b>	<b>4,38</b>	<b>5,32</b>

Hexagon	mm	8	10	12	14
Blade length	mm	200	200	200	300
Overall length	mm	232	239	239	339
<b>914GZ</b>	<b>Each</b>	<b>5,22</b>	<b>9,14</b>	<b>12,10</b>	<b>15,40</b>



**914GZ**

#### Orig. Gedore - Art. 42 T

In CHROME VANADIUM steel.

T-handle with hang-up hole. Chrome plated finish.

Hexagon	mm	2	2,5	3	4	5	6	7
Blade length	mm	130	160	190	210	240	270	290
Overall length	mm	162	180	210	242,5	272,5	302,5	329
<b>915GA</b>	<b>Each</b>	<b>8,78</b>	<b>8,92</b>	<b>9,00</b>	<b>10,30</b>	<b>11,20</b>	<b>12,10</b>	<b>13,60</b>

Hexagon	mm	8	10
Blade length	mm	310	330
Overall length	mm	349	369
<b>915GA</b>	<b>Each</b>	<b>15,10</b>	<b>24,50</b>



**915GA**

#### Prod. SCU

Made from CHROME-VANADIUM steel.

Double headed model. "T" handle made from bi-component material, nickel plated finish.

Hexagon	mm	2	2,5	3	4	5	6	8	10
Blade length	mm	125	125	125	125	150	150	175	175
Overall length	mm	151	151	151	151	185	185	218	218
<b>915GC</b>	<b>Each</b>	<b>5,46</b>	<b>5,56</b>	<b>5,28</b>	<b>5,72</b>	<b>6,28</b>	<b>6,78</b>	<b>8,08</b>	<b>13,10</b>

When stocks are depleted, we will provide keys with handles in different form.



**915GC**

#### Orig. Gedore - Art. DT42

In CHROME VANADIUM steel.

Double headed. "T" handle with hang-up hole. Chrome plated finish.

Hexagon	mm	2	2,5	3	4	5	6	7
Blade length	mm	87	107	127	141	161	181	192
Overall length	mm	107	127	147	173	193	213	231
<b>915GE</b>	<b>Each</b>	<b>9,34</b>	<b>9,58</b>	<b>10,10</b>	<b>11,10</b>	<b>11,60</b>	<b>12,40</b>	<b>13,90</b>

Hexagon	mm	8	10
Blade length	mm	205	222
Overall length	mm	246	261
<b>915GE</b>	<b>Each</b>	<b>15,30</b>	<b>24,50</b>



**915GE**

**ALLEN HEAD SCREW WRENCHES SETS**
**915GEL** 

**Prod. SCU**

In CHROME VANADIUM steel.  
 Double headed model. Bicomponent T-handle, nichel plated finish.  
 Set of 8 wrenches Art. 915 GC 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10mm.  
 In rolling tool bag Art. 2076 GBB.

<b>915GEL</b>	Per set	<b>65,24</b>
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When stocks are depleted, we will provide wrenches with handles in different form.

**915GEP** 


Product description as Art. 915GEL

Set of 7 wrenches Art. 915 GC 2 - 2.5 - 3 - 4 - 5 - 6 - 8mm.  
 With metal support, for workbench.

<b>915GEP</b>	Per set	<b>59,10</b>
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When stocks are depleted, we will provide wrenches with handles in different form.

**ALLEN HEAD SCREW WRENCHES**
**915GF** 

**Orig. Gedore - Art. IN 34**

In CHROME-MOLYBDENUM steel.  
 Double end swivel sockets with holes for use as a lever.  
 Chrome plated finish, phosphated heads.

Opening	mm	<b>3x4</b>	<b>5x6</b>	<b>8x10</b>	<b>12x14</b>	<b>17x19</b>
Overall length	mm	198	202	235	270	295
<b>915GF</b>	Each	<b>62,70</b>	<b>59,90</b>	<b>68,20</b>	<b>87,50</b>	<b>99,30</b>

**DRAIN PLUG SPANNERS**
**915GP** 

**Orig. Gedore - Art. 299**

Made from hardened CHROME-VANADIUM steel.  
 With 5 square fixing plates 8.7 - 9.5 - 10.5 - 11.5 - 13mm, 4 conical square fixing plates 6.8 to 8.7 - 10.5 to 13 - 15.2 to 18 - 16.5 to 19 and 1 cutter blade 18x5.5mm. For use on square box drain plugs and drum and bin seals.  
 Chrome finish. Total length 220mm.

<b>915GP</b>	Each	<b>36,80</b>
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**SPARK PLUG SPANNERS**
**915GS** 

**Orig. Carolus - Art. 5180.16**

In special steel, hardened. Chrome plated finish.  
 Length: 63mm. 1/2" square drive. Magnetic system for retaining the spark plug.

Opening	mm	16
<b>915GS</b>	Each	<b>10,60</b>

**915GV** 

**Orig. Carolus - Art. 5180.21**

In special steel, hardened. Chrome plated finish.  
 Length: 70mm. 1/2" square drive. Magnetic system for retaining the spark plug.

Opening	mm	21
<b>915GV</b>	Each	<b>11,80</b>

**Prod. SCU**

In special hardened steel. Chrome plated finish.  
Ball joint and ring for retaining the spark plug.  
Length: 110mm.

Opening	mm	16	21
<b>916GF</b>	<b>Each</b>	8,12	7,32



**916GF**

Steel model. Nickel finish. Commercial quality.

Opening	mm	16	19	21
<b>916L</b>	<b>Each</b>	1,36	1,44	1,44



**916L**

**3**

In hardened steel. Heavy duty. Chrome plated finish.

Tube model with double opening 16x21 mm and ring for retaining the spark plug (only for 21 opening).

Without sliding bar. Sliding bar: see Art. 900 Ax8.

Overall length	mm	190
<b>916P</b>	<b>Each</b>	14,60



**916P**

**Orig. Gedore - Art. D48**

In CHROME VANADIUM steel. Chrome plated finish.

Double socket type with 16 x 20.8mm opening. Swivel lever with grip.

Overall length	mm	230
<b>917GT</b>	<b>Each</b>	30,50



**917GT**

**Prod. SCU**

Standard model. In steel. With jointed socket.  
T-handle, plastic coated.

Opening	mm	21
Overall length	mm	230
<b>917N</b>	<b>Each</b>	5,38



**917N**

CHROME VANADIUM steel. Chrome plated finish.

Double cardan joint and ring for retaining the spark plug.

Art.	<b>918A</b>	<b>918B</b>	
Opening	mm	16	20,8
Overall length	mm	480	480
<b>Each</b>	<b>34,90</b>	<b>36,20</b>	



**918A**

**918B**

**Orig. Gedore**

Heavy welding type.

In CHROME VANADIUM steel. Chrome plated steel.

Inside spring for retaining the spark plug.

Art.	<b>918GL</b>	<b>918GP</b>	
Opening	mm	16	20,8
Overall length	mm	500	500
Supplier code	58	58	
<b>Each</b>	<b>54,70</b>	<b>54,70</b>	



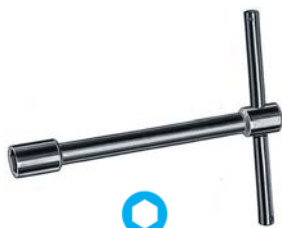
**918GL**

**918GP**

For pliers for spark plugs see Art. 378 GM.

**SOCKET WRENCHES WITH TOMMY BAR**

919


**Prod. SCU**

Short type.  
Made from alloyed steel. Sliding handle.  
Galvanised finish.  
Hexagonal open ended.

Opening	mm	4	5	6	7	8	9	10
Overall length	mm	50	60	70	80	90	100	112
<b>919</b>	<b>Each</b>	<b>3,66</b>	<b>3,66</b>	<b>3,66</b>	<b>4,02</b>	<b>4,02</b>	<b>4,16</b>	<b>4,16</b>
Opening	mm	11	12	13	14			
Overall length	mm	125	142	156	170			
<b>919</b>	<b>Each</b>	<b>4,42</b>	<b>4,42</b>	<b>4,72</b>	<b>4,72</b>			

919L




Product description as Art. 919

Square open ended.

Opening	mm	4	5	6	7	8	9	10
Overall length	mm	50	60	70	80	90	100	112
<b>919L</b>	<b>Each</b>	<b>3,66</b>	<b>3,66</b>	<b>3,66</b>	<b>4,02</b>	<b>4,02</b>	<b>4,16</b>	<b>4,16</b>
Opening	mm	11	12	13	14			
Overall length	mm	125	142	156	170			
<b>919L</b>	<b>Each</b>	<b>4,42</b>	<b>4,42</b>	<b>4,72</b>	<b>4,72</b>			

920



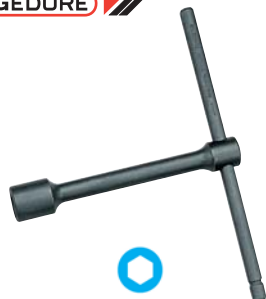

Hexagonal open end. Sliding handle.

In CHROME VANADIUM steel. Chrome plated finish.

Opening	mm	6	7	8	9	10	11	12
Overall length	mm	215	215	230	230	240	260	260
<b>920</b>	<b>Each</b>	<b>11,70</b>	<b>11,70</b>	<b>11,70</b>	<b>11,70</b>	<b>15,60</b>	<b>15,60</b>	<b>18,30</b>
Opening	mm	13	14	15	16	17	18	19
Overall length	mm	260	280	280	280	280	280	300
<b>920</b>	<b>Each</b>	<b>18,30</b>	<b>21,60</b>	<b>21,60</b>	<b>26,60</b>	<b>25,50</b>	<b>26,90</b>	<b>27,30</b>
Opening	mm	20*	21*	22	23*	24	25*	26*
Overall length	mm	300	300	310	310	315	315	315
<b>920</b>	<b>Each</b>	<b>25,30</b>	<b>22,90</b>	<b>32,30</b>	<b>29,30</b>	<b>38,20</b>	<b>33,80</b>	<b>30,70</b>
Opening	mm	27*	28*	32*				
Overall length	mm	315	320	320				
<b>920</b>	<b>Each</b>	<b>34,10</b>	<b>30,90</b>	<b>51,50</b>				

\* Sizes running out of stock.

920GC


**Orig. Gedore - Art. DS 35 A**

In CHROME VANADIUM steel.

Extra sturdy model with sliding and lockable handle.

Wide hexagonal opening. Phosphated finish.

Short pattern.

Opening	mm	10	13	14	16	17	19	22
Overall length	mm	115	130	140	145	145	165	185
<b>920GC</b>	<b>Each</b>	<b>32,20</b>	<b>34,10</b>	<b>37,60</b>	<b>49,30</b>	<b>48,40</b>	<b>50,10</b>	<b>70,20</b>
Opening	mm	24	27	30	36	46		
Overall length	mm	205	215	225	260	290		
<b>920GC</b>	<b>Each</b>	<b>72,90</b>	<b>84,30</b>	<b>96,90</b>	<b>128,00</b>	<b>197,00</b>		

Size mm 16 running out of stock.

920GL


**Orig. Gedore - Art. DS 35 B**

Product description as Art. 920GC

Long pattern.

Opening	mm	8	10	13	14	17	18	19
Overall length	mm	175	200	235	250	270	270	295
<b>920GL</b>	<b>Each</b>	<b>43,80</b>	<b>43,80</b>	<b>46,10</b>	<b>50,60</b>	<b>57,70</b>	<b>56,90</b>	<b>59,20</b>
Opening	mm	21	22	24	27	30	32	36
Overall length	mm	305	315	350	390	430	440	490
<b>920GL</b>	<b>Each</b>	<b>87,60</b>	<b>90,10</b>	<b>91,60</b>	<b>93,30</b>	<b>109,00</b>	<b>109,00</b>	<b>155,00</b>

Sizes 14, 18 and 21 running out of stock.

**Orig. Gedore - Art. DSV 35 A**

In CHROME VANADIUM steel.

Extra sturdy model with sliding and lockable handle.

Wide square opening. Phosphated finish.

Short pattern.

Opening	mm	7	8	9	10	11	13	17
Overall length	mm	80	80	100	100	100	100	160
<b>921GC</b>	<b>Each</b>	<b>39,80</b>	<b>38,70</b>	<b>40,90</b>	<b>43,40</b>	<b>52,50</b>	<b>62,40</b>	<b>77,90</b>

Opening	mm	19	22
Overall length	mm	200	200
<b>921GC</b>	<b>Each</b>	<b>86,20</b>	<b>93,10</b>

Sizes mm 8, 9 and 11 running out of stock.


**3**
**Orig. Gedore - Art. DSV 35 B**

Product description as Art. 921GC

Long pattern.

Opening	mm	6	7	8	9	10	12	13
Overall length	mm	160	160	160	200	200	200	200
<b>921GL</b>	<b>Each</b>	<b>45,90</b>	<b>46,10</b>	<b>46,10</b>	<b>52,80</b>	<b>44,10</b>	<b>52,30</b>	<b>59,40</b>

Opening	mm	14	17	19	22
Overall length	mm	200	250	320	320
<b>921GL</b>	<b>Each</b>	<b>61,60</b>	<b>84,80</b>	<b>99,10</b>	<b>113,00</b>

Size mm 9 running out of stock.


**ALLEN HEAD WRENCHES "T" TYPE**
**Orig. Gedore - Art. DTT42**

High-quality model.

In CHROME VANADIUM steel. Pinned rod for very high torque values.

Three-headed model with transversal rod fixed in asymmetric position to guarantee openings of different width. Chrome plated finish. Burnished heads.

Hexagon	mm	3	4	5	6	8	10
Length x width	mm	150x75	180x90	180x90	210x105	250x125	300x150
<b>921GLE</b>	<b>Each</b>	<b>23,30</b>	<b>23,30</b>	<b>24,10</b>	<b>27,20</b>	<b>33,60</b>	<b>40,50</b>


**Prod. SCU**

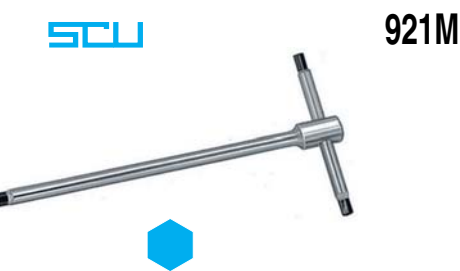
High quality model.

In CHROME VANADIUM steel. Pinned rod for high torque values.

Three-headed model. Chrome plated finish. Burnished heads up to 6mm.

Hexagon	mm	2	2,5	3	3,5	4	4,5	5
Length x width	mm	127x62	127x62	135x65	135x65	175x90	175x90	180x90
<b>921M</b>	<b>Each</b>	<b>13,30</b>	<b>13,30</b>	<b>13,30</b>	<b>13,90</b>	<b>15,70</b>	<b>16,50</b>	<b>15,70</b>

Hexagon	mm	6	7	8	9	10	12	14
Length x width	mm	210x105	210x105	245x125	275x140	295x150	322x160	334x170
<b>921M</b>	<b>Each</b>	<b>17,10</b>	<b>17,80</b>	<b>19,50</b>	<b>25,20</b>	<b>25,20</b>	<b>31,30</b>	<b>37,70</b>



SCU



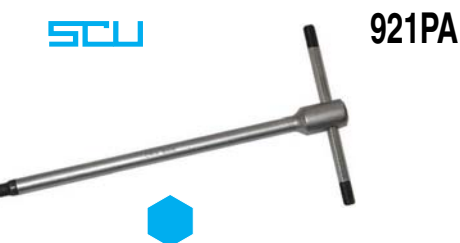
Model with optimal quality/price ratio.

In CHROME-VANADIUM steel. Round rod and hexagonal arm.

Three-headed model. Chrome-plated finish. Burnished heads.

Hexagon	mm	2	2,5	3	4	5	6	8
Length x width	mm	130x65	130x65	130x65	180x90	180x90	210x105	250x125
<b>921PA</b>	<b>Each</b>	<b>9,44</b>	<b>9,44</b>	<b>9,62</b>	<b>10,00</b>	<b>10,20</b>	<b>11,70</b>	<b>16,70</b>

Hexagon	mm	10	12	14
Length x width	mm	300x145	320x160	340x170
<b>921PA</b>	<b>Each</b>	<b>20,70</b>	<b>24,10</b>	<b>26,90</b>



SCU


**SOCKET HEAD SCREW WRENCHES "T" TYPE**
**Prod. SCU**

Excellent quality model to price ration.

Made from CHROME-VANADIUM steel. Long, round stem and short, slideable hexagonal rod.

3 head model which can be used with interior TORX head screws. Chrome finish. Burnished heads.

For TORX screws	T	6	7	8	9	10	15	20
Length x width	mm	123x65	123x65	123x65	126x65	126x65	126x65	126x65
<b>921PL</b>	<b>Each</b>	<b>11,10</b>	<b>11,10</b>	<b>11,10</b>	<b>11,10</b>	<b>11,10</b>	<b>11,10</b>	<b>11,10</b>

For TORX screws	T	25	27	30	40	45
Length x width	mm	180x90	180x90	180x90	210x105	210x105
<b>921PL</b>	<b>Each</b>	<b>12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>16,30</b>	<b>16,30</b>



SCU



921R SCU



High quality model.  
In CHROME VANADIUM steel. Welded rod.  
Three-headed model, for TORX screws. Chrome plated finish. Burnished heads.

For TORX screws	T	6	7	8	9	10	15	20
Length x width	mm	125x62	125x62	125x62	125x62	150x62	150x62	150x62
<b>921R</b>	<b>Each</b>	<b>13,80</b>	<b>13,80</b>	<b>13,80</b>	<b>13,80</b>	<b>12,70</b>	<b>12,70</b>	<b>12,70</b>

For TORX screws	T	25	27	30	40	45
Length x width	mm	180x90	180x90	180x90	210x105	210x105
<b>921R</b>	<b>Each</b>	<b>13,70</b>	<b>13,70</b>	<b>13,70</b>	<b>16,10</b>	<b>16,10</b>

3

COMBINATED WRENCHES "T" TYPE

921RE SCU



**Prod. SCU**  
High quality model.  
Made from CHROME-VANADIUM steel.  
Short, hexagonal sliding rod.  
Rotating compass rod which can tighten more quickly than keys.  
3 head model, with one bit magnetic attachments including 1/4 female hex, 1 destruction ring pole, 1/4 female hex and 1/4 male square driver for use with sockets. Burnished finish.  
Length x width 210 x 120mm.

<b>921RE</b>	<b>Each</b>	<b>57,10</b>
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SWIVEL SOCKET WRENCHES WITH TOMMY BAR

921RT *new*



**Orig. Peddighaus**  
Made from special steel. Sliding handle.  
Universal joint, clutch. Chrome plated.  
Hexagonal sockets. Total length 500mm.

Max tightening value	Nm	8	9	10	11
Hexagon	mm	16,6	23	31	40,4
Supplier code		9078080001	9078090001	9078100001	9078110001
<b>921RT</b>	<b>Each</b>	<b>21,20</b>	<b>23,40</b>	<b>24,60</b>	<b>24,60</b>

Max tightening value	Nm	12	13	14	15
Hexagon	mm	16,6	64,5	31	96,2
Supplier code		9078120001	9078130001	9078140001	9078150001
<b>921RT</b>	<b>Each</b>	<b>24,60</b>	<b>24,60</b>	<b>24,60</b>	<b>25,50</b>

Max tightening value	Nm	16	17	18	19
Hexagon	mm	115	134	160	186
Supplier code		9078160001	9078170001	9078180001	9078190001
<b>921RT</b>	<b>Each</b>	<b>25,50</b>	<b>27,70</b>	<b>29,90</b>	<b>29,90</b>

921S SCU



**Prod. SCU**  
High quality type, for high torques.  
Made from CHROME-VANADIUM steel. Sliding handle.  
Double cardan joint with clutch. Chrome finish.  
Hexagonal sockets.

Hexagon	mm	6	7	8	9	10	11	12
Overall length	mm	400	400	400	400	450	450	450
<b>921S</b>	<b>Each</b>	<b>26,10</b>	<b>26,10</b>	<b>26,10</b>	<b>26,10</b>	<b>30,70</b>	<b>30,70</b>	<b>30,70</b>

Hexagon	mm	13	14	15	16	17	18	19
Overall length	mm	450	450	475	475	475	475	510
<b>921S</b>	<b>Each</b>	<b>31,10</b>	<b>31,10</b>	<b>34,60</b>	<b>34,60</b>	<b>34,60</b>	<b>34,60</b>	<b>43,20</b>

Hexagon	mm	20	21	22	24
Overall length	mm	510	510	510	510
<b>921S</b>	<b>Each</b>	<b>43,20</b>	<b>43,20</b>	<b>43,50</b>	<b>43,00</b>

SWIVEL SOCKET WRENCHES WITH TORX

921T GEDORE



**Orig. Gedore - Art. TX24**  
High quality type.  
Made from CHROME-VANADIUM steel. Sliding handle.  
Double cardan joint with clutch. Chrome finish.  
Type for external TORX screws.

TORX size	E	16	18	20
Seal	mm	14,7	16,6	18,4
Overall length	mm	450	450	450
<b>921T</b>	<b>Each</b>	<b>40,30</b>	<b>48,10</b>	<b>48,10</b>

Product running out of stock.

Prices in EURO - VAT not included



**LONG SWIVEL JOINTS TOMMY BAR**
**Prod. SCU**

High quality type.

Made from CHROME-VANADIUM steel. Sliding handle.

Double cardan joint with clutch. Chrome finish. For 1/4 - 3/8 - 1/2 drive sockets and accessories.

Drive	inches	1/4	3/8	1/2
Overall length	mm	400	460	500
<b>922A</b>	<b>Each</b>	<b>28,90</b>	<b>33,90</b>	<b>43,20</b>


**922A**
**LONG SWIVEL JOINTS TOMMY BAR FOR BITS**
**Prod. SCU**

High quality type.

Made from CHROME-VANADIUM steel. Sliding handle.

Double cardan joint with clutch. Chrome finish. For 1/4 drive bits DIN 3126 C 6.3.

With sliding ring nut and spring for rapid bit changing.

Total length: 450mm.

<b>922C</b>	<b>Each</b>	<b>40,80</b>
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**922C**
**3**
**ALLEN HEAD SWIVEL WRENCHES WITH TOMMY BAR**
**Prod. SCU**

High quality type.

Made from CHROME-VANADIUM steel. Sliding handle.

Double cardan joint with clutch. Chrome finish.

Hexagon	mm	3	4	5	6	8	10
Overall length	mm	400	400	400	460	460	460
<b>922E</b>	<b>Each</b>	<b>26,60</b>	<b>26,60</b>	<b>26,60</b>	<b>31,80</b>	<b>31,80</b>	<b>37,40</b>


**922E**
**TORX HEAD SWIVEL WRENCHES WITH TOMMY BAR**
**Prod. SCU**

Made from CHROME-VANADIUM steel.

Slideable handle. Double cardan joint with clutch. Chrome finish.

For TORX screws	T	20	25	27	30	40	45	50
Overall length	mm	395	395	395	400	400	425	440
<b>922L</b>	<b>Each</b>	<b>24,60</b>	<b>24,60</b>	<b>24,60</b>	<b>24,60</b>	<b>28,70</b>	<b>28,70</b>	<b>30,60</b>

For TORX screws	T	55
Overall length	mm	440
<b>922L</b>	<b>Each</b>	<b>30,60</b>

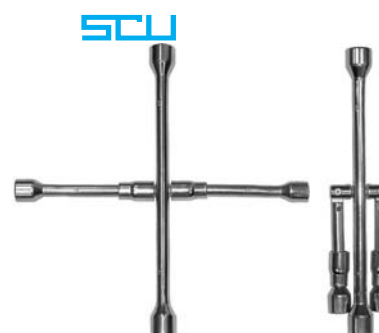

**922L**
**CROSS WRENCHES**
**Prod. SCU**

Type with 2 foldable arms for more convenient storage.

In special steel.

Chrome plated finish.

Opening	mm	17-19-21-23
Overall length	mm	355
Weight	Kg	1,285
<b>923G</b>	<b>Each</b>	<b>71,20</b>


**923G**
**Orig. Gedore - Art. 28 PU**

In CHROME VANADIUM steel.

Laquered finish, metalized grey.

Opening	mm	17-19-21-11/16
Overall length	mm	420
Weight	Kg	1,200
<b>924GA</b>	<b>Each</b>	<b>60,40</b>


**924GA**

**924GB**  
**924GC**
**GEDORE** 

**Orig. Gedore**

Product description as Art. 924GA

Art.		924GB	924GC
Opening	mm	19-22-24-27	24-27-32-38
Overall length	mm	600	750
Weight	Kg	2,200	5,100
Supplier code		28 CU	28 L
<b>Each</b>		<b>111,00</b>	<b>165,00</b>

3

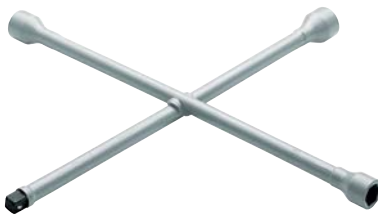
**924GE**
**carolus** 

**Orig. Carolus - Art. 0400.00**

In CHROME VANADIUM steel.

Laquered finish.

Opening	mm	17-19-21-11/16
Overall length	mm	370
Weight	Kg	1,200
<b>924GE</b>	<b>Each</b>	<b>30,80</b>

**925GA**  
**925GB**
**GEDORE** 


1/2"

3/4"

**Orig. Gedore**

In CHROME VANADIUM steel.

Laquered finish, metalized grey.

Art.		925GA	925GB
Opening	mm	17-19-21	24-27-32
Square drive	inches	1/2	3/4
Overall length	mm	420	750
Supplier code		28 PUV	28 LV
<b>Each</b>		<b>63,50</b>	<b>161,00</b>

**925L**
**SCU**


1/2"

**Prod. SCU**

In special steel.

Opening	mm	17-19-21
Square drive	inches	1/2
Overall length	mm	380
<b>925L</b>	<b>Each</b>	<b>11,10</b>

**926E**
**GEDORE** 

**Orig. Gedore - Art. 28 LR**

In CHROME VANADIUM steel. Chrome plated finish.

Suitable to lorries, truck and full trailer and heavy industrial vehicles.

Particularly sturdy torque arm centre.

Opening	mm	27-30-32-33
Overall length	mm	750
<b>926E</b>	<b>Each</b>	<b>272,00</b>

**926G**
**GEDORE** 


3/4"

**Orig. Gedore - Art. 28 LRV.**

Product description as Art. 926E

Opening	mm	27-30-32
Square drive	inches	3/4
Overall length	mm	750
<b>926G</b>	<b>Each</b>	<b>266,00</b>

For socket wrenches for truck, tractor wheel nuts, see Art. 909 GSA.

**TYRE LEVERS**

**Orig. Buco - Art. 2101**

In special steel, forged in the extremities. Straight smooth model. Metalized grey finish.

Overall length	mm	200	300	400	500	600
Weight	grams	120	380	600	1000	1200
<b>927GS</b>	<b>Each</b>	<b>10,70</b>	<b>11,90</b>	<b>13,70</b>	<b>16,50</b>	<b>21,30</b>

Size mm 200 running out of stock.



**927GS**



**Orig. Gedore - Art. 38**

In CHROME VANADIUM steel, fully forged. Also suitable for alloyed wheels.

Straight reinforced type. Chrome plated finish.

Overall length	mm	200	305	400	500	610
Weight	grams	100	220	405	602	927
Use for		bicy-moto	auto	auto	truck	truck
<b>928G</b>	<b>Each</b>	<b>16,30</b>	<b>23,10</b>	<b>28,60</b>	<b>43,20</b>	<b>60,30</b>



**928G**



**3**

**Orig. Buco - Art. 2106**

In special steel, forged in the extremities. Bent smooth model. Metalized grey finish.

Overall length	mm	400	500	600
Weight	grams	600	700	1200
<b>928GE</b>	<b>Each</b>	<b>18,30</b>	<b>20,60</b>	<b>25,40</b>



**928GE**



**Orig. Gedore - Art. 39**

In CHROME VANADIUM steel, fully forged. Bent smooth model, heavy duty for lorries.

Chrome plated finish.

Overall length	mm	610
Weight	grams	1365
<b>928GL</b>	<b>Each</b>	<b>60,50</b>



**928GL**



**Orig. Gedore - Art. 1.91**

In special steel, forged and hardened. Zinc, bleached finish.

Type to be used with sledge hammers to remove truck and bus tyres from their rim.

Overall length	mm	300
Weight	grams	1800
<b>928GS</b>	<b>Each</b>	<b>79,90</b>



**928GS**



**Orig. Buco - Art. 2130**

In special steel, forged and hardened. Nickel finish.

Type to be used with sledge hammers to remove truck and bus tyres from their rim.

Overall length	mm	300
Weight	grams	1900
<b>928GT</b>	<b>Each</b>	<b>73,10</b>



**928GT**



**TOW ROD CARS**

**Orig. Buco - Art. 3010**

Three-pieces model, with telescopic sliding. Hooks in special steel, hardened. Rods in thick steel tubing. Zinc finish. The two parts provided with a hook are connected to the relative cars through the special towing ring by means of removable bolts. Then the third component - a rigid spacer - shall have to be installed.

Overall length as used	mm	1680
Overall length as closed	mm	665
Pullable weight	Kg	2500
<b>932GA</b>	<b>Each</b>	<b>141,00</b>



**932GA**



**TOW BARS FOR TRUCKS**

**Orig. Buco - Art. 3055**

In special steel. Extremely sturdy tubular execution with forged hooks (forged eyelets). Suitable for trucks, busses, etc. up to a weight of 16 tons. To be used with hook pins only.

Overall length as used	mm	2500
Overall weight	Kg	18,5
Pullable weight	Kg	16000
Eyelets bore Ø	mm	40
Hook head ext Ø	mm	100
<b>932GT</b>	<b>Each</b>	<b>223,00</b>



**932GT**



**933G****BUCO****Orig. Buco - Art. 3065**

In special steel. Extremely sturdy tubular execution with forged hooks (forged eyelets). Suitable for trucks, busses, etc. up to a weight of 32 tons. To be used with hook pins only.

Overall length as used	mm	2500
Overall weight	Kg	25
Pullable weight	Kg	32000
Eyelets bore Ø	mm	40
Hook head ext Ø	mm	100

<b>933G</b>	<b>Each</b>	<b>283,00</b>
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**SETS OF SOCKETS****3 940GA****GEDORE****1/4"****Orig. Gedore - Art. D 20 DMU-3**

Made from CHROME-VANADIUM steel. Chrome plated. 1/4 inch bushes and joints (6.35 mm).

Box sets.

Contains 14 tools.

Comprising:

12 polygonal sockets Art. 941 RAB 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13mm

1 extension Art. 942 E 100mm

1 ratchet lever with disk Art. 942 T

Complete set.

<b>940GA</b>	<b>Each</b>	<b>174,00</b>
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**941G****GEDORE****1/4"****Orig. Gedore - Art. 20 EMZ**

Product description as Art. 940GA

The set consists in 16 tools.

Content:

11 x 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 13mm hexagonal sockets Art. 941 RA

1 x 100mm extension Art. 942 E

1 x cardan joint Art. 942 H

1 x bar with sliding connection 115mm Art. 942 G

1 x ratchet with reverse square drive, 127mm Art. 942 S

1 x socket-holder with plastic handle Art. 942 P.

Complete assortment.

<b>941G</b>	<b>Each</b>	<b>215,00</b>
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When stocks run out the ratchet lever will be supplied with a black/blue handle.

**941GC****GEDORE****1/4"****Orig. Gedore - Art. 20 IMU-3**

Product description as Art. 940GA

The set consists of 32 tools.

Contents:

11 x 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14mm hexagonal sockets Art. 941 RA

1 x socket-holder with plastic handle Art. 942 P

1 x 115mm sliding bar Art. 942 G

1 x 150mm extension Art. 942 E

1 x 50mm extension Art. 942 E

1 x ratchet, with dial, 127mm Art. 942 T

1 x cardan joint Art. 942 H

4 x 4 - 5.5 - 6.5 - 8mm flat-tip screwdriver sockets Art. 941 RB

3 cross-tip screwdriver sockets Size 1 - 2 - 3 Art. 941 RC

3 x POZIDRIV screwdriver sockets Size 1 - 2 - 3 Art. 941 RD

5 x 3 - 4 - 5 - 6 - 8mm hex sockets Art. 941 RF

Complete assortment.

<b>941GC</b>	<b>Each</b>	<b>406,00</b>
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When stocks run out the ratchet lever will be supplied with a black/blue handle.

**Orig. Gedore - Art. 20 PMU-3**

Product description as Art. 940GA

The set consists of 33 tools.

Content:

- 11 x 4 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13mm hexagonal sockets
- 1 x socket-holder with plastic handle
- 1 x 115mm sliding lever
- 1 x 100mm extension
- 1 x 50mm extension
- 1 x ratchet, with dial, 127mm
- 1 cardan joint
- 10 nut wrenches Art. 862 G. Dimensions: 4 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 13mm
- 5 x 3 - 4 - 5 - 6 - 8mm hexagon sockets
- 1 x 1/4" hex bit adapter

Complete assortment.

**941GD** Each **359,00**

Product running out of stock.

**941GD**

3
**Orig. Gedore - Art. 20 ITU-3**

Product description as Art. 940GA

The set consists of 36 tools.

Content:

- 11 x 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14mm hexagonal sockets Art. 941 RA
- 1 x socket-holder with plastic handle Art. 942 P
- 1 x 115mm sliding bar Art. 942 G
- 1 x 150mm extension Art. 942 E
- 1 x 50mm extension Art. 942 E
- 1 x ratchet, with dial, 127mm Art. 942 T
- 1 x cardan joint Art. 942 H
- 5 x 3 - 4 - 5 - 6 - 8mm external hex type sockets Art. 941 RF
- 8 x external TORX T sockets 8 - 9 - 10 - 15 - 20 - 25 - 27 - 30 Art. 941 RL
- 6 x internal TORX sockets E 4 - 5 - 6 - 7 - 8 - 10 Art. 941 RP

Complete assortment.

**941GF** Each **428,00**

When stocks run out the ratchet lever will be supplied with a black/blue handle.

**941GF**

**Orig. Gedore - Art. D 20 KMU-20**

Product description as Art. 940GA

The set consists of 37 tools.

Content:

- 10 x bihexagonal sockets Art.941 RAB 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13mm
- 1 x dual-component handle with 1/4" hexagonal drive, 90mm
- 1 x extension Art.942 E 100
- 1 x male magnetic adapter with 1/4" hexagonal drive for 1/4" drive sockets, 60mm
- 1 x ratchet with lever change Art.942 Z 127mm
- 1 x 1/4" hex bit and 1/4" square bit adapter, 25mm
- 3 x flat-tip bits Art.983 GA 4 - 5.5 - 6.5mm
- 4 x internal hexagonal bits Art.983 GP 5 - 6 - 8mm
- 7 x external TORX bits Art.984 GC T 10 - 15 - 20 - 25 - 27 - 30 - 40
- 2 x cross-tip bits PH Art.983 GC 1 - 2
- 3 x cross-tip bits PZ Art.983 GF 1 - 2 - 3

Complete assortment.

**941GL** Each **213,00**
**941GL**

**Orig. Gedore - Art. D 20 MOT-A**

Product description as Art. 940GA

The set consists of 30 tools.

Content:

- 7 x bihexagonal sockets Art. 941 RAB 1/4 - 5/16 - 3/8 - 13/32 - 7/16 - 1/2 - 9/16mm
- 1 x ratchet with 2-arm handle Art. 943 G
- 1 x angular extension Art. 942 F 97
- 1 x extension Art. 942 E 150
- 1 x cardan joint Art. 942 H
- 7 x external TORX bits Art. 984 GC T 10 - 15 - 20 - 25 - 27 - 30 - 40
- 3 x cross-tip bits PH Art. 983 GC 1 - 2 - 3
- 2 x flat-tip bits Art. 983 GA 4 - 6.5
- 6 x hexagonal bits inches. 1/8 - 5/32 - 3/16 - 1/4 - 5/16 - 3/8
- 1 x 1/4 square bit and 1/4 bit drive adapter Art. 984GF 1

Complete assortment.

**941GP** Each **201,00**
**941GP**


## SOCKETS, 1/4" DRIVE DIN 3120-ISO 1174

941RA 

1/4"

## Orig. Gedore - Art. 20

In CHROME VANADIUM steel. Chrome plated finish. Slots inside square drive for ratchet balls and sliding bars.

Internal hex type. Length: 25mm.

Opening	mm	4	4,5	5	5,5	6	7	8
941RA	Each	6,40	6,40	6,62	6,62	6,62	6,62	6,62
Opening	mm	9	10	11	12	13	14	
941RA	Each	6,86	6,86	6,86	7,20	7,20	7,20	
Opening	inches	3/16	7/32	1/4	9/32	5/16	11/32	3/8
941RA	Each	6,78	6,78	6,78	6,86	6,86	6,86	6,86
Opening	inches	7/16	1/2	9/16				
941RA	Each	7,40	7,40	8,00				

941RAB 

1/4"

## Orig. Gedore - Art. D20

Product description as Art. 941RA

Internal bi-hex type. Length: 25mm.

Opening	mm	4	5	6	7	8	9	10
941RAB	Each	6,40	6,62	6,62	6,62	6,62	6,86	6,86
Opening	mm	11	12	13	14			
941RAB	Each	6,86	7,20	7,20	7,20			
Opening	inches	5/16	11/32	3/8	7/16	1/2	9/16	
941RAB	Each	6,86	6,86	6,86	7,40	7,40	8,00	

941RAL 

1/4"

## Orig. Gedore - Art. 20L

Product description as Art. 941RA

Long pattern, internal hex type. Length: 50mm.

Opening	mm	4	4,5	5	5,5	6	7	8
941RAL	Each	21,10	21,10	21,10	21,10	21,10	21,40	21,40
Opening	mm	9	10	11	12	13		
941RAL	Each	21,40	22,20	22,20	22,20	22,20		

941RAP 

1/4"

## Orig. Gedore - Art. DG 20

Product description as Art. 941RA

Jointed type with internal polygon.

Opening	mm	5,5	6	7	8	9	10	11
941RAP	Each	35,60	36,50	37,10	37,10	35,90	36,10	36,40
Opening	mm	12	13					
941RAP	Each	36,40	37,10					

941RB 

1/4"

## Orig. Gedore - Art. IS 20

Product description as Art. 941RA

Flat-tip screwdriver type. Length: 28mm.

Blade width	mm	4	5,5	6,5	8
941RB	Each	9,96	9,96	9,96	9,96

941RC 

1/4"

## Orig. Gedore - Art. IKS 20

Product description as Art. 941RA

Phillips screwdriver type. Length: 28mm.

Size		1	2	3	4
941RC	Each	9,96	9,96	9,96	9,96

941RD 

1/4"

## Orig. Gedore - Art. IKS 20 PZD

Product description as Art. 941RA

POZIDRIV screwdriver type. Length: 28mm.

Size		1	2	3	4
941RD	Each	11,10	11,10	11,10	11,10

**Orig. Gedore - Art. IN 20**

Product description as Art. 941RA

External hex type. Length: 28mm.

Opening	mm	2	2,5	3	4	5	6	8
<b>941RF</b>	Each	9,96	9,96	9,96	9,96	9,96	9,96	9,96



**941RF**



**Orig. Gedore - Art. IN 20 L**

Product description as Art. 941RA

Long external hex type. Length: 60mm.

Opening	mm	3	4	5	6	8
<b>941RG</b>	Each	10,60	10,60	10,60	10,60	10,90



**941RG**



**3**

**Orig. Gedore - Art. IN 20 K**

Product description as Art. 941RA

Type with ball ends for use inclined by up to 20° with Allen screws. Length 30.5mm.

Opening	mm	4	5	6
<b>941RGA</b>	Each	11,60	11,60	11,60



**941RGA**



**Orig. Gedore - Art. ITX 20**

Product description as Art. 941RA

External TORX type. Length: 30mm.

TORX size	T	8	9	10	15	20	25	27
Seal	mm	2,31	2,50	2,74	3,27	3,86	4,43	4,99
<b>941RL</b>	Each	11,10	11,10	11,10	11,10	11,10	11,10	11,10

TORX size	T	30	40
Seal	mm	5,52	6,65
<b>941RL</b>	Each	11,10	12,50



**941RL**



**Orig. Gedore - Art. ITX 20K**

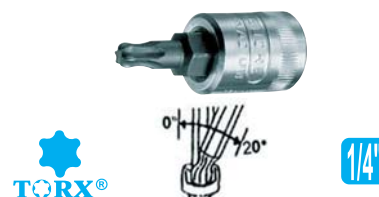
Product description as Art. 941RA

Type with ball ends for use inclined by up to 20° with TORX recessed screws. Length 30.5mm (only T 40: 33.5mm).

TORX size	T	10	15	20	25	27	30	40
Seal	mm	2,74	3,27	3,86	4,43	4,99	5,52	6,65
<b>941RLA</b>	Each	13,40	13,40	13,40	13,40	13,40	13,40	13,90



**941RLA**



**Orig. Gedore - Art. TX 20**

Product description as Art. 941RA

Internal TORX type. Length: 25mm.

TORX size	E	4	5	6	7	8	10
Seal	mm	3,8	4,7	5,6	6,1	7,4	9,3
<b>941RP</b>	Each	9,40	9,40	9,40	9,40	9,40	10,70



**941RP**



**Prod. SCU**

Product description as Art. 941RA

External TORX type with hole. Length: 35mm.

TORX size	T	7	8	9	10	15	20	25
Seal	mm	1,99	2,31	2,50	2,74	3,27	3,86	4,43
<b>941RT</b>	Each	4,38	4,38	4,38	4,38	4,38	4,38	4,38

TORX size	T	27	30
Seal	mm	4,99	5,52
<b>941RT</b>	Each	4,38	4,38



**941RT**



941RV




1/4"

**Orig. Gedore - Art. ITX 20 IP**

Product description as Art. 941RA

Type with external TORX PLUS screws. Length 30.5mm (only 40 IP: 33.5mm).

TORX PLUS size	IP	6	8	10	15	20	25	27
Seal	mm	2,31	2,50	2,74	3,27	3,86	4,43	4,99
<b>941RV</b>	<b>Each</b>	<b>12,10</b>	<b>12,10</b>	<b>11,70</b>	<b>12,10</b>	<b>12,10</b>	<b>12,10</b>	<b>12,10</b>
TORX PLUS size	IP	30	40					
Seal	mm	5,52	6,65					
<b>941RV</b>	<b>Each</b>	<b>12,10</b>	<b>13,20</b>					

### SPARE PARTS FOR SOCKETS

942B




1/4"

**Orig. Gedore - Art. 2094**

In CHROME VANADIUM steel. Chrome plated finish. 1/4" square drive (6.35mm).

Square drive for 942 R-S bars. Length 20 mm.

<b>942B</b>	<b>Each</b>	<b>5,10</b>
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942C




1/4"

**Orig. Gedore - Art. 2097**

Product description as Art. 942B

Articulated bars, length: 150mm.

<b>942C</b>	<b>Each</b>	<b>35,50</b>
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942D




1/4"

**Orig. Gedore - Art. 2088**

Product description as Art. 942B

Flexible extension, length: 120mm.

<b>942D</b>	<b>Each</b>	<b>20,20</b>
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942E




1/4"

**Orig. Gedore - Art. 2090**

Product description as Art. 942B

Fixed extensions.

Overall length	mm	50	100	150	300
<b>942E</b>	<b>Each</b>	<b>10,70</b>	<b>11,10</b>	<b>11,10</b>	<b>15,30</b>

942F




1/4"

**Orig. Gedore - Art. 2090 KR**

Product description as Art. 942B

Angle extensions, possible inclination up to 15°.

Overall length	mm	55	97	148
<b>942F</b>	<b>Each</b>	<b>13,50</b>	<b>14,10</b>	<b>17,40</b>

942G




1/4"

**Orig. Gedore - Art. 2087**

Product description as Art. 942B

Sliding bar, length: 115mm.

<b>942G</b>	<b>Each</b>	<b>14,70</b>
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942H




1/4"

**Orig. Gedore - Art. 2095**

Product description as Art. 942B

Cardan joint. Length 38 mm.

<b>942H</b>	<b>Each</b>	<b>32,90</b>
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942P




1/4"

**Orig. Gedore - Art. 2098**

Product description as Art. 942B

Socket-holder with plastic handle. Length 140 mm.

<b>942P</b>	<b>Each</b>	<b>11,70</b>
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### RATCHETS

942R




1/4"

**Orig. Gedore - Art. 2093 HR-94**

In CHROME VANADIUM steel. Chrome plated finish. 1/4" square drive (6.35mm).

Knurled disc with ratchet with reverse square drive. Fine toothed. Ø 27mm.

Ideal for rapid tightening and for working in restricted spaces with extensions.

Art. 942 D-E-F.

<b>942R</b>	<b>Each</b>	<b>31,80</b>
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942S




1/4"

**Orig. Gedore - Art. 2093 Z-94**

Product description as Art. 942R

Ratchet with reverse square drive. Rubber handle. Fine toothed.

Length: 127mm.

<b>942S</b>	<b>Each</b>	<b>38,10</b>
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When stocks run out the ratchet lever will be supplied with a black/blue handle.



**Orig. Gedore - Art. 2093 U-3**

Product description as Art. 942R

Ratchet with dial change for clockwise and counter-clockwise operation. Rubber handle. Fine toothed.

Length: 127mm.

**942T** Each **58,70**

When stocks run out the ratchet lever will be supplied with a black/blue handle.



**Orig. Gedore - Art. 2093 U-10**

Product description as Art. 942R

Ratchet with lever change for clockwise, counter-clockwise and fixed operation. Rubber handle. Fine toothed.

Length: 127mm.

**942V** Each **78,70**



**Orig. Gedore - Art. 2093 U-20**

Product description as Art. 942R

Ratchet with lever change for clockwise and counter-clockwise operation. Dual component rubber grip. With tip click quick change, with button. Fine toothed.

Length: 127mm.

**942Z** Each **74,30**



**Orig. Gedore - Art. 2093 U-3 T**

In special steel. Burnished finish. 1/4" square drive (6.35mm).

Ratchet with dial change for clockwise and counter clockwise operation. 2-arm grip in anti-slip plastic material.

Ideal for rapid tightening combined with extensions Art. 942 D-E-F.

Length: 140mm.

**943G** Each **43,70**



**Prod. SCU**

Telescopic type with 3-position adjustable length, 150mm to 200mm.

In sturdy steel pipe, dual-component handle with safe grip.

With lever change for RIGHT/LEFT movement and tip click quick change, with button.

1/4" square drive.

**944** Each **31,40**

Product running out of stock.



**SETS OF SOCKETS**

**Orig. Carolus - Art. 4400.100**

In special steel. Chrome plated finish.

Sockets and joints with 1/4" square drive (6.35mm).

Assorted sets supplied in metal case.

Contains 16 tools.

Comprises:

13 hexagonal sockets Art. 946 GA 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14mm

1 extension Art. 946 GP 50mm

1 extension Art. 946 GP 100mm

1 ratchet with lever change, quick release, extra slim head, Art. 947 GRE 135mm

Complete assortment

**944GA** Each **63,00**



**Orig. Carolus - Art. 4004.77**

Product description as Art. 944GA

33-tool sets.

Each set contains:

12 x 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13mm hexagonal sockets Art. 946 GA

3 x 4 - 5.5 - 6.5mm flat-tip screwdriver sockets Art. 946 GC

4 x Phillips screwdriver sockets Size 0 - 1 - 2 - 3 Art. 946

6 x 3 - 4 - 5 - 6 - 8 - 10mm internal hex sockets Art. 946 GH

1 x 50mm extension Art. 946 GP

1 x 100mm extension Art. 946 GP

1 x cardan joint Art. 946 GS

1 x 115mm sliding bar Art. 946 GR

1 x dual-component handle with 1/4" hexagonal drive Art. 946 GT

1 x 1/4 hex drive socket-holder for 1/4" hex drive sockets Art. 946 GV

1 x 1/4" hex drive male adapter for 1/4" drive sockets 946 GZ

1 x 120mm ratchet with lever change, rapid release Art. 947 GR

Complete assortment

**945GE** Each **110,00**



945GF



1/4"



**Orig. Carolus - Art. 4004.79**

Product description as Art. 944GA

33-tool set.

Each set contains:

12 x 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13mm hexagonal sockets Art. 946 GA

7 external Torx sockets, with T-hole 10 - 15 - 20 - 25 - 27 - 30 - 40 Art. 946 GL

6 x 3 - 4 - 5 - 6 - 8 - 10mm external hex sockets Art. 946 GH

1 x 50mm extension Art. 946 GP

1 x 100mm extension Art. 946 GP

1 cardan joint Art. 946 GS

1 x 115mm sliding bar Art. 946 GR

1 x 1/4" hex drive dual component handle Art. 946 GT

1 x 1/4" hex drive socket-holder for 1/4" hex drive sockets Art. 946 GV

1 x 1/4" hex drive male adapter for 1/4" drive sockets Art. 946 GZ

1 x 120mm ratchet with lever change, rapid release Art. 947 GR

Complete assortment

945GF	Each	110,00
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**SOCKETS, 1/4" DRIVE DIN 3120-ISO 1174**

946GA



1/4"

**Orig. Carolus - Art. 4177-4175**

In special steel. Chrome plated finish. Slots inside the square drive for ratchet balls and sliding bars.

Internal hex type. Length: 25mm.

Opening	mm	4	4,5	5	5,5	6	7	8
946GA	Each	2,16	2,16	2,16	2,16	2,16	2,16	2,32
Opening	mm	9	10	11	12	13	14	
946GA	Each	2,32	2,32	2,32	2,32	2,32	2,46	
Opening	inches	7/32*	11/32*	7/16*	1/2*			
946GA	Each	2,60	2,60	2,60	2,60			

\* Sizes running out of stock.

946GAF



1/4"

**Orig. Carolus - Art. 4180**

Product description as Art. 946GA

Type with MULTIPLE PROFILE to tighten screws with hex, hex worn/rounded by up to 50%, polygonal, TORX, XZN-SPLINE, square heads. Length 25mm.

Opening	mm	4	4,5	5	5,5	6	7	8
946GAF	Each	2,16	2,16	2,16	2,16	2,16	2,16	2,32
Opening	mm	9	10	11	12	13	14	
946GAF	Each	2,32	2,32	2,32	2,32	2,32	2,46	

946GB



1/4"

**Orig. Carolus - Art. 4176**

Product description as Art. 946GA

Long pattern. Internal hex type. Length: 50mm.

Opening	mm	4	4,5	5	5,5	6	7	8
946GB	Each	3,24	3,46	3,46	3,46	3,46	3,46	3,46
Opening	mm	9	10	11	12	13		
946GB	Each	3,46	3,46	3,78	3,78	3,78		

946GC



1/4"

**Orig. Carolus - Art. 4179**

Product description as Art. 946GA

Flat-tip screwdriver type. Length: 28mm.

Blade width	mm	4	5,5	6,5
946GC	Each	2,78	2,78	2,78

946GE



1/4"

Product description as Art. 946GA

Phillips screwdriver type. Length: 28mm.

Size		0	1	2	3
946GE	Each	2,78	2,78	2,78	2,78

946GF



1/4"

**Orig. Carolus - Art. 4172**

Product description as Art. 946GA

POZIDRIV screwdriver type. Length: 28mm.

Size		0	1	2	3
946GF	Each	3,08	3,08	3,08	3,08

**Orig. Carolus - Art. 4178**

Product description as Art. 946GA

External hex type. Length: 28mm.

Opening	mm	3	4	5	6	8	10
<b>946GH</b>	Each	2,32	2,32	2,32	2,32	2,32	2,32



**946GH**

**Orig. Carolus - Art. 4173**

Product description as Art. 946GA

External TORX type with hole. Length: 28mm.

TORX size	T	10	15	20	25	27	30	40
Seal	mm	2,74	3,27	3,86	4,43	4,99	5,52	6,65
<b>946GL</b>	Each	3,08	3,08	3,08	3,08	3,08	3,08	3,08



**946GL**

**Orig. Carolus - Art. 4174**

Product description as Art. 946GA

TORX type. Length: 25mm.

TORX size	E	5	6	7	8	10
Seal	mm	4,7	5,6	6,1	7,4	9,3
<b>946GM</b>	Each	5,08	5,08	5,08	5,08	5,38



**946GM**

**SPARE PARTS FOR SOCKETS**

**Orig. Carolus - Art. 4179**

In special steel. Chrome plated finish. 1/4" square drive (6.35mm).

Fixed extensions.

Overall length	mm	50	100	150
<b>946GP</b>	Each	3,08	3,62	6,02



**946GP**

**Orig. Carolus - Art. 4179.70**

Product description as Art. 946GP

Sliding bar. Length: 115mm.

<b>946GR</b>	Each	7,48
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**946GR**

**Orig. Carolus - Art. 4179.80**

Product description as Art. 946GP

Cardan joint. Length 37 mm.

<b>946GS</b>	Each	8,70
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**946GS**

**Orig. Carolus - Art. 4120.00**

Product description as Art. 946GP

socket-holder rod with bi-component handle. Total length 160mm.

In combination with the reduction Art. 947 GA it can be used as a grip for bits with 1/4" hex drive.

<b>946GSE</b>	Each	7,32
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**946GSE**

**Orig. Carolus - Art. 4002.42**

Product description as Art. 946GP

Separate bi-component handle with 1/4" hex drive. Length 90mm.

<b>946GT</b>	Each	8,02
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To be used in combination with Art. 946 GV-Z.



**946GT**

**Orig. Carolus - Art. 4002.40**

Product description as Art. 946GP

Socket-holder, 1/4" hexagonal drive, for 1/4" sockets.

Length: 88mm.

<b>946GV</b>	Each	6,02
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To be used also in combination with Art. 946 GT.



**946GV**

**Orig. Carolus - Art. 7080.50**

Product description as Art. 946GP

Male adapter, 1/4" hexagonal drive.

Length: 50mm.

<b>946GZ</b>	Each	1,84
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To be used also in combination with Art. 946 GT.



**946GZ**

**947GA**


1/4"



1/4"

**Orig. Carolus - Art. 4178.60**

Product description as Art. 946GP

Insert socket adapter, 1/4" square drive, 1/4" hexagonal drive. Length 25 mm.

<b>947GA</b>	Each	<b>2,78</b>
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**947GB**


1/4"



1/4"

**Orig. Carolus - Art. 7060.00**

Product description as Art. 946GP

Magnetic adapter, 1/4" hexagonal drive and 8mm male hexagonal drive. Length 17,7 mm.

<b>947GB</b>	Each	<b>5,24</b>
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Ideal for use in combination with ratchet wrenches Art. 879 FEx8-879 GEx8-879 GMx8.

**947GC**


1/4"



1/4"

**Orig. Carolus - Art. 4115.10**

Product description as Art. 946GP

Socket adapter, 1/4" square drive and 10mm male hexagonal drive. Length 18,7 mm.

<b>947GC</b>	Each	<b>5,38</b>
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Ideal for use in combination with ratchet wrenches Art. 879 Dx10-879 FEx10-879 GEx10-879 GMx10.

### RATCHETS

**947GP**


1/4"

**Orig. Carolus - Art. 7190.30**

In special steel. Chrome plated finish. 1/4" square drive (6.35mm).

Ratchet with dial change for clockwise and counter clockwise operation.

Dual material handle. Fine toothed.

Length: 120mm.

<b>947GP</b>	Each	<b>30,60</b>
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**947GR**


1/4"

**Orig. Carolus - Art. 4177.20**

Product description as Art. 947GP

Ratchet with lever change for clockwise and counter-clockwise operation.

Dual-material handle. With tip klick quick change, with button.

Fine toothed.

Length: 120mm.

<b>947GR</b>	Each	<b>30,60</b>
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**947GRE**


1/4"

**Orig. Carolus - Art. 4190.50**

Product description as Art. 947GP

Ratchet with lever change for clockwise and counter-clockwise movement.

Extra-slim head, bi-component rubber grip. With button-operated quick-release safety system.

Fine toothed.

Length 135mm.

<b>947GRE</b>	Each	<b>40,40</b>
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**947GS**


1/4"

**Orig. Carolus - Art. 7290.30**

Product description as Art. 947GP

Flexible ratchet, multi-angled bit. With dial change for clockwise and counter-clockwise operation.

Synthetic material handle. Fine toothed.

Length: 135mm.

<b>947GS</b>	Each	<b>54,30</b>
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**947GT**


1/4"

**Orig. Carolus - Art. 7225.00**

Product description as Art. 947GP

Flexible ratchet, multi-angled bit. With lever change for clockwise and counter-clockwise operation.

Synthetic-material handle. Fine toothed

Length: 140mm.

<b>947GT</b>	Each	<b>54,30</b>
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**SPARE PARTS AND ACCESSORIES FOR INTERCHANGEABLE HEAD WRENCHES**

**Orig. Carolus - Art. 7200.00tk**

In special steel. Chrome plated finish. 1/4" square drive (6.35mm).  
Articulated bar with angle lock, rapid and safe head quick release, with button. Synthetic material handle. Length: 120mm.

**948GA** Each **46,90**

Product running out of stock.



**1/4"**  
**948GA**

**Orig. Carolus - Art. 7200.30**

Product description as Art. 948GA  
Ratched head with dial change for clockwise and counter-clockwise operation. Finely toothed.

**948GB** Each **17,20**

Product running out of stock.



**1/4"**  
**948GB**

**Orig. Carolus - Art. 7200.25**

Product description as Art. 948GA  
Ratched head with dial change for clockwise and counter-clockwise operation. Finely toothed.

**948GC** Each **17,20**

Product running out of stock.



**1/4"**  
**948GC**

**Orig. Carolus - Art. 7200.26**

Product description as Art. 948GA  
Ratched head with lever change for clockwise and counter-clockwise operation. Finely toothed. 1/4" female hex drive for inserts.

**948GE** Each **17,20**

Product running out of stock.



**1/4"**  
**948GE**

**Orig. Carolus - Art. 7220**

Product description as Art. 948GA  
Fixed end fitting.

Opening	mm	8	9	10	11	12	13
<b>948GF</b>	Each	3,26	3,26	3,26	3,26	3,26	3,26

Product running out of stock.



**948GF**

**Orig. Carolus - Art. 7230**

Product description as Art. 948GA  
Bi-hexagonal ring end fitting.

Opening	mm	8	9	10	11	12	13
<b>948GH</b>	Each	3,26	3,26	3,26	3,26	3,26	3,26

Product running out of stock.



**948GH**

**Orig. Carolus - Art. 7210**

Product description as Art. 948GA  
Ratchet bi-hexagonal ring end fitting.

Opening	mm	8	9	10	11	12	13
<b>948GL</b>	Each	15,10	15,10	15,10	15,10	15,10	15,10

Product running out of stock.



**948GL**

## SETS OF SOCKETS

949G  
new



1/4"

1/4"

**Orig. Carolus - Art. 44005.00**

Product description as Art. 949E

Contains 42 tools.

Composition:

12 hexagonal sockets Art. 946 GA mm 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13

4 straight cut inserts mm 3 - 4.5 - 5.5 - 6.5

3 PHILLIPS inserts 1 - 2 - 3

3 cross PZD inserts 1 - 2 - 3

6 inserts for internal hexagons mm 2 - 3 - 4 - 5 - 6 - 8

7 TORX T inserts 10 - 15 - 20 - 25 - 27 - 30 - 40

1 ratchet lever with quick release Art. 947 GR

1 fixed extension Art. 946 GP 50

1 fixed extension Art. 946 GP 150

1 cardan joint Art. 946 GS

1 sliding lever Art. 946 GR

1 socket holder rod with handle Art. 946 GSE

1 socket reduction for inserts, square connection 1/4", hexagonal connection 1/4", Art. 947 GA

Complete assortment.

949G Each 69,10

950G




3/8"

**Orig. Gedore - Art. D 30 DMU-10**

In CHROME VANADIUM steel. Chrome plated finish.

Sockets and joints with 3/8" square drive (9.52mm).

Assorted sets supplied in metal case.

12-tool sets.

Each set contains:

4 x 6 - 7 - 8 - 9mm hexagonal sockets

6 x 10 - 11 - 13 - 14 - 17 - 19mm bi-hex sockets Art. 952 RB

1 x 125mm extension 953 E

1 200mm ratchet, with lever change, rapid release 953 T

Complete assortment.

950G Each 220,00

Product running out of stock.

950GA




3/8"

**Orig. Gedore - Art. 30 JMU-10**

Product description as Art. 950G

Contains 16 tools.

Comprises:

14 hex sockets Art. 952 RA 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19mm

1 extension Art. 953 E 125mm

1 ratchet with lever change, quick release, Art. 953 T 200mm

Complete set.

950GA Each 308,00

950GF




3/8"

**Orig. Gedore - Art. D 30 GMU-3**

Product description as Art. 950G

17-tool set.

Each set contains:

12 x 6 - 7 - 8 - 9 - 10 - 11 - 13 - 14 - 15 - 16 - 17 - 19mm bi-hex sockets Art. 952 RB

1 x 200mm ratchet, dial change Art. 953 S

1 x 160mm sliding bar Art. 953 H

1 x 125mm extension Art. 953 E

1 x 250mm extension Art. 953 F

1 x cardan joint Art. 953 I

Complete set.

950GF Each 356,00

**Orig. Gedore - Art. D 30 GAU-10**

Product description as Art. 950G

The set consists in 17 tools.

Content:

- 5 x hexagonal sockets Art. 952 RA 1/4 - 9/32 - 5/16 - 11/32 - 3/8inch
- 7 x bihexagonal sockets Art. 952 RB 7/16 - 1/2 - 9/16 - 19/32 - 5/8 - 11/16 - 3/4inch
- 1 x ratchet with lever change Art. 953 T 200mm
- 1 x sliding lever Art. 953 H 160mm
- 1 x extension Art. 953 E 125mm
- 1 x extension Art. 953 F 250mm
- 1 x cardan joint Art. 953 I

Complete assortment.

**950GH** Each **397,00**

When stocks run out the ratchet lever will be supplied with a black/blue handle.



**3**

**Orig. Gedore - Art. D 30 HMU-3**

Product description as Art. 950G

Contains 22 tools.

Comprises:

- 17 bi-hex sockets Art. 952 RB 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22mm
- 1 sliding lever Art. 953 H mm 160
- 1 extension Art. 953 E 125mm
- 1 extension Art. 953 F 250mm
- 1 ratchet lever with disk, Art. 953 S 200mm
- 1 cardan joint Art. 953 I

Complete set.

**951G** Each **412,00**



**Orig. Gedore - Art. 30 IMU-3**

Product description as Art. 950G

Contains 26 tools.

Comprises:

- 13 hex sockets Art. 952 RA 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19mm
- 1 ratchet lever with disk, Art. 953 S 200mm
- 1 sliding lever Art. 953 H 160mm
- 1 extension Art. 953 E 125mm
- 1 extension Art. 953 F 250mm
- 1 cardan joint Art. 953 I
- 4 external hex sockets Art. 952 RT 4 - 5 - 6 - 8mm
- 2 flat-tip screwdriver sockets Art. 952 RN 5.5 - 8mm
- 2 PH cross-slotted screwdriver sockets Art. 952 RP 2 - 3

Complete set.

**951GB** Each **444,00**



**952G**



3/8"

**Orig. Gedore - Art. D 30 QMU-3**  
 Product description as Art. 950G  
 25-tool sets.  
 Each set contains:  
 4 x 6 - 7 - 8 - 9mm hexagonal sockets  
 8 x 10 - 11 - 13 - 14 - 15 - 16 - 17 - 19mm bi hex sockets Art. 952 RB  
 1 x 200mm ratchet, dial change Art. 953 S  
 1 x 160mm sliding bar Art. 953 H  
 1 x 125mm extension Art. 953 E  
 1 x 250mm extension Art. 953 F  
 1 x cardan joint Art. 953 I  
 4 x 4 - 5 - 6 - 8mm external hex sockets Art. 952 RT  
 2 x 5.5mm - 8mm flat-tip screwdriver sockets Art. 952 RT  
 2 x cross-tip screwdriver sockets Size 2 - 3 Art. 952 RP  
 Complete assortment.

**952G** Each **480,00**

Product running out of stock.

**952L**



3/8"

**Orig. Gedore - Art. IN 30LKM**  
 Made from CHROME-VANADIUM steel. Chrome plated.  
 Sockets and joints with 3/8 inch square driver (9.52 mm). In a plastic box.  
 For screws with internal hex.  
 Contains 10 tools.  
 Comprising:  
 5 sockets Art. 952 RT 4 - 5 - 6 - 8 - 10mm  
 5 sockets Art. 952 RTL 4 - 5 - 6 - 8 - 10mm  
 Complete set.

**952L** Each **137,00**

**952M**



3/8"

**Orig. Gedore - Art. ITX 30 TX-015**  
 Product description as Art. 952L  
 For internal/external TORX-recessed screws.  
 Contains 15 tools.  
 Comprising:  
 7 sockets Art. 952 RV 20 - 25 - 27 - 30 - 40 - 45 - 50mm  
 8 sockets Art. 952 ST 5 - 6 - 7 - 8 - 10 - 11 - 12 - 14mm  
 Complete set.

**952M** Each **238,00**

**SOCKETS, 3/8" DRIVE DIN 3120-ISO 1174**

**952RA**



3/8"

**Orig. Gedore - Art. 30**  
 In CHROME VANADIUM steel. Chrome plated finish. Slots inside the square drive for ratchet balls and sliding bars.  
 Internal hex type. Length: 28mm.

Opening	mm	6	7	8	9	10	11	12	13	14
<b>952RA</b>	Each	10,20	10,20	9,82	9,82	9,82	9,82	9,82	9,82	10,30
Opening	mm	15	16	17	18	19	20	21	22	24
<b>952RA</b>	Each	10,30	10,30	10,30	10,30	10,30	11,50	11,50	11,50	15,40
Opening	inches	1/4	9/32	5/16	11/32	3/8				
<b>952RA</b>	Each	11,40	11,80	10,60	10,60	10,60				

Size inches 9/32 running out of stock.



**Orig. Gedore - Art. D 30**

Product description as Art. 952RA

Internal bi-hex type. Length: 28mm.

Opening	mm	6	7	8	9	10	11	12	13
<b>952RB</b>	Each	10,20	10,20	9,82	9,82	9,82	9,82	9,82	9,82
Opening	mm	14	15	16	17	18	19	20	21
<b>952RB</b>	Each	10,30	10,30	10,30	10,30	10,30	10,30	11,50	11,50
Opening	mm	22	24						
<b>952RB</b>	Each	11,50	15,40						
Opening	inches	7/16	1/2	9/16	19/32	5/8	11/16	3/4	7/8
<b>952RB</b>	Each	10,60	10,60	10,60	12,10	11,40	11,40	12,90	12,90

**GEDORE**

**952RB**



3/8"

**Orig. Gedore - Art. D 30L**

Product description as Art. 952RA

Long pattern. Internal bi-hex type. Length: 63mm.

Opening	mm	10	11	12	13	14	15	16
<b>952RC</b>	Each	20,70	23,80	22,10	20,70	25,80	24,20	24,50
Opening	mm	17	18	19	20	21	22	
<b>952RC</b>	Each	27,20	28,00	27,20	28,80	31,60	28,80	

**GEDORE**

**952RC**



3/8"

**Orig. Gedore - Art. DG 30**

Product description as Art. 952RA

Swivel type. Internal bi-hex type.

Opening	mm	10	11	12	13	14	15	16
Overall length	mm	45	45	45	45	47	49	49
<b>952RE</b>	Each	41,10	48,70	48,70	49,40	49,40	49,40	55,60
Opening	mm	17	18	19				
Overall length	mm	49,5	49,5	49,5				
<b>952RE</b>	Each	56,40	56,40	56,40				

**GEDORE**

**952RE**



3/8"

Sizes mm11 ans 12 running out of stock.

**Orig. Gedore - Art. IS 30**

Product description as Art. 952RA

Flat-tip screwdriver type. Length: 55mm.

Blade width	mm	5,5	6,5	8	10	12
<b>952RN</b>	Each	15,40	22,10	17,20	17,80	19,70

**GEDORE**

**952RN**



3/8"

**Orig. Gedore - Art. IKS 30**

Product description as Art. 952RA

Phillips screwdriver type. Length: 55mm.

Size	1	2	3	
<b>952RP</b>	Each	17,50	17,50	17,50

**GEDORE**

**952RP**



3/8"

**Orig. Gedore - Art. IKS 30 PZD**

Product description as Art. 952RA

Pozidriv screwdriver type. Length: 55mm.

Size	1	2	3	
<b>952RQ</b>	Each	19,90	19,90	19,90

**GEDORE**

**952RQ**



3/8"

**Orig. Gedore - Art. INX 30**

Product description as Art. 952RA

Screwdriver type. External bi-hex type. Length: 49mm.

For screws	M	5	6	8
<b>952RS</b>	Each	18,30	18,30	18,30

**GEDORE**

**952RS**



3/8"

**Orig. Gedore - Art. INX 30L**

Product description as Art. 952RA

Long pattern. Screwdriver type. External bi-hex type. Length: 94mm.

For screws	M	6	8	10
<b>952RSL</b>	Each	18,20	18,20	18,50

**GEDORE**

**952RSL**



3/8"

**952RT** 

**Orig. Gedore - Art. IN 30**

Product description as Art. 952RA

External hex type. Length: 47mm.

Opening	mm	4	5	6	7	8	10
<b>952RT</b>	Each	10,80	10,80	10,80	10,80	10,80	10,80
Opening	inches	1/8	5/32	3/16	1/4	5/16	3/8
<b>952RT</b>	Each	11,20	11,20	11,10	11,10	14,80	14,80

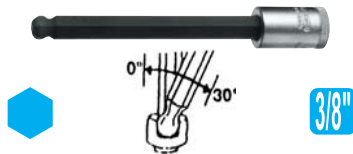
**952RTL** 

**Orig. Gedore - Art. IN 30L**

Product description as Art. 952RA

Long pattern. External hex type. Length: 95mm.

Opening	mm	4	5	6	7	8	10
<b>952RTL</b>	Each	14,00	14,00	14,00	14,00	14,00	14,00

**952RTS** 

**Orig. Gedore - Art. IN 30LK**

Product description as Art. 952RA

Long pattern, ball hex type, angled up to 30°. Length: 134mm.

Opening	mm	4	5	6	8	10
<b>952RTS</b>	Each	15,50	15,30	15,40	15,60	17,80

**952RV** 

**Orig. Gedore - Art. ITX 30**

Product description as Art. 952RA

External TORX type. Length: 49mm.

TORX size	T	20	25	27	30	40	45	50
Seal	mm	3,86	4,43	4,99	5,52	6,65	7,82	8,83
<b>952RV</b>	Each	14,40	14,40	14,40	14,40	14,40	14,40	14,40

**952RVL** 

**Orig. Gedore - Art. ITX 30L**

Product description as Art. 952RA

Long pattern. External TORX type. Length: 95mm.

TORX size	T	20	25	27	30	40	45	50
Seal	mm	3,86	4,43	4,99	5,52	6,65	7,82	8,83
<b>952RVL</b>	Each	15,90	15,90	15,90	15,90	16,80	16,80	16,80

**952ST** 

**Orig. Gedore - Art. TX 30E**

Product description as Art. 952RA

Internal TORX type. Length: 28mm.

TORX size	E	5	6	7	8	10	11	12	14
Seal	mm	4,7	5,6	6,1	7,4	9,3	10,08	11,1	12,8
<b>952ST</b>	Each	14,30	14,30	14,30	14,30	14,30	14,70	14,30	14,30

**952SV** 

**Orig. Gedore - Art. ITX 30B**

Product description as Art. 952RA

External TORX type. With hole. Length: 49mm.

TORX size	T	20	25	27	30	40	45	50
Seal	mm	3,86	4,43	4,99	5,52	6,65	7,82	8,83
<b>952SV</b>	Each	17,40	17,40	17,40	17,40	20,10	20,40	28,30

**INSERT WRENCHES 3/8" COUPLING DIN 3120-ISO 1174**
**952Z** 

**Orig. Klann**

In MOLYBDENUM VANADIUM steel. Burnished finish.

Hex open end bit type for nuts placed in confined areas.

Opening	mm	17	18	19
Overall length	mm	49	49	49
Overall width	mm	35	35	36
Thickness	mm	10	10	10
Opening width	mm	13	14	15
Supplier code		KL-4076-3017	KL-4076-3018	KL-4076-3019
<b>952Z</b>	Each	8,64	8,90	9,58

**INSERT WRENCHES 3/8" COUPLING DIN 3180-ISO 1174**

**Prod. SCU**

Made from CHROME-VANADIUM steel. Chrome plated.  
Insert model including fixed opening for nuts positioned in areas which are difficult to access.

Opening	mm	10	11	12	13	14	15	16
Overall length	mm	33	35	35	36	40	42	42
<b>953</b>	<b>Each</b>	<b>13,30</b>	<b>13,30</b>	<b>13,10</b>	<b>13,10</b>	<b>13,20</b>	<b>13,20</b>	<b>13,80</b>

Opening	mm	17	18	19
Overall length	mm	45	45	50
<b>953</b>	<b>Each</b>	<b>14,80</b>	<b>14,80</b>	<b>15,20</b>



3/8"

**953**



**SET OF INSERT WRENCHES 3/8" COUPLING DIN 3180-ISO 1174**

**Prod. SCU**

Made from CHROME-VANADIUM steel. Chrome plated.  
Insert model including fixed opening for nuts positioned in areas which are difficult to access.  
Set of 10 wrenches Art. 953 size 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19mm.  
Boxed.

<b>953A</b>	<b>Per set</b>	<b>124,00</b>
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3/8"

**953A**



**3**

**SPARE PARTS FOR SOCKETS**

**Orig. Gedore - Art. 3084**

In CHROME VANADIUM steel. Chrome plated finish.  
3/8" square drive (9.52mm).  
Brace levers 288mm.

<b>953C</b>	<b>Each</b>	<b>38,10</b>
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3/8"

**953C**



**Orig. Gedore - Art. 3094**

Product description as Art. 953C  
Square drive for Art. 953 P. Length 28,8 mm.

<b>953D</b>	<b>Each</b>	<b>4,92</b>
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3/8"

**953D**



**Orig. Gedore - Art. 3090-2**

Product description as Art. 953C  
Extension length 50mm.

<b>953D 2</b>	<b>Each</b>	<b>15,40</b>
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3/8"

**953D 2**



**Orig. Gedore - Art. 3090-3**

Product description as Art. 953C  
Extension. Length: 75mm.

<b>953D 3</b>	<b>Each</b>	<b>13,30</b>
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3/8"

**953D 3**



**Orig. Gedore - Art. 3090-5**

Product description as Art. 953C  
Extension. Length: 125mm.

<b>953E</b>	<b>Each</b>	<b>15,70</b>
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3/8"

**953E**



**Orig. Gedore - Art. 3090-10**

Product description as Art. 953C  
Extension. Length: 250mm.

<b>953F</b>	<b>Each</b>	<b>22,30</b>
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3/8"

**953F**



**Orig. Gedore - Art. 3090 KR**

Product description as Art. 953C  
Angular extensions with 15° inclination.

Overall length	mm	76	125	250
<b>953G</b>	<b>Each</b>	<b>16,60</b>	<b>29,80</b>	<b>33,10</b>



3/8"

**953G**



**Orig. Gedore - Art. 3087**

Product description as Art. 953C  
Sliding bar 160mm.

<b>953H</b>	<b>Each</b>	<b>18,90</b>
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3/8"

**953H**



953I



3/8"

**Orig. Gedore - Art. 3095**

Product description as Art. 953C

Cardan joint 49mm.

953I Each 38,50

953L



3/8"

**Orig. Gedore - Art. 3081**

Product description as Art. 953C

Fixed, bent lever 180mm.

953L Each 22,10

953N



3/8"

**Orig. Gedore - Art. 3096**

Product description as Art. 953C

Jointed lever. Length: 254mm.

953N Each 49,10

### RATCHETS

953P



3/8"

**Orig. Gedore - Art. 3093Z-94**

In CHROME VANADIUM steel. Chrome plated finish.

3/8" square drive (9.52mm).

Ratchet with reverse square drive.

Rubber handle. Fine toothed.

Length: 200mm.

953P Each 46,90

When stocks run out the ratchet lever will be supplied with a black/blue handle.

953S



3/8"

**Orig. Gedore - Art. 3093U-3**

Product description as Art. 953P

Ratchet with dial change for clockwise and counter clockwise operation.

Rubber handle. Fine toothed.

Length: 200mm.

953S Each 68,70

953T



3/8"

**Orig. Gedore - Art. 3093U-10**

Product description as Art. 953P

Ratchet with lever change for clockwise, counter-clockwise and fixed operation.

Rubber handle. With tip click quick change, with button.

Fine toothed.

Length: 200mm.

953T Each 95,80

953TB



3/8"

**Orig. Gedore - Art. 3093U-20**

Product description as Art. 953P

Ratchet with lever change for clockwise and counter-clockwise operation.

Dual-material handle. With tip click quick change, with button.

Fine toothed.

Length: 200mm.

953TB Each 91,80

953V



3/8"

**Orig. Gedore - Art. 3093GU-3**

Product description as Art. 953P

Ratchet bent at 180°. With dial change for clockwise and counter-clockwise operation.

Rubber handle. Fine toothed.

Length: 282mm.

953V Each 106,00

When stocks run out the ratchet lever will be supplied with a black/blue handle.

953Z



3/8"

**Orig. Gedore - Art. 3093U-10K**

In synthetic material reinforced with glass fibers. Screwing up to 70 Nm. Very light, compact and handy. Ergonomic handle for easy operation. With lever change for clockwise, counter clockwise and fixed operation.

3/8" square drive. Dimensions: 44x145x39mm. Colour: blue.

953Z Each 51,40

Product running out of stock.

**Orig. Gedore - Art. 3093 U-3 T**

In special steel. Burnished finish. 3/8" square drive (9.52mm).  
Ratchet with dial change for clockwise and counter clockwise operation. 2-arm grip in anti-slip plastic material.  
Ideal for rapid tightening combined with extensions Art. 953 E-F-G.  
Length: 140mm.



**954**



3/8"

954	Each	48,70
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**SETS OF SOCKETS**

**Orig. Carolus - Art. 6600.100**

In special steel.  
Chrome plated finish. 3/8" square drive sockets and joints.  
Set supplied in metal case.  
Contains 12 tools.  
Comprises:  
10 hex sockets Art. 956 RE 6-7-8-9-10-11-13-14-17-19mm  
1 extension/T grip/reduction from 1/2" to 3/8"  
1 ratchet with lever change, quick release, extra slim head, Art. 956 RTE 195mm  
Complete set.



**954GP**



3/8"

954GP	Each	71,10
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**Orig. Carolus - Art. 6600.300**

Product description as Art. 954GP  
Contains 22 tools.  
Comprises:  
17 hex sockets Art. 956 RE 6-7-8-9-10-11-13-14-14-19-20-21-22mm  
1 extension Art. 956 RH 150mm  
1 extension Art. 956 RH 250mm  
1 joint Art. 956 RF  
1 extension/T grip/reduction from 1/2" to 3/8"  
1 ratchet with lever change, quick release, extra slim head, Art. 956 RTE 195mm  
Complete set.



**954GR**



3/8"

954GR	Each	122,00
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**SOCKETS, 3/8" DRIVE DIN 3120-ISO 1174**

**Orig. Carolus - Art. 6100-6200**

In special steel. Chrome plated finish.  
Slots inside the square drive for ratchet balls and sliding bars.  
Internal hex type. Length: 28mm.



**956RE**



3/8"

Opening	mm	6	7	8	9	10	11	12	13	14
956RE	Each	3,78	3,78	3,78	3,78	3,78	3,78	3,78	3,78	3,78
Opening	mm	15	16	17	18	19	20	21	22	24
956RE	Each	4,08	4,08	4,08	4,08	4,08	4,86	4,86	4,86	4,86
Opening	inches	5/8	11/16	3/4						
956RE	Each	3,36	3,54	3,54						

Sizes 5/8, 11/16 and 3/4 running out of stock.

**Orig. Carolus - Art. 6180**

Product description as Art. 956RE  
Type with MULTIPLE PROFILE to tighten screws with hex, hex worn/rounded by up to 50%, polygonal, TORX, XZN-SPLINE, square heads. Length 28mm.



**956REF**



3/8"

Opening	mm	6	7	8	9	10	11	12
956REF	Each	3,78	3,78	3,78	3,78	3,78	3,78	3,78
Opening	mm	13	14	15	16	17	18	19
956REF	Each	3,78	3,78	4,08	4,08	4,08	4,08	4,08
Opening	mm	20	21	22	24			
956REF	Each	4,86	4,86	4,86	4,86			

**Orig. Carolus - Art. 6300**

Product description as Art. 956RE  
Internal TORX type. Length: 26mm.



**956RET**



3/8"

TORX size	E	4	5	6	7	8	10	12
Seal	mm	3,8	4,7	5,6	6,1	7,4	9,3	11,1
956RET	Each	3,78	3,78	3,78	3,78	3,78	3,78	3,78
TORX size	E	14	16	18	20			
Seal	mm	12,8	14,7	16,7	18,4			
956RET	Each	4,08	4,08	4,24	4,70			



3/8"

**Orig. Carolus - Art. 6060**

Product description as Art. 956RE

Swivel type. Internal hex type. Length: 49mm.

Opening	mm	15	17
<b>956REZ</b>	Each	7,06	7,42

Product running out of stock.

### SPARE PARTS FOR SOCKETS



3/8"

**Orig. Carolus - Art. 6130.00**

In special steel. Chrome plated finish.

3/8" square drive (9.52mm).

Cardan joint. Length: 49mm.

<b>956RF</b>	Each	9,24
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3/8"

**Orig. Carolus - Art. 6150.45**

Product description as Art. 956RF

Extension. Length: 45mm.

<b>956RG</b>	Each	5,38
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3/8"

**Orig. Carolus - Art. 6150.15**

Product description as Art. 956RF

Extension. Length: 150mm.

<b>956RH</b>	Each	6,70
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3/8"

**Orig. Carolus - Art. 6150.250**

Product description as Art. 956RF

Extension. Length 250mm.

<b>956RHE</b>	Each	10,10
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1/4"

3/8"

**Orig. Carolus - Art. 6070.60**

Product description as Art. 956RF

Insert socket adapter, 3/8" square drive, 1/4" hexagonal drive. Length 30 mm.

<b>956RI</b>	Each	5,56
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5/16"

3/8"

**Orig. Carolus - Art. 6070.10**

Product description as Art. 956RF

Socket reduction for inserts, 3/8" square drive, 5/16" hex drive. Length 30mm.

<b>956RLA</b>	Each	5,56
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3/8"

**Orig. Carolus - Art. 6015.15**

Product description as Art. 956RF

Socket adapter, 3/8" square drive and 15mm male hexagonal drive. Length 24 mm.

<b>956RM</b>	Each	6,46
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Ideal for use in combination with ratchet wrenches Art. 879 Dx15-879 FEx15-879 GEx15-879 GMx15.

### RATCHETS



3/8"

**Orig. Carolus - Art. 6190.30**

In special steel. Chrome plated finish.

3/8" square drive (9.52mm).

Ratchet with dial change for clockwise and counter clockwise operation.

Rubber dual component handle. Fine toothed.

Length: 200mm.

<b>956RS</b>	Each	32,10
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3/8"

**Orig. Carolus - Art. 6190.20**

Product description as Art. 956RS

Ratchet with lever change for clockwise and counter-clockwise movement.

Rubber bi-component handle. With button-operated quick-release safety system. Fine toothed.

Length 205mm.

<b>956RT</b>	Each	32,10
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**Orig. Carolus - Art. 6190.50**

Product description as Art. 956RS

Ratchet with lever change for clockwise and counter-clockwise movement.  
Extra-slim head, bi-component rubber grip. With button-operated quick-release safety system.  
Fine toothed.  
Length 195mm.

**956RTE** Each **44,60**

**carolus** <sup>technic</sup> **3/8"** **956RTE**



**Orig. Carolus - Art. 6290.00**

Product description as Art. 956RS

Flexible ratchet, multi angled. With dial change for clockwise and counter-clockwise operation.  
Rubber handle. Fine toothed.  
Length: 225mm.

**956RV** Each **57,90**

**carolus** <sup>technic</sup> **3/8"** **956RV**



**3**

**Orig. Carolus - Art. 6225.00**

Product description as Art. 956RS

Flexible ratchet, multi-angled. With lever change for clockwise and counter-clockwise movement.  
Rubber bi-component handle. With button-operated quick-release safety system. Fine toothed.  
Length 225mm.

**956RZ** Each **57,90**

**carolus** <sup>technic</sup> **3/8"** **956RZ**



**SETS OF SOCKETS**

**Orig. Gedore - Art. 19 KMU-20**

Made from CHROME-VANADIUM steel. Chrome plated.  
Sockets and joints with 1/2 inch square driver (12.7 mm). Supplied in metal casing.  
Contains 13 tools.  
Comprises:  
11 hex sockets Art. 969 RA 10 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 22 - 24mm  
1 extension Art. 970 RF 125mm  
1 ratchet with lever change, quick release, Art. 970 RTB 270mm  
Complete set.

**957GA** Each **280,00**

**GEDORE** **1/2"** **957GA**  
**957GB**



**Orig. Gedore - Art. D 19 KMU-20**

Product description as Art. 957GA  
Contains 13 tools.  
Comprises:  
11 polygonal sockets Art. 969 RB 10 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 22 - 24mm  
1 extension Art. 970 RF 125mm  
1 ratchet with lever change, quick release, Art. 970 RTB 270mm  
Complete set.

**957GB** Each **288,00**

**960GA**  
**960GB**



**Orig. Gedore - Art. 19 JMU-3**

Product description as Art. 957GA

Contains 19 tools.

Comprises:

15 hex sockets Art. 969 RA 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24mm

1 extension Art. 970 RF 125mm

1 extension Art. 970 RF 250mm

1 ratchet lever with disk Art. 970 RS 270mm

1 cardan joint Art. 970 RI

Complete set.

**960GA** Each **382,00**
**Orig. Gedore - Art. D 19 JMU-3**

Product description as Art. 957GA

Contains 19 tools.

Comprises:

15 polygonal sockets Art. 969 RB 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24mm

1 extension Art. 970 RF 125mm

1 extension Art. 970 RF 250mm

1 ratchet lever with disk Art. 970 RS 270mm

1 cardan joint Art. 970 RI

Complete set.

**960GB** Each **382,00**
**962GE**



**Orig. Gedore - Art. 19 FMU-10**

Product description as Art. 957GA

19-tool set.

Each set contains:

14 x 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19 - 22 - 24 - 27 - 30 - 32mm hexagonal sockets Art. 969 RA

1 x 270mm ratchet, dial change Art. 970 RT

1 x 290mm sliding bar Art. 970 RH

1 x 125mm extension, 1x 250mm extension Art. 970 RF

1 x cardan joint Art. 970 RI

Complete assortment.

**962GE** Each **321,00**

Product running out of stock.

**968G**  
**968GE**



**Orig. Gedore - Art. D 19 TMU-10**

Product description as Art. 957GA

Contains 25 tools.

Comprises:

19 bi-hex sockets Art. 969 RB 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 30 - 32mm

1 speed brace Art. 970 RC 395mm

1 ratchet with lever change, quick release, Art. 970 RT

1 sliding lever Art. 970 RH 290mm

1 extension Art. 970 RF 125mm

1 extension Art. 970 RF 250mm

1 cardan joint Art. 970 RI

Complete set.

**968G** Each **534,00**
**Orig. Gedore - Art. 19 TMU-19**

Product description as Art. 957GA

Contains 25 tools.

Comprises:

19 hex sockets Art. 969 RA 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 30 - 32mm

1 speed brace Art. 970 RC 395mm

1 ratchet with lever change, quick release, Art. 970 RT

1 sliding lever Art. 970 RH 290mm

1 extension Art. 970 RF 125mm

1 extension Art. 970 RF 250mm

1 cardan joint Art. 970 RI

Complete set.

**968GE** Each **532,00**

When stocks run out the ratchet lever will be supplied with a black/blue handle.



**Orig. Gedore - Art. D 19 EMU-20**

Product description as Art. 957GA

Contains 23 tools.

Comprises:

18 bi-hex sockets Art. 969 RB 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32mm

1 ratchet with lever change, quick release, Art. 970 RTB

1 sliding lever Art. 970 RH 290mm

1 extension Art. 970 RF 125mm

1 extension Art. 970 RF 250mm

1 cardan joint Art. 970 RI

Complete set.

<b>968GK</b>	Each	<b>465,00</b>
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**Orig. Gedore - Art. 19 EMU-20**

Product description as Art. 957GA

Contains 23 tools.

Comprises:

18 hex sockets Art. 969 RA 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32mm

1 ratchet with lever change, quick release, Art. 970 RTB

1 sliding lever Art. 970 RH 290mm

1 extension Art. 970 RF 125mm

1 extension Art. 970 RF 250mm

1 cardan joint Art. 970 RI

Complete set.

<b>968GL</b>	Each	<b>427,00</b>
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**968GK**  
**968GL**

**3**
**Orig. Gedore - Art. D 19 WAU-20**

Product description as Art. 957GA

Contains 32 tools.

Comprises:

20 polygonal sockets Art. 969 RB size: 5/16 - 11/32 - 3/8 - 13/32 - 7/16 - 1/2 - 9/16 - 19/32 - 5/8 - 11/16 - 3/4 - 25/32 - 13/16 - 7/8 - 15/16 - 1 - 1.1/16 - 1.1/8 - 1.3/16 - 1.1/4 inches

8 Allen wrenches, supporting, size 5/64 - 3/32 - 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 5/16 inches

1 ratchet with lever change, quick release, Art. 970 RTB 270mm

1 extension Art. 970 RF 125mm

1 extension Art. 970 RF 250mm

1 cardan joint Art. 970 RI

Complete set.

<b>969GA</b>	Each	<b>531,00</b>
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**969GA**

**Orig. Gedore - Art. D 19 IMU-10**

Product description as Art. 957GA

27-tool set.

Each set contains:

12 x 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 - 24 - 27 - 30mm bi-hex sockets Art. 969 RB

1 x 270mm ratchet, dial change Art. 970 RT, 1 x cardan joint Art. 970 RI

1 x 125mm extension Art. 970 RF, 1 x 250mm extension Art. 970 RF

7 x 5 - 6 - 7 - 8 - 10 - 12 - 14mm external hex sockets Art. 969 RV

2 x 8mm - 10mm flat-tip sockets Art. 969 RD

2 x cross-tip sockets Size 2 - 3 Art. 969 RF

Complete assortment.

<b>969GD</b>	Each	<b>540,00</b>
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**Orig. Gedore - Art. 19 IMU-10**

Product description as Art. 957GA

27-tool set.

Each set contains:

12 x 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 - 24 - 27 - 30mm Art. 969 RA

1 x 270mm ratchet, dial change Art. 970 RT, 1 x cardan joint Art. 970 RI

1 x 125mm extension Art. 970 RF, 1 x 250 extension Art. 970 RF

7 x 5 - 6 - 7 - 8 - 10 - 12 - 14mm external hex sockets Art. 969 RV

2 x 8mm - 10mm flat-tip sockets Art. 969 RD

2 x cross-tip sockets Size 2 - 3 Art. 969 RF

Complete assortment.

<b>969GE</b>	Each	<b>540,00</b>
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When stocks run out the ratchet lever will be supplied with a black/blue handle.

**969GD**  
**969GE**


**969GH**

1/2"

1/4"



**Orig. Gedore - Art. 19V 20U-10**

In CHROME VANADIUM steel. Chrome plated finish.  
Sockets and joints with 1/4" square drive (6.35mm) and 1/2" square drive (12.7mm).  
Assorted sets supplied in metal case.  
50-tool set.  
Each set contains:  
1 x 270mm ratchet, lever change, rapid release, 1/2" drive Art. 970 RT  
12 x 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 - 24 - 27 - 30mm hexagonal sockets, 1/2" drive Art. 969 RA  
1 x 125mm extension, 1/2" drive, 1 x 250mm extension, 1/2" drive  
1 x 1/2" drive cardan joint  
5 x 7 - 8 - 10 - 12 - 14mm external hex sockets, 1/2" drive  
2 x 8mm - 10mm flat-tip sockets, 1/2" drive  
1 x cross-tip sockets, Size 3, 1/2" drive  
11 x 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 13mm hexagonal sockets, 1/4" drive  
1 x 127mm ratchet, dial change, 1/4" drive  
1 x 1/4" sliding bar, 1 x 1/4" drive cardan joint Art. 942 H  
1 x 50mm extension, 1/4" drive, 1 x 100mm extension, 1/4" drive Art. 942 P  
1 x 1/4" socket-holder with plastic handle  
4 x 3 - 4 - 5 - 6mm external hex sockets, 1/4" drive 941 RF  
3 x 4 - 5.5 - 6.5 flat-tip sockets, 1/4" drive Art. 941 RB  
2 x cross-tip sockets Size 1 - 2, 1/4" drive Art. 941 RC  
Complete assortment.

**969GH** Each **803,00**

When stocks run out the ratchet lever will be supplied with a black/blue handle.

**SOCKETS 1/2" DRIVE, DIN 3120-ISO 1174**

**969RA**



1/2"

**Orig. Gedore - Art. 19**

In CHROME VANADIUM steel. Chrome plated finish.  
Inside slots for ratchet balls and sliding bars.  
Internal hex type

Opening	mm	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>
Overall length	mm	38	38	38	38	38	38	38
<b>969RA</b>	<b>Each</b>	<b>10,60</b>	<b>10,60</b>	<b>9,00</b>	<b>9,68</b>	<b>9,68</b>	<b>9,00</b>	<b>9,90</b>
Opening	mm	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>
Overall length	mm	39	39	39	39	40	40	41
<b>969RA</b>	<b>Each</b>	<b>9,90</b>	<b>9,90</b>	<b>10,60</b>	<b>11,40</b>	<b>10,60</b>	<b>11,60</b>	<b>12,50</b>
Opening	mm	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>
Overall length	mm	41	41	41	41	41	41	43
<b>969RA</b>	<b>Each</b>	<b>11,70</b>	<b>12,80</b>	<b>12,90</b>	<b>14,80</b>	<b>14,10</b>	<b>16,20</b>	<b>17,20</b>
Opening	mm	<b>29</b>	<b>30</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>36</b>	
Overall length	mm	43	43	44	44	44	44	
<b>969RA</b>	<b>Each</b>	<b>17,90</b>	<b>17,30</b>	<b>17,30</b>	<b>18,80</b>	<b>18,60</b>	<b>26,10</b>	

**969RB**



1/2"

**Orig. Gedore - Art. D19**

Product description as Art. 969RA  
Internal bi-hex type

Opening	mm	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>
Overall length	mm	38	38	38	38	38	38	38	39
<b>969RB</b>	<b>Each</b>	<b>10,60</b>	<b>11,10</b>	<b>9,00</b>	<b>9,68</b>	<b>9,68</b>	<b>9,00</b>	<b>9,90</b>	<b>9,90</b>
Opening	mm	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>
Overall length	mm	39	39	39	40	40	41	41	41
<b>969RB</b>	<b>Each</b>	<b>9,90</b>	<b>10,60</b>	<b>11,40</b>	<b>10,60</b>	<b>11,60</b>	<b>12,50</b>	<b>11,70</b>	<b>12,80</b>
Opening	mm	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>32</b>
Overall length	mm	41	41	41	41	43	43	43	44
<b>969RB</b>	<b>Each</b>	<b>12,90</b>	<b>15,10</b>	<b>14,40</b>	<b>16,60</b>	<b>17,60</b>	<b>18,40</b>	<b>17,70</b>	<b>17,70</b>
Opening	mm	<b>33</b>	<b>34</b>	<b>36</b>					
Overall length	mm	44	44	44					
<b>969RB</b>	<b>Each</b>	<b>18,80</b>	<b>18,60</b>	<b>26,10</b>					
Opening	inches	<b>5/16</b>	<b>11/32</b>	<b>3/8</b>	<b>13/32</b>	<b>7/16</b>	<b>1/2</b>	<b>9/16</b>	<b>19/32</b>
Overall length	mm	38	38	38	38	38	38	38	39
<b>969RB</b>	<b>Each</b>	<b>11,10</b>	<b>13,50</b>	<b>11,10</b>	<b>11,10</b>	<b>11,10</b>	<b>11,10</b>	<b>11,50</b>	<b>11,50</b>
Opening	inches	<b>5/8</b>	<b>11/16</b>	<b>3/4</b>	<b>25/32</b>	<b>13/16</b>	<b>7/8</b>	<b>15/16</b>	<b>1</b>
Overall length	mm	39	39	40	40	41	41	41	41
<b>969RB</b>	<b>Each</b>	<b>11,50</b>	<b>12,30</b>	<b>12,30</b>	<b>12,30</b>	<b>13,70</b>	<b>13,70</b>	<b>14,70</b>	<b>14,70</b>
Opening	inches	<b>1.1/16</b>	<b>1.1/8</b>	<b>1.3/16</b>	<b>1.1/4</b>				
Overall length	mm	41	43	43	44				
<b>969RB</b>	<b>Each</b>	<b>18,10</b>	<b>18,10</b>	<b>18,80</b>	<b>19,30</b>				

**Orig. Gedore - Art. 19L**

Product description as Art. 969RA

Long pattern, internal hex type

Opening	mm	10	11	12	13	14	15	16
Overall length	mm	77	77	77	77	77	77	77
<b>969RBE</b>	<b>Each</b>	<b>23,90</b>	<b>23,90</b>	<b>23,90</b>	<b>23,90</b>	<b>24,80</b>	<b>26,70</b>	<b>26,70</b>
Opening	mm	17	18	19	21	22	24	27
Overall length	mm	77	82	82	82	82	82	82
<b>969RBE</b>	<b>Each</b>	<b>26,70</b>	<b>27,70</b>	<b>25,90</b>	<b>33,40</b>	<b>30,20</b>	<b>31,40</b>	<b>32,80</b>
Opening	mm	30	32	34				
Overall length	mm	82	82	82				
<b>969RBE</b>	<b>Each</b>	<b>34,20</b>	<b>36,80</b>	<b>38,60</b>				



**969RBE**



1/2"

3

**Orig. Gedore - Art. D19L**

Product description as Art. 969RA

Long pattern. Internal hex type.

Opening	mm	10	12	13	14	15	16	17	18
Overall length	mm	77	77	77	77	77	77	77	82
<b>969RC</b>	<b>Each</b>	<b>23,90</b>	<b>23,90</b>	<b>23,90</b>	<b>24,80</b>	<b>26,70</b>	<b>26,70</b>	<b>26,70</b>	<b>27,70</b>
Opening	mm	19	21	22	24	27	30	32	34
Overall length	mm	82	82	82	82	82	82	82	82
<b>969RC</b>	<b>Each</b>	<b>25,90</b>	<b>27,90</b>	<b>28,50</b>	<b>29,10</b>	<b>32,40</b>	<b>33,90</b>	<b>35,20</b>	<b>38,20</b>



**969RC**



1/2"



**Orig. Gedore - Art. IS19**

Product description as Art. 969RA

Flat-tip screwdriver type. Length: 60mm.

Blade width	mm	6,5	8	10	12	14	16	18
Blade thickness	mm	1,2	1,2	1,6	2	2,5	2,5	2,5
<b>969RD</b>	<b>Each</b>	<b>23,80</b>	<b>18,50</b>	<b>18,50</b>	<b>19,20</b>	<b>22,10</b>	<b>23,20</b>	<b>23,70</b>



**969RD**



1/2"

**Orig. Gedore - Art. IKS19**

Product description as Art. 969RA

Phillips screwdriver type. Length: 60mm.

Size		2	3	4
<b>969RF</b>	<b>Each</b>	<b>17,60</b>	<b>17,60</b>	<b>17,60</b>



**969RF**



1/2"

**Orig. Gedore - Art. IKS19 PZD**

Product description as Art. 969RA

Pozidriv screwdriver type. Length: 60mm.

Size		2	3	4
<b>969RL</b>	<b>Each</b>	<b>17,60</b>	<b>17,60</b>	<b>18,70</b>



**969RL**



1/2"

**Orig. Gedore - Art. INX19**

Product description as Art. 969RA

External bi-hex type. Length: 55mm.

For screws	M	5	6	8	10	12	14
<b>969RM</b>	<b>Each</b>	<b>17,40</b>	<b>17,40</b>	<b>17,40</b>	<b>20,20</b>	<b>22,30</b>	<b>23,30</b>



**969RM**



1/2"

**Orig. Gedore - Art. INX19L**

Product description as Art. 969RA

Long pattern. External hex type. Length: 100mm.

For screws	M	6	8	10	12	14
<b>969RP</b>	<b>Each</b>	<b>18,50</b>	<b>18,50</b>	<b>23,00</b>	<b>26,60</b>	<b>28,70</b>



**969RP**



1/2"

**Orig. Gedore - Art. IN19 RIBE**

Product description as Art. 969RA

RIBE type. Length: 55mm.

For screws	M	5	6	8	10	12	14	16
<b>969RQ</b>	<b>Each</b>	<b>17,80</b>	<b>18,70</b>	<b>18,70</b>	<b>19,90</b>	<b>20,80</b>	<b>21,20</b>	<b>22,40</b>



**969RQ**



1/2"

**Orig. Gedore - Art. IN19L - RIBE**

Product description as Art. 969RA

Long pattern. RIBE type. Length: 100mm.

For screws	M	5	6	8	10	12	14	16
<b>969RQ 1</b>	<b>Each</b>	<b>19,20</b>	<b>19,20</b>	<b>19,60</b>	<b>21,20</b>	<b>22,30</b>	<b>24,60</b>	<b>24,90</b>



**969RQ 1**



1/2"

**969RS**



1/2"

**Orig. Gedore - Art. ITX 19**  
 Product description as Art. 969RA  
 External TORX type. Length: 55mm.

TORX size	T	20	25	27	30	40	45	50	
Seal	mm	3,86	4,43	4,99	5,52	6,65	7,82	8,83	
<b>969RS</b>	<b>Each</b>	<b>16,70</b>	<b>16,70</b>	<b>16,70</b>	<b>16,70</b>	<b>19,10</b>	<b>19,10</b>	<b>19,10</b>	
TORX size	T	55	60						
Seal	mm	11,22	13,25						
<b>969RS</b>	<b>Each</b>	<b>24,90</b>	<b>24,90</b>						

**969RT**



1/2"

**Orig. Gedore - Art. ITX 19 L**  
 Product description as Art. 969RA  
 Long pattern. External TORX type. Length: 100mm.

TORX size	T	20	25	27	30	40	45	50
Seal	mm	3,86	4,43	4,99	5,52	6,65	7,82	8,83
<b>969RT</b>	<b>Each</b>	<b>19,60</b>	<b>19,60</b>	<b>19,60</b>	<b>19,60</b>	<b>22,20</b>	<b>22,20</b>	<b>22,20</b>
TORX size	T	55	60	70				
Seal	mm	11,22	13,25	15,51				
<b>969RT</b>	<b>Each</b>	<b>28,90</b>	<b>28,90</b>	<b>35,10</b>				

**969RT 1**



1/2"

**Orig. Gedore - Art. TX 19 E**  
 Product description as Art. 969RA  
 Internal TORX type. Length: 38mm.

TORX size	E	10	11	12	14	16	18	20	
Seal	mm	9,3	10,08	11,1	12,8	14,7	16,6	18,4	
<b>969RT 1</b>	<b>Each</b>	<b>14,80</b>	<b>14,80</b>	<b>14,80</b>	<b>16,10</b>	<b>16,10</b>	<b>16,90</b>	<b>16,90</b>	
TORX size	E	24							
Seal	mm	22,1							
<b>969RT 1</b>	<b>Each</b>	<b>23,40</b>							

**969RT 3**



1/2"

**Prod. SCU**  
 Product description as Art. 969RA  
 External TORX type. With hole.

TORX size	T	20	25	27	30	40	45	50
Overall length	mm	55	55	55	55	55	55	55
Seal	mm	3,86	4,43	4,99	5,52	6,65	7,82	8,83
<b>969RT 3</b>	<b>Each</b>	<b>7,90</b>	<b>7,90</b>	<b>7,90</b>	<b>7,90</b>	<b>7,90</b>	<b>7,90</b>	<b>7,90</b>
TORX size	T	55	60	70				
Overall length	mm	55	60	60				
Seal	mm	11,22	13,25	15,51				
<b>969RT 3</b>	<b>Each</b>	<b>7,90</b>	<b>9,70</b>	<b>12,10</b>				

**969RT 5**



1/2"

Product description as Art. 969RA  
 Long pattern. External TORX type. With hole. Length: 100mm.

TORX size	T	20	25	27	30	40	45	50
Seal	mm	3,86	4,43	4,99	5,52	6,65	7,82	8,83
<b>969RT 5</b>	<b>Each</b>	<b>9,04</b>	<b>9,04</b>	<b>9,04</b>	<b>9,04</b>	<b>9,04</b>	<b>9,04</b>	<b>9,04</b>
TORX size	T	55	60	70				
Seal	mm	11,22	13,25	15,51				
<b>969RT 5</b>	<b>Each</b>	<b>9,04</b>	<b>10,30</b>	<b>15,20</b>				

**969RV**



1/2"

**Orig. Gedore - Art. IN 19**  
 Product description as Art. 969RA  
 External hex type. Length: 60mm.

Opening	mm	4	5	6	7	8	9	10
<b>969RV</b>	<b>Each</b>	<b>11,10</b>	<b>11,10</b>	<b>11,10</b>	<b>11,10</b>	<b>11,10</b>	<b>12,10</b>	<b>12,80</b>
Opening	mm	12	14	17	19			
<b>969RV</b>	<b>Each</b>	<b>12,80</b>	<b>15,50</b>	<b>17,20</b>	<b>17,90</b>			
Opening	inches	3/16	7/32	1/4	9/32	5/16	3/8	1/2
<b>969RV</b>	<b>Each</b>	<b>12,40</b>	<b>12,40</b>	<b>12,40</b>	<b>12,40</b>	<b>12,70</b>	<b>12,70</b>	<b>14,30</b>
Opening	inches	9/16	5/8					
<b>969RV</b>	<b>Each</b>	<b>16,40</b>	<b>18,80</b>					

**Orig. Gedore - Art. IN 19L**

Product description as Art. 969RA

Long pattern. External hex type.

Opening	mm	5	5L	6	6L	7	8	10
Overall length	mm	90	180	90	160	100	120	140
<b>969RZ</b>	Each	<b>12,90</b>	<b>15,30</b>	<b>12,90</b>	<b>15,30</b>	<b>12,90</b>	<b>14,50</b>	<b>17,50</b>

Opening	mm	12	14
Overall length	mm	140	140
<b>969RZ</b>	Each	<b>18,40</b>	<b>21,50</b>

**GEDORE**

**969RZ**



1/2"

**Orig. Gedore - Art. IN 19LK**

Product description as Art. 969RA

Long pattern. Ball hex type, bent up to 20°.

Opening	mm	6	7	8	10	12	14
Overall length	mm	140	140	140	140	140	140
<b>969RZ 1</b>	Each	<b>16,30</b>	<b>17,90</b>	<b>18,60</b>	<b>20,30</b>	<b>22,40</b>	<b>32,50</b>

**GEDORE**

**969RZ 1**

**3**



1/2"

**Orig. Gedore - Art. IN 19K**

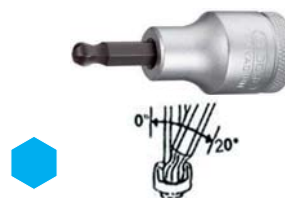
Product description as Art. 969RA

Type with ball hexagon, for use inclined by up to 20°.

Opening	mm	6	7	8	10	12	14
Overall length	mm	60	60	60	60	60	60
<b>969RZ 3</b>	Each	<b>13,10</b>	<b>13,20</b>	<b>14,10</b>	<b>15,30</b>	<b>17,50</b>	<b>19,40</b>

**GEDORE**

**969RZ 3**



1/2"

**INSERT WRENCHES 3/8" DRIVE, DIN 3120-ISO 1174**

**Orig. Klann**

In CHROME-MOLYBDENUM steel. Burnished steel.

Hex open end bit type for nuts placed in confined areas.

Opening	mm	22	24	27	30	32
Overall length	mm	57	60	62	68	72
Overall width	mm	40	43	48	52	56
Thickness	mm	12	12	12	12	13
Opening width	mm	17	19	23	24	26
Supplier code		KL-4076-3022	KL-4076-3024	KL-4076-3027	KL-4076-3030	KL-4076-3032
<b>970RA</b>	Each	<b>12,50</b>	<b>13,60</b>	<b>14,80</b>	<b>19,60</b>	<b>21,50</b>

**KLANN**

**970RA**



1/2"

Product description as Art. 970RA

Open jaw spanner type for nuts in confined areas.

Opening	mm	36	41	46
Overall length	mm	81	89	91
Overall width	mm	75	88	92
Thickness	mm	12	13	13
Supplier code		KL-4076-3036	KL-4076-3041	KL-4076-3046
<b>970RB</b>	Each	<b>29,50</b>	<b>33,30</b>	<b>36,10</b>

**KLANN**

**970RB**



1/2"

**SPARE PARTS FOR SOCKETS**

**Orig. Gedore - Art. 1985**

In CHROME VANADIUM steel.

Chrome plated finish. 1/2" square drive (12.7mm).

Brace levers 395mm.

<b>970RC</b>	Each	<b>36,20</b>
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**GEDORE**

**970RC**



1/2"

**Orig. Gedore - Art. 1994**

Product description as Art. 970RC

Square drives 37mm.

<b>970RD</b>	Each	<b>5,42</b>
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**GEDORE**

**970RD**



1/2"

970RF



1/2"



Orig. Gedore - Art. 1990

Product description as Art. 970RC

Extensions.

Overall length	mm	63	76	125	180	250	305
<b>970RF</b>	Each	14,50	14,50	15,60	19,40	22,10	26,90

970RF 1



1/2"



Orig. Gedore - Art. 1990A

Product description as Art. 970RC

Extension provided with ring nut for rapid release.

Overall length	mm	125	250
<b>970RF 1</b>	Each	36,90	41,30

Particularly suitable to be used with ratchet wrenches Art. 970 RT-970 RTB-970 RU-970 RV-970 S.

970RG



1/2"



Orig. Gedore - Art. 1990 KR

Product description as Art. 970RC

Angular extensions with 15° inclination.

Overall length	mm	125	180	250
<b>970RG</b>	Each	24,50	34,80	30,40

970RGE

new



1/2"



Orig. Gedore - Art. 1990 M

Product description as Art. 970RC

Extensions with magnet to hold nuts and bolts in screwing/unscrewing operations. Particularly suitable for use in places that are hard to access.

Overall length	mm	83
<b>970RGE</b>	Each	40,90

970RH



1/2"



Orig. Gedore - Art. 1987

Product description as Art. 970RC

Sliding bars 290mm.

<b>970RH</b>	Each	23,80
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970RI



1/2"



Orig. Gedore - Art. 1995

Product description as Art. 970RC

Cardan joints 73mm.

<b>970RI</b>	Each	39,30
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970RL



1/2"



Orig. Gedore - Art. 1981 K

Product description as Art. 970RC

Fixed, bent levers 220mm.

<b>970RL</b>	Each	21,10
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970RM



1/2"



Orig. Gedore - Art. 1997

Product description as Art. 970RC

Jointed levers 380mm.

<b>970RM</b>	Each	67,10
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When stocks run out the ratchet lever will be supplied with a black/blue handle.

### RATCHETS

970RN



1/2"



Orig. Gedore - Art. 1940

In CHROME VANADIUM steel.

Chrome plated finish. 1/2" square drive (12.7mm).

Fixed knurled disk to be inserted between the ratchet lever and the socket for rapid approach of screws.

<b>970RN</b>	Each	9,70
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970RP



1/2"



Orig. Gedore - Art. 1993Z-94

Product description as Art. 970RN

Ratchets with reverse square drive. Rubber handle. Fine toothed.

Length: 270mm.

<b>970RP</b>	Each	57,10
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**Orig. Gedore - Art. 1993U-3**

Product description as Art. 970RN  
Ratchets with dial change for clockwise and counter clockwise operation.  
Rubber handle. Fine toothed. Length: 270mm.

**970RS** Each **72,40**



**Orig. Gedore - Art. 1993U-10T**

Product description as Art. 970RN  
Ratchets with lever change for clockwise, counter-clockwise and fixed operation.  
Rubber handle. Fine toothed. Length: 270mm.  
Tip klick quick change, with button.

**970RT** Each **107,00**

For spare parts and ratchet levers with safety insulation EN60900 see Art. 353 G L-M-N.  
While stocks last the ratchet lever will be supplied with a black/blue handle.



**Orig. Gedore - Art. 1993U-20**

Product description as Art. 970RN  
Ratchets with lever change for clockwise and counter-clockwise operation.  
Dual component handle. Fine toothed. Length: 270mm.  
Tip klick quick change, with button.

**970RTB** Each **93,30**



**Orig. Gedore - Art. 1993U-10L**

Product description as Art. 970RN  
Ratchets with lever change for clockwise, counter-clockwise and fixed operation.  
Rubber handle. Fine toothed. Length: 350mm.  
Tip klick quick change, with button.

**970RU** Each **128,00**



**Orig. Gedore - Art. 1993ALU-10**

Product description as Art. 970RN  
Ratchets, in alumium, weight: 350gr, with lever change for clockwise, counter-clockwise and fixed operation.  
Rubber handle. Fine toothed. Length: 270mm. Tip klick quick change, with button.

**970RV** Each **137,00**

When stocks run out the ratchet lever will be supplied with a black/blue handle.



**Orig. Gedore - Art. 1993GU-3**

Product description as Art. 970RN  
Ratchets, bent at 180°. With dial change for clockwise, counter clockwise and fixed operation.  
Rubber handle. Fine toothed. Length: 282mm.

**970RZ** Each **104,00**

When stocks run out the ratchet lever will be supplied with a black/blue handle.



**SPARE PARTS FOR SOCKETS**

**Orig. Gedore - Art. 1993GU-10XL**

In CHROME VANADIUM steel.  
Chrome plated finish. 1/2" square drive (12.7mm).  
Ratchets extra-long, connection 180° with block, weight: 350gr, with lever change for clockwise, counter-clockwise and fixed operation.  
Rubber handle. Fine toothed. Length: 600mm. Tip klick quick change, with button.

**970S** Each **190,00**

When stocks run out the ratchet lever will be supplied with a black/blue handle.



**RATCHETS**

**Orig. Gedore - Art. 1993U-10K**

In synthetic material reinforced with glass fibers. Screwing up to 70 Nm. Very light, compact and handy. Ergonomic handle for easy operation. With lever for clockwise, counter clockwise and fixed operation.  
1/2" square drive. Dimensions: 44x145x43mm. Colour: black.

**970T** Each **54,70**



**Prod. SCU**

Telescopic type with 6-position adjustable length, 300mm to 443mm.  
In sturdy steel pipe, dual-component handle with safe grip. Screwing up to approx. 600Nm.  
With lever change for RIGHT/LEFT movement and quick release system, with button.  
1/2" square drive.

**970V** Each **72,10**



## SETS OF SOCKETS

971A


1/2"
**Orig. Carolus - Art. 5500.105**

In special steel. Chrome plated finish.

Sockets and joints with 1/2" drive.

Assorted set supplied in metal case.

Contains 12 tools.

Comprises:

10 bi-hex sockets Art. 971 RLE 10 - 11 - 13 - 14 - 15 - 17 - 19 - 22 - 24 - 27mm

1 extension/T grip/conversion from 3/8" to 1/2"

1 ratchet with lever change, quick release, extra slim head, Art. 971 RTE 250mm

Complete set.

971A	Each	102,00
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971B


1/2"
**Orig. Carolus - Art. 5500.100**

Product description as Art. 971A

Contains 12 tools.

Comprises:

10 hex sockets Art. 971 RM 10 - 11 - 13 - 14 - 15 - 17 - 19 - 22 - 24 - 27mm

1 extension/T grip/conversion from 3/8" to 1/2"

1 ratchet with lever change, quick release, extra slim head, Art. 971 RTE 250mm

Complete set.

971B	Each	102,00
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971GD


1/2"
**Orig. Carolus - Art. 5012.00**

Product description as Art. 971A

Assorted set of 24 tools

comprising:

17 x bi-hex sockets Art. 971 RLE. Dimensions: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 28 - 30 - 32mm

1 x insert socket adapter, 1/2" square drive, 5/16" hexagonal drive Art. 971 RI

1 x 75mm extension Art. 971 RA

1 x 125mm extension Art. 971 RD

1 x 250mm extension Art. 971 RE

1 x 65mm cardan joint Art. 971 RG

1 x 250mm sliding rod Art. 971 RF

1 x 280mm ratchet with lever change, rapid release Art. 971 RT.

Complete assortment.

971GD	Each	170,00
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971GE


1/2"
**Orig. Carolus - Art. 5000.00**

Product description as Art. 971A

24-tool set.

Each set contains:

17 x 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 28 - 30 - 32mm hexagonal sockets Art. 971 RM

1 x insert socket adapter, 1/2" square drive, 5/16" hex drive Art. 971 RI

1 x 75mm extension Art. 971 RA

1 x 125mm extension Art. 971 RD

1 x 250mm extension Art. 971 RE

1 x 65mm cardan joint Art. 971 RG

1 x 250mm sliding bar Art. 971 RF

1 x 280mm ratchet, lever change, rapid release Art. 971 RT

Complete assortment.

971GE	Each	170,00
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971GN


1/2"
**Orig. Carolus - Art. 5500.400**

Product description as Art. 971A

Contains 32 tools.

Comprises:

19 hex sockets Art. 971 RM 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34mm

8 external hex sockets Art. 971 RQ 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17mm

1 extension Art. 971 RD 125mm

1 joint Art. 971 RG

1 extension/T grip/extension from 3/8" to 1/2"

1 ratchet with lever change, quick release, extra slim head, Art. 971 RTE 250mm

Complete set.

971GN	Each	207,00
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**Orig. Carolus - Art. 5500.525**

Product description as Art. 971A

Contains 33 tools.

Comprises:

- 20 polygonal sockets Art. 971 RLE 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34mm
  - 9 external TORX sockets Art. 971 RQT 20 - 25 - 27 - 30 - 40 - 45 - 50 - 55 - 60mm
  - 1 extension Art. 971 RD 125mm
  - 1 extension/T grip/extension from 3/8" to 1/2"
  - 1 ratchet with lever change, quick release, extra slim head, Art. 971 RTE 250mm
- Complete set.

**971GP** Each **203,00**

**carolus** technic

1/2"

**971GP**



**Orig. Carolus - Art. 5800.00**

In special steel. Chrome plated finish.

Sockets and joints with 1/4" square drive (6.35mm) and 1/2" square drive (12.7mm).

Assorted sets supplied in metal case.

49-tool set.

Each set contains:

- 1 x 280mm ratchet, lever change, rapid release, 1/2" drive Art. 971 RT
  - 13 x 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24mm hexagonal sockets, 1/2" drive Art. 971 RM
  - 1 x 75mm extension, 1/2" drive Art. 971 RA
  - 1 x 125mm extension, 1/2" drive Art. 971 RD
  - 1 x 250mm extension, 1/2" drive Art. 971 RE
  - 1 x 1/2" cardan joint Art. 971 RG
  - 1 x insert socket adapter, 1/2" square drive, 5/16" hex drive Art. 971 RI
  - 12 x 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12- 13mm hexagonal sockets, 1/4" drive Art. 946 GA
  - 7 x 1/4" external Torx sockets with hole T 10 - 15 - 20 - 25 - 27 - 30 - 40
  - 1 x 120mm ratchet, lever change, rapid release, 1/4" drive Art. 946 GL
  - 1 x 1/4" cardan joint Art. 946 GS
  - 1 x 50mm extension, 1/4" drive Art. 946 GP
  - 1 x 100mm extension, 1/4" drive 946 GP
  - 4 x 4 - 5 - 6 - 8mm external hex sockets, 1/4" drive Art. 946 GH
  - 1 x 5.5mm flat-tip socket, 1/4" drive Art. 946 GC 5,5
  - 1 x cross-tip PH socket, 1/4" drive Art. 946 GE 2
  - 1 x cross-tip PZD2 socket, 1/4" drive Art. 946 GF 2
- Complete assortment.

**971GR** Each **251,00**

**carolus** technic

1/2"

**971GR**

1/4"



**Orig. Carolus - Art. 5811.00**

Product description as Art. 971GR

Assorted set of 49 tools

comprising:

- 1 x 280mm ratchet with lever change, rapid release, 1/2" drive Art. 971 RT
  - 14 x bi-hex sockets 1/2" drive Art. 971 RLE. Inch size: 5/16 - 3/8 - 13/32 - 7/16 - 1/2 - 9/16 - 19/32 - 5/8 - 11/16 - 3/4 - 25/32 - 13/16 - 7/8 - 15/16
  - 1 x 75mm extension Art. 971 RA, 1/2" drive
  - 1 x 125mm extension Art. 971 RD, 1/2" drive
  - 1 x 250mm extension Art. 971 RE, 1/2" drive
  - 1 x cardan joint, 1/2" drive Art. 971 RG
  - 1 x 120mm ratchet with lever change, rapid release Art. 947 GR, 1/4" drive
  - 10 x hexagonal sockets 1/4" drive Art. 946 GA. Inch size: 3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 11/32 - 3/8 - 13/32 - 7/16 - 1/2
  - 2 x lengthened bi-hex sockets 1/4" drive. Inch size: 1/4 - 5/16
  - 6 x external hex sockets 1/4" drive Art. 946 GH, size: 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 5/16
  - 6 x external TORX sockets with hole, 1/4" drive Art. 946 GL, size: 10 - 15 - 20 - 25 - 27 - 30 - 40
  - 1 x flat-tip screwdriver type socket 1/4" drive Art. 946 GC, size 5.5
  - 1 x 50mm extension 1/4" drive Art. 946 GP
  - 1 x 100mm extension 1/4" drive Art. 946 GP
  - 1 x cardan joint 1/4" drive Art. 946 GS
- Complete assortment.

**971GTA** Each **279,00**

Product running out of stock.

**carolus** technic

1/2"

**971GTA**

1/4"



971L



1/2"

**Orig. Carolus - Art. 5560.00**

In special steel. Chrome plated finish. Supplied in metal case.

Assorted set of sockets, long pattern, 1/2" square drive.

Socket overall length: 75mm.

The set contains 14 tools:

14 x sockets Art. 971 RP. Dimensions: 10 - 12 - 13 - 14 - 15 - 17 - 19 - 21 - 22 - 23 - 24 - 27 - 30 - 32mm.

971L Each 150,00

971P



1/2"

**Orig. Carolus - Art. 5530.00**

Product description as Art. 971L

Assorted set of internal/external TORX sockets, 1/2" drive.

The set contains 16 tools:

9 x sockets Art. 971 RPT size 10 - 11 - 12 - 14 - 16 - 18 - 20 - 22 - 24

7 x sockets Art. 971 RQT size 30 - 40 - 45 - 50 - 55 - 60 - 70

Complete assortment.

971P Each 118,00

## SPARE PARTS FOR SOCKETS

971RA

carolus

1/2"

**Orig. Carolus - Art. 5150.75**

In special steel.

Chrome plated finish. 1/2" square drive (12.7mm).

Extension 75mm.

971RA Each 6,16

971RD

carolus

1/2"

**Orig. Carolus - Art. 5150.12**

Product description as Art. 971RA

Extension 125mm.

971RD Each 6,94

971RE

carolus

1/2"

**Orig. Carolus - Art. 5150.25**

Product description as Art. 971RA

Extension 250mm.

971RE Each 10,20

971RF

carolus

1/2"

**Orig. Carolus - Art. 5140.00**

Product description as Art. 971RA

Sliding bar 250mm.

971RF Each 11,80

971RG

carolus

1/2"

**Orig. Carolus - Art. 5130.00**

Product description as Art. 971RA

Cardan joint 65mm.

971RG Each 11,60

971RI

carolus

1/2"

5/16"

**Orig. Carolus - Art. 5160.00**

Product description as Art. 971RA

Insert socket adapter, 1/2" square drive, 5/16" hexagonal drive. Length 38 mm.

971RI Each 4,54

971RL

carolus

1/2"

1/2"

**Orig. Carolus - Art. 5115.19**

Product description as Art. 971RA

Socket adapter, 1/2" square drive and 19mm male hexagonal drive. Length 30 mm.

971RL Each 8,32

Ideal for use in combination with ratchet wrenches Art. 879 D/879 FE/879 GE/879 GM x 19.

**SOCKETS 1/2" DRIVE, DIN 3120-ISO 1174**

**Orig. Carolus - Art. 5112 - 5111**

In special steel.  
 Chrome plated finish. 1/2" square drive (12.7mm).  
 Internal bi-hex type. Length 36mm.

Opening	mm	8	9	10	11	12	13	14	15
<b>971RLE</b>	<b>Each</b>	4,24	4,24	4,24	4,24	4,24	4,40	4,40	4,40
Opening	mm	16	17	18	19	20	21	22	23
<b>971RLE</b>	<b>Each</b>	4,40	4,86	4,86	4,86	5,48	5,48	5,48	5,92
Opening	mm	24	26	27	28	30	32	34	
<b>971RLE</b>	<b>Each</b>	5,92	6,40	6,40	8,08	8,08	8,08	8,94	
Opening	inches	25/32*	15/16*	1.1/16*	1.3/16*	1.1/14*			
<b>971RLE</b>	<b>Each</b>	5,34	6,38	7,58	9,14	9,30			

\* Sizes running out of stock.



**971RLE**



1/2"

**3**

**Orig. Carolus - Art. 5180**

Product description as Art. 971RLE  
 Type with MULTIPLE PROFILE to tighten screws with hex, hex worn/rounded by up to 50%, polygonal, TORX, XZN-SPLINE, square heads. Length 36mm.

Opening	mm	8	9	10	11	12	13	14
<b>971RLF</b>	<b>Each</b>	4,24	4,24	4,24	4,24	4,24	4,40	4,40
Opening	mm	15	16	17	18	19	20	21
<b>971RLF</b>	<b>Each</b>	4,40	4,40	4,86	4,86	4,86	5,48	5,48
Opening	mm	22	23	24	26	27	28	30
<b>971RLF</b>	<b>Each</b>	5,48	5,92	5,92	6,40	6,40	8,08	8,08
Opening	mm	32	34					
<b>971RLF</b>	<b>Each</b>	8,08	8,94					



**971RLF**



1/2"

**Orig. Carolus - Art. 5100**

Product description as Art. 971RLE  
 Hexagonal sockets. Length 36 mm.

Opening	mm	8	9	10	11	12	13	14
<b>971RM</b>	<b>Each</b>	4,24	4,24	4,24	4,24	4,24	4,40	4,40
Opening	mm	15	16	17	18	19	20	21
<b>971RM</b>	<b>Each</b>	4,40	4,40	4,86	4,86	4,86	5,48	5,48
Opening	mm	22	23	24	26	27	28	30
<b>971RM</b>	<b>Each</b>	5,48	5,92	5,92	6,40	6,40	8,08	8,08
Opening	mm	32	34					
<b>971RM</b>	<b>Each</b>	8,08	8,94					



**971RM**



1/2"

**Orig. Carolus - Art. 5106**

Product description as Art. 971RLE  
 Long pattern, internal hex type.  
 Length: 77mm.

Opening	mm	10	12	13	14	15	17	19	21
<b>971RP</b>	<b>Each</b>	8,48	8,48	8,48	9,32	9,32	9,32	9,86	9,86
Opening	mm	22	23	24	27	30	32	34	
<b>971RP</b>	<b>Each</b>	9,86	9,86	10,60	12,70	13,40	15,10	16,60	



**971RP**



1/2"

**Orig. Carolus - Art. 5300**

Product description as Art. 971RLE  
 Internal TORX type.  
 Length: 36mm.

TORX size	E	10	11	12	14	16	18	20
Seal	mm	9,3	10,08	11,1	12,8	14,7	16,6	18,4
<b>971RPT</b>	<b>Each</b>	7,48	7,48	7,48	7,48	7,72	7,72	8,32
TORX size	E	22	24					
Seal	mm	20,4	22,1					
<b>971RPT</b>	<b>Each</b>	8,70	9,70					

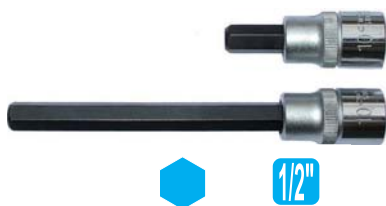


**971RPT**



1/2"

**971RQ**



**Orig. Carolus**

Product description as Art. 971RLE

External hex type.

Type		4	5	5A	5F	6	6A	6E	7
Opening	mm	4	5	5	5	6	6	6	7
Overall length	mm	60	60	80	180	60	80	140	60
Supplier code		5135.04	5135.05	5136.05	5142.05	5135.06	5136.06	5141.06	5135.07
<b>971RQ</b>	<b>Each</b>	<b>7,72</b>	<b>7,72</b>	<b>8,08</b>	<b>11,80</b>	<b>7,72</b>	<b>8,08</b>	<b>10,40</b>	<b>7,72</b>
Type		7B	8	8A	8C	9	10	10E	11
Opening	mm	7	8	8	8	9	10	10	11
Overall length	mm	100	60	80	120	60	60	140	60
Supplier code		5138.07	5135.08	5136.08	5139.08	5135.09	5135.10	5141.10	5135.11
<b>971RQ</b>	<b>Each</b>	<b>8,08</b>	<b>7,72</b>	<b>8,08</b>	<b>9,70</b>	<b>8,08</b>	<b>8,08</b>	<b>11,80</b>	<b>8,08</b>
Type		12	12E	14	14E	17	19		
Opening	mm	12	12	14	14	17	19		
Overall length	mm	60	140	60	140	60	60		
Supplier code		5135.12	5141.12	5135.14	5141.14	5135.17	5135.19		
<b>971RQ</b>	<b>Each</b>	<b>8,08</b>	<b>12,20</b>	<b>8,48</b>	<b>11,80</b>	<b>9,10</b>	<b>9,40</b>		

**971RQT**



**Orig. Carolus - Art. 5303**

Product description as Art. 971RLE

External TORX type.

Length: 55mm.

TORX size	T	20	25	27	30	40	45	50
Seal	mm	3,86	4,43	4,99	5,52	6,65	7,82	8,83
<b>971RQT</b>	<b>Each</b>	<b>7,86</b>	<b>7,86</b>	<b>8,48</b>	<b>8,48</b>	<b>8,48</b>	<b>8,86</b>	<b>8,86</b>
TORX size	T	55	60	70				
Seal	mm	11,22	13,25	15,51				
<b>971RQT</b>	<b>Each</b>	<b>11,80</b>	<b>12,20</b>	<b>11,80</b>				

**RATCHETS**

**971RR**



**Orig. Carolus - Art. 5170.00**

In special steel.

Chrome plated finish. 1/2" square drive (12.7mm).

Ratchet with reverse square drive. Dual component rubber grip.

Fine toothed. Length: 270mm.

<b>971RR</b>	<b>Each</b>	<b>32,20</b>
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**971RS**



**Orig. Carolus - Art. 5190.30**

Product description as Art. 971RR

Ratchets with dial change for clockwise and counter clockwise operation. Rubber dual component handle.

Fine toothed. Length: 280mm.

<b>971RS</b>	<b>Each</b>	<b>40,50</b>
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**971RT**



**Orig. Carolus - Art. 5190.20**

Product description as Art. 971RR

Ratchets with lever change for clockwise and counter-clockwise operation. Rubber dual component handle.

Tip klick quick change, with button. Fine toothed. Length: 280mm.

<b>971RT</b>	<b>Each</b>	<b>40,50</b>
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**971RTE**



**Orig. Carolus - Art. 5190.50**

Product description as Art. 971RR

Ratchet with lever change for clockwise and counter-clockwise movement. Extra-slim head, bi-component rubber grip.

With button-operated quick-release safety system. Fine toothed. Length 250mm.

<b>971RTE</b>	<b>Each</b>	<b>48,30</b>
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**971RV**



**Orig. Carolus - Art. 5290.00**

Product description as Art. 971RR

Flexible ratchet, multi angled. With dial change for clockwise and counter clockwise operation. Rubber handle. Fine toothed. Length: 260mm.

<b>971RV</b>	<b>Each</b>	<b>64,50</b>
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**Orig. Carolus - Art. 5225.00**

Product description as Art. 971RR

Flexible ratchet, multi angled. With lever change for clockwise and counter clockwise operation. Rubber handle. Fine toothed. Length: 270mm.

**971RZ** Each **64,50**



**971RZ**

1/2"

**SETS OF SOCKETS**

**Orig. Carolus - Art. 55801.00**

In special steel. Chrome plated finish.

Sockets and joints with 1/4" square drive (6.35mm) and 1/2" hexagonal drive (12.7mm).

Assorted set supplied in plastic case.

Assorted set of 94 tools

comprising:

17 x hexagonal sockets 1/2" drive. Dimensions: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32mm.

5 x lengthened sockets 1/2" drive. Dim.: 14 - 15 - 17 - 19 - 22mm

2 x spark plug hexagonal sockets 1/2" drive. Dim.: 16 - 20.6mm

1 x ratchet with lever change, rapid release, 1/2" drive

1 x 125mm fixed extension 1/2" drive

1 x 250mm fixed extension 1/2" drive

1 x cardan joint 1/2" drive

1 x sliding rod 1/2" drive

1 x socket reduction for insert bits 1/2" square drive, 5/16" hexagonal drive

13 x hexagonal sockets 1/4" drive. Dim: 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14mm

8 x hexagonal sockets, long pattern, 1/4" drive. Dim.: 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13mm

3 x flat-tip screwdriver type sockets 1/4" drive. Dim.: 4 - 5.5 - 6.5mm

4 x external hex sockets 1/4" drive. Dim.: 3 - 4 - 5 - 6mm

7 x external TORX sockets 1/4" drive. Size: T 8 - 10 - 15 - 20 - 25 - 27 - 30

2 x Phillips cross-tip screwdriver type sockets 1/4" drive. Size: 1 - 2

2 x Pozidriv cross-tip screwdriver type sockets 1/4" drive. Size: 1 - 2

1 x ratchet with lever change, rapid release 1/4" drive

1 x cardan joint 1/4" drive

1 x 50mm fixed extension 1/4" drive

1 x 100mm fixed extension 1/4" drive

1 x sliding rod 1/4" drive

1 x socket-holder with grip, 1/4" drive

3 x straight slotted bits, 5/16" drive. Dim.: 8 - 10 - 12mm

5 x external hex bit, 5/16" drive. Dim.: 7 - 8 - 10 - 12 - 14mm

4 x TORX bits, 5/16" drive, size: T 40 - 45 - 50 - 55

2 x Phillips cross recess bits 5/16" drive, size: 3 - 4

2 x Pozidriv cross recess bits 5/16" drive, size: 3 - 4

3 x Allen head wrenches. Dim: 1.5 - 2 - 2.5mm

Complete assortment.

**971TA** Each **173,00**



**971TA**

**3**



1/4"

1/2"

5/16"

Product running out of stock.

**Orig. Gedore - Art. IN 19 PM**

In CHROME VANADIUM steel. Ground, chrome plated.

1/2" square drive.

For Allen screws.

9-tool sets.

Each set contains:

9 x 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17mm sockets Art. 969 RV

Supplied in case.

Complete assortment.

**972GA** Each **135,00**



**972GA**  
**972GB**



5/16"

1/2"

**Orig. Gedore - Art. IN 19 PA**

Product description as Art. 972GA

For Allen screws.

9-tool sets.

Each set contains:

9 x sockets Art. 969 RV. Inch sizes: 3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 3/8 - 1/2 - 9/16 - 5/8

Supplied in case.

>Complete assortment.

**972GB** Each **144,00**

## 972GC


**Orig. Gedore - Art. IN 19 L KM**

Product description as Art. 972GA

For Allen screws.

15-tool set.

Each set contains:

9 x 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17mm sockets Art. 969 RV

6 x 5 - 6 - 8 - 10 - 12 - 14mm sockets Art. 969 RZ

Supplied in case.

Complete assortment.

972GC	Each	239,00
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## 972GD


**Orig. Gedore - Art. IN 19 Q**

Product description as Art. 972GA

For Allen screws.

11-tool set.

Each set contains:

9 x 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17mm sockets Art. 969 RV

1 x ratchet Art. 970 RT

1 x extension 970 RFX180

Supplied in case.

Complete assortment.

972GD	Each	292,00
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## 972GF


**Orig. Gedore - Art. INX 19 PM**

Product description as Art. 972GA

For slot-head screws, external bi-hexagon and Phillips

9-tool sets.

Each set contains:

2 x 12mm - 16mm flat-tip sockets Art. 969 RD

5 x 5 - 6 - 8 - 10 - 12mm external hex sockets Art. 969 RM

2 x Phillips sockets - Art. 969 RF - Size 2 - 3

Supplied in case.

Complete assortment

972GF	Each	195,00
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## 972GF 3


**Orig. Gedore - Art. TX 19 E-09**

Product description as Art. 972GA

For external Torx screws.

9-tool sets.

Each set contains:

8 x sockets Art. 969 RT/1 - 10 - 11 - 12 - 14 - 16 - 18 - 20 - 24

1 x socket Art. 981 GN

Supplied in case.

Complete assortment

972GF 3	Each	168,00
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**Orig. Gedore - Art. ITX 19 PM**

Product description as Art. 972GA

For internal Torx screws

9-tool sets.

Each set contains:

9 x sockets Art. 969 RS - 20 - 25 - 27 - 30 - 40 - 45 - 50 - 55 - 60

Supplied in case.

Complete assortment.

**972GH**

Each

**195,00**
**GEDORE**
**972GH**

**1/2"**
**Orig. Gedore - Art. ITX 19 LKP**

Product description as Art. 972GA

For internal Torx screws.

18-tool sets.

Each set contains:

9 x 55mm sockets Art. 969 RS - 20 - 25 - 27 - 30 - 40 - 45 - 50 - 55 - 60

9 x 100mm sockets Art. 969 RT - 20 - 25 - 27 - 30 - 40 - 45 - 50 - 55 - 60

Supplied in case.

Complete assortment.

**972GI**

Each

**429,00**
**GEDORE**
**972GI**

**1/2"**
**Orig. Gedore - Art. ITX 19 TX-017**

Product description as Art. 972GA

For internal/external Torx screws.

17-tool sets.

Each set contains:

9 x sockets Art. 969 RS - 20 - 25 - 27 - 30 - 40 - 45 - 50 - 55 - 60

8 x sockets Art. 969 RT/1 - 10 - 11 - 12 - 14 - 16 - 18 - 20 - 24

Supplied in case.

Complete assortment.

**972GK**

Each

**353,00**
**GEDORE**
**972GK**

**1/2"**
**Orig. Gedore - Art. ITX 19-20-30 T**

In CHROME VANADIUM steel. Ground, chrome plated.

1/4"-3/8"-1/2" square drive.

For internal Torx screws.

10-tool sets.

Each set consists of:

3 x sockets Art. 941 RL - 8-10-15

3 x sockets Art. 952 RV - 20-25-30

4 x sockets Art. 969 RS - 40-50-55-60.

Supplied in case.

Complete assortment.

**972GK 2**

Each

**185,00**
**GEDORE**
**972GK 2**

**1/4"**
**3/8"**
**1/2"**

972GK 3 

1/4"

1/2"

**Orig. Gedore - Art. 19 TX-20**

In CHROME VANADIUM steel. Ground, chrome plated.

1/4"-1/2" square drive.

For internal/external Torx screws.

34-tool sets.

Each set contains:

8 x sockets Art. 941 RL - 8 - 9 - 10 - 15 - 20 - 25 - 27 - 30

6 x sockets Art. 941 RP - 4 - 5 - 6 - 7 - 8 - 10

5 x sockets Art. 969 RS - 40 - 45 - 50 - 55 - 60

9 x sockets Art. 969 RT - 20 - 25 - 27 - 30 - 40 - 45 - 50 - 55 - 60

6 x sockets Art. 969 RT/1 - 12 - 14 - 16 - 18 - 20 - 24

Supplied in case.

Complete assortment.

972GK 3 Each **604,00**

## SETS OF SOCKETS

973G   
974G

3/4"

**Orig. Gedore - Art. 32 EMZ**

In CHROME VANADIUM steel. Chrome plated finish.

Sockets and joints with 3/4" square drive (19mm). Assorted set supplied in metal case.

14-tool sets

Each set contains:

10 x 22 - 24 - 27 - 30 - 32 - 36 - 38 - 41 - 46 - 50mm hexagonal sockets Art. 974 RA

1 x 510mm square ratchet, Art. 974 RP + 974 RD

1 x 500mm sliding bar

1 x 200mm extension Art. 974 RH

1 x 400mm extension Art. 974 RE

Complete assortment.

973G Each **659,00****Orig. Gedore - Art. D32 EMZ**

Product description as Art. 973G

14-tool sets.

Each set contains:

10 x 22 - 24 - 27 - 30 - 32 - 36 - 38 - 41 - 46 - 50mm bi-hex sockets Art. 974 RB

1 x 510mm square ratchet, Art. 974 RP + 974 RD

1 x 500mm sliding bar Art. 974 RH

1 x 200mm extension Art. 974 RE

1 x 400mm extensions Art. 974 RF

Complete assortment.

974G Each **656,00**974GP 

3/4"

**Orig. Gedore - Art. D32 EAZ**

Product description as Art. 973G

14-tool sets.

Each set contains:

10 x bi-hex sockets. US inch sizes: 15/16 - 1.1/16 - 1.1/8 - 1.1/4 - 1.5/16 - 1.3/8 - 1.1/2 - 1.5/8 - 1.7/8 - 2 Art. 974 RB

1 x 510mm square ratchet, Art. 974 RP + 974 RD

1 x 500mm sliding bar Art. 974 RH

1 x 200mm extension Art. 974 RE

1 x 400mm extension Art. 974 RF

Complete assortment.

974GP Each **710,00**974GS 

3/4"

**Orig. Gedore - Art. 32 FMZ**

Product description as Art. 973G

16-tool sets.

Each set contains:

12 x 22 - 24 - 27 - 30 - 32 - 36 - 38 - 41 - 46 - 50 - 55 - 60mm hexagonal sockets Art. 974 RA

1 x 510mm square ratchet, Art. 974 RP + 974 RD

1 x 500mm sliding bar Art. 974 RH

1 x 200mm extensions Art. 974 RE

1 x 400mm extension Art. 974 RF

Complete assortment.

974GS Each **839,00**



**SOCKETS, 3/4" DRIVE, DIN 3120-ISO 1174**

**Orig. Gedore - Art. 32**

In CHROME VANADIUM steel. Chrome plated finish. Slots inside the square drive for ratchet balls and sliding bars.

Internal hex type.

Opening	mm	18	19	21	22	24	27	29
Overall length	mm	51,5	51,5	51,5	51,5	51,5	54,5	54,5
<b>974RA</b>	<b>Each</b>	<b>37,10</b>	<b>22,20</b>	<b>25,70</b>	<b>23,10</b>	<b>22,40</b>	<b>24,30</b>	<b>27,20</b>
Opening	mm	30	32	33	34	36	38	41
Overall length	mm	57,5	57,5	57,5	57,5	59,5	59,5	62,5
<b>974RA</b>	<b>Each</b>	<b>26,20</b>	<b>25,90</b>	<b>31,20</b>	<b>30,60</b>	<b>31,80</b>	<b>30,60</b>	<b>45,40</b>
Opening	mm	46	50	55	60			
Overall length	mm	65,5	68,5	68,5	68,5			
<b>974RA</b>	<b>Each</b>	<b>47,80</b>	<b>57,30</b>	<b>64,90</b>	<b>75,70</b>			



**974RA**



3/4"

**3**

**Orig. Gedore - Art. D32**

Product description as Art. 974RA

Internal bi-hex type.

Opening	mm	19	21	22	24	27	29	30	32
Overall length	mm	51,5	51,5	51,5	51,5	54,5	54,5	57,5	57,5
<b>974RB</b>	<b>Each</b>	<b>22,20</b>	<b>25,70</b>	<b>23,10</b>	<b>22,40</b>	<b>24,30</b>	<b>27,20</b>	<b>26,20</b>	<b>25,90</b>
Opening	mm	33	36	38	41	46	50	55	60
Overall length	mm	57,5	59,5	59,5	62,5	65,5	68,5	68,5	68,5
<b>974RB</b>	<b>Each</b>	<b>31,20</b>	<b>31,80</b>	<b>30,60</b>	<b>45,40</b>	<b>47,80</b>	<b>57,30</b>	<b>64,90</b>	<b>75,70</b>
Opening	inches	7/8	15/16	1	1.1/16	1.1/8	1.1/4	1.5/16	1.3/8
Overall length	mm	51,5	51,5	51,5	54,5	54,5	57,5	57,5	59,5
<b>974RB</b>	<b>Each</b>	<b>24,50</b>	<b>24,50</b>	<b>24,50</b>	<b>24,50</b>	<b>26,60</b>	<b>27,30</b>	<b>31,10</b>	<b>31,80</b>
Opening	inches	1.7/16	1.1/2	1.5/8	1.11/16	1.3/4	1.13/16	1.7/8	2
Overall length	mm	59,5	59,5	62,5	62,5	65,5	65,5	65,5	68,5
<b>974RB</b>	<b>Each</b>	<b>32,80</b>	<b>33,40</b>	<b>51,40</b>	<b>51,40</b>	<b>57,10</b>	<b>60,30</b>	<b>60,30</b>	<b>60,30</b>



**974RB**



3/4"

**Orig. Gedore - Art. IN32**

Product description as Art. 974RA

External hex type. Length: 80mm.

Opening	mm	14	17	19	22
<b>974RC</b>	<b>Each</b>	<b>27,10</b>	<b>31,70</b>	<b>33,60</b>	<b>36,40</b>



**974RC**



3/4"

**Orig. Gedore - Art. IN32 L**

Product description as Art. 974RA

Long type with external hexagon. Length 155mm.

Opening	mm	14	17	19	22
<b>974RCL</b>	<b>Each</b>	<b>43,80</b>	<b>45,70</b>	<b>48,70</b>	<b>52,10</b>



**974RCL**



3/4"

**Orig. Gedore - Art. ITX 32**

Product description as Art. 974RA

External TORX type. Length: 80mm.

Opening	T	60	70	80	90	100
Screw thread Ø	M.	14	16	18	20	22
Seal	mm	13,25	15,51	17,54	19,92	22,13
<b>974RCT</b>	<b>Each</b>	<b>43,80</b>	<b>46,20</b>	<b>48,40</b>	<b>50,90</b>	<b>53,30</b>



**974RCT**



3/4"

**SPARE PARTS FOR SOCKETS**

**Orig. Gedore - Art. 3294**

In CHROME VANADIUM steel.

Chrome plated finish. 3/4" square drive (19mm).

Square drives 51.5mm.

<b>974RD</b>	<b>Each</b>	<b>15,40</b>
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**974RD**



3/4"

974RE



3/4"



Orig. Gedore - Art. 3290-8

Product description as Art. 974RD

Extensions 200mm.

974RE Each 43,20

974RF



3/4"



Orig. Gedore - Art. 3290-16

Product description as Art. 974RD

Extensions 400mm.

974RF Each 57,80

974RH



3/4"



Orig. Gedore - Art. 3287

Product description as Art. 974RD

Sliding bars 500mm.

974RH Each 55,90

974RI



3/4"



Orig. Gedore - Art. 3295

Product description as Art. 974RD

Cardan joints 108mm.

974RI Each 140,00

974RL



3/4"



Orig. Gedore - Art. 3296

Product description as Art. 974RD

Jointed levers 547mm.

974RL Each 127,00

## RATCHETS

974RP



3/4"



Orig. Gedore - Art. 3293Z

In CHROME VANADIUM steel.

Chrome plated finish. 3/4" square drive (19mm).

Ratchets without square drive (square drive: see ved. Art. 974 RD). Length: 510mm. Fine and sturdy toothed.

974RP Each 125,00

974RS



3/4"



Orig. Gedore - Art. 3293U-2

Product description as Art. 974RP

Ratchets with dial change for clockwise and counter clockwise operation. Length: 510mm. Fine and sturdy toothed.

974RS Each 156,00

974RT



3/4"



Orig. Gedore - Art. 3293U-3

Product description as Art. 974RP

Ratchets with dial change for clockwise and counter clockwise operation.

Handle in steel tubing. Length: 620mm. Fine toothed.

974RT Each 206,00

974RV



3/4"



Orig. Gedore - Art. 3293U-10

Product description as Art. 974RP

Ratchets with lever change for clockwise and counter clockwise operation.

Handle in steel tubing. Length: 620mm. Fine and sturdy toothed.

974RV Each 249,00

## SETS OF SOCKETS

975G



3/4"



Orig. Carolus - Art. 8100.00

In special steel. Chrome plated finish.

Sockets and joints with 3/4" square drive (19mm). Assorted set supplied in metal case. 14-tool sets.

Each set contains:

10 x 22 - 24 - 27 - 30 - 32 - 36 - 38 - 41 - 46 - 50mm hexagonal sockets Art. 975 RA

1 x 500mm square ratchet Art. 975 RP

1 x 500mm sliding bar Art. 975 RH

1 x 200mm extension Art. 975 RE

1 x 400mm extension Art. 975 RF

Complete assortment.

975G Each 420,00

**SOCKETS, 3/4" DRIVE, DIN 3120-ISO 1174**

**Orig. Carolus - Art. 8100**

In special steel. Chrome plated finish.  
Slots inside the square drive for ratchet balls and sliding bars.  
Internal hex type.

Opening	mm	19	21	22	24	27	30	32	33
Overall length	mm	50	50	50	50	50	53	55	55
<b>975RA</b>	<b>Each</b>	<b>11,80</b>	<b>11,80</b>	<b>11,80</b>	<b>11,80</b>	<b>12,70</b>	<b>13,50</b>	<b>14,40</b>	<b>15,10</b>
Opening	mm	36	38	41	46	50	55	60	
Overall length	mm	58	58	63	68	68	75	77	
<b>975RA</b>	<b>Each</b>	<b>16,80</b>	<b>16,80</b>	<b>20,30</b>	<b>21,90</b>	<b>25,20</b>	<b>30,30</b>	<b>35,30</b>	

**carolus** **3/4"** **975RA**



**3**

**SPARE PARTS FOR SOCKETS**

**Orig. Carolus - Art. 8150.20**

In special steel.  
Chrome plated finish. 3/4" square drive (19mm).  
Extensions 200mm.

<b>975RE</b>	<b>Each</b>	<b>23,50</b>
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**carolus** **3/4"** **975RE**



**Orig. Carolus - Art. 8150.40**

Product description as Art. 975RE  
Extensions 200mm.

<b>975RF</b>	<b>Each</b>	<b>38,10</b>
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**carolus** **3/4"** **975RF**



**Orig. Carolus - Art. 8140.00**

Product description as Art. 975RE  
Sliding bars 500mm.

<b>975RH</b>	<b>Each</b>	<b>40,20</b>
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**carolus** **3/4"** **975RH**



**Orig. Carolus - Art. 8130.00**

Product description as Art. 975RE  
Cardan joints 108mm.

<b>975RI</b>	<b>Each</b>	<b>51,00</b>
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**carolus** **3/4"** **975RI**



**CONVERTERS**

**Orig. Carolus - Art. 8160.00**

Converters. In special steel.

Int. square drive	inches	3/4
Ext square drive	inches	1
Overall length	mm	61
<b>975RL</b>	<b>Each</b>	<b>30,30</b>

**carolus** **3/4"** **975RL**



**RATCHETS**

**Orig. Carolus - Art. 8170.00**

In special steel.  
Chrome plated finish. 3/4" square drive (19mm).  
Ratchets with square drive, bidirectional. Handle made of a steel pipe. Length: 510mm. Fine and sturdy toothing.

<b>975RP</b>	<b>Each</b>	<b>97,10</b>
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**carolus** **3/4"** **975RP**



**3/4"**

**SETS OF SOCKETS**

**Orig. Gedore - Art. D21EMU-10**

In CHROME VANADIUM steel. Chrome plated finish.  
Sockets and joints with 1" square drive (25.4mm). Assorted set supplied in metal case.  
15-tool sets.

- Each set contains:
- 10 x 36 - 41 - 46 - 50 - 55 - 60 - 65 - 70 - 75 - 80mm bi-hexagonal sockets Art. 977 RB
  - 1 810mm ratchet head, lever change
  - 1 sliding head
  - 1 x 700mm lever for ratchet head and sliding head
  - 1 x 200mm extension Art. 977 RE
  - 1 x 400mm extension Art. 977 RF
  - Complete assortment.

<b>977G</b>	<b>Each</b>	<b>1.640,00</b>
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**GEDORE** **1"** **977G**



**1"**

**977GP**



**Orig. Gedore - Art. D21EAU-10**

Product description as Art. 977G

15-tool sets.

Each set contains:

10 x bi-hexagonal sockets. US inch sizes: 1.1/2 - 1.5/8 - 1.7/8 - 2 - 2.1/16 - 2.1/4 - 2.3/8 - 2.9/16 - 2.3/4 - 3 Art. 977 RB

1 x ratchet head, lever change

1 x sliding head

1 x 700mm lever for ratchet head and sliding head

1 x 200mm extension Art. 977 RE

1 x 400mm extension Art. 977 RF

Complete assortment.

<b>977GP</b>	Each	<b>1.770,00</b>
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**SOCKETS, 1" DRIVE, DIN 3120-ISO 1174**

**977RB**



**Orig. Gedore - Art. D21**

In CHROME VANADIUM steel. Chrome plated finish. Slots inside the square drive for ratchet balls and sliding bars.

Internal bi-hex type

Opening	mm	<b>36</b>	<b>41</b>	<b>46</b>	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>
Overall length	mm	70	70	75	75	80	85	88
<b>977RB</b>	Each	<b>53,60</b>	<b>62,00</b>	<b>72,60</b>	<b>81,50</b>	<b>98,90</b>	<b>114,00</b>	<b>134,00</b>

Opening	mm	<b>70</b>	<b>75</b>	<b>80</b>
Overall length	mm	92	95	97
<b>977RB</b>	Each	<b>143,00</b>	<b>164,00</b>	<b>166,00</b>

Opening	inches	<b>1.7/16</b>	<b>1.1/2</b>	<b>1.5/8</b>	<b>1.13/16</b>	<b>1.7/8</b>	<b>2</b>	<b>2.1/16</b>
Overall length	mm	70	70	70	75	75	75	75
<b>977RB</b>	Each	<b>63,60</b>	<b>68,50</b>	<b>82,80</b>	<b>101,00</b>	<b>95,60</b>	<b>105,00</b>	<b>105,00</b>

Opening	inches	<b>2.3/16</b>	<b>2.1/4</b>	<b>2.3/8</b>	<b>2.7/16</b>	<b>2.9/16</b>	<b>2.5/8</b>	<b>2.3/4</b>
Overall length	mm	80	80	85	85	88	88	92
<b>977RB</b>	Each	<b>113,00</b>	<b>113,00</b>	<b>124,00</b>	<b>124,00</b>	<b>146,00</b>	<b>146,00</b>	<b>161,00</b>

Opening	inches	<b>2.13/16</b>	<b>2.15/16</b>	<b>3</b>	<b>3.1/8</b>
Overall length	mm	92	95	95	97
<b>977RB</b>	Each	<b>170,00</b>	<b>170,00</b>	<b>170,00</b>	<b>197,00</b>

Size inches 1.7/16 running out of stock.

**977RC**



**Orig. Gedore - Art. IN21**

Product description as Art. 977RB

External hex type.

Length: 90mm.

Opening	mm	<b>17</b>	<b>19</b>	<b>22</b>	<b>24</b>	<b>27</b>
<b>977RC</b>	Each	<b>65,30</b>	<b>67,40</b>	<b>69,90</b>	<b>72,40</b>	<b>75,90</b>

**SPARE PARTS FOR SOCKETS**

**977RD**



**Orig. Gedore - Art. 2194**

In CHROME VANADIUM steel.

Chrome plated finish. 1" square drive (25.4mm).

Square drives 67mm.

<b>977RD</b>	Each	<b>32,20</b>
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**977RE**



**Orig. Gedore - Art. 2190-8**

Product description as Art. 977RD

Extensions 200mm.

<b>977RE</b>	Each	<b>79,90</b>
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**977RF**



**Orig. Gedore - Art. 2190-16**

Product description as Art. 977RD

Extensions 200mm.

<b>977RF</b>	Each	<b>112,00</b>
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**977RH**



**Orig. Gedore - Art. 2187**

Product description as Art. 977RD

Sliding bars 700mm.

<b>977RH</b>	Each	<b>123,00</b>
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**Orig. Gedore - Art. 2185**

Product description as Art. 977RD

Cardan joints 140mm.

**977RI** Each **273,00**



**977RI**

**RATCHETS**

**Orig. Gedore - Art. 2193Z-94**

In CHROME VANADIUM steel.

Chrome plated finish. 1" square drive (25.4mm).

Ratchets with reverse square drive. Handle in steel tubing. Length 720mm. Fine and sturdy toothing.

**977RP** Each **269,00**



**977RP**

**Orig. Gedore - Art. 2193U-3**

Product description as Art. 977RP

Ratchets with dial change for clockwise and counter clockwise operation. Handle in steel tubing. Length: 720mm. Fine toothing.

**977RS** Each **342,00**



**977RS**

**Orig. Gedore - Art. 2193U-10**

Product description as Art. 977RP

Ratchets with lever change for clockwise, counter clockwise and fixed operation.

Handle in steel tubing. Length: 810mm. Fine and sturdy toothing.

**977RT** Each **302,00**



**977RT**

**SETS OF SOCKETS**

**Prod. SCU**

In CHROME VANADIUM steel. Chrome plated finish.

Sockets and joints with 3/4" square drive (19mm). Assorted set supplied in metal case.

14-tool sets.

Each set contains:

10 x 22 - 24 - 27 - 30 - 32 - 36 - 38 - 41 - 46 - 50mm hexagonal sockets Art. 979 RA

1 x 500mm ratchet, dial change Art. 979 RD

1 x 460mm sliding bar Art. 979 RF

1 x 100mm extension Art. 979 RL

1 x 200mm extension Art. 979 RP

Complete assortment.

**979G** Each **278,00**

Cardan joints: see Art. 975 RI



**979G**

**SOCKETS, 3/4" DRIVE**

**Prod. SCU**

In CHROME VANADIUM steel. Chrome plated finish. Slots inside the square drive for ratchet balls and sliding bars.

Internal hex type.

Opening	mm	22	24	27	30	32	36	38
Overall length	mm	50	50	50	52	52	57	57
<b>979RA</b>	<b>Each</b>	<b>9,34</b>	<b>9,56</b>	<b>9,88</b>	<b>10,60</b>	<b>11,20</b>	<b>13,90</b>	<b>15,60</b>

Opening	mm	41	46	50
Overall length	mm	62	65	68
<b>979RA</b>	<b>Each</b>	<b>16,60</b>	<b>18,70</b>	<b>21,10</b>



**979RA**

**RATCHETS**

**Prod. SCU**

In CHROME VANADIUM steel.

Chrome plated finish. 3/4" square drive (19mm).

Ratchet with dial change for clockwise and counter clockwise operation. Length: 500mm.

**979RD** Each **68,70**



**979RD**

**SPARE PARTS FOR SOCKETS**

**Prod. SCU**

In CHROME VANADIUM steel.

Chrome plated finish. 3/4" square drive (19mm).

Sliding bars 450mm.

**979RF** Each **30,70**



**979RF**



Product description as Art. 979RF  
Extensions 100mm.

**979RL** Each **15,30**



Product description as Art. 979RF  
Extensions 200mm.

**979RP** Each **21,10**

### SETS OF SOCKETS



**Prod. SCU**

In CHROME VANADIUM steel. Chrome plated finish.  
Sockets and joints with 1" square drive (25.4mm). Assorted set supplied in metal case.  
15-tool sets.

Each set contains:

10 x 36 - 41 - 46 - 50 - 55 - 60 - 65 - 70 - 75 - 80mm hexagonal sockets Art. 980 RA  
1 x 200mm ratchet head, lever change Art. 980 RD  
1 x 80mm sliding head Art. 980 RF  
1 bar for ratchet/sliding head Art. 980 RH  
1 x 200mm extension Art. 980 RL  
1 x 400mm extension Art. 980 RP  
Complete assortment.

**980G** Each **899,00**

### SOCKETS, 1" DRIVE



**Prod. SCU**

In CHROME VANADIUM steel. Chrome plated finish.  
Inside slots for ratchet balls and sliding bars.  
Internal hex type.

Opening	mm	36	41	46	50	55	60	65
Overall length	mm	65	70	76	78	80	88	90
<b>980RA</b>	<b>Each</b>	<b>20,60</b>	<b>22,30</b>	<b>26,80</b>	<b>32,20</b>	<b>37,10</b>	<b>43,50</b>	<b>49,40</b>
Opening	mm	70	75	80				
Overall length	mm	98	102	108				
<b>980RA</b>	<b>Each</b>	<b>62,10</b>	<b>71,70</b>	<b>77,30</b>				

### SPARE PARTS FOR SOCKETS



**Prod. SCU**

In CHROME VANADIUM steel.  
Chrome plated finish. 1" square drive (25.4mm).  
Ratchet heads with lever change for clockwise and counterclockwise operation. Length: 200mm.

**980RD** Each **183,00**



In CHROME VANADIUM steel.  
Chrome plated finish. 1" square drive (25.4mm).  
Sliding head. Length: 80mm.

**980RF** Each **35,70**



Product description as Art. 980RF  
Lever for ratchet/sliding heads. Length: 630mm.

**980RH** Each **51,90**



Product description as Art. 980RF  
Extensions 200mm.

**980RL** Each **44,50**



Product description as Art. 980RF  
Extensions 400mm.

**980RP** Each **73,90**

**REDUCERS AND CONVERTERS**

**Orig. Gedore - Art. S 2032-05**

Supplied in transparent plastic case.  
Content: 5 x sockets (3 x converters and 2 x reducers).  
Content:  
1 x socket for each type Art. 981 GM - GN - GO - GS - GT  
Complete assortment.



**981GL**



<b>981GL</b>	Each	<b>71,90</b>
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**Orig. Gedore**

Converters

Art.		<b>981GM</b>	<b>981GN</b>	<b>981GO</b>	<b>981GP</b>
Int. square drive	inches	1/4	3/8	1/2	3/4
Ext square drive	inches	3/8	1/2	3/4	1
Overall length	mm	26	35	38,5	60
Supplier code		2030	3019	1932	3221
<b>Each</b>		<b>13,20</b>	<b>12,60</b>	<b>17,60</b>	<b>38,80</b>



**981GM**

**981GN**

**981GO**

**981GP**

Reducers

Art.		<b>981GS</b>	<b>981GT</b>	<b>981GU</b>	<b>981GV</b>
Int. square drive	inches	3/8	1/2	3/4	1
Ext square drive	inches	1/4	3/8	1/2	3/4
Overall length	mm	28,5	38,5	35	56
Supplier code		3020	1930	3219	2132
<b>Each</b>		<b>12,60</b>	<b>13,70</b>	<b>23,70</b>	<b>46,40</b>



**981GS**

**981GT**

**981GU**

**981GV**

**SOCKETS FOR IMPACT WRENCHES DIN 3129-ISO 2725**

**Orig. Gedore - Art. K20**

Reinforced type in GEDORE special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

Hexagonal sockets, 1/4" drive.

Opening	mm	<b>5,5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
Overall length	mm	23	23	23	23	23	23	23
<b>981GZ</b>	<b>Each</b>	<b>8,92</b>	<b>8,92</b>	<b>8,92</b>	<b>8,92</b>	<b>9,10</b>	<b>9,10</b>	<b>9,10</b>
Opening	mm	<b>12</b>	<b>13</b>	<b>14</b>	<b>17</b>			
Overall length	mm	23	23	25	26			
<b>981GZ</b>	<b>Each</b>	<b>9,10</b>	<b>11,30</b>	<b>11,30</b>	<b>11,30</b>			
Opening	inches	<b>3/16</b>	<b>1/4</b>	<b>5/16</b>	<b>3/8</b>	<b>7/16</b>		
Overall length	mm	23	23	23	23	23		
<b>981GZ</b>	<b>Each</b>	<b>9,74</b>	<b>9,74</b>	<b>9,62</b>	<b>9,62</b>	<b>9,74</b>		



**1/4"**

**981GZ**



**Prod. SCU**

In special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

Hexagonal sockets, 1/4" drive. Overall length: 25mm.

Opening	mm	<b>4</b>	<b>4,5</b>	<b>5</b>	<b>5,5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>981GZA</b>	<b>Each</b>	<b>5,74</b>	<b>5,74</b>	<b>5,74</b>	<b>5,74</b>	<b>5,74</b>	<b>5,74</b>	<b>5,74</b>
Opening	mm	<b>10</b>	<b>13</b>	<b>14</b>				
<b>981GZA</b>	<b>Each</b>	<b>6,18</b>	<b>6,46</b>	<b>6,76</b>				



**1/4"**

**981GZA**



**Orig. Gedore - Art. K30**

Reinforced type in GEDORE special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

Hex sockets, 3/8" drive. Total length 30mm.

Opening	mm	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>982G</b>	<b>Each</b>	<b>10,80</b>	<b>10,80</b>	<b>10,80</b>	<b>10,90</b>	<b>10,80</b>	<b>10,80</b>	<b>10,80</b>
Opening	mm	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>
<b>982G</b>	<b>Each</b>	<b>10,80</b>	<b>10,80</b>	<b>10,90</b>	<b>10,90</b>	<b>10,90</b>	<b>10,80</b>	<b>12,60</b>
Opening	mm	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>		
<b>982G</b>	<b>Each</b>	<b>12,80</b>	<b>12,80</b>	<b>13,80</b>	<b>13,80</b>	<b>13,80</b>		



**3/8"**

**982G**



**982G 2** 


3/8"

**Orig. Carolus - Art. 6400**

In special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

Hexagonal sockets, 3/8" drive. Overall length\_ 32mm.

Opening	mm	6	7	8	9	10	12	13
<b>982G 2</b>	Each	3,78	3,78	3,78	3,78	3,78	3,78	3,78

Opening	mm	14	15	17	19
<b>982G 2</b>	Each	3,78	4,08	4,08	4,08

**982G 2L** 


3/8"

**Orig. Carolus - Art. 6406**

Product description as Art. 982G 2

Hex sockets, extra-long, 3/8" drive. Total length 63mm.

Opening	mm	8	10	11	12	13	14	15
<b>982G 2L</b>	Each	7,78	7,78	8,08	8,08	8,94	8,94	8,94

Opening	mm	16	17	18	19
<b>982G 2L</b>	Each	8,94	9,70	9,70	10,60

**982G 3** 


3/8"

**Orig. Gedore - Art. TXK 30**

Reinforced type in GEDORE special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

Internal TORX socket. 3/8" drive. Overall length: 32mm.

TORX size	E	5	6	7	8	10	12	14
For screws	M.	4	5	6	6-7	8	10	12
Seal	mm	4,7	5,6	6,1	7,4	9,3	11,1	12,8

<b>982G 3</b>	Each	13,40	13,40	13,40	13,40	13,40	15,10	15,10
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**982G 4** 


3/8"

**Orig. Carolus - Art. 6435**

Made from special steel. Square drive insert. Burnished. Suitable for impact based screwdrivers or for use with compressed air.

External hex sockets, 3/8" drive. Total length 52mm.

Opening	mm	6	7	8	10
<b>982G 4</b>	Each	9,10	8,94	8,94	8,94

**SETS OF SOCKETS**
**982G 40** 


1/2"

**Orig. Gedore - Art. K 19-028**

Reinforced type in GEDORE special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

Supplied in plastic case.

The set contains 5 sockets.

Content:

5 x hex sockets Art. 982 GA 10 - 13 - 17 - 19 - 24mm

Complete assortment.

<b>982G 40</b>	Each	69,10
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**982G 50** 


1/2"

**Orig. Carolus - Art. 5540.00**

In special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches. Supplied in metal case.

The set contains 12 sockets.

Content:

12 x hex sockets Art. 982 GB 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19 - 21 - 22 - 24mm

Complete assortment.

<b>982G 50</b>	Each	75,30
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**SOCKETS FOR IMPACT WRENCHES DIN 3129-ISO 2725**

**Orig. Gedore - Art. K19**

Reinforced type in GEDORE special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.



1/2"

**982GA**

Hexagonal sockets, 1/2" drive.

Opening	mm	10	11	12	13	14	15	16	17	18
Overall length	mm	38	38	38	38	38	38	38	38	38
<b>982GA</b>	<b>Each</b>	<b>9,72</b>	<b>9,72</b>	<b>9,72</b>	<b>9,72</b>	<b>9,72</b>	<b>9,72</b>	<b>10,10</b>	<b>10,10</b>	<b>10,10</b>
Opening	mm	19	21	22	23	24	27	30	32	
Overall length	mm	38	38	38	38	45	50	50	50	
<b>982GA</b>	<b>Each</b>	<b>10,10</b>	<b>10,80</b>	<b>10,80</b>	<b>11,50</b>	<b>11,50</b>	<b>13,50</b>	<b>17,10</b>	<b>18,60</b>	
Opening	inches	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8
Overall length	mm	38	38	38	38	38	38	38	38	38
<b>982GA</b>	<b>Each</b>	<b>10,90</b>	<b>11,10</b>	<b>11,10</b>	<b>11,10</b>	<b>11,10</b>	<b>11,10</b>	<b>11,10</b>	<b>14,90</b>	<b>15,10</b>
Opening	inches	15/16	1	1.1/16	1.1/8	1.1/4	1.5/16			
Overall length	mm	38	38	40	40	40	43			
<b>982GA</b>	<b>Each</b>	<b>15,10</b>	<b>21,70</b>	<b>21,70</b>	<b>27,80</b>	<b>30,00</b>	<b>37,30</b>			



**3**

**Prod. SCU - Art. 5400**

In special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.



1/2"

**982GB**

Hexagonal sockets, 1/2" drive.

Opening	mm	10	11	12	13	14	15	16
Overall length	mm	38	38	38	38	38	38	38
<b>982GB</b>	<b>Each</b>	<b>6,10</b>	<b>6,10</b>	<b>6,10</b>	<b>6,10</b>	<b>6,10</b>	<b>6,10</b>	<b>6,40</b>
Opening	mm	17	18	19	21	22	23	24
Overall length	mm	38	35	38	38	43	39	43
<b>982GB</b>	<b>Each</b>	<b>6,40</b>	<b>9,84</b>	<b>6,40</b>	<b>6,86</b>	<b>6,86</b>	<b>10,60</b>	<b>8,08</b>
Opening	mm	27	30	32				
Overall length	mm	45	48	48				
<b>982GB</b>	<b>Each</b>	<b>10,10</b>	<b>11,80</b>	<b>11,80</b>				



Sizes mm 18 and 23 are made by SCU.

**Prod. SCU**

Product description as Art. 982GB



1/2"

**982GBD**

*new*

Polygonal sockets, 1/2" drive.

Opening	mm	8	10	11	12	13	14	15
Overall length	mm	38	38	38	38	38	38	38
<b>982GBD</b>	<b>Each</b>	<b>6,22</b>	<b>6,22</b>	<b>6,22</b>	<b>6,22</b>	<b>6,22</b>	<b>6,22</b>	<b>6,84</b>
Opening	mm	16	17	18	19	21	22	23
Overall length	mm	38	38	38	38	38	42	42
<b>982GBD</b>	<b>Each</b>	<b>6,84</b>	<b>6,84</b>	<b>7,26</b>	<b>7,26</b>	<b>7,68</b>	<b>8,72</b>	<b>9,54</b>
Opening	mm	24	27	30	32			
Overall length	mm	42	42	45	45			
<b>982GBD</b>	<b>Each</b>	<b>9,96</b>	<b>12,50</b>	<b>14,60</b>	<b>15,40</b>			



Product description as Art. 982GB

Hexagonal socket "SURFACE DRIVE" profile, 1/2" drive. For a safer and quicker screw and bolt insertion.



1/2"

**982GBE**

Opening	mm	10	13	17	18	19	21	22
Overall length	mm	40	40	40	40	40	40	40
<b>982GBE</b>	<b>Each</b>	<b>15,30</b>	<b>15,30</b>	<b>16,20</b>	<b>16,20</b>	<b>16,20</b>	<b>17,10</b>	<b>17,90</b>
Opening	mm	24						
Overall length	mm	45						
<b>982GBE</b>	<b>Each</b>	<b>19,60</b>						



For quick bolt insertion

Product running out of stock.

**Orig. Gedore - Art. K19 L**

Reinforced type in GEDORE special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.



1/2"

**982GC**

Extra long hexagonal sockets, 1/2" drive.

Overall length: 78mm.

Opening	mm	8	10	13	14	16	17	18
Overall length	mm	77	77	77	77	77	80	82
<b>982GC</b>	<b>Each</b>	<b>23,30</b>	<b>23,30</b>	<b>23,30</b>	<b>23,30</b>	<b>23,60</b>	<b>23,60</b>	<b>23,60</b>
Opening	mm	19	21	22	24	27		
Overall length	mm	82	82	82	82	82		
<b>982GC</b>	<b>Each</b>	<b>23,60</b>	<b>23,60</b>	<b>23,60</b>	<b>24,40</b>	<b>28,40</b>		



**SETS OF SOCKETS**

**982GC 85**



1/2"



**Orig. Carolus - Art. 5565.00**

In special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches. Supplied in metal case.

The set contains 12 sockets.

Content:

12 x extra long hex sockets Art. 982 GCA 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19 - 21 - 22 - 24mm

Complete assortment.

<b>982GC 85</b>	Each	<b>118,00</b>
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**SOCKETS FOR IMPACT WRENCHES DIN 3129-ISO 2725**

**982GCA**



1/2"



**Orig. Carolus - Art. 5406**

In special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

Extra long hexagonal sockets, 1/2" drive.

Overall length: 85mm.

Opening	mm	<b>8</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>
<b>982GCA</b>	Each	<b>16,10</b>	<b>9,94</b>	<b>9,94</b>	<b>9,94</b>	<b>9,94</b>	<b>9,94</b>	<b>11,10</b>	<b>11,10</b>
Opening	mm	<b>17</b>	<b>18</b>	<b>19</b>	<b>21</b>	<b>22</b>	<b>24</b>	<b>27</b>	
<b>982GCA</b>	Each	<b>11,10</b>	<b>17,70</b>	<b>11,40</b>	<b>12,10</b>	<b>12,60</b>	<b>13,20</b>	<b>24,70</b>	

Sizes mm 8-18-27 are Prod. SCU.

**982GCB**  
*new*



1/2"



**Prod. SCU**

Product description as Art. 982GCA

Polygonal sockets, extra long, connection 1/2".

Total length 80 mm.

Opening	mm	<b>8</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>
<b>982GCB</b>	Each	<b>9,88</b>	<b>9,88</b>	<b>9,88</b>	<b>9,88</b>	<b>9,88</b>	<b>9,88</b>	<b>9,96</b>
Opening	mm	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>21</b>	<b>22</b>	<b>24</b>
<b>982GCB</b>	Each	<b>9,96</b>	<b>11,30</b>	<b>11,30</b>	<b>11,70</b>	<b>13,80</b>	<b>14,10</b>	<b>15,20</b>
Opening	mm	<b>30</b>	<b>32</b>	<b>36</b>				
<b>982GCB</b>	Each	<b>16,90</b>	<b>17,10</b>	<b>20,70</b>				

The socket wrenches with an opening of 30-32-36 mm are particularly suitable for motor vehicle hubs.

**982GCE**



1/2"



For tight spaces

Product description as Art. 982GCA

Long hexagonal sockets, 1/2" drive. Thin walls, for confined areas. Especially suitable for the tightening of vehicle wheels.

Overall length: 63mm.

Opening	mm	<b>17</b>	<b>19</b>	<b>21</b>
external Ø	mm	25	27,5	30
<b>982GCE</b>	Each	<b>17,70</b>	<b>17,70</b>	<b>19,90</b>

To be used with torque torsion bars Art. 982 GDZ

**982GCT**



1/2"



**Orig. Gedore - Art. TXK 19**

Reinforced type in GEDORE special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

Internal TORX sockets, 1/2" drive.

TORX size	E	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>18</b>	<b>20</b>	<b>24</b>
For threads	M.	8	10	12	12	14	16	18-20
Seal	mm	9,3	11,1	12,8	14,7	16,6	18,4	22,1
Overall length	mm	38	38	38	38	38	38	45
<b>982GCT</b>	Each	<b>15,90</b>	<b>15,90</b>	<b>15,90</b>	<b>15,90</b>	<b>15,90</b>	<b>17,20</b>	<b>17,20</b>

**982GCZ**



1/2"



**Orig. Carolus - Art. 5430**

In special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

Internal TORX sockets, 1/2" drive.

TORX size	E	<b>6</b>	<b>7</b>	<b>8</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>14</b>
For threads	M.	5	6	6-7	8	9	10	12
Seal	mm	5,6	6,1	7,4	9,3	10,08	11,1	12,8
Overall length	mm	38	38	38	38	38	38	38
<b>982GCZ</b>	Each	<b>8,02</b>	<b>8,02</b>	<b>8,02</b>	<b>8,02</b>	<b>8,02</b>	<b>8,02</b>	<b>8,02</b>
TORX size	E	<b>16</b>	<b>18</b>	<b>20</b>	<b>22</b>	<b>24</b>		
For threads	M.	-	14	16	16-18	18-20		
Seal	mm	14,7	16,6	18,4	20,4	22,1		
Overall length	mm	38	38	38	38	42		
<b>982GCZ</b>	Each	<b>8,02</b>	<b>8,02</b>	<b>10,10</b>	<b>11,80</b>	<b>11,80</b>		

**Orig. Gedore - Art. INK 19**

Reinforced type in GEDORE special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

External TORX sockets, 1/2" drive.

Opening	mm	5	6	8	10	12	14	17
Overall length	mm	38	38	38	40	42	43	45
<b>982GD</b>	Each	<b>23,80</b>	<b>23,80</b>	<b>23,80</b>	<b>23,80</b>	<b>25,30</b>	<b>25,30</b>	<b>28,50</b>



**Orig. Carolus - Art. 5435**

Made from special steel. Square drive insert. Burnished. Suitable for impact based screwdrivers or for use with compressed air.

External hex sockets, 1/2" drive. Total length 60mm.

Opening	mm	10	12	14	17	19
<b>982GD 2</b>	Each	<b>15,60</b>	<b>15,60</b>	<b>15,60</b>	<b>18,20</b>	<b>20,90</b>



**3**

**Prod. SCU**

Product description as Art. 982GD 2

Sockets, interchangeable external hexagon, 1/2" drive. Overall length: 59mm.

Opening	mm	6	8	10	12	14
<b>982GDA</b>	Each	<b>29,40</b>	<b>29,40</b>	<b>29,40</b>	<b>30,90</b>	<b>30,90</b>



**Orig. Gedore - Art. ITX K 19**

Reinforced type in GEDORE special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

External TORX sockets, 1/2" drive.

TORX size	T	30	40	45	50	55	60
For threads	M.	6-7	7-8	8-10	10	12	14
Seal	mm	5,52	6,65	7,82	8,83	11,22	13,25
Overall length	mm	57	57	57	57	57	60
<b>982GDT</b>	Each	<b>36,50</b>	<b>37,60</b>	<b>40,20</b>	<b>42,30</b>	<b>42,30</b>	<b>42,30</b>



**SETS OF SOCKETS**

**Orig. Carolus - Art. 5575.00**

In special steel. Square drive. Suitable for impact or compressed air wrenches.

Supplied in metal case.

The set contains 3 sockets.

Content:

3 x hex sockets Art. 982 GDVA 17 - 19 - 21mm

Complete assortment.

<b>982GDV</b>	Each	<b>46,20</b>
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**SOCKETS FOR IMPACT WRENCHES DIN 3129-ISO 2725**

**Orig. Carolus - Art. 5575**

In special steel. Square drive. Suitable for impact or compressed air wrenches.

Coloured hex sockets with plastic sheath for external protection and internal insert to avoid damaging rims and bolts. 1/2" drive.

Total length: 85mm.

Opening	mm	15	17	19	21	22
Colour		green	blue	yellow	red	lilac
<b>982GDVA</b>	Each	<b>14,40</b>	<b>15,10</b>	<b>15,10</b>	<b>15,10</b>	<b>16,80</b>



Plastic sheath for external protection for Art. 982 GDVA.

Opening	mm	17	19	21	22
<b>O982GDVA</b>	Each	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>

### IMPACT TORQUE STICKS

#### 982GDZ



#### Prod. SCU

Model in special steel with preset torque value. Stick torsion on reaching of the chosen value. To be used for tightening with impact wrenches only. Differently coloured to assure a quick and safe choice of the right type.

External/internal 1/2" square drive sticks. Overall length: 152mm.

Tightening capacity up to Nm	<b>80</b>	<b>120</b>	<b>170</b>
Colour	green	yellow	red
<b>982GDZ</b> Each	<b>44,10</b>	<b>44,10</b>	<b>44,10</b>

### SETS OF SOCKETS

#### 982GDZ 400



#### Orig. Gedore - Art. K 32-040

Reinforced type in GEDORE special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

Supplied in plastic case.

The set contains 4 sockets.

Content:

4 x hex sockets Art. 982 GE 24 - 27 - 30 - 33mm

Complete assortment.

<b>982GDZ 400</b> Each	<b>144,00</b>
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### SOCKETS FOR IMPACT WRENCHES DIN 3129-ISO 2725

#### 982GE



#### Orig. Gedore - Art. K 32

Reinforced type in GEDORE special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

Hexagonal sockets, 3/4" drive.

Opening mm	<b>17</b>	<b>18</b>	<b>19</b>	<b>22</b>	<b>24</b>	<b>27</b>	<b>30</b>	<b>32</b>
Overall length mm	45	45	45	46	46	48	52	52
<b>982GE</b> Each	<b>26,90</b>	<b>26,90</b>	<b>26,60</b>	<b>29,20</b>	<b>29,20</b>	<b>30,70</b>	<b>31,50</b>	<b>34,00</b>
Opening mm	<b>33</b>	<b>34</b>	<b>36</b>	<b>38</b>	<b>41</b>			
Overall length mm	55	55	56	59	59			
<b>982GE</b> Each	<b>40,20</b>	<b>42,70</b>	<b>39,90</b>	<b>48,10</b>	<b>53,10</b>			
Opening inches	<b>13/16</b>	<b>7/8</b>	<b>15/16</b>	<b>1</b>	<b>1.1/16</b>	<b>1.1/8</b>	<b>1.1/4</b>	<b>1.5/16</b>
Overall length mm	46	46	46	46	48	52	52	55
<b>982GE</b> Each	<b>30,70</b>	<b>31,70</b>	<b>31,20</b>	<b>33,20</b>	<b>33,60</b>	<b>34,30</b>	<b>37,80</b>	<b>43,80</b>
Opening inches	<b>1.3/8</b>	<b>1.7/16</b>	<b>1.1/2</b>	<b>1.5/8</b>	<b>1.11/16</b>	<b>1.3/4</b>	<b>1.7/8</b>	<b>2</b>
Overall length mm	55	56	59	59	64	64	67	67
<b>982GE</b> Each	<b>43,80</b>	<b>53,40</b>	<b>53,40</b>	<b>57,70</b>	<b>60,80</b>	<b>62,20</b>	<b>80,90</b>	<b>93,10</b>

#### 982GEB



#### Orig. Carolus

In special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

Hexagonal sockets, 3/4" drive.

Opening mm	<b>17</b>	<b>18</b>	<b>19</b>	<b>22</b>	<b>24</b>	<b>26</b>	<b>27</b>
Overall length mm	50	50	50	50	50	50	54
Supplier code	8106	8106	8106	8106	8106	8106	8106
<b>982GEB</b> Each	<b>15,40</b>	<b>15,40</b>	<b>15,40</b>	<b>17,20</b>	<b>17,80</b>	<b>18,70</b>	<b>18,70</b>
Opening mm	<b>29</b>	<b>30</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>
Overall length mm	54	54	57	57	57	57	57
Supplier code	8106	8106	8106	8106	8106	8106	8106
<b>982GEB</b> Each	<b>20,30</b>	<b>20,30</b>	<b>20,80</b>	<b>21,90</b>	<b>22,70</b>	<b>23,50</b>	<b>25,20</b>
Opening mm	<b>38</b>	<b>41</b>	<b>46</b>	<b>50</b>	<b>55</b>	<b>60</b>	
Overall length mm	57	57	65	70	75	80	
Supplier code	8106	8106	-	-	-	-	
<b>982GEB</b> Each	<b>29,80</b>	<b>32,10</b>	<b>39,70</b>	<b>49,20</b>	<b>58,80</b>	<b>62,50</b>	

Sizes mm 46 - 50 - 55 - 60 are made by SCU.

**Prod. SCU**

Product description as Art. 982GEB

Polygonal sockets, 3/4" drive.

Opening	mm	17	18	19	22	24	27	30
Overall length	mm	50	50	50	50	50	50	55
<b>982GEC</b>	<b>Each</b>	<b>13,50</b>	<b>13,50</b>	<b>13,50</b>	<b>13,50</b>	<b>14,00</b>	<b>14,00</b>	<b>15,20</b>
Opening	mm	32	33	34	35	36	41	46
Overall length	mm	55	55	55	55	55	55	55
<b>982GEC</b>	<b>Each</b>	<b>15,60</b>	<b>15,90</b>	<b>16,30</b>	<b>16,60</b>	<b>18,10</b>	<b>22,20</b>	<b>26,30</b>



3/4"

**982GEC**
*new*
**Orig. Gedore - Art. K32 L**

Reinforced type in GEDORE special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

Extra long hexagonal sockets, 3/4" drive.

Length: 90mm.

Opening	mm	17	18	19	22	24	27	30
<b>982GEL</b>	<b>Each</b>	<b>41,60</b>	<b>37,50</b>	<b>41,80</b>	<b>44,50</b>	<b>44,50</b>	<b>45,90</b>	<b>55,80</b>
Opening	mm	32	33	34	36	41		
<b>982GEL</b>	<b>Each</b>	<b>59,40</b>	<b>72,40</b>	<b>78,10</b>	<b>72,90</b>	<b>75,40</b>		

18mm sockets are SCU product.


**982GEL**
**3**


3/4"

**Orig. Carolus - Art. 8406**

Made from special steel. Square drive insert. Burnished. Suitable for impact based screwdrivers or for use with compressed air.

Hex sockets, extra-long, 3/4" drive.

Length 100mm.

Opening	mm	17	19	20	21	22	23	24	25
<b>982GEL 2</b>	<b>Each</b>	<b>26,90</b>	<b>27,10</b>	<b>27,10</b>	<b>27,10</b>	<b>28,80</b>	<b>28,80</b>	<b>28,80</b>	<b>28,80</b>
Opening	mm	26	27	28	29	30	32	35	
<b>982GEL 2</b>	<b>Each</b>	<b>28,80</b>	<b>29,70</b>	<b>31,20</b>	<b>31,60</b>	<b>36,20</b>	<b>38,40</b>	<b>40,50</b>	


**982GEL 2**


3/4"

**Orig. Gedore - Art. INK 32**

Reinforced type GEDORE-SONDERSTAHL. Square fastening hole. Burnish finish. Suitable for hand or compressed air impact wrenches.

External hex sockets, 3/4" drive.

Opening	mm	14	17	19	22	24	27
Overall length	mm	59	62	64	67	67	67
<b>982GEM</b>	<b>Each</b>	<b>36,20</b>	<b>36,20</b>	<b>36,20</b>	<b>36,20</b>	<b>36,20</b>	<b>36,20</b>


**982GEM**


3/4"

**Orig. Carolus - Art. 8435**

Made from special steel. Square drive insert. Burnished. Suitable for impact based screwdrivers or for use with compressed air.

External hex sockets, 3/4" drive.

Total length 90mm.

Opening	mm	22	24	27	30	32
<b>982GEN</b>	<b>Each</b>	<b>27,50</b>	<b>27,50</b>	<b>27,50</b>	<b>29,20</b>	<b>29,20</b>


**982GEN**


3/4"

**Prod. SCU**

Product description as Art. 982GEN

Sockets, interchangeable external hexagon, 3/4" drive.

Opening	mm	12	14	17	19	22	24
Overall length	mm	70	70	82	82	82	82
<b>982GEP</b>	<b>Each</b>	<b>45,60</b>	<b>45,60</b>	<b>55,90</b>	<b>55,90</b>	<b>55,90</b>	<b>60,30</b>


**982GEP**


3/4"

**Orig. Gedore - Art. K 21**

Reinforced type in GEDORE special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

Hexagonal sockets, 1" drive.

Opening	mm	22	24	27	30	32	33	34	36
Overall length	mm	55	55	55	57	57	57	60	60
<b>982GF</b>	<b>Each</b>	<b>44,50</b>	<b>44,50</b>	<b>44,50</b>	<b>44,50</b>	<b>44,50</b>	<b>49,50</b>	<b>49,50</b>	<b>49,50</b>
Opening	mm	38	41	42	46	50	55	60	65
Overall length	mm	64	64	64	69	72	76	82	85
<b>982GF</b>	<b>Each</b>	<b>58,80</b>	<b>58,80</b>	<b>64,10</b>	<b>64,10</b>	<b>73,80</b>	<b>77,60</b>	<b>87,20</b>	<b>133,00</b>
Opening	mm	70	75	80					
Overall length	mm	88	92	97					
<b>982GF</b>	<b>Each</b>	<b>158,00</b>	<b>179,00</b>	<b>193,00</b>					
Opening	inches	1	1.1/4	1.7/16	1.1/2	1.5/8	1.13/16	1.7/8	2.1/4
Overall length	mm	55	57	60	64	64	69	72	80
<b>982GF</b>	<b>Each</b>	<b>47,80</b>	<b>47,80</b>	<b>61,30</b>	<b>61,30</b>	<b>61,30</b>	<b>86,40</b>	<b>88,80</b>	<b>129,00</b>


**982GF**


1"

**982GFB**



1"

**Prod. SCU**

In special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

Hexagonal sockets, 1" drive.

Opening	mm	22	24	27	30	32	33	34	
Overall length	mm	60	60	60	62	63	63	63	
<b>982GFB</b>	Each	<b>33,80</b>	<b>35,30</b>	<b>35,30</b>	<b>35,30</b>	<b>35,30</b>	<b>35,30</b>	<b>36,80</b>	
Opening	mm	36	38	41	42	46	50	55	
Overall length	mm	67	67	70	70	76	82	87	
<b>982GFB</b>	Each	<b>38,20</b>	<b>41,20</b>	<b>45,60</b>	<b>47,00</b>	<b>47,00</b>	<b>57,30</b>	<b>61,70</b>	
Opening	mm	60	65	70					
Overall length	mm	91	95	100					
<b>982GFB</b>	Each	<b>76,40</b>	<b>83,80</b>	<b>88,20</b>					

**982GFL**



1"

**Orig. Gedore - Art. K 21 L**

Reinforced type in GEDORE special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

Extra long hexagonal sockets, 1" drive.

Length: 100mm.

Opening	mm	22	24	27	30	32	33	34
<b>982GFL</b>	Each	<b>70,10</b>	<b>70,10</b>	<b>70,10</b>	<b>76,10</b>	<b>78,20</b>	<b>85,60</b>	<b>85,60</b>
Opening	mm	36	38	41	46			
<b>982GFL</b>	Each	<b>81,40</b>	<b>88,30</b>	<b>92,30</b>	<b>120,00</b>			

**982GFP**



1"

**Orig. Gedore - Art. INK 21**

Product description as Art. 982GFL

External hex sockets, 1" connection.

Total length 75mm.

Opening	mm	19	22	24	27	30	32	36
<b>982GFP</b>	Each	<b>50,60</b>	<b>50,60</b>	<b>50,60</b>	<b>50,60</b>	<b>50,60</b>	<b>50,60</b>	<b>55,50</b>

**IMPACT TORQUE STICK-SOCKETS**

**982GFT**



1"

**Prod. SCU**

Model in special steel with preset torque value. Bar torsion on reaching of the chosen value. To be used for tightening with impact wrenches only.

Hexagonal sockets-sticks/bars, 1" drive. Overall length: 305mm.

Opening	mm	27	30	32	33	36		
Tightening capacity up to	Nm	450	550	600	650	650		
<b>982GFT</b>	Each	<b>153,00</b>	<b>153,00</b>	<b>153,00</b>	<b>153,00</b>	<b>177,00</b>		

**SOCKETS FOR IMPACT WRENCHES DIN 3129-ISO 2725**

**982GH**



1 1/2"

**Orig. Gedore - Art. K 37**

Reinforced type in GEDORE special steel. Square drive. Burnished. Suitable for impact or compressed air wrenches.

Hexagonal sockets, 1 1/2" drive.

Opening	mm	46	50	55	60	65	70	75	80
Overall length	mm	80	82	88	92	96	101	105	110
<b>982GH</b>	Each	<b>163,00</b>	<b>176,00</b>	<b>190,00</b>	<b>213,00</b>	<b>243,00</b>	<b>289,00</b>	<b>323,00</b>	<b>372,00</b>
Opening	mm	85	90	95	100	105	110	115	120
Overall length	mm	116	118	118	125	125	137	137	145
<b>982GH</b>	Each	<b>388,00</b>	<b>407,00</b>	<b>502,00</b>	<b>531,00</b>	<b>596,00</b>	<b>767,00</b>	<b>810,00</b>	<b>1.280,00</b>

**982GL**



1 1/2"

**Orig. Gedore - Art. K 37 L**

Product description as Art. 982GH

Extra long hexagonal sockets, 1 1/2" drive.

Opening	mm	41	46	50	55	60	65	70		
Overall length	mm	140	140	140	140	140	140	140		
<b>982GL</b>	Each	<b>455,00</b>	<b>455,00</b>	<b>455,00</b>	<b>455,00</b>	<b>466,00</b>	<b>517,00</b>	<b>581,00</b>		
Opening	mm	75	80	85	90	95	100	105		
Overall length	mm	140	140	140	140	150	150	150		
<b>982GL</b>	Each	<b>650,00</b>	<b>785,00</b>	<b>792,00</b>	<b>836,00</b>	<b>985,00</b>	<b>1.080,00</b>	<b>1.190,00</b>		
Opening	mm	110	115	120						
Overall length	mm	160	160	170						
<b>982GL</b>	Each	<b>1.520,00</b>	<b>1.690,00</b>	<b>3.220,00</b>						

**Orig. Gedore - Art. K 64**

Product description as Art. 982GH

Hexagonal sockets, 2 1/2" drive.

Opening	mm	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>	<b>95</b>	<b>100</b>	<b>105</b>
Overall length	mm	125	125	130	132	132	141	141
<b>982GM</b>	<b>Each</b>	<b>683,00</b>	<b>683,00</b>	<b>699,00</b>	<b>788,00</b>	<b>895,00</b>	<b>1.040,00</b>	<b>1.110,00</b>

Opening	mm	<b>110</b>	<b>115</b>	<b>120</b>
Overall length	mm	150	150	158
<b>982GM</b>	<b>Each</b>	<b>1.220,00</b>	<b>1.290,00</b>	<b>1.460,00</b>



2 1/2"

**982GM**



**ACCESSORIES FOR IMPACT SOCKET ATTACHMENTS**

**Orig. Gedore**

GEDORE-SONDERSTAHL reinforced type. Square connection hole. Burnished finish. Suitable for percussion and compressed-air screwdrivers.

(also applicable to impact socket attachment Prod. SCU)

Rubber rings.

Size		<b>00</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>10</b>
For bushes drive	inches	1/4	3/8	3/8	1/2	1/2	3/4	3/4 - 1	1	1.1/2	1.1/2 - 2.1/2
For bushes opening	mm	5.5-17	6-12	13-24	10-14	15-32	17-41	46-60/22-70	75-80	41-90	95-120/75-120
For bushes opening TORX	E	-	5-14	-	10-18	20-24	-	-	-	-	-
For male hexagonal bushes opening	mm	-	-	-	5-10	12-17	12-24	-	-	-	-
For bushes opening TORX	T	-	-	-	-	30-60	-	-	-	-	-
For torsion bars	Nm	-	-	-	80-170	-	-	450-650	-	-	-
Supplier code		KB2070	KB3070	KB3070	KB1970	KB1970	KB3270	KB2170	KB3770	KB3770	KB6470
<b>982RA</b>	<b>Each</b>	<b>0,40</b>	<b>0,58</b>	<b>0,64</b>	<b>0,30</b>	<b>0,36</b>	<b>1,78</b>	<b>3,34</b>	<b>7,12</b>	<b>7,12</b>	<b>21,50</b>



**982RA**

**3**

Product description as Art. 982RA

Steel pins.

Size		<b>00</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>10</b>
For bushes drive	inches	1/4	3/8	3/8	1/2	1/2	3/4	3/4 - 1	1	1.1/2	1.1/2 - 2.1/2
For bushes opening	mm	5.5-17	6-12	13-24	10-14	15-32	17-41	46-60/22-70	75-80	41-90	95-120/75-120
For bushes opening TORX	E	-	5-14	-	10-18	20-24	-	-	-	-	-
For male hexagonal bushes opening	mm	-	-	-	5-10	12-17	12-24	-	-	-	-
For bushes opening TORX	T	-	-	-	-	30-60	-	-	-	-	-
For torsion bars	Nm	-	-	-	80-170	-	-	450-650	-	-	-
Supplier code		KB2075	KB3075	KB3075	KB1975	KB1975	KB3275	KB2175	KB3775	KB3775	KB6475
<b>982RB</b>	<b>Each</b>	<b>0,44</b>	<b>2,02</b>	<b>2,02</b>	<b>0,78</b>	<b>0,78</b>	<b>1,06</b>	<b>1,20</b>	<b>2,14</b>	<b>2,14</b>	<b>10,40</b>



**982RB**

**Orig. Gedore - Art. KB2090-2**

Product description as Art. 982RA

Extensions, 1/4" connection

Length	mm	50
<b>982RC</b>	<b>Each</b>	<b>18,60</b>



1/4"

**982RC**



**Orig. Gedore**

Product description as Art. 982RA

Extensions, 3/8" connection

Length	mm	<b>75</b>	<b>125</b>	<b>250</b>
Supplier code		KB3090-3	KB3090-5	KB3090-10
<b>982RE</b>	<b>Each</b>	<b>20,20</b>	<b>21,30</b>	<b>30,30</b>



3/8"

**982RE**



**Orig. Carolus**

Made from special steel. Square drive insert. Burnished. Suitable for impact based screwdrivers or for use with compressed air.

Extensions, 3/8" drive.

Length	mm	<b>75</b>	<b>150</b>
Supplier code		6450.075	6450.150
<b>982REP</b>	<b>Each</b>	<b>8,08</b>	<b>11,40</b>



3/8"

**982REP**



**Orig. Gedore**

GEDORE-SONDERSTAHL reinforced type. Square connection hole. Burnished finish. Suitable for percussion and compressed-air screwdrivers.

(also applicable to impact socket attachment Prod. SCU)

Extensions, 1/2" connection

Length	mm	<b>125</b>	<b>250</b>
Supplier code		KB1990-5	KB1990-10
<b>982RF</b>	<b>Each</b>	<b>24,50</b>	<b>36,90</b>



1/2"

**982RF**



**982RFP** **1/2"**



**Orig. Carolus**  
 Made from special steel. Square drive insert. Burnished. Suitable for impact based screwdrivers or for use with compressed air.  
 Extensions, 1/2" drive.

Length	mm	<b>75</b>	<b>125</b>	<b>250</b>
Supplier code		5450.075	5450.125	5450.250
<b>982RFP</b>	<b>Each</b>	<b>13,10</b>	<b>16,10</b>	<b>24,30</b>

**982RH** **3/4"**



**Orig. Gedore**  
 GEDORE-SONDERSTAHL reinforced type. Square connection hole. Burnished finish. Suitable for percussion and compressed-air screwdrivers.  
 (also applicable to impact socket attachment Prod. SCU)  
 Extensions, 3/4" connection

Length	mm	<b>205</b>	<b>300</b>	<b>405</b>
Supplier code		KB3290-8	KB3290-12	KB3290-16
<b>982RH</b>	<b>Each</b>	<b>57,20</b>	<b>69,10</b>	<b>89,80</b>

**982RHP** **3/4"**



**Orig. Carolus**  
 Made from special steel. Square drive insert. Burnished. Suitable for impact based screwdrivers or for use with compressed air.  
 Extensions, 3/4" drive.

Length	mm	<b>100</b>	<b>175</b>	<b>250</b>
Supplier code		8450.100	8450.175	8450.250
<b>982RHP</b>	<b>Each</b>	<b>35,50</b>	<b>40,50</b>	<b>56,60</b>

**982RL** **1"**



**Orig. Gedore**  
 GEDORE-SONDERSTAHL reinforced type. Square connection hole. Burnished finish. Suitable for percussion and compressed-air screwdrivers.  
 (also applicable to impact socket attachment Prod. SCU)  
 Extensions, 1" connection

Length	mm	<b>205</b>	<b>300</b>	<b>405</b>
Supplier code		KB2190-8	KB2190-12	KB2190-16
<b>982RL</b>	<b>Each</b>	<b>82,10</b>	<b>96,10</b>	<b>116,00</b>

**982RL 1** **3/8"**



**Orig. Gedore - Art. KB3095**  
 Product description as Art. 982RL  
 SPHERE JOINT  
 Joints, 3/8" connection. Length 42 mm.

<b>982RL 1</b>	<b>Each</b>	<b>43,80</b>
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**982RM** **1/2"**



**Orig. Gedore - Art. KB1995**  
 Product description as Art. 982RL  
 SPHERICAL JOINTS  
 Joints, 1/2" connection. Length 75,5 mm.

<b>982RM</b>	<b>Each</b>	<b>44,90</b>
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**982RP** **3/4"**



**Orig. Gedore - Art. KB3295**  
 Product description as Art. 982RL  
 SPHERICAL JOINTS  
 Joints, 3/4" connection. Length 108 mm.

<b>982RP</b>	<b>Each</b>	<b>141,00</b>
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**982RS** **1"**



**Orig. Gedore - Art. KB2195**  
 Product description as Art. 982RL  
 SPHERICAL JOINTS  
 Joints, 1" connection. Length 140 m.

<b>982RS</b>	<b>Each</b>	<b>256,00</b>
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**Orig. Gedore**

Product description as Art. 982RL  
EXPANSION AND REDUCTION SOCKETS



**982RT**



Size		0	1	2	3	4	4A	5
Type		reduction	reduction	reduction	reduction	reduction	reduction	reduction
Female square drive.	inches	3/8	1/2	3/4	1	1.1/2	1.1/2	2.1/2
Male square drive.	inches	1/4	3/8	1/2	3/4	1	1	1.1/2
Overall length	mm	31	44	65	75	95	110	145
Supplier code		KB3020	KB1930	KB3219	KB2132	KB3721		KB6437
<b>982RT</b>	<b>Each</b>	<b>29,60</b>	<b>30,10</b>	<b>28,80</b>	<b>45,60</b>	<b>58,00</b>	<b>121,00</b>	<b>1.080,00</b>

Size		5A	5M	6	7	8	9	10
Type		reduction	increase	increase	increase	increase	increase	increase
Female square drive.	inches	2.1/2	1/4	3/8	1/2	3/4	1	1.1/2
Male square drive.	inches	1.1/2	3/8	1/2	3/4	1	1.1/2	2.1/2
Overall length	mm	165	25	36	45	65	82	128
Supplier code				KB3019	KB1932	KB3221	KB2137	
<b>982RT</b>	<b>Each</b>	<b>500,00</b>	<b>13,90</b>	<b>31,10</b>	<b>21,30</b>	<b>35,50</b>	<b>209,00</b>	<b>221,00</b>

4A-5A-5M-10 widths are SCU product.

**Orig. Carolus**

Made from special steel. Square drive insert. Burnished. Suitable for impact based screwdrivers or for use with compressed air.



**982RTE**

REDUCTION AND CONVERSION SOCKETS

Size		1	2	7	8
Type		reduction	reduction	increase	increase
Female square drive.	inches	1/2	3/4	1/2	3/4
Male square drive.	inches	3/8	1/2	3/4	1
Supplier code		5464.00	8454.00	5484.00	8494.00
<b>982RTE</b>	<b>Each</b>	<b>19,50</b>	<b>19,50</b>	<b>14,60</b>	<b>24,30</b>



**SCREWDRIVERS DREMO PLUS 3K LINE**

**Orig. Gedore - Art. 171 IS**

Screwdrivers for electronics, high performance industrial series. Ergonomic antislip dual-component handle. With rotating rear end cap. Blades in MOLYBDENUM-VANADIUM 73Mo V52 steel, tip additional coating for maximum precision and corrosion resistance. With graduation marks, chrome plated and satin finish.



**982RVA**

FLAT BLADE SCREWDRIVERS

Type		60A	60B	60C	60D	75	100
Blade length	mm	60	60	60	60	75	100
Cutting edge width	mm	1,2	1,5	1,8	2	2,5	3
Overall length	mm	155	155	155	155	170	195
<b>982RVA</b>	<b>Each</b>	<b>7,24</b>	<b>7,06</b>	<b>7,00</b>	<b>6,86</b>	<b>6,54</b>	<b>6,08</b>



**Orig. Gedore - Art. 165 PH**

Product description as Art. 982RVA

CROSSBLADE PHILLIPS SCREWDRIVERS

Size		000	00	0	1
Blade length	mm	60	60	60	80
For screws	M.	-	-	2	2-3
Overall length	mm	155	155	155	175
<b>982RVB</b>	<b>Each</b>	<b>8,88</b>	<b>8,18</b>	<b>5,98</b>	<b>6,18</b>



**982RVB**



**Orig. Gedore - Art. 165 TX**

Product description as Art. 982RVA

SCREWDRIVERS FOR TORX SCREWS

TORX size		3	4	5	6	7	8	9
Blade length	mm	60	60	60	60	60	60	60
For screws	M.	1,2-1,4	1,4	1,8	2	2,5	2,5	3
Seal	mm	1,10	1,28	1,42	1,70	1,99	2,31	2,50
Overall length	mm	155	155	155	155	155	155	155
<b>982RVE</b>	<b>Each</b>	<b>11,80</b>	<b>11,80</b>	<b>9,10</b>	<b>7,24</b>	<b>7,24</b>	<b>7,24</b>	<b>7,42</b>

TORX size		10	15	20
Blade length	mm	60	60	80
For screws	M.	3-3,5	3,5-4	4-5
Seal	mm	2,74	3,27	3,86
Overall length	mm	155	155	175
<b>982RVE</b>	<b>Each</b>	<b>7,42</b>	<b>7,42</b>	<b>7,74</b>



**982RVE**



**982RVF** 

**Orig. Gedore - Art. 164 IN**

Product description as Art. 982RVA

SCREWDRIVERS FOR ALLEN SCREWS

Blade length: 60mm. Total length: 155mm.

Hexagon opening	mm	0,7	0,9	1,3	1,5	2	2,5	3
<b>982RVF</b>	Each	<b>9,32</b>	<b>8,88</b>	<b>7,48</b>	<b>7,48</b>	<b>7,24</b>	<b>7,24</b>	<b>7,24</b>

**SCREWDRIVERS DREMO PLUS 3K LINE**
**982SA** 

**Orig. Gedore - Art. 2170**

Screwdrivers, high performance industrial series. Strong anatomic antislip handle obtained thanks to the combination of three plastic materials: very stiff core, stiff front side and soft central-rear side.

Blades up to Ø 6.5mm in MOLYBDENUM-VANADIUM 73Mo V52 steel.

Blades from Ø 7mm in CHROME-VANADIUM-SILICON 61CrSi V5.

With graduation marks, chrome plated, matt finish, grey tip for highest precision.

Hang hole. FLAT BLADE SCREWDRIVERS FOR ELECTRICIANS-INSULATED BLADE (DIN 5265-cutting edge DIN 5264A).

Type		100	125	150
Blade length	mm	100	125	150
Cutting edge width	mm	4	5,5	6,5
Cutting edge thickness	mm	0,8	1	1,2
Blade Ø	mm	4	5,5	6,5
Overall length	mm	190	225	260
<b>982SA</b>	Each	<b>8,28</b>	<b>9,32</b>	<b>10,60</b>

Product running out of stock.

**982SB** 

**Orig. Gedore - Art. 2150**

Product description as Art. 982SA

Hang hole. FLAT BLADE SCREWDRIVERS

(DIN 5265-cutting edge DIN 5264A).

Type		80	100	125	150	175	200	250
Blade length	mm	80	100	125	150	175	200	250
Cutting edge width	mm	3	4	5,5	6,5	8	10	12
Cutting edge thickness	mm	0,5	0,8	1	1,2	1,2	1,6	2
Blade Ø	mm	3	4	5	6	7	8	9
Overall length	mm	160	190	225	250	295	320	370
<b>982SB</b>	Each	<b>5,34</b>	<b>6,10</b>	<b>7,06</b>	<b>13,10</b>	<b>15,30</b>	<b>20,60</b>	<b>25,90</b>
Type		250A*	300*	300A*	400*	400A*		
Blade length	mm	250	300	300	400	400		
Cutting edge width	mm	14	6,5	8	6,5	8		
Cutting edge thickness	mm	2,5	1,2	1,2	1,2	1,2		
Blade Ø	mm	11	6	6	7	7		
Overall length	mm	370	420	420	520	520		
<b>982SB</b>	Each	<b>30,70</b>	<b>24,80</b>	<b>29,20</b>	<b>31,10</b>	<b>37,10</b>		

When stocks are depleted, we will provide screwdrivers with handles in different form.

\* Sizes running out of stock.

**982SC** 


Product description as Art. 982SA

Hang hole. FLAT BLADE SCREWDRIVERS WITH PARALLEL FACES

(DIN 5265-cutting edge DIN 5264B).

Type		100*	100A*	100B*	125*	150	150A	150B
Blade length	mm	100	100	100	125	150	150	150
Cutting edge width	mm	3	5,5	6,5	8	3	4	5,5
Cutting edge thickness	mm	0,5	1	1,2	1,2	0,5	0,8	1
Blade Ø	mm	3	5,5	6,5	8	3	4	5,5
Overall length	mm	180	200	210	245	230	240	250
<b>982SC</b>	Each	<b>5,32</b>	<b>9,24</b>	<b>10,40</b>	<b>13,30</b>	<b>6,62</b>	<b>7,64</b>	<b>10,50</b>
Type		150C*	200	225*	250*	250A*		
Blade length	mm	150	200	225	250	250		
Cutting edge width	mm	10	6,5	8	5,5	10		
Cutting edge thickness	mm	1,6	1,2	1,2	1	1,6		
Blade Ø	mm	10	6,5	8	5,5	10		
Overall length	mm	270	310	345	350	370		
<b>982SC</b>	Each	<b>17,60</b>	<b>13,90</b>	<b>14,80</b>	<b>9,88</b>	<b>19,30</b>		

When stocks are depleted, we will provide screwdrivers with handles in different form.

\* Sizes running out of stock.

**Orig. Gedore - Art. 2154SK**

Product description as Art. 982SA

FLAT BLADE SCREWDRIVERS WITH HEXAGON RECEPTACLE AND STEEL END CAP

Type		75	90	100	125	150	175	200	200A
Blade length	mm	75	90	100	125	150	175	200	250
Cutting edge width	mm	3,5	4,5	5,5	6,5	8,0	10	12	14
Cutting edge thickness	mm	0,6	0,8	1,0	1,2	1,2	1,6	2,0	2,5
Blade Ø	mm	4	5	5	6	7	8	9	11
Overall length	mm	180	195	205	245	270	295	320	320
Hexagon	mm	8	8	8	10	13	13	16	16
<b>982SEC</b>	<b>Each</b>	<b>13,70</b>	<b>13,10</b>	<b>13,50</b>	<b>15,30</b>	<b>19,20</b>	<b>23,70</b>	<b>30,10</b>	<b>39,40</b>

When stocks are depleted, we will provide screwdrivers with handles in different form.



**982SEC**



**3**

**Orig. Gedore - Art. 2160 PH**

Product description as Art. 982SA

With hang hole. PHILLIPS SCREWDRIVERS (DIN ISO 8764, tip DIN ISO 8764-1/PH).

Size		0	1	1L	2	2L	2P	3	4
Blade length	mm	60	80	200	100	200	400	150	200
For screws	M.	1,6-2	2-3	2-3	3,5-5	3,5-5	3,5-5	5,5-7	8-10
Blade Ø	mm	3	4,5	4,5	6	6	6	8	10
Overall length	mm	140	180	300	210	310	510	270	320
Hexagon	mm	-	-	-	-	-	-	13	16
<b>982SF</b>	<b>Each</b>	<b>6,60</b>	<b>8,48</b>	<b>10,30</b>	<b>11,40</b>	<b>15,10</b>	<b>30,70</b>	<b>15,30</b>	<b>20,10</b>

Sizes 3 and 4 have an hexagonal connection.

While stocks last screwdrivers will be supplied with handles of different shapes.

Size 2P running out of stock.



**982SF**



**Orig. Gedore - Art. 2160SK PH**

Product description as Art. 982SA

PHILLIPS SCREWDRIVERS WITH HEXAGON RECEPTACLE AND STEEL END CAP

Size		1	2	3	4
Blade length	mm	80	100	150	200
For screws	M.	2-3	3,5-5	5,5-7	8-10
Blade Ø	mm	4	6	8	10
Overall length	mm	185	220	270	320
Hexagon	mm	8	10	13	16
<b>982SFC</b>	<b>Each</b>	<b>14,10</b>	<b>15,30</b>	<b>20,30</b>	<b>29,60</b>

When stocks are depleted, we will provide screwdrivers with handles in different form.



**982SFC**



**Orig. Gedore - Art. 2160 PZ**

Product description as Art. 982SA

With hang hole. POZIDRIV SCREWDRIVERS (DIN 8764, tip DIN ISO 8764-1/PZ).

Size		0	1	2	3	4
Blade length	mm	60	80	100	150	200
For screws	M.	1,6-2	2-3	3,5-5	5,5-7	8-10
Blade Ø	mm	3	4,5	6	8	10
Overall length	mm	140	180	210	270	320
Hexagon	mm	-	-	-	13	16
<b>982SL</b>	<b>Each</b>	<b>8,24</b>	<b>9,82</b>	<b>13,50</b>	<b>18,80</b>	<b>25,40</b>

Sizes 3 and 4 have an hexagonal connection.

While stocks last screwdrivers will be supplied with handles of different shapes.



**982SL**



**Orig. Gedore - Art. 2160SK PZ**

Product description as Art. 982SA

POZIDRIV SCREWDRIVERS WITH HEXAGON RECEPTACLE AND STEEL END CAP

Size		1	2	3
Blade length	mm	80	100	150
For screws	M.	2-3	3,5-5	5,5-7
Blade Ø	mm	4	6	8
Overall length	mm	185	220	270
Hexagon	mm	8	10	13
<b>982SLC</b>	<b>Each</b>	<b>14,00</b>	<b>15,40</b>	<b>23,40</b>

When stocks are depleted, we will provide screwdrivers with handles in different form.



**982SLC**



**982SM** 

**Orig. Gedore - Art. 2163 TX**

Product description as Art. 982SA

Hang hole. SCREWDRIVERS FOR TORX SCREWS

TORX size	T	3	5	6	7	8	9	10	15
Blade length	mm	60	60	60	60	60	60	80	80
For screws	M.	1,2-1,4	1,8	2	2,5	2,5	3	3-3,5	3,5-4
Seal	mm	1,10	1,42	1,70	1,99	2,31	2,50	2,74	3,27
Blade Ø	mm	3	3	3	3	3	3	3	3,5
Overall length	mm	140	140	140	140	140	140	160	170
<b>982SM</b>	<b>Each</b>	<b>8,68</b>	<b>8,72</b>	<b>8,72</b>	<b>8,48</b>	<b>8,48</b>	<b>8,48</b>	<b>8,48</b>	<b>8,72</b>

TORX size	T	20	25	27	30	40	45	50
Blade length	mm	100	100	115	115	130	130	150
For screws	M.	4-5	4,5-5	4,5-6	6-7	7-8	8-10	10
Seal	mm	3,86	4,43	4,99	5,52	6,65	7,82	8,83
Blade Ø	mm	4	4,5	5,5	6	7	8	9
Overall length	mm	190	200	215	225	240	250	270
<b>982SM</b>	<b>Each</b>	<b>8,88</b>	<b>9,40</b>	<b>10,20</b>	<b>11,10</b>	<b>12,30</b>	<b>14,50</b>	<b>13,80</b>

When stocks are depleted, we will provide screwdrivers with handles in different form.  
 Sizes T3 and T50 running out of stock.

**982SP** 

**Orig. Gedore - Art. 2163 TXB**

Product description as Art. 982SA

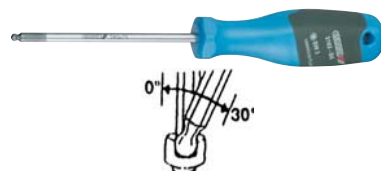
Foro di aggancio.

Hang hole. SCREWDRIVERS FOR TORX SCREWS WITH HOLE

TORX size	T	7	8	9	10	15	20	25
Blade length	mm	60	60	60	80	80	100	100
For screws	M.	2,5	2,5	3	3-3,5	3,5-4	4-5	4,5-5
Seal	mm	1,99	2,31	2,50	2,74	3,27	3,86	4,43
Blade Ø	mm	3	3	3	3	3,5	4	4,5
Overall length	mm	140	140	140	160	170	190	200
<b>982SP</b>	<b>Each</b>	<b>11,60</b>	<b>11,60</b>	<b>11,60</b>	<b>11,60</b>	<b>11,70</b>	<b>12,10</b>	<b>12,80</b>

TORX size	T	27	30	40
Blade length	mm	115	115	130
For screws	M.	4,5-6	6-7	7-8
Seal	mm	4,99	5,52	6,65
Blade Ø	mm	5,5	6	7
Overall length	mm	215	225	240
<b>982SP</b>	<b>Each</b>	<b>14,10</b>	<b>14,90</b>	<b>16,60</b>

When stocks are depleted, we will provide screwdrivers with handles in different form.

**982SR** 

**Orig. Gedore - Art. 2163 K**

Product description as Art. 982SA

Hang hole. BALL SCREWDRIVERS FOR ALLEN SCREWS

Hexagon opening	mm	2	3	4	5	6	8	10	12
Blade length	mm	75	75	100	100	125	150	150	160
Blade Ø	mm	3	4	5	6	7	10	12	14
Overall length	mm	155	155	190	200	235	270	270	280
<b>982SR</b>	<b>Each</b>	<b>7,06</b>	<b>6,60</b>	<b>7,22</b>	<b>8,32</b>	<b>10,10</b>	<b>15,90</b>	<b>17,90</b>	<b>20,40</b>

When stocks are depleted, we will provide screwdrivers with handles in different form.

**SCREWDRIVERS DREMO PLUS 1K LINE, SHORT PATTERN**
**982ST** 

**Orig. Gedore - Art. 2153**

Screwdrivers, high performance industrial series. Handle in stiff plastic material.

Blades up to Ø 6.5mm in MOLYBDENUM-VANADIUM 73Mo V52 steel.

Blades from Ø 7mm in CHROME-VANADIUM-SILICON 61CrSi V5.

With graduation marks, chrome plated, matt finish, grey tip for highest precision.

Hang-up hole.

FLAT BLADE SCREWDRIVERS

(DIN 5265-cutting edge DIN 5264B).

Type		1	2	3	4
Blade length	mm	25	25	25	25
Cutting edge width	mm	4	5,5	6,5	8
Cutting edge thickness	mm	0,8	1	1,2	1,2
Blade Ø	mm	4	5,5	6,5	8
Overall length	mm	75	75	75	75
<b>982ST</b>	<b>Each</b>	<b>5,50</b>	<b>5,58</b>	<b>5,96</b>	<b>6,36</b>

When stocks are depleted, we will provide screwdrivers with handles in different form.

**Orig. Gedore - Art. 2161 PH**

Product description as Art. 982ST  
 PHILLIPS SCREWDRIVERS  
 (DIN ISO 8764, tip DIN ISO 8764-1/PH).

Size		1	2
Blade length	mm	25	25
For screws	M.	2-3	3,5-5
Blade Ø	mm	4,5	6
Overall length	mm	75	75

<b>982SV</b>	Each	<b>5,56</b>	<b>6,14</b>
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When stocks are depleted, we will provide screwdrivers with handles in different form.



**982SV**



**Orig. Gedore - Art. 2161 PZ**

Product description as Art. 982ST  
 POZIDRIV SCREWDRIVERS  
 (DIN ISO 8764, tip DIN ISO 8764-1/PZ).

Size		1	2
Blade length	mm	25	25
For screws	M.	2-3	3,5-5
Blade Ø	mm	4,5	6
Overall length	mm	75	75

<b>982SZ</b>	Each	<b>6,36</b>	<b>6,98</b>
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When stocks are depleted, we will provide screwdrivers with handles in different form.



**982SZ**



**3**

**SETS OF SCREWDRIVERS DREMO PLUS 3K LINE**

**Orig. Gedore - Art. 165-171-06**

Screwdrivers for electronics, high performance industrial series. Ergonomic antislip dual-component handle. With rotating rear end cap. Blades in MOLYBDENUM-VANADIUM 73Mo V52 steel, tip additional coating for maximum precision and corrosion resistance. With graduation marks, chrome plated and satin finish.

The set contains 6 tools.

Content:

- 1 x flat blade screwdriver Art. 982 RVAx60A
- 1 x flat blade screwdriver Art. 982 RVAx60C
- 1 x flat blade screwdriver Art. 982 RVAx75
- 1 x PHILLIPS screwdriver Art. Art. 982 RVBx000
- 1 x PHILLIPS screwdriver Art. Art. 982 RVBx00
- 1 x PHILLIPS screwdriver Art. Art. 982 RVBx0

In plastic case.

Complete assortment.

<b>982TL</b>	Each	<b>69,40</b>
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**982TL**



**Orig. Gedore - Art. 165 TX-06**

Product description as Art. 982TL

The set contains 6 tools.

Content:

- 1 x 5 screwdrivers for TORX screws Art. 982 RVExT5-T6-T7-T8-T9-T10

In plastic case.

Complete assortment.

<b>982TM</b>	Each	<b>71,20</b>
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**982TM**



**Orig. Gedore - Art. 1021**

Product description as Art. 982TL

The set contains 7 tools.

Content:

- 1 x flat blade screwdriver Art. 982 RVAx60A
- 1 x flat blade screwdriver Art. 982 RVAx60B
- 1 x flat blade screwdriver Art. 982 RVAx60D
- 1 x PHILLIPS screwdriver Art. Art. 982 RVBx00
- 1 x PHILLIPS screwdriver Art. Art. 982 RVBx0
- 1 x pliers for electronics Art. 106 GL
- 1 x cutter for electronics Art. 557 GC

In plastic case.

Complete assortment.

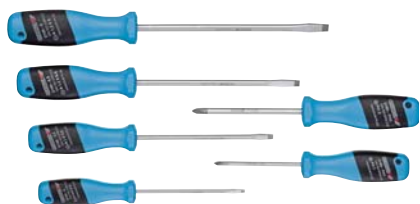
<b>982TP</b>	Each	<b>189,00</b>
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**982TP**



## SETS OF SCREWDRIVERS DREMO PLUS 3K LINE

982VA **Orig. Gedore - Art. 2150-2160 PH-06**

Screwdrivers, high performance industrial series. Strong anatomic antislip handle obtained thanks to the combination of three plastic materials: very stiff core, stiff front side and soft central-rear side.

Blades up to Ø 6.5mm in MOLYBDENUM-VANADIUM 73Mo V52 steel.

Blades from Ø 7mm in CHROME-VANADIUM-SILICON 61CrSi V5.

With graduation marks, chrome plated, matt finish, grey tip for highest precision.

Hang-up hole.

6-tools set.

Each set contains:

1 x flat blade screwdriver Art. 982 SBx100

1 x flat blade screwdriver Art. 982 SBx125

1 x flat blade screwdriver Art. 982 SBx150

1 x flat blade screwdriver Art. 982 SBx175

1 x PHILLIPS screwdriver Art. 982 SFx1

1 x PHILLIPS screwdriver Art. 982 SFx2

Supplied in cardboard packaging.

Complete assortment.

**982VA** Each **60,80**

When stocks are depleted, we will provide screwdrivers with handles in different form.

982VB **Orig. Gedore - Art. 2150-2160 PH-010**

Product description as Art. 982VA

10-tools set.

Each set contains:

1 x flat blade screwdriver Art. 982 SBx80

1 x flat blade screwdriver Art. 982 SBx100

1 x flat blade screwdriver Art. 982 SBx125

1 x flat blade screwdriver Art. 982 SBx150

1 x flat blade screwdriver Art. 982 SBx175

1 x PHILLIPS screwdriver Art. 982 SFx1

1 x PHILLIPS screwdriver Art. 982 SFx2

1 x flat blade screwdriver, short pattern Art. 982 STx2

1 x PHILLIPS screwdriver, short pattern Art. 982 SVx1

1 x phase detecting screwdriver 150-250 V

Supplied in cardboard packaging.

Complete assortment.

**982VB** Each **85,10**

When stocks are depleted, we will provide screwdrivers with handles in different form.

982VC **Orig. Gedore - Art. 2150-2160 PZ-06**

Product description as Art. 982VA

6-tools sets.

Each set consists of:

1 x flat blade screwdriver Art. 982 SBx100

1 x flat blade screwdriver Art. 982 SBx125

1 x flat blade screwdriver Art. 982 SBx150

1 x flat blade screwdriver Art. 982 SBx175

1 x PHILLIPS screwdriver Art. 982 SLx1

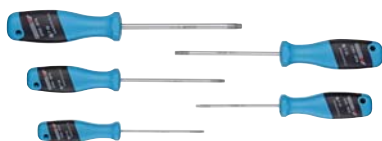
1 x PHILLIPS screwdriver Art. 982 SLx2

Supplied in cardboard packaging.

Complete assortment.

**982VC** Each **60,80**

When stocks are depleted, we will provide screwdrivers with handles in different form.

982VE **Orig. Gedore - Art. 2163 TX-05**

Product description as Art. 982VA

5-tools set.

Each set contains:

1 x 5 screwdrivers for TORX screws Art. 982 SMxT10-T15-T20-T25-T30

Supplied in cardboard packaging.

Complete assortment.

**982VE** Each **47,10**

When stocks are depleted, we will provide screwdrivers with handles in different form.

**Orig. Gedore - Art. 2163 TX-010**

Product description as Art. 982VA

10-tools sets.

Each set contains:

1 x 10 screwdrivers for TORX screws Art. 982 SMxT7-T8-T9-T10-T15-T20-T25-T27-T30-T40

Supplied in cardboard packaging.

Complete assortment.

**982VF** Each **96,20**

When stocks are depleted, we will provide screwdrivers with handles in different form.



**982VF**

**Orig. Gedore - Art. 2163 TXB-05**

Product description as Art. 982VA

5-tools set. Each set contains:

1 x 5 screwdrivers for TORX screws with hole Art. 982 SPxT10-T15-T20-T25-T30

Supplied in cardboard packaging.

Complete assortment.

**982VL** Each **64,20**

When stocks are depleted, we will provide screwdrivers with handles in different form.



**982VL**

**Orig. Gedore - Art. SK 2154 PH-06**

Product description as Art. 982VA

SCREWDRIVERS WITH EXAGON AND STEEL PERCUSSION CALOTTE

The set contains 6 tools.

Content:

1 x flat blade screwdriver Art. 982 SECx90

1 x flat blade screwdriver Art. 982 SECx100

1 x flat blade screwdriver Art. 982 SECx125

1 x flat blade screwdriver Art. 982 SECx150

1 x PHILLIPS screwdriver Art. 982 SFCx1

1 x PHILLIPS screwdriver Art. 982 SFCx2

Supplied in cardboard packaging.

Complete assortment.

**982VR** Each **77,10**

When stocks are depleted, we will provide screwdrivers with handles in different form.

Counter display with 155 assorted screwdrivers line Gedore DREMO PLUS 3K available on request.



**982VR**

**SCREWDRIVER BITS**

**Orig. Gedore - Art. 680**

Burnished finish. GEDORE-VANADIUM-SONDERSTAHL. Screw insert bits. Hand or machine-operated.

Straight head screw DIN 3127 – ISO 2351.

1/4" connection.

Cutting width	mm	4	4,5	5,5	6,5	7	8	10
Cutting thickness	mm	0,5	0,6	0,8	1,2	1,2	1,6	1,6
Length	mm	25	25	25	25	25	25	39

**983GA** Each **1,22 1,22 1,22 1,22 1,22 1,56 5,46**



**983GA**

**Orig. Gedore - Art. 880**

Product description as Art. 983GA

Straight head screw DIN 3127 – ISO 2351.

5/16" connection.

Cutting width	mm	5,5	6,5	7	8	9	10	12	14
Cutting thickness	mm	0,8	1,2	1,2	1,6	1,6	1,6	2	2,5
Length	mm	41	41	41	41	41	41	41	41

**983GB** Each **3,42 3,42 3,42 3,42 3,42 6,80 8,02 8,02**



**983GB**

**Orig. Gedore - Art. 690**

Product description as Art. 983GA

Phillips cross head screw, DIN 3128. 1/4" connection.

Size		0	1	1L	2	2L	3	3L	4
Length	mm	25	25	50	25	50	25	50	32

**983GC** Each **1,40 1,16 1,84 1,16 1,84 1,16 1,84 3,08**



**983GC**

**Orig. Gedore - Art. 890**

Product description as Art. 983GA

Phillips cross head screw, DIN 3128. 5/16" connection.

Size		1	2	3	4	4L
Length	mm	32	32	32	32	38

**983GD** Each **2,38 2,38 2,38 3,64 3,74**



**983GD**

### 983GF



**Orig. Gedore - Art. 690PZ**

Product description as Art. 983GA

Pozidriv-Supadriv cross head screw, DIN 3128. 1/4" connection.

Size	1	1L	2	2L	3	3L	4
Length mm	25	50	25	50	25	50	32
<b>983GF</b> Each	<b>1,16</b>	<b>1,84</b>	<b>1,16</b>	<b>1,84</b>	<b>1,16</b>	<b>1,84</b>	<b>3,08</b>

### 983GH



**Orig. Gedore - Art. 890PZ**

Product description as Art. 983GA

Pozidriv-Supadriv cross head screw, DIN 3128. 5/16" connection.

Size	1	2	3	4
Length mm	32	32	32	32
<b>983GH</b> Each	<b>2,38</b>	<b>2,38</b>	<b>2,38</b>	<b>3,74</b>

### 983GL



**Orig. Gedore - Art. 685**

Product description as Art. 983GA

Hexagonal head screw DIN 7426 – ISO 3109. 1/4" connection.

For screws with Hexagon	mm	2	2.5	3	4	5	6	8	10
Length	mm	25	25	25	25	25	25	33	33
<b>983GL</b> Each		<b>1,22</b>	<b>1,28</b>	<b>1,28</b>	<b>1,28</b>	<b>1,28</b>	<b>1,28</b>	<b>1,88</b>	<b>2,80</b>

### 983GM



**Orig. Gedore - Art. 885**

Product description as Art. 983GA

Hexagonal head screw DIN 7426 – ISO 3109. 5/16" connection.

For screws with Hexagon	mm	3	4	5	6	8	10
Length	mm	30	30	30	30	30	30
<b>983GM</b> Each		<b>3,42</b>	<b>3,42</b>	<b>3,42</b>	<b>3,42</b>	<b>3,42</b>	<b>4,18</b>

### 983GP



**Orig. Gedore - Art. 685X**

Product description as Art. 983GA

Polygonal head screw DIN 65254. 1/4" connection.

For screws with XZN polygon	M.	5	6	8
Length	mm	25	25	25
<b>983GP</b> Each		<b>2,64</b>	<b>2,64</b>	<b>2,64</b>

### 983GR



**Orig. Gedore - Art. 885X**

Product description as Art. 983GA

Polygonal head screw DIN 65254. 5/16" connection.

For screws with XZN polygon	M.	5	6	8	10	12	14
Length	mm	28	28	28	38	38	38
<b>983GR</b> Each		<b>3,74</b>	<b>3,74</b>	<b>3,74</b>	<b>3,74</b>	<b>3,74</b>	<b>3,74</b>

### 984GA



**Orig. Gedore - Art. 686**

Product description as Art. 983GA

RIBE screws. 1/4" connection.

For RIBE-CV screws	M.	4	5	6	8
Length	mm	33	33	33	33
<b>984GA</b> Each		<b>4,14</b>	<b>4,14</b>	<b>4,14</b>	<b>5,94</b>

### 984GB



**Orig. Gedore - Art. 886**

Product description as Art. 983GA

RIBE screws. 5/16" connection.

For RIBE-CV screws	M.	4	5	6	8	10	12	14
Length	mm	38	38	38	38	38	38	38
<b>984GB</b> Each		<b>4,50</b>	<b>4,64</b>	<b>4,50</b>	<b>5,88</b>	<b>6,22</b>	<b>7,00</b>	<b>7,00</b>

### 984GC



**Orig. Gedore - Art. 687TX**

Product description as Art. 983GA

TORX screws. 1/4" connection.

TORX size	T	6	7	8	9	10	15	20
Length	mm	25	25	25	25	25	25	25
<b>984GC</b> Each		<b>1,36</b>	<b>1,36</b>	<b>1,36</b>	<b>1,36</b>	<b>1,28</b>	<b>1,22</b>	<b>1,22</b>

TORX size	T	25	27	30	40
Length	mm	25	25	25	25
<b>984GC</b> Each		<b>1,22</b>	<b>1,22</b>	<b>1,22</b>	<b>1,22</b>



**Orig. Gedore - Art. 887TX**

Product description as Art. 983GA

TORX screws. 5/16" connection.

TORX size	T	27	30	40	45	50
Length	mm	35	35	35	35	35
<b>984GD</b>	<b>Each</b>	<b>3,42</b>	<b>3,42</b>	<b>3,42</b>	<b>3,42</b>	<b>3,82</b>

**GEDORE**

**984GD**



**Orig. Gedore - Art. 688 TX**

Product description as Art. 983GA

TORX screws with hole. 1/4" connection.

TORX size	T	10	15	20	25	27	30	40
Length	mm	25	25	25	25	25	25	25
<b>984GE</b>	<b>Each</b>	<b>2,22</b>	<b>2,22</b>	<b>2,22</b>	<b>2,22</b>	<b>2,22</b>	<b>2,22</b>	<b>2,22</b>

**GEDORE**

**984GE**



**3**

**SOCKET REDUCERS FOR INSERT BITS**

**Orig. Gedore**

Burnished. GEDORE-SONDERSTAHL.

Size		1	2	3	4	5	6
Square drive	inches	1/4	3/8	3/8	1/2	1/2	1/4
Inserts drive	inches	1/4	1/4	5/16	1/4	5/16	5/16
Overall length	mm	25	30	30	35	35	25
Supplier code		620	630	830	619	819	820
<b>984GF</b>	<b>Each</b>	<b>26,20</b>	<b>35,90</b>	<b>35,80</b>	<b>37,50</b>	<b>38,80</b>	<b>35,20</b>

**GEDORE**

**984GF**



**MAGNETIC ADAPTORS FOR BITS**

**Orig. Carolus - Art. 6015.13**

In special steel. Chrome-plated finish.

Magnetic type for hexagonal connection 5/16" insert bits and male hexagonal connection 13mm

Ideal for use with ratchet wrenches Art. 879 Gx13 - 879 GEx13 - 879 GSx13.

Length mm 30.

<b>984GFA</b>	<b>Each</b>	<b>7,00</b>
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Magnetic adaptors for 1/4" hexagonal connection insert bits and male hexagonal connection 8mm, see Art. 947GB.

**carolus**

**984GFA**



**SCREWDRIVER BIT MAGNETIC HANDLES**

**Prod. SCU**

Short type.

In special steel.

Fixed type. hexagonal connection for 1/4" insert bits.

Bicomponent, non-slipping handle.

Total length 125mm.

<b>984GH</b>	<b>Each</b>	<b>8,66</b>
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**SCU**

**984GH**



**Orig. Carolus - Art. 4125.00**

Made from special steel. Fixed model.

With 1/4 inch hexagon inserts. Dual-component, non-slip handle.

Total length 210 mm.

<b>984GHE</b>	<b>Each</b>	<b>9,64</b>
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For similar handles with 1/4" square male connection see Art. 946 GSE.

**carolus**

**984GHE**



**Orig. Gedore**

In CHROME-VANADIUM steel.

Fixed type. hexagonal connection for 1/4" insert bits.

Chrome-plated finish.

Unbreakable plastic handles with hooking hole. Total length 210mm.

For inserts drive	inches	1/4	5/16
Supplier code		670	870

<b>984GL</b>	<b>Each</b>	<b>31,10</b>	<b>34,30</b>
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**GEDORE**

**984GL**



**Orig. Gedore - Art. 169 kompl.**

With 7 assorted insert bits in the handle.

In special steel. Fixed type. Chrome-plated finish.

Hexagonal connection for 1/4" insert bits. Total length 220mm.

Complete with the following bits:

4 Art. 983 GA 4-5.5-6.5-8

2 Art. 983 GC Size 1-2

2 Art. 983 GF Size 1 - 2

<b>984GM</b>	<b>Each</b>	<b>41,50</b>
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**GEDORE**

**984GM**



**984GR**

**WITTE**  
Werkzeuge


1/4"

**Orig. Witte - Art. 53091**

Fixed type.

Made from CHROME-VANADIUM steel. Chrome finish.

With hexagonal drive for 1/4" inserts. Total length 270mm.

Triangular non-slip anatomical grip, made using a combination of hard and soft plastic. With hole for hanging.

<b>984GR</b>	Each	<b>10,40</b>
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**984GR 1**

**WITTE**  
Werkzeuge


1/4"

**Orig. Witte - Art. 63091**

Product description as Art. 984GR

Triangular non-slip anatomical grip, made using a combination of hard and soft plastic, with the addition of a patented non-slip granular surface structure, also suitable for use with wet and oily hands. With hole for hanging.

<b>984GR 1</b>	Each	<b>13,50</b>
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**BIT HOLDER GRIPS****984GR 2**

**WITTE**  
Werkzeuge


1/4"

**Orig. Witte - Art. 53086**

Flexible type. With retaining ring attachment.

Made from EXTRA CHROME-VANADIUM steel.

With hexagonal drive for 1/4" inserts. Total length 320mm.

Triangular non-slip anatomical grip, made using a combination of hard and soft plastic. With hole for hanging.

<b>984GR 2</b>	Each	<b>25,20</b>
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**984GR 3**

**WITTE**  
Werkzeuge


1/4"

**Orig. Witte - Art. 63086**

Product description as Art. 984GR 2

Triangular non-slip anatomical grip, made using a combination of hard and soft plastic, with the addition of a patented non-slip granular surface structure, also suitable for use with wet and oily hands. With hole for hanging.

<b>984GR 3</b>	Each	<b>26,10</b>
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**SCREWDRIVER BIT MAGNETIC HANDLES****984GS 2**

**WITTE**  
Werkzeuge


1/4"

**Orig. Witte - Art. 26054**

Product description as Art. 984GS 1

Complete with PH cross recess bits Gr. 1 (1 pc) – Gr 2 (2 pcs) art. 1992 GR, PZD Gr. 1 (1 pc) - Gr. 2 (2 pcs) art. 1992 GS

<b>984GS 2</b>	Each	<b>42,90</b>
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Product running out of stock.

**984GS 3**

**WITTE**  
Werkzeuge


1/4"

**Orig. Witte - Art. 26055**

Product description as Art. 984GS 1

Complete with TORX T. bits 10 - 15 - 20 - 25 - 30 - 40 Art. 1991 GN.

<b>984GS 3</b>	Each	<b>42,40</b>
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Product running out of stock.

**SCREWDRIVER "T" BITS WITH MAGNETIC HANDLE**

**Orig. Witte-Serie Protop - Art. 82620**

Fixed type.

In special steel. Chrome-plated finish. Hexagonal connection for 1/4" inserts.

Blade length 150mm. Anti-slip "T" handle obtained by combining soft and rigid plastic materials.

**984GS 4** Each **13,10**



**SCREWDRIVER BIT MAGNETIC HANDLES**

**Prod. SCU**

Ratchet type for right/left and fixed use.

In special steel. hexagonal connection for 1/4" insert bits. Total length 195mm.

Unbreakable plastic handle. With hooking hole.

**984GS 5** Each **17,80**



**Orig. Witte - Art. 26043**

Ratchet type for right/left and fixed use with 6 assorted insert bits in the handle.

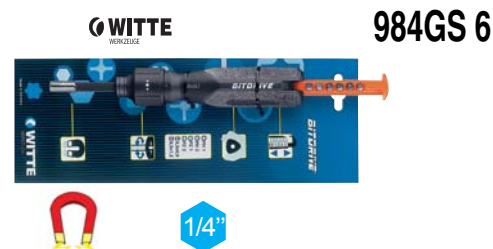
In CHROME-VANADIUM steel. Hexagonal connection for 1/4" insert bits.

Total length 220mm. Black plastic triangular anatomic handle, with anti-slip surface structure.

Complete with PH cross recess bits Gr. 1-2 art.1991 GB, PZD Gr. 1-2 art.1991 GC, slotted 5.5-6.5mm art. 1991 GA

**984GS 6** Each **72,30**

Product running out of stock.



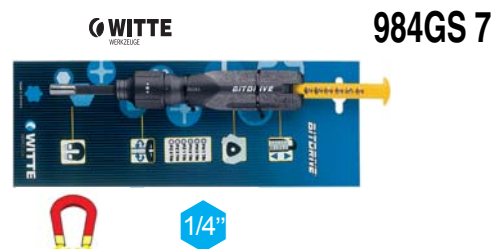
**Orig. Witte - Art. 26044**

Product description as Art. 984GS 6

Complete with PH cross recess bits Gr. 1 (1 pc) – Gr 2 (2 pcs) art. 1992 GR, PZD Gr. 1 (1 pc) - Gr. 2 (2 pcs) art. 1992 GS.

**984GS 7** Each **83,70**

Product running out of stock.



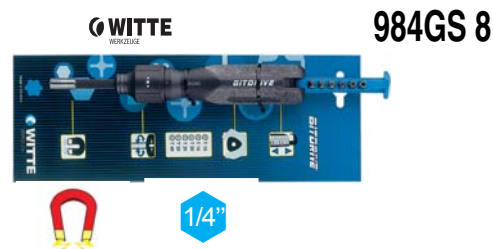
**Orig. Witte - Art. 26045**

Product description as Art. 984GS 6

Complete with TORX T. bits 10 - 15 - 20 - 25 - 30 - 40 Art. 1991 GN.

**984GS 8** Each **83,50**

Product running out of stock.



**Prod. SCU**

Articulated type with ABS handle for upright and 90° inclined use. Ratchet

movement for RIGHT/LEFT use. Hexagonal drive for 1/4" bits and square male adapter for 1/4 sockets.

Total length: 195mm.

**984GV** Each **21,10**



**Orig. Schröder - Art. 1.191.4**

With 6 assorted insert bits in practical box. Articulated handle in sturdy synthetic material, for upright and inclined use, hole for lever mounting. Ratchet movement for RIGHT+LEFT and fixed use. Hexagonal connection for 1/4 insert bits. Total length 220mm.

Complete with the following bits:

1 slotted 6.5mm

3 PH cross recess bits Gr.1 – 2 - 3

2 PZD cross recess bits Gr.1 - 2

**984GZA** Each **27,30**



## ASSORTED BITS

984GZA 4 

1/4"

**Orig. Carolus - Art. 3000.01**

1/4 assortment connection, with practical tape and a magnetic attachment.

Contents 31 tools.

Comprises:

3 slotted bits 4.5x0.6 - 5.5x1.0 - 6.5x1.2mm

2 cross-slotted bits PH 1

2 cross-slotted bits PH 2

1 cross-slotted bit PH 3

2 cross-slotted bit PZ 1

3 cross-slotted bits PZ 2

1 cross-slotted bit PZ 3

1 hex bit 3mm

2 hex bits 4mm

1 hex bit 5mm

2 TORX bits size T 10 - 15 - 20 - 25 - 30 - 40

1 magnetic coupling with ring nut for quick change of 1/4" drive bits

Complete set.

984GZA 4 Each 30,10

## ASSORTMENTS OF BITS WITH HANDLE

984GZB 1 

1/4"

**Orig. Carolus - Art. 4003.80**

Assortment of bits and sockets, 1/4" drive, supplied in handy case, with Maximus® XXL telescopic magnetic handle Art. 984 GZB 1. Case with tool-shape design in high-quality soft material with "dual-colour" system to rapidly check the content.

The set is composed of 35 tools.

Composition:

1 Maximus® XXL magnetic handle Art. 984 GZB 1

5 hex sockets Art. 946 GA 5 - 6 - 8 - 9 - 10mm

5 TORX sockets Art. 946 GM E 5 - 6 - 7 - 8 - 10

5 flat-tipped bits 4.5 - 5.5 - 6 - 6.5 - 8mm

3 cross-tipped bits PH Size 1 - 2 - 3

3 cross-tipped bits PZD Size 1 - 2 - 3

5 hex bits 3 - 4 - 5 - 6 - 8mm

6 TORX bits with hole T 10 - 15 - 20 - 25 - 27 - 30

1 socket adapter with 1/4" square drive

1 magnet (magnetic force 700g)

Complete assortment.

984GZB 1 Each 113,00

Product running out of stock.

984GZC 

1/4"

**Orig. Schröder - Art. 1.192.4**

Set of bits, 1/4" drive, supplied in handy case, with articulated magnetic handle, ratchet mechanism for clockwise, counter-clockwise and fixed operation.

28-tools set.

Each set contains:

1 x articulated magnetic handle, ratchet type

6 x 3 - 4.5 - 5.5 - 6 - 6.5 - 8mm flat-tip bits

3 x cross-tip bits PH Size 1 - 2 - 3

3 c cross-tip bits PZD Size 1 - 2 - 3

6 x 2 - 2.5 - 3 - 4 - 5 - 6mm external bits

9 x external TORX bits T. 8 - 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40

1 x socket adapter, 1/4" square drive

Complete assortment.

984GZC Each 88,90

**RATCHETS FOR INSERT BITS**

**Orig. Carolus - Gedore**

Made from special steel. Female hex drive ratchet for bits, with lever change for right and left movement. Ergonomic bi-component handle, fine toothed.

Inserts drive	inches	1/4	5/16
Overall length	mm	120	127
Supplier code		4177.26	871
<b>984GZF</b>	Each	<b>31,60</b>	<b>90,10</b>

When stocks are depleted, we will provide the Art. 984 GZF 5/16 with black/blue handles.



**984GZF**

**Orig. Schröder - Art. 1.100.9-200**

Sturdy sheet steel type. Ratchet, 25° inclined head, magnetic female hex drive for 1/4" bits, with lever for RIGHT+LEFT movement. Soft plastic handle, fine toothed. Total length: 115mm.

<b>984GZR</b>	Each	<b>20,80</b>
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**984GZR**

**Prod. SCU**

Angular type in sturdy synthetic material. Ratchet, magnetic female hex drive for bits, with ring nut for RIGHT+LEFT movement and additional disk for rapid approach.

Total length: 145mm.

Equipped with the following bits located in the handle:

- 1 x double blade bit, 4.5/6mm
- 2 x double Phillips bits PH Gr. 0/3 - 1/2
- 2 x double TORX bits, T 10/15 - 20/25.

<b>984GZT</b>	Each	<b>14,10</b>
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Product running out of stock.



**984GZT**

Made from CHROME-VANADIUM steel. Ratchet in combination with 1/4 inch hexagonal socket, with accessory fittings on one side and 1/4 inch male square driver sockets for the other side. With lever change for clockwise and counter-clockwise movement.

Rubber bi-component handle. Total length 220mm.

<b>984L</b>	Each	<b>28,50</b>
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**984L**

**RATCHET WRENCHES FOR BITS**

**Orig. Gedore - Art. 471**

Made from CHROME-VANADIUM steel.

Double hexagon head model with 1/4 inch female ratchet driver for use on one side, and a lever which is able to provide D+S movement on the other. Chrome finish. Finely toothed.

Total length 90 mm.

<b>985</b>	Each	<b>32,50</b>
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Product running out of stock.



**985**

**GRIPPERS FOR BITS**

**Orig. Gedore - Art. 635**

Practical tweezers made from steel with plastic coated jaws which are able to grab hold of any type of objects. Particularly useful for operators who have wet or oily hands as this can help prevent finger injuries caused by the object profiles or objects which are positioned in locations with difficult access.

Total length 70 mm.

<b>985E</b>	Each	<b>5,96</b>
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**985E**

## TOOL SETS

985G 3

SCU



## Prod. SCU

Assortment of multi-purpose tools for tool holder cabinets, trolleys and cases.  
Particularly useful for car repair shops.

Comprising: 69 tools.

17 fixed combination wrenches Art. 879 size 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22mm

3 flat-tip screwdrivers Art. 1970 GE sizes 100-125-150mm

1 flat-tip screwdriver Art. 1970 GA size 75mm

2 PH cross-slotted screwdrivers Art. 1970 GP Gr. 1 - 2

1 universal pliers Art. 320 G 180mm

1 adjustable pliers Art. 365 GE 240

1 cutter Art. 569 size 160mm

1 hammer Art. 2702 F 300g

6 tools including chisels, drift, pin punch, punch, cross cut chisel Art. 2928 GA

1 metal scraper Art. 2912 G 200mm

1 steel wire brush Art. 1845 B

1 spark plug spanner Art. 917 N 21

1 phase-detecting screwdriver Art. 1907 GA

20 thickness gauge blades 0.05 ÷ 1 complete set Art. 3992 GC

5 Allen head wrenches Art. 914 size 3 - 4 - 5 - 6 - 8mm

6 fine mechanical files, set Art. 2338

1 flat file, length 150mm Art. 2340 G 6 1/2D

Complete set.

985G 3 Each 201,10

Compositions are indicative and not binding.

985G 5

SCU



Assortment of multi-purpose tools for tool holder cabinets, trolleys and cases.  
Particularly useful for car repair shops.

Comprising: 75 tools.

26 fixed combination wrenches Art. 879

size 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-32mm

16 hex sockets Art. 971 RM size 10-11-12-13-14-15-16-17-18-19-21-22-24-27-30-32mm

1 ratchet lever Art. 971 RS

1 extension 250mm Art. 971 RE

1 sliding lever Art. 971 RF

3 flat-tip screwdrivers Art. 1970 GE size 100-125-150mm

1 flat-tip screwdriver Art. 1970 GA size 75mm

2 PH cross-slotted screwdrivers Art. 1970 GP Gr. 1 - 2

1 universal pliers Art. 320 G size 180mm

1 adjustable pliers Art. 365 GE 240

1 cutter Art. 569 size 160mm

1 hammer Art. 2702 F 500g

6 tools including chisels, drift, pin punch, punch, cross cut chisel Art. 2928 GA

1 metal scraper Art. 2912 G size 200mm

1 steel wire brush Art. 1845 B

1 phase-detecting screwdriver Art. 1907 GA

5 Allen head wrenches Art. 914 size 3-4-5-6-8mm

6 fine mechanical files, set Art. 2338

Complete set.

985G 5 Each 423,22

Compositions are indicative and not binding.

**985G 6**



**Orig. Carolus-Gedore-Witte-Prod. SCU**

Assortment of multi-purpose tools for tool holder cabinets, trolleys and cases.  
Particularly useful for car repair shops.

The set contains: 100 tools.

21 combination wrenches Art. 874 GR 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-24-27-30-32mm

24 tools in box Art. 971 GE: hexagonal sockets 10-11-12-13-14-15-16-17-18-19-21-22-24-27-28-30-32mm

1 socket reduction for insert bits, 1/2" square connection, 5/16" hexagonal connection

1 cardan joint 65mm

1 sliding lever 250mm

1 extension 75mm

1 extension 125mm

1 extension 250mm

1 ratchet with lever change, rapid release, 280mm

11 hexagonal wrenches Art. 914 1.5-2-2.5-3-4-5-5.5-6-7-8-10mm

1 Grip pliers Art. 422 G 250mm

1 adjustable wrench Art. 818 Gx200

6 chisels, cross cut chisel, punch, drift, pin punch Art. 2928 GA

6 pin punches Art. 2928 GL 3-4-5-6-7-8mm

1 adjustable pliers Art. 367 G 250mm

1 universal pliers Art. 342 G 180mm

1 cutter Art. 573 GB 160mm

1 pliers for rings Art. 274 GA 180mm

1 pliers for rings Art. 275 GA 170mm

1 pliers for rings Art. 276 GA 175mm

1 pliers for rings Art. 277 GA 165mm

1 half-round nose pliers Art. 251 GB 160mm

6 screwdrivers in box Art. 1948 GL: flat tip screwdriver 75x4mm

flat tip screwdriver 100x5.5mm, flat tip screwdriver 125x6.5mm

flat tip screwdriver 150x8mm, cross tip screwdriver PH 1,

cross tip screwdriver PH 2

1 scissors Art. 656 B

1 shears Art. 672 300mm

1 hacksaw Art. 2612

2 hacksaw blades Art. 9565 GB

6 files in series Art. 2349 G 8 inches

1 brush for universal use Art. 1844 A

1 brush for spark plugs Art. 1845 T

1 oiler Art. 3415 B 300g

1 hammer Art. 2702 F 500g

1 mallet Art. 2785 G 35mm

Complete assortment.

**985G 6**

Each

**877,86**

Compositions are indicative and not binding.



**3**

**Orig. Gedore - Art. S 1050**

Product description as Art. 985G 6

The set contains: 25 tools.

7 combination wrenches 8 10 12 13 14 17 19mm

8 magento wrenches 4 4.5 5 5.5 6 6.5 7 7.5mm

1 adjustable pliers 250mm

1 insulated universal pliers 180mm

1 spark plug spanner

1 knife

3 flat-tip screwdrivers 4 5.5 6.5mm

1 cross-tip screwdriver PH 2

1 hammer 300g

1 phase-detecting screwdriver

Complete assortment.

**985G 8**

Each

**284,00**

Compositions are indicative and not binding.



**985G 8**



## 985G 9


**Orig. Gedore - Art. S 1150**

Product description as Art. 985G 6

The set contains: 41 tools.

9 combination wrenches 8 10 11 13 14 15 17 19 22mm

13 hexagonal sockets 6 7 8 9 10 11 12 13 14 15 17 19 22mm

1 spark plug socket 20.8mm

1 ratchets per dette, 3/8" connection

3 extensions 75 125 250mm

1 cardan joint

6 Allen head wrenches 3 4 5 6 8 10mm

1 flat chisel 125mm

1 insulated universal pliers 180mm

1 adjustable pliers 250mm

2 slotted screwdrivers 150x5.5 150x8mm

1 cross tip screwdriver PH Gr. 2

1 hammer 300g

Complete assortment.

<b>985G 9</b>	Each	<b>619,00</b>
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Compositions are indicative and not binding.

## 985G 10


**Orig. Gedore - Art. S 1151**

Product description as Art. 985G 6

The set contains: 65 tools.

2 tyre levers 400mm

1 Gedore Grip pliers 250mm

1 adjustable pliers 250mm

5 levers, extensions and ratchet, 1/2" connection

1 cardan joint

1 universal pliers 180mm

3 screwdrivers, plastic hand-grip 100x4-150x6.5-175x8mm

1 cross tip screwdriver, plastic hand-grip 100mm - Size 2

1 circuit tester screwdriver

1 multiple wrench 220mm

7 bi-hexagonal wrenches 8 to 22mm

8 hexagonal wrenches 6 to 22mm

13 hexagonal sockets 10 to 32mm

1 spark plug socket 20.8mm

1 chisel

1 punch

1 drift

1 hammer 500g

6 Allen head wrenches 2.5 3 4 5 6 8mm

8 magneto wrenches 4 4.5 5 5.5 6 6.5 7 7.5mm

1 cutter 150mm

Complete assortment.

<b>985G 10</b>	Each	<b>883,00</b>
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Compositions are indicative and not binding.



**985G 14**

**Orig. Gedore - Art. S 1004**

Product description as Art. 985G 6

The set contains: 80 tools.

16 combination wrenches 8 9 10 11 12 13 14 15 16 17 18 19 21 22 23 24mm

19 hexagonal sockets 10 to 32mm, 1/2" connection

5 levers, extensions, joints, 1/2" connection

8 Allen head wrenches 2 2.5 3 4 5 6 8 10mm

1 adjustable pliers 250mm

1 pipe wrench 1.1/2" inches

3 flat-tip screwdrivers 100x4-150x6.5-175x8mm

2 cross-tip screwdrivers PH 2-3

1 flat-tip screwdriver, shortened pattern, 5.5mm

1 cross-tip screwdriver, shortened pattern PH 2

7 chisels, cross cut chisel, punch, drift, pin punch

4 assorted files with handle, 8 inches

1 universal pliers 180mm

1 cutter 160mm

1 half-round nose pliers 160mm

1 toggle joint shears

1 adjustable wrench 200mm

1 hammer 500g

1 hacksaw with blade

1 knife for electricians

1 magnetic screw holder

1 scraper with triangular blade

1 puller

1 lever with head bent to 90°

Complete assortment.

**985G 14**

 Each **1.480,00**

Compositions are indicative and not binding.


**3**
**Orig. Gedore - Art. S 1400 G**

Product description as Art. 985G 6

The set contains: 100 tools.

8 bi-hexagonal wrenches 8x9mm to 24x27mm

10 hexagonal wrenches 6mm to 32mm

19 hexagonal sockets 10mm to 32mm, 1/2" connection

6 single-ended, hexagonal wrenches, plastic hand-grip 5.5-6-7-8-9-10mm

8 Allen head wrenches 3-4-5-6-8-10-12-14mm

1 Crescent-type wrench 200mm

1 Grip pliers 250mm

1 adjustable pliers 250mm

1 adjustable pliers 175mm

1 mallet with nylon ends Ø 40mm

2 cross tip screwdrivers, plastic hand-grip 100mm Size 2 and 150mm Size 3

6 assorted chisels and drift

1 compass saw 365mm with one blade for metals and one for wood

1 metal hacksaw frame

1 triangular scraper for bushing blade: 150mm

1 universal pliers 180mm

1 cutter 165mm

1 hammer 500g

1 shears for sheet steel 230mm

3 assorted files 150mm

2 screwdrivers, plastic handle 100x4-125x5.5mm

3 screwdrivers, plastic handle 125x6.5-150x8-175x10mm

6 files in series

5 levers, extensions, joints

Complete assortment.

**985G 16**

 Each **1.580,00**

Compositions are indicative and not binding.


**985G 16**


**985G 18** 

**Orig. Gedore - Art. S 1400 Z**

Product description as Art. 985G 6

The set contains: 33 tools..

- 1 cross wrench, opening mm.17-19-21-11/16"
  - 2 wheel wrenches 24x27-30x32mm
  - 1 pin for above mentioned Ø 18mm
  - 1 circuit tester
  - 2 tyre levers 500mm
  - 1 spark plug spanner 20.8mm
  - 1 spark plug spanner 16mm
  - 2 extensions 62.5 and 75mm
  - 1 piston ring 60/125mm
  - 1 valve lifter pliers 290mm
  - 1 brake spring pliers
  - 1 magnetic screwholder
  - 1 thickness gauge with 13 blades 0.05 to 1mm
  - 2 screwdrivers, shortened pattern
  - 1 multiple wrench
  - 1 strap wrenches for oil filters
  - 8 magneto wrenches 4 4.5 5 5.5 6 6.5 7 7.5mm
  - 1 file for contacts 150mm
  - 4 internal bi-hex type sockets, long pattern 6-8-10-12mm, 1/2" connection
- Complete assortment.

**985G 18** Each **784,00**

Compositions are indicative and not binding.

**985G 20** 

**Orig. Gedore-Orig. Witte-Prod. SCU**

Product description as Art. 985G 6

The set contains: 116 tools.

- 25 combination wrenches Art. 874 GD 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 30 32mm
  - 12 wrenches Art. 870 G 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32mm
  - 25 tools in box Art. 968 G: sockets 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32mm, brace lever, length 410mm, ratchets con quadro, length 270mm, slipping lever, length 290mm extension, length 125mm, extension, length 250mm, cardan joint
  - 10 hexagonal wrenches Art. 914 G 2 2.5 3 4 5 6 7 8 9 10mm
  - 1 Grip pliers Art. 422 Gx250
  - 1 adjustable wrench Art. 819 G 200mm
  - 6 chisels, cross cut chisel, punch, drift, pin pinch Art. 2937 GB
  - 6 pin punch 3 4 5 6 7 8mm Art. 2937 GE
  - 1 adjustable pliers Art. 365 G
  - 1 universal pliers Art. 342 G 180mm
  - 1 cutter Art. 573 GB 160mm
  - 1 pliers for rings Art. 274 GA 180mm
  - 1 pliers for rings Art. 275 GA 170mm
  - 1 pliers for rings Art. 276 GA 175mm
  - 1 pliers for rings Art. 277 GA 165mm
  - 1 half-round nose pliers Art. 251 GB 160mm
  - 6 screwdrivers in box Art. 1948 GL: flat tip screwdriver 75x4mm, flat tip screwdriver 100x5.5mm, flat tip screwdriver 125x6.5mm, flat tip screwdriver 150x8mm, cross tip screwdriver PH 1, cross tip screwdriver PH 2
  - 1 scissors Art. 656 B
  - 1 shears Art. 672 300mm
  - 1 hacksaw Art. 2612
  - 2 hacksaw blades Art. 9565 GB
  - 6 files in series Art. 2349 G 8 inches
  - 1 brush for universal use Art. 1844 A
  - 1 brush for spark plugs Art.1845 T
  - 1 oiler Art. 3415 B 300g
  - 1 hammer Art. 2705 GA 500g
  - 1 mallet Art. 2785 G 35mm
- Complete assortment.

**985G 20** Each **1.709,46**

Compositions are indicative and not binding.


**Orig. Gedore - Art. S 1009 M**

Product description as Art. 985G 6

The set contains: 136 tools.

- 20 combined wrenches 8 9 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 30 32mm
  - 3 half moon ring spanners 11x13 14x17 19x22mm
  - 18 tools in box, 1/4" connection: hexagonal sockets 4-5-5.5-6-7-8-9-10-11-12-13mm, flexible extension 120mm, ratchets 127mm, articulated bar 150mm, lever with sliding connection 115mm, fixed extension 100mm, cardan joint, socket holder, plastic hand-grip
  - 14 hexagonal sockets 10 11 12 13 14 15 16 17 19 22 24 27 30 32mm, 1/2" connection
  - 5 levers, extensions, joints, 1/2" connection
  - 9 Allen head wrenches, short pattern, 5 6 7 8 9 10 12 14 17mm, 1/2" connection
  - 5 internal hex type sockets, long pattern, 5 6 7 8 10mm, 1/2" connection
  - 9 TORX sockets T. 20 25 27 30 40 45 50 55 60, 1/2" connection
  - 3 internal bi-hex type sockets, long pattern, 8-10-12mm, 1/2" connection
  - 3 spark plug sockets 16 18 20.8mm, 3/8" connection
  - 1 articulated ratchet, 3/8" connection
  - 8 Allen head wrenches 2 2.5 3 4 5 6 8 10mm
  - 1 adjustable pliers 250mm
  - 5 screwdrivers, plastic hand-grip, slotted blade, 80x3 100x4 125x5.5 150x6.5 175x8mm
  - 2 screwdrivers, wooden handle, slotted blade, 100x5.5 150x8mm
  - 2 screwdrivers, plastic hand-grip, cross tip PH 1 2
  - 1 screwdriver, plastic hand-grip, insulated blade, slotted, 100x4mm
  - 2 screwdrivers, shortened, slotted blade, 5.5-6.5mm
  - 1 screwdriver, shortened, crossed blade PH 2
  - 8 chisels, punch, drift, pin punch
  - 1 universal pliers 180mm
  - 1 cutter 180mm
  - 1 pliers for internal rings 180mm
  - 1 pliers for external rings 175mm
  - 1 hammer 300g
  - 1 plastic mallet 40mm
  - 1 brush for universal use
  - 1 brush for spark plugs
  - 1 scraper with triangular blade
  - 1 file with handle
  - 1 scriber
  - 1 screwdriver for spark plugs
  - 1 flexometer 3m
  - 1 8-blade thickness gauge
  - 2 tyre levers 400mm
- Complete assortment.

985G 24	Each	2.170,00
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Compositions are indicative and not binding.  
Product running out of stock.


3
POUCHES WITH TOOLS
**Prod. SCU**

Tool set for electricians, maintenance workers, repair workers, etc.

Comprising: 13 tools

- 1 pouch Art. 2071 ZL
  - 1 universal pliers Art. 330 A 180
  - 1 long-nosed pliers Art. 250 B 160
  - 1 cutter Art. 569 160mm
  - 1 scissors Art. 656 P
  - 1 screwdriver Art. 1970 GA 75
  - 1 screwdriver Art. 1970 GE 100
  - 1 screwdriver Art. 1970 GE 150
  - 1 screwdriver Art. 1970 GP - PH 0
  - 1 screwdriver Art. 1970 GP - PH 1
  - 1 screwdriver Art. 1970 GP - PH 2
  - 1 phase-detector screwdriver Art. 1907 G
  - 1 wire stripper with blade Art. 199 GS
- Complete set.

985GA 13	Each	94,28
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The compositions shown are only an indication.



985GA 13



**985GA 16** 


Tool set for universal usage.

Comprising: 16 tools

- 1 pouch Art. 2071 ZM
- 1 roll wrench Art. 821 150
- 1 universal pliers Art. 330 A 180
- 1 long-nosed pliers Art. 250 B 160
- 1 cutter Art. 569 160mm
- 1 scissors Art. 656 P
- 1 screwdriver Art. 1970 GA 100
- 1 screwdriver Art. 1970 GA 125
- 1 screwdriver Art. 1970 GE 125
- 1 screwdriver Art. 1970 GE 150
- 1 screwdriver Art. 1970 GP - PH 1
- 1 screwdriver Art. 1970 GP - PH 2
- 1 screwdriver Art. 1970 GPZ - PZ 1
- 1 screwdriver Art. 1970 GPZ - PZ 2
- 1 phase-detector screwdriver Art. 1907 GP
- 1 hammer Art. 2702 F 300

Complete set.

**985GA 16** Each **105,20**

The compositions shown are only an indication.

**RUCKSACKS WITH TOOLS**
**985GA 25** 


Prod. SCU

Tool set for universal usage.

Comprising: 25 tools

- 1 rucksack Art. 2071 ZV
- 9 fixed combination wrenches Art. 879 6-7-8-10-13-17-19-22-24mm
- 1 universal pliers Art. 320 G 180
- 1 long-nosed pliers Art. 250 B 160
- 1 cutter Art. 569 160mm
- 1 scissors Art. 656 P
- 1 screwdriver Art. 1970 GA 100
- 1 screwdriver Art. 1970 GA 125
- 1 screwdriver Art. 1970 GE 125
- 1 screwdriver Art. 1970 GE 150
- 1 screwdriver Art. 1970 GP - PH 1
- 1 screwdriver Art. 1970 GP - PH 2
- 1 screwdriver Art. 1970 GPZ - PZ 1
- 1 screwdriver Art. 1970 GPZ - PZ 2
- 1 phase-detector screwdriver Art. 1907 G
- 1 hammer Art. 2702 F 300
- 1 fleximeter Art. 4141 DA 3

Complete set.

**985GA 25** Each **152,28**

The compositions shown are only an indication.

**TOOL BAGS**
**985GB** 


Orig. Gedore - Art. 1050 M

Assortment of multi-purpose tools.

Wrenches and accessories in CHROME-VANADIUM steel.

The set contains: 26 tools

- 1 sturdy simil leather bag
- 7 combined wrenches 8 10 12 13 14 17 19mm
- 1 spark plug spanner 20,8mm
- 1 universal pliers 180mm
- 1 adjustable pliers 250mm
- 1 knife for electricians
- 1 circuit tester screwdriver
- 8 wrenches for contacts 4 4.5 5 5.5 6 6.5 7 7.5mm
- 1 hammer, german-shaped 300g
- 1 cross-tip screwdriver Size 2
- 3 slotted screwdrivers 4 5.5 6.5mm

Complete assortment.

**985GB** Each **335,00**

Compositions are indicative and not binding.

**Orig. Gedore - Art. 501 M**

Elegant and practical leather bag with zip closure.  
Particularly suitable for cars. Wrenches and accessories in CHROME-VANADIUM steel.  
The set contains: 25 tools

- 1 bag
  - 1 adjustable pliers Art. 362 GE 250mm
  - 2 cross-tip screwdrivers Size 1 and 2
  - 3 slotted screwdrivers 4 5,5 6.5mm
  - 1 insulated universal pliers 160mm
  - 1 slotted screwdriver, insulated blade 3mm
  - 6 combined wrenches 10-11-12-13-17-19mm
  - 1 hammer 200g
  - 1 insulated tape 10m
  - 8 wrenches for contacts 4 4.5 5 5.5 6 6.5 7 7.5mm
  - 1 brass wire brush
- Complete assortment.



**985GE**



**3**

**985GE** Each **398,00**

Compositions are indicative and not binding.

**Prod. SCU**

Tool sets for universal use.  
Comprising: 26 tools  
1 bag Art. 2076 GE  
6 wrenches in series Art. 872 GA, 6x7 8x9 10x11 12x13 x14x15 16x17mm  
7 wrenches in series Art. 914 GL 2 2.5 3 4 5 6 8mm  
1 universal pliers Art. 320 G 180mm  
1 adjustable pliers Art. 365 GE 240  
1 cutter Art. 569 160mm  
1 scissors Art. 656 A  
1 screwdriver Art. 1970 GA 100mm  
1 screwdriver Art. 1970 GE 150mm  
1 screwdriver Art. 1970 GP - PH 1  
1 screwdriver Art. 1970 GP - PH 2  
1 phase-detecting screwdriver Art. 1907 G  
1 hammer Art. 2702 F 200g  
1 knife Art. 5231 G  
1 plastic folding rule Art. 4141  
Complete set.



**985GL**



**985GL** Each **129,04**

Compositions are indicative and not binding.

**Product description as Art. 985GL**

Comprising: 33 tools  
1 bag Art. 2071 ZP  
17 fixed combination wrenches Art. 879 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22mm  
1 universal pliers Art. 320 G 180  
1 long-nosed pliers Art. 250 B 160  
1 adjustable pliers Art. 365 GE 240  
1 cutter Art. 569 160mm  
1 scissors Art. 656 P  
1 screwdriver Art. 1970 GE 75  
1 screwdriver Art. 1970 GE 100  
1 screwdriver Art. 1970 GE 125  
1 screwdriver Art. 1970 GP - PH 0  
1 screwdriver Art. 1970 GP - PH 1  
1 screwdriver Art. 1970 GP - PH 2  
1 hammer Art. 2702 F 500  
1 fleximeter Art. 4141 DA 5  
1 knife Art. 5233 R  
1 pair gloves Art. 3398 R 8  
Complete set.



**985GM**



**985GM** Each **220,66**

The compositions shown are only an indication.

## 985GP

SCU



Product description as Art. 985GL

Comprising: 46 tools

1 bag Art. 2071 ZT

18 fixed combination wrenches Art. 879 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-24mm

9 set of wrenches Art. 914 GC/9 1.5-2-2.5-3-4-5-6-8-10mm

1 universal pliers Art. 320 G 180

1 long-nosed pliers Art. 250 B 160

1 cutter Art. 569 160mm

1 scissors Art. 656 P

1 wire strippers Art. 196

1 adjustable pliers Art. 365 GE 240

1 screwdriver Art. 1970 GA 75

1 screwdriver Art. 1970 GE 100

1 screwdriver Art. 1970 GE 125

1 screwdriver Art. 1970 GE 150

1 screwdriver Art. 1970 GP - PH 0

1 screwdriver Art. 1970 GP - PH 1

1 screwdriver Art. 1970 GP - PH 2

1 screwdriver Art. 1970 GP - PH 3

1 hammer Art. 2702 F 500

1 fleximeter Art. 4141 DA 5

1 knife Art. 5233 R

1 pair gloves Art. 3398 R 8

Complete set.

985GP Each 334,74

The compositions shown are only an indication.

## TOOL BAGS FOR ASSISTANCE SERVICE

## 986G 6

SCU



Prod. SCU

Assortment of tools for universal professional use.

Comprising: 53 tools

1 bag Art. 2077 GD 5

12 wrenches in series Art. 872 GD, 6x7 8x9 10x11

12x13 14x15 16x17 18x19 20x22 21x23 24x27

25x28 30x32mm

9 wrenches in series Art. 914 GC/9 1.5 2 2.5 3 4 5 6

8 10mm

1 universal pliers Art. 332 GE 180mm

1 half-round nose pliers Art. 250 GE 200mm

1 cutter Art. 569 GE 160mm

1 adjustable pliers Art. 365 GE 240

1 scissors Art. 656 A

1 screwdriver Art. 1970 GA 100mm

1 screwdriver Art. 1970 GE 150mm

1 screwdriver Art. 1970 GP - PH 1

1 screwdriver Art. 1970 GP - PH 2

1 phase-detecting screwdriver Art. 1907 GA

986G 6 Each 456,00

1 hammer Art. 2702 F 300g

1 knife Art. 662 G

1 plastic folding rule Art. 4141

1 hacksaw Art. 2642

1 dz. blades Art. 2643 GA

1 knife Art. 5231 G

1 pincers Art. 626 G size 180mm

1 tweezers Art. 146 P size 160mm

1 gimlet Art. 4540 G 5mm

1 drift Art. 2998 G

6 files, set Art. 2349 G 8 inches

1 pair gloves Art. 3398 A

1 rasp Art. 2442 8 1/2"D.

1 handle Art. 2448x120

1 chisel Art. 2935 GA 250mm

1 oiler Art. 3407 P

Complete set.

Compositions are indicative and not binding.

## TOOL BAGS FOR INSTALLERS

## 986G 8

SCU



Prod. SCU

Assortment of tools for installers and plumbers.

Comprising: 40 tools

1 leather bag Art. 2075 S

1 pipe cutter Art. 1063 G 1.1/4" inches

1 pipe cutter Art. 1055 GA 32mm

1 pipe cutter Art. 1052 A 15mm

1 pipe turner Art. 1036 Gx1 1.1/4" inches

1 pipe wrench Art. 1002 G 225mm

12 wrenches in series Art. 872 GD, 6x7 8x9 10x11

12x13 14x15 16x17 18x19 20x22 21x23 24x27

25x28 30x32mm

1 universal pliers Art. 320 G 200mm

1 cutter Art. 569 160mm

1 adjustable pliers Art. 365 GE 240

1 half-round nose pliers Art. 250 B 200mm

1 wrench Art. 371 E

1 screwdriver Art. 1970 GE 100mm

1 screwdriver Art. 1970 GE 150mm

1 screwdriver Art. 1970 GE 200mm

1 screwdriver Art. 1928 GP - PH 1

1 screwdriver Art. 1970 GP - PH 2

1 scissors Art. 656 A

1 knife Art. 662

1 level Art. 4179 A 400mm

1 plastic folding rule Art. 4141

1 pincers Art. 630 E 220mm

1 hacksaw Art. 2608

1 handle for blades Art. 2615 A

2 blades Art. 9565 GB

1 hammer Art. 2702 F 300g

1 chisel Art. 2935 GA 250mm

1 chisel Art. 2927 GL 250mm

1 shears Art. 672 G 250mm

Complete set.

986G 8 Each 552,06

Compositions are indicative and not binding.

**TOOL CASES FOR UNIVERSAL USE**

**Orig. Gedore - Art. 1000**

Assortment of multi-purpose tools in elegant polypropylene case resistant to shocks, oils, acids, hard long-lasting finish. CHROME-VANADIUM wrenches and screwdrivers. Chrome-plated finish. Dimensions 420x320x115mm.

The set contains: 47 tools

- 1 Orig. Gedore case
- 1 hammer 300g
- 11 combination wrenches 6 7 8 10 11 12 13 14 15 17 19mm
- 3 flat-tip screwdriver 4 5.5 6.5mm
- 1 insulated flat-tip screwdriver 3mm
- 2 cross-tip screwdrivers Gr. 1 and 2
- 1 circuit tester screwdriver
- 1 ratchets with 1/2" bar
- 9 hexagonal wrenches 10 11 12 13 14 15 17 19 22mm
- 1 spark plug socket 20.8mm
- 2 extensions 125-250mm
- 1 joint
- 1 sliding square drive
- 1 adjustable pliers 250mm
- 1 universal pliers 180mm
- 1 side cutter 160mm
- 8 Allen head wrenches 2 2.5 3 4 5 6 8 10mm
- 1 knife for electricians
- 1 container for small accessories

Complete assortment.

**986GE** Each **796,00**

Compositions are indicative and not binding.



**986GE**



**3**

**TOOL CASES FOR TECHNICIANS AND ASSISTANCE SERVICE**

**Prod. SCU**

Assortment of high-quality tools Orig. Gedore, Witte, Marvel, Frowein and SCU. For professional use in electronics and maintenance.

Comprising: 63 tools

- 1 case Art. 2078 GH 8
- 1 tester Art. 4482 GA
- 1 pump Art. 3268 Z
- 1 screwdriver Art. 1912 GA 60A
- 1 screwdriver Art. 1912 GA 100
- 1 screwdriver Art. 1912 GB 00
- 1 screwdriver Art. 1912 GB 0
- 1 screwdriver Art. 1900 G 1
- 1 screwdriver Art. 1900 G 1.5
- 1 screwdriver Art. 1921 GAx75
- 1 screwdriver Art. 1921 GAx100B
- 1 screwdriver Art. 1921 GBx1
- 1 screwdriver Art. 1921 GBx2
- 1 phase-detecting screwdriver Art. 1907 GL
- 1 screw holder Art. 1882 GP
- 1 screwdriver Art. 1876 GP 125
- 1 mirror Art. 1882 GS
- 1 tweezers Art. 135 GP
- 1 tweezers Art. 136 GB
- 1 pliers Art. 110 C
- 1 pliers Art. 110 E 130
- 1 pliers Art. 110 L
- 1 pliers Art. 250 Bx160
- 1 cutter Art. 560 A
- 1 cutter Art. 560 C
- 1 scissors Art. 656 B
- 1 wire stripper Art. 195 GD
- 1 pliers Art. 205 G
- 1 pliers Art. 367 GT 175
- 1 hacksaw holder Art. 2615 A
- 1 hammer Art. 2703 G 200
- 1 welder Art. 3258 Ax2
- 1 tin spool Art. 3361 GBx1.5
- 1 fleximeter Art. 4141 BAx2
- 1 knife Art. 662 B
- 1 wrench Art. 899 GL 4
- 1 wrench Art. 899 GL 5
- 1 wrench Art. 899 GL 5.5
- 1 wrench Art. 899 GL 6
- 1 wrench Art. 899 GL 7
- 1 set of 6 files Art. 2306 G 140
- 1 wrench Art. 822 150
- 1 set of 7 wrenches Art. 914 GD 7
- 1 wrench Art. 862 G 4
- 1 wrench Art. 862 G 5
- 1 cable cutter Art. 613
- 1 shears Art. 666
- 1 wrench Art. 870 GR 6x7
- 1 wrench Art. 870 GR 8x9
- 1 wrench Art. 870 GR 10x11
- 1 wrench Art. 870 GR 12x13
- 1 wrench Art. 870 GR 14x15
- 1 wrench Art. 870 GR 16x17

Complete set.

**986GE 3** Each **803,64**

Compositions are indicative and not binding.



**986GE 3**



**TOOL CASES FOR ELECTRICIANS AND ASSISTANCE SERVICE**
**986GE 6** 
**Orig. Gedore - Art. 1090**

Assortment of tools for professional use. For electricians and maintenance and assistance service. ABS sturdy case with aluminium frame, steel hinges and guides. Ergonomic handle, snap-lock, wrench and combination. CHROME-VANADIUM screwdrivers and wrenches. Chrome-plated finish. Dimensions 470x380x190mm.

The set contains 90 tools:

- 1 Orig. Gedore case
- 16 tools in case Art. 941 G
- 12 wrenches Art. 862 G 4 4.5 5 5.5 6 7 8 9 10 11 12 13mm
- 4 wrenches Art. 870 G 14x17 18x19 21x23 22x24mm
- 9 wrenches Art. 914 G 2 2.5 3 4 5 6 7 8 10mm
- 4 VDE insulated screwdrivers, flat-tip 3.5 4 5.5 6.5mm
- 2 VDE insulated screwdrivers, cross-tip PH 1 and 2
- 2 screwdrivers, shortened, 5.5mm and PH 1
- 2 screwdrivers, cross-tip PZD 1 and 2
- 3 lever screwdrivers 5.5 8mm and PH 1+2
- 1 universal insulated pliers 180mm
- 1 VDE insulated cutter 200mm
- 1 VDE insulated half-round nose pliers 160mm
- 1 VDE insulated wire stripping pliers
- 1 VDE insulated pliers, flat noses 160mm
- 1 adjustable pliers 250mm
- 1 adjustable wrench 250mm
- 1 insulated scissors
- 1 knife for electricians
- 1 hacksaw
- 10 hacksaw blades
- 1 drift
- 1 flexometer 3m
- 1 scriber
- 1 phase-detecting screwdriver
- 1 hammer 100g
- 1 hammer 300g
- 3 chisels 175-200-200mm (double cutting edge)
- 2 punches 2mm and 4mm
- 1 automatic drift
- 1 saldatore + 3 accessories.

Complete assortment.

**986GE 6** Each **1.530,00**

Compositions are indicative and not binding.


**BOXES AND TRUNKS WITH TOOLS**
**987**

**Prod. SCU**

Tool sets for universal use.

- 35 tools in polypropylene box Art. 2084 N:
- 9 wrenches in series Art. 914 GC/9 1.5 2 2.5 3 4 5 6 8 10mm
- 8 wrenches in series Art. 872 GB 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22mm
- 1 universal pliers Art. 330 A 180mm
- 1 half-round nose pliers Art. 250 B 160mm
- 1 cutter Art. 569 160mm
- 1 adjustable pliers Art. 365 GE 240
- 1 scissors Art. 656 A
- 1 screwdriver Art. 1970 GA 75mm
- 1 screwdriver Art. 1970 GA 100mm
- 1 screwdriver Art. 1970 GE 150mm
- 1 screwdriver Art. 1970 GP - PH 0
- 1 screwdriver Art. 1970 GP - PH 1
- 1 screwdriver Art. 1907 G
- 1 hammer Art. 2702 F 200g
- 1 knife Art. 662
- 1 plastic folding rule Art. 4141
- 1 hacksaw Art. 2642
- 1 tweezers Art. 146 P 160mm
- 1 pincers Art. 626 G 180mm
- 1 pair of gloves Art. 3398 R 8

Complete set.

**987** Each **172,96**

Compositions are indicative and not binding.





Product description as Art. 987

- 35 tools in steel box Art. 2079 P:
- 9 wrenches in series Art. 914 GC/9 1.5 2 2.5 3 4 5 6 8 10mm
- 8 wrenches in series Art. 872 GB 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22mm
- 1 universal pliers Art. 330 A 180mm
- 1 half-round nose pliers Art. 250 B 160mm
- 1 cutter Art. 569 160mm
- 1 adjustable pliers Art. 365 GE 240
- 1 scissors Art. 656 A
- 1 screwdriver Art. 1970 GA 75mm
- 1 screwdriver Art. 1970 GA 100mm
- 1 screwdriver Art. 1970 GE 150mm
- 1 screwdriver Art. 1970 GP - PH 0
- 1 screwdriver Art. 1970 GP - PH 1
- 1 phase-detecting screwdriver Art. 1907 G
- 1 hammer Art. 2702 F 200g
- 1 knife Art. 662
- 1 plastic folding rule Art. 4141
- 1 hacksaw Art. 2642
- 1 tweezers Art. 146 P 160mm
- 1 pincers Art. 626 G 180mm
- 1 pair of gloves Art. 3398 R 8
- Complete set.

**987A** Each **200,16**

Compositions are indicative and not binding.


**987A**

**3**

Tool sets for professional/universal use and assistance service.

- 53 tools in polypropylene case Art. 2085 S:
- 12 wrenches in series Art. 872 GD, 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32mm
- 9 wrenches in series Art. 914 GC/9 1.5 2 2.5 3 4 5 6 8 10mm
- 1 universal pliers Art. 332 GE 180mm
- 1 half-round nose pliers Art. 250 GE 200mm
- 1 cutter Art. 569 GE 160mm
- 1 adjustable pliers Art. 365 GE 240
- 1 scissors Art. 656 A
- 1 screwdriver Art. 1970 GA 100mm
- 1 screwdriver Art. 1970 GE 150mm
- 1 screwdriver Art. 1970 GP - PH 1
- 1 screwdriver Art. 1970 GP - PH 2
- 1 phase-detecting screwdriver Art. 1907 GA
- 1 hammer Art. 2702 F 300g
- 1 knife Art. 662 G
- 1 plastic folding rule Art. 4141
- 1 hacksaw Art. 2642
- 1 dz. blades Art. 2643 GA
- 1 knife Art. 5231 G
- 1 pincers Art. 626 G size 180mm
- 1 tweezers Art. 146 P size 160mm
- 1 gimlet Art. 4540 G 5mm
- 1 drift Art. 2998 G
- 6 files, set Art. 2349 G 8 inches
- 1 pair gloves Art. 3398 R 8
- 1 rasp Art. 2442 8 1/2"D.
- 1 handle Art. 2448x120
- 1 chisel Art. 2935 GA 250mm
- 1 oiler Art. 3407 P
- 1 shears Art. 672 Gx200
- Complete set.

**987A 5** Each **371,34**

Compositions are indicative and not binding.


**987A 5**


## 987B



Product description as Art. 987A 5  
 53 tools in steel box Art. 2081 B:  
 12 wrenches in series Art. 872 GD, 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32mm  
 9 wrenches in series Art. 914 GC/9 1.5 2 2.5 3 4 5 6 8 10mm  
 1 universal pliers Art. 332 GE 180mm  
 1 half-round nose pliers Art. 250 GE 200mm  
 1 cutter Art. 569 GE 160mm  
 1 adjustable pliers Art. 365 GE 240  
 1 scissors Art. 656 A  
 1 screwdriver Art. 1970 GA 100mm  
 1 screwdriver Art. 1970 GE 150mm  
 1 screwdriver Art. 1970 GP - PH 1  
 1 screwdriver Art. 1970 GP - PH 2  
 1 phase-detecting screwdriver Art. 1907 GA  
 1 hammer Art. 2702 F 300g  
 1 knife Art. 662 G  
 1 plastic folding rule Art. 4141  
 1 hacksaw Art. 2642  
 1 dz. blades Art. 2643 GA  
 1 knife Art. 5231 G  
 1 pincers Art. 626 G size 180mm  
 1 tweezers Art. 146 P size 160mm  
 1 gimlet Art. 4540 G 5mm  
 1 drift Art. 2998 G  
 6 files, set Art. 2349 G 8 inches  
 1 pair gloves Art. 3398 R 8  
 1 rasp Art. 2442 8 1/2"D.  
 1 handle Art. 2448x120  
 1 chisel Art. 2935 GA 250mm  
 1 oiler Art. 3407 P  
 1 shears Art. 672 Gx200  
 Complete set.

**987B** Each **407,64**

Compositions are indicative and not binding.

## 987D



**Orig. Gedore - Art. 1263-1151 M**

Orig. Gedore all-purpose set of assorted tools in steel case, high-resistant epoxy paint coating, 3 stalls and compartments.

Empty box Art. 987E + assorted set Art. 985G/10 65 pieces, weight Kg. 15,8

Dimensions mm 420x225xh160

**987D** Each **1.066,00**

## 987E



**Orig. Gedore - Art. 1263 L**

Product description as Art. 987D

Empty box, weight kg.4,6

Dimensions mm 420x225xh160

**987E** Each **183,00**

## 987G



**Orig. Gedore - Art. 1265-1151 M**

Orig. Gedore all-purpose set of assorted tools in steel case, high-resistant epoxy paint coating, 5 stalls and compartments.

Empty box Art. 987 GF + assorted set Art. 985G/10 65 pieces, weight kg. 17,3

Dimensions mm 420x225xh210

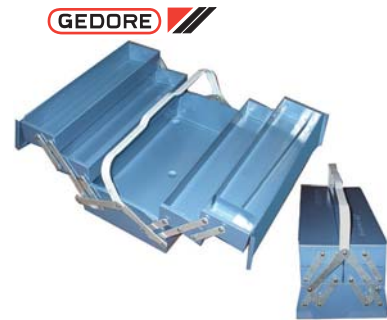
**987G** Each **1.083,00**

**Orig. Gedore - Art. 1265 L**

Product description as Art. 987G

Empty box, weight kg. 6

Dimensions	mm	420x225xh210
<b>987GF</b>	Each	<b>200,00</b>



**987GF**

**3**

**TOOL SETS FOR TRACTORS AND OPERATIVE MACHINES**

**Orig. Gedore - Art. 1420-1002 M**

Large assortment of tools in sturdy one-floor metal case with cover, 3 drawers and safety lock.

High-resistant epoxy paint coating.

The set contains: 79 tools.

- 1 metal case Art. 988 GA
- 22 combination wrenches Art. 874 G 6mm to 32mm
- 15 hexagonal sockets 10m to 32m, 1/2" connection
- 8 Allen head wrenches 914 G 3 to 14
- 1 1/2" ratchets
- 1 sliding lever Art. 970 RH
- 1 tipped socket Art. 969 RD 12mm
- 1 adjustable pliers Art. 367 G 250mm
- 2 tyre levers 928 G 500mm
- 1 scraper
- 1 hacksaw frame
- 1 oblique cutter 165mm
- 1 pliers for retaining rings, straight tips
- 1 pliers for retaining rings, curved tips
- 1 joint Art. 970 RI
- 1 extension Art. 970 RFx125
- 1 extension Art. 970 RFx250
- 1 GRIP pliers Art. 422 G 250mm
- 3 pin punches Ø 3-4-5mm
- 1 cross cut chisel 5mm
- 1 drift Ø mm 4
- 3 punches Ø 5-6-8mm
- 1 chisel 16mm
- 1 series of thickness gauges
- 1 universal pliers 180mm
- 2 hammers 500 and 1000
- 4 screwdrivers, wooden handle, 100x5.5-125x7-150x9-200x12mm
- 1 cross tip screwdriver, wooden handle 100mm Gr. 2
- 1 circuit tester

Complete assortment.

Dimensions	mm	610x265xh298
<b>988G</b>	Each	<b>2.130,00</b>



**988G**  
**988GA**

**Orig. Gedore**

Product description as Art. 988G

Empty metal box only.

Dimensions	mm	610x265xh298
<b>988GA</b>	Each	<b>727,00</b>

**TOOL PANELS**

**Orig. Metec**

Steady type to be mounted on workbenches Art. 994 GC 1 - 5 - 8 - 10 or any other Metec original workbench. Sturdy steel, high-resistant epoxy paint coating, drilled for use with hooks Art. 995 GT, complete with 2 uprights and equipment for installation.

Empty panel without tools and hooks.

Overall length	mm	<b>1482</b>	<b>1976</b>
Height	mm	494	494
Weight	Kg	11	13
Supplier code		71050+82430	71060+82430
<b>988GR</b>	Each	<b>405,00</b>	<b>449,00</b>

Products running out of stock.



**988GR**

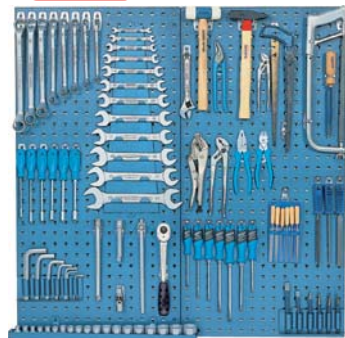
**WALL DISPLAY UNITS**
**989G**

**Orig. Gedore - Art. 1450-1151 M**

Sturdy steel display unit, high-resistant epoxy paint coating, drilled for hooks Art. 995 GT. Bent edges. Steel plate thickness: 1.5mm.  
1 empty panel Art. 989 GL + assorted set 985 G/10 65 pcs.

<b>989G</b>	Each	<b>1.217,00</b>
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**989GB**

**Orig. Gedore - Art. 1450-1400 GM**

Product description as Art. 989G  
2 empty panels Art. 989 GL + assorted set 985 G/16 92 pcs.

<b>989GB</b>	Each	<b>2.248,00</b>
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**989GL**

**Orig. Gedore - Art. 1450 LH**

Product description as Art. 989G  
Empty panel without tools, 5.5 Kg. Complete with bracket and hooks.

Dimensions	mm	1000x500
<b>989GL</b>	Each	<b>334,00</b>

**TOOL CABINETS**
**989GP**

**Orig. Metec - Art. 58320**

Sturdy steel display unit, high-resistant epoxy paint coating. 2 doors with door lock closing system. 2 mobile shelves.

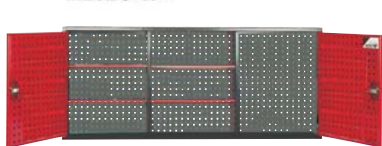
Back wall drilled for hooks Art. 995 GT.

Empty cabinet, without tools, weight 26kg.

Dimensions	mm	1000x750hx200
<b>989GP</b>	Each	<b>462,00</b>

For tool assortments see Art. 985 G/3 to 985 G/14.  
Product running out of stock.

**989GR**

**Orig. Metec - Art. 58100**

Sturdy steel cabinet, high-resistant epoxy paint coating. 2 doors with door lock closing system and one open compartment. 4 mobile shelves.

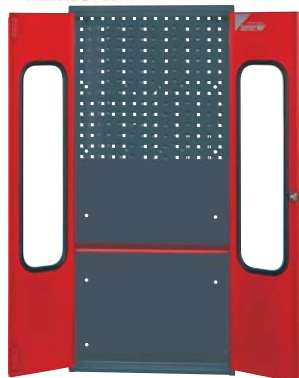
Back wall, door interiors drilled for hooks Art. 995 GT.

Empty cabinet, without tools, weight kg. 8

Dimensions	mm	1400x600hx200
<b>989GR</b>	Each	<b>535,00</b>

For assorted sets of tools see Art. 985 G/3 to 985 G/14  
Product running out of stock.

**989GT**

**Orig. Metec - Art. 58220**

Sturdy steel cabinet, high-resistant epoxy paint coating. 2 doors with transparent windows for internal view, door lock closing system and one mobile shelf.

Back wall drilled for hooks Art. 995GT.

Empty cabinet, without tools, weight kg. 10

Dimensions	mm	500x1100hx200
<b>989GT</b>	Each	<b>814,00</b>

For assorted sets of tools see Art. 985 G/3-5-8-10.  
Product running out of stock.

**LARGE CABINETS WITH TOOLS.**

**Orig. Gedore - Art. 1400 GM**

Sturdy steel cabinet, high-resistant epoxy paint coating, with door lock closing system. Fixed hooks for tools. With 3 drawers.

.Cabinet size:

Width when closed mm 650

Width when open mm 1170

Height mm 970

Depth mm 250

Empty cabinet Art. 992 GA + assorted set Art. 985 G/16 - 92 pieces - weight kg. 46.

**991G** Each **3.150,00**



**991G**



**3**

**Orig. Gedore - Art. 1400 GZM**

Product description as Art. 991G

Empty cabinet Art. 992 GA + assorted set Art. 985 G/18 - 125 pieces - weight kg. 57.

**992G** Each **3.934,00**



**992G  
992GA**



**Orig. Gedore - Art. 1400 L**

Product description as Art. 991G

Empty cabinet, weight kg. 29.

**992GA** Each **1.570,00**

**Orig. Gedore - Art. 1402 L**

Sturdy steel cabinet, high-resistant epoxy paint coating, with door lock closing system.

Back wall and doors drilled for hooks Art. 995 GT.

With 3 drawers and built-in foldaway working table.

Suitable for confined areas.

Table size mm 570x840x850h. Max. load capacity kg. 200.

Cabinet size:

Width when closed mm 650

Width when open mm 1170

Height mm 970

Depth mm 325.

Empty cabinet, without hooks, weight kg. 35.

**992GE** Each **1.420,00**



**992GE**



For assorted sets of tools see Art. 985 G 16 - 985 G 18.  
Product running out of stock.

**CABINETS FOR WORKBENCH OR WALL WITH TOOLS**

**Orig. Gedore**

Sturdy steel cabinet, high-resistant epoxy paint coating, with rolling gate and door lock closing system. Back wall drilled for hooks Art. 995 GT.

Empty cabinet Art. 994 GA + assorted set Art. 985 G/16, 92 pieces and assorted set of hooks. Weight kg. 73.

Dimensions mm 1810x890hx170

**993GZ** Each **4.300,00**



**993GZ**



Suitable to be used with workbench Art. 994 GL.

Product description as Art. 993GZ

Empty cabinet Art. 994 GA + assorted set Art. 985 G/16 + 985 G/18, 125 pieces and assorted set of hooks. Weight kg. 83.

Dimensions mm 1810x890hx170

**994G** Each **5.084,00**



**994G  
994GA**



**Orig. Gedore - Art. R 1500 LH**

Product description as Art. 993GZ

Empty cabinet weight kg. 59 with assorted set of hooks.

Dimensions mm 1810x890hx170

**994GA** Each **2.720,00**

Suitable to be used with workbench Art. 994 GL.

**FOLDAWAY WORKBENCHES.**
**994GBR** 

**Prod. SCU**

Sturdy, foldable workbench, which is large, stable, and can be carried and stored easily. Top section made from laminated wood including a 30 mm thick frame, and a metal bracket.

Length	mm	<b>1000</b>	<b>1200</b>
Height for width	mm	700 x 820	700 x 820
Weight	Kg	35	38
<b>994GBR</b>	<b>Each</b>	<b>371,00</b>	<b>417,00</b>

3

**WORKBENCHES.**
**994GC 5** 

**Orig. Metec - Art. 30810/84522**

Heavy-duty and solid workbenches modular system. Extra strong epoxy painted U plate brackets. Unbendable stratified wooden work-tops, height mm 840. Delivered disassembled for easy handling. One workbench. Size mm 1500x700. 1 suitable bracket. 1 drawer unit with 2 closed compartments and 1 drawer height mm 90. Door lock closing system. Weight kg. 78.

**994GC 5** Each **911,00**

Product running out of stock.

**994GC 8** 

**Orig. Metec - Art. 30830/84522**

Product description as Art. 994GC 5. One workbench. Size mm 1500x700. 1 suitable bracket. 1 drawer unit with 1 closed compartment and 3 drawers height mm 45/90/135. Door lock closing system. Weight kg. 88.

**994GC 8** Each **1.210,00**

Product running out of stock.

**994GC 10** 

**Orig. Metec - Art. 30870/84622**

Product description as Art. 994GC 5. One workbench. Size mm 2000x700. 1 drawer unit with 7 drawers height mm 45(1)/90(5)/180(1). 1 drawer unit with 2 closed compartments and 1 drawer height mm 90. Door lock closing system. Weight kg. 135.

**994GC 10** Each **2.000,00**

Product running out of stock.

**994GE** 

**Orig. Metec - Art. 23140/84522**

Steel framed epoxy painted heavy-duty workbenches. Unbendable multilayered wooden work-tops, total height 840mm. One workbench. Size mm 1500x700. 1 drawer unit with 3 drawers height 180mm each. 1 large closed compartment. Door lock closing system. Weight 87kg.

**994GE** Each **1.050,00**

Product running out of stock.

**Orig. Metec - Art. 23270/84622**

Product description as Art. 994GE  
 One workbench. Size mm 2000x700.  
 1 drawer unit with 3 drawers height 180mm each.  
 2 large closed compartments.  
 Door lock closing system.  
 Weight 114kg.

**994GF** Each **1.480,00**

Product running out of stock.



**994GF**



**Orig. Gedore - Art. B 1500L**

Steel framed epoxy painted heavy-duty workbenches.  
 Unbendable multilayered wooden work-tops, height mm 900.  
 One workbench. Size mm 2000x875.  
 1 drawer unit with 5 drawers height 79(3) /160(1)/180(1).  
 One large compartment with a dividing shelf. Door lock and rolling gate closing systems.  
 Weight kg. 157.

**994GL** Each **3.680,00**

Suitable to be used with cabinets Art. 993 GZ - 994 G - 994 GA.



**994GL**

**3**



**GEDORE DISPLAY UNIT.**

**Orig. Gedore - Art. 10000E**

Heavy-duty steel section frame. Punched plate panels, extra strong epoxy painting. Strong mixed hooks mm 170 long, easy to mount.  
 mobile RESOPAL work-tops. Strip lightning products to choose among the Gedore Group brands.

Display unit with no tools with 120 hooks and 2 uprights. Weight kg 79.

Height	mm	2200
Width	mm	1010
Depth	mm	500

**995GP** Each **on request**

Loose hooks see Art. 995 GS.



**995GP**



**ACCESSORIES FOR PANELS-CABINETS-DISPLAY UNITS AND TOOL TROLLEYS**

**Orig. Gedore**

Plate tool-rests with holes.  
 Suitable for set of wrenches 8 pieces.

**995GR 1** Each **21,30**



**995GR 1**



Product description as Art. 995GR 1  
 Suitable for set of wrenches 12 pieces.

**995GR 2** Each **22,20**

For sets of plastic wrench keeper springs see Art. 872 GT 8-12.



**995GR 2**



**995GR 5**



Trays with holes for bushes.

<b>995GR 5</b>	Each	<b>24,20</b>
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**995GR 7**



3/8"

Spring rests for bushes.  
Suitable for 14 bushes with connection 3/8".

<b>995GR 7</b>	Each	<b>5,34</b>
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**995GR 8**



1/2"

Product description as Art. 995GR 7  
Suitable for 14 bushes with connection 1/2".

<b>995GR 8</b>	Each	<b>6,44</b>
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**995GR 10**

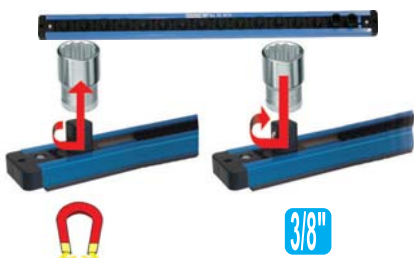


1/4"

MAGNETIC RESTS FOR BUSHES.  
Suitable for 13 sockets ??? with 1/4" drive ???.  
Supplied with 2 female square drive adapter for use with ratchets, sliding bars, extensions, etc.

<b>995GR 10</b>	Each	<b>44,10</b>
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**995GR 15**



3/8"

Product description as Art. 995GR 10  
Suitable for 14 sockets ??? with 3/8" drive ???.  
Supplied with 2 female square drive adapter for use with ratchets, sliding bars, extensions, etc.

<b>995GR 15</b>	Each	<b>47,10</b>
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**995GR 20**



1/2"

Product description as Art. 995GR 10  
Suitable for 16 sockets ??? with 1/2" drive ???.  
Supplied with 2 female square drive adapter for use with ratchets, sliding bars, extensions, etc.

<b>995GR 20</b>	Each	<b>52,30</b>
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**995GS**



HOOKS WITH SCREW AND NUT FASTENING. STRAIGHT, FOR DISPLAY UNITS ART. 995 GP.

Size	0000	00	0	1	2	4	5
Made from steel.	Bright	Bright	Bright	Bright	Bright	Ric.PVC	Ric.PVC
Dimensions	mm 4x70	4x100	7x100	4x170	7x170	4x170	7x170
<b>995GS</b>	Each	<b>2,06</b>	<b>2,28</b>	<b>2,70</b>	<b>2,42</b>	<b>3,08</b>	<b>3,72</b>

Product running out of stock.

**995GT**



Fixed hooks. Chromium-plated.  
For bored sheet metal with square bores size 9x33 and 10x38mm.

Size	1	2	3	4	5	
Type of grip	Straight hook	Curved hook	small spring	Big spring	Threaded hook M6 with nut	
Ø	mm 4	4	13	20-35	-	
Length	mm 55	55	31	44	-	
<b>995GT</b>	Each	<b>3,20</b>	<b>3,20</b>	<b>4,80</b>	<b>6,54</b>	<b>3,20</b>
Size	6	7	8	9	10	
Type of grip	Straight hook	Straight hook	Curved hook	Curved hook	Oblique hook	
Ø	mm 6	6	6	6	6	
Length	mm 100	150	75	135	100	
<b>995GT</b>	Each	<b>3,04</b>	<b>3,20</b>	<b>3,20</b>	<b>3,34</b>	<b>3,20</b>



Special hooks with screw and nut.

Size		1	2	3	4	5
Type of grip		Round bottomhole	Round bottomhole	Round bottomhole	Closed rectang.	Closed rectang.
Length x Ø	mm	176x14-40	176x19-40	181x28-50	175x24	175x33
<b>995GZ</b>	<b>Each</b>	<b>8,78</b>	<b>9,00</b>	<b>9,00</b>	<b>9,00</b>	<b>9,00</b>
Size		6	7	8	9	
Type of grip		Open rectang.	Open rectang.	Open rectang.	A metal strap x pipe wrench	
Length x Ø	mm	170x21	170x28	170x33	183	
<b>995GZ</b>	<b>Each</b>	<b>7,86</b>	<b>7,86</b>	<b>7,86</b>	<b>13,50</b>	

Product running out of stock.

**GEDORE**

**995GZ**



**3**

**BATTERY CABLES IN PAIRS**

**Prod. SCU**

Standard type.

Copper cable coated with insulating plastic. For battery connection.

Cable section 10 sqmm. Cable length 2m. Complete with four 200 A terminal clamps.

**996B** Per pair **15,10**

**SCU**

**996B**



Professional type.

Copper cable coated with insulated and solvent-proof plastic. For high-power batteries connection.

Cable section 16 mmq. Wire's length 3.5m. With 4 150 A terminal clamps.

**996C** Per pair **93,20**

**SCU**

**996C**



**LUGS FOR BATTERIES.**

**Prod. SCU**

Carrying lugs for batteries.

. Safe fastening through double locking.

For batteries Volt.12-24

For batteries and no. 6 elements.

**996L** Each **10,30**

**SCU**

**996L**



**BATTERY CHECK DEVICES.**

**Prod. SCU**

For testing battery charge, with pole testing device and integrated resistance.

For checking the voltage of 6-12 Volt batteries, with disconnected resistance.

With indicator light when resistance is connected.

Suitable for mono-cover batteries.

**996P** Each **236,00**

**SCU**

**996P**



**Orig. Gedore - Art. 622**

Battery check device for 6 to 12 Volt batteries, 50 to 100 Amp.

Suitable also for terminals at irregular distance.

Analogue reading.

**997G** Each **387,00**

Product running out of stock.

**GEDORE**

**997G**



**997GA**
**SCU**

**Prod. SCU**

Digital model which can monitor the status and battery level of 12 Volt batteries used in cars and commercial vehicles.

Allows you to check the percentage level reductions in battery efficiency both quickly and easily, to set the time, and to predict the remaining service life of any replacement items.

For battery capacity: SAE (200 to 1200 ccA), DIN (110 to 670 ccA), IEC (130 to 790 ccA), EN (185 to 1125 ccA), CA (240 to 1440 ccA).

Operating temperature from 0° to 50° C.  
4 digit digital display.

Dimensions mm: 120x70x20.

Complete with 2 terminals.

**997GA** Each **176,00**

Product running out of stock.

**BATTERY SERVICE KIT**
**997GF**
**GEDORE**

**Orig. Gedore - Art. 610**

Metal box with set of tools and accessories for batteries of any kind and brand.

The box contains:

- 1 wrench mm 10x13
  - 1 adjustable pair of pliers 367 G x 250
  - 1 screwdriver with plastic hand-grip mm. 150
  - 1 brush to clean the poles
  - 1 cell-filler
  - 1 acidity-test device
  - 1 terminal extractor
  - 1 terminal cleaner
  - 1 carrying lug for batteries
  - 1 friction tape roll
  - 1 knife for electricians
  - a two-liter plastic container
  - 2 plastic containers
- Complete box.

**997GF** Each **347,00**

For battery chargers see Art. 4482 A - 4482 B.

Product running out of stock.

**DENSIMETERS**
**997GH**
**SCU**

**Prod. SCU**

Densimeters for checking battery liquid density. Reliable and easy to use.

Length 200 mm.

**997GH** Each **4,76**

**997GL**
**GEDORE**

**Orig. Gedore - Art. 605**

Densimeters for checking battery liquid density.

Length 310mm.

**997GL** Each **23,70**

Product running out of stock.

**997GM**
**SCU**

**Prod. SCU**

Densimeters for checking battery liquid density.

Professional type, highest measuring accuracy.

Made of corrosion-proofing unbreakable synthetic material.

Size approx. 125x100 mm.

**997GM** Each **15,10**

**997GO**
**SCU**


Densimeters for antifreeze. Reliable and easy to use.

Length 200 mm.

**997GO** Each **4,76**

Densimeters for checking antifreeze density.  
Professional type, highest measuring accuracy.  
Made of corrosion-proofing unbreakable synthetic material.  
Size approx. 125x100 mm

**997GP** Each **15,10**



**997GP**

**CELL-FILLERS**

**Orig. Gedore - Art. 604**

Rubber ball cell-filler.  
Length 180 mm.

**997GR** Each **9,70**



**997GR**

**3**

Product running out of stock.

**NUMBERED MAGNETIZED TRIANGLES**

**Prod. SCU**

Set of 24 folding, colored, numbered triangles, made of unbendable plastic, with permanent magnet. For prompt identification of cars under repair or of whatever other object to be quickly identified.

With drilled steel plate panel, wall-mountable, size 1000x500mm, with numbering to ensure easy and tidy storage of triangles after use and 24 hooks for keys.

**997Z** Each **660,00**



**997Z**



Product running out of stock.

**TOOLS BOXES**

**Orig. Gedore - Art. 1430**

Made of sturdy steel plate, with extra-resistant epoxy paint finish.  
With 3 drawers sliding on balls, stop wedge and individual closing.  
Central locking with padlock. Rubber coated work top and edges. Fitted with handles for easy transportation. Particularly suited as a addition to stand on the work tops of trolleys Art. 998 G/4 - 998 GB - 998 GC - 998 GS - 998 GS/7 - 998 GS/8.

Weight kg. 26. Drawer unit without trolley and tools.

Dimensions mm 625x400xh290  
**998G** Each **806,00**



**998G**

**Orig. Gedore - Art. 1431**

Made of sturdy steel plate, with extra-resistant epoxy paint finish.  
With 2 drawers sliding on balls (one with large capacity), stop wedge and individual closing.  
Central locking with padlock. Rubber coated work top and edges. Fitted with handles for easy transportation. Particularly suited as a addition to stand on the work tops of trolleys Art. 998 G/4 - 998 GB - 998 GC - 998 GS - 998 GS/7 - 998 GS/8.

Weight kg.23. Drawer unit without trolley and tools.

Dimensions mm 625x400xh290  
**998G 2** Each **718,00**



**998G 2**

**COMBINATED TOOLS TROLLEYS**

**Orig. Gedore - Art. 1432**

Functional, sturdy combination of trolley with drawers and pull-out panel, drilled for tool hanging.  
Made of sturdy sheet steel, with extra-resistant epoxy paint finish. Central locking with padlock.  
On 4 wheels, of which 2 are castor wheels. One wheel with brake. Rubber shockproof edging.  
Hooks for drilled panel, see Art. 995 GT. Particularly suited for use in combination with drawer units Art. 998 G and 998 G/2.

Without tools and hooks.

Shelf length mm 625  
Shelf width mm 400  
Overall height with panel mm 1060  
Weight Kg 28  
**998G 4** Each **895,00**



**998G 4**

## COMBINED TOOLS TROLLEYS

998G 5


**Orig. Gedore - Art. TANTO 3000**

Large capacity type with drilled side for the additional hanging of tools and accessories. Strong epoxy painted steel plate. Drawers may be pulled out from one side; with stop wedge. Single closing. With carrying lugs for easy handling in narrow space. Work-top with compartments for small parts. On 4 wheels, 2 of large diameter for a better running and 2 pivoting one of which with brake. Central closing for one single padlock.

Seven-drawer type, size mm 480x351. Max. load capacity over kg. 400 in a steady position. Without tools.

Shelf length	mm	585
Shelf width	mm	485
Overall height	mm	920
Weight	Kg	67

<b>998G 5</b>	Each	<b>1.170,00</b>
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Product running out of stock.

External container mm330x230x100 h.

<b>O998G 6</b>	Each	<b>102,00</b>
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Product running out of stock.

Support paper roll.

<b>O998G 7</b>	Each	<b>9,04</b>
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For tool-holding hooks see Art. 995 GS - 995 GT.

Product running out of stock.

## TOOL TROLLEYS

998G 8A  
new

**Orig. Carolus - Art. 2046.10**

Stable and sturdy trolleys made of steel, with resistant epoxy paint coating. 2 fixed wheels of large diameter and 2 pivoting wheels of which 1 with brake. Metal drawers, with sound-absorbing non-slip mats on the bottom. Telescopic guides, with a capacity of 25 kg per drawer. Steady worktop covered in ABS. Central locking with cylinder lock. Side walls with holes for hanging other tools (see. hooks Art. 995 GT and 995 GZ).

table length 628 mm, table width 418 mm total height 910 mm. Maximum capacity 210 Kg.

With 6 drawers, dimensions 482x345 mm. With carrying handle. Without tools.

For modules with tools see Art. 998 G 9F to 998 G 9Z.

Weight Kg 48.

<b>998G 8A</b>	Each	<b>749,00</b>
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In the drawers of the trolley 998 G 8A you can also insert the original Gedore modules Art. 1000 G1 to 1000 G 34.

## MODULS WITH TOOLS FOR TROLLEYS ART. 998 G 8A - 28

998G 9F




1/4"

**Orig. Carolus - Art. 2020.85**

In unbreakable ABS material. Suitable for top-quality dressing of tower-trolley drawers. Before placing an order, compare module and spacer dimensions with drawer dimensions.

SINGLE MODULE

Module width x depth 157.5x310mm.

Content: 37 pcs, module excluded:

12 x Art. 946 GA 4-4.5-5-5.5-6-7-8-9-10-11-12-13mm

7 x Art. 946 GL T 10-15-20-25-27-30-40

6 x Art. 946 GH 3-4-5-6-8-10mm

2 x Art. 946 GC 5.5-6.5mm

3 x Art. 946 GE PH 1-2-3

2 x Art. 946 GF PZ 1-2

1 x Art. 946 GT

1 x Art. 947 GR

1 x Art. 946 GP

1 x Art. 946 GS

1 x Art. 946 GR.

<b>998G 9F</b>	Each	<b>152,00</b>
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998G 9H




1/2"

**Orig. Carolus - Art. 2020.97**

Product description as Art. 998G 9F

SINGLE MODULE

Module width x depth 157.5x310mm.

Content: 5 pcs, module excluded:

1 x Art. 971 RD

1 x Art. 971 RE

1 x Art. 971 RG

1 x Art. 971 RF

1 x Art. 971 RS.

<b>998G 9H</b>	Each	<b>80,60</b>
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**Orig. Carolus - Art. 2020.96**

Product description as Art. 998G 9F

SINGLE MODULE

Module width x depth 157.5x310mm.

Content: 26 pcs, module excluded:

19 x Art. 971 RM 10-11-12-13-14-15-16-17-18-19-21-22-23-24-26-27-28-30-32mm

7 x Art. 971 RQ 6-7-8-9-10-12-14mm.

**998G 9L**

 Each **135,00**

**Orig. Carolus - Art. 2020.710**

Product description as Art. 998G 9F

DOUBLE MODULE

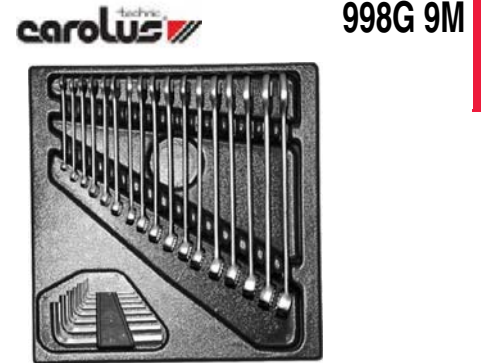
Module width x depth 315x310mm.

Content: 25 pcs, module excluded:

17 x Art. 874 GR 6-7-8-9-10-11-12-13-14-15-16-17-18-19-21-22-24mm

8 x Allen wrenches 2-2.5-3-4-5-6-8-10mm.

**998G 9M**

 Each **118,00**

**Orig. Carolus - Art. 2020.711**

Product description as Art. 998G 9F

DOUBLE MODULE

Module width by depth 315x310mm.

Contains 23 pieces excluding module:

15 pcs. Art. 879 GE 8-9-10-11-12-13-14-15-16-17-18-19-20-21-22mm

Set of 8 Allen wrenches 2-2.5-3-4-5-6-8-10mm.

**998G 9ME**

 Each **286,00**

**Orig. Carolus - Art. 2020.91**

Product description as Art. 998G 9F

SINGLE MODULE

Module width x depth 157.5x310mm.

Content: 8 pcs, module excluded:

8 x Art. 880 GR 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22mm.

**998G 9P**

 Each **63,00**

**Orig. Carolus - Art. 2020.92**

Product description as Art. 998G 9F

SINGLE MODULE

Module width x depth 157.5x310mm.

Content: 8 pcs, module excluded:

8 x Art. 870 GR 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22mm.

**998G 9R**

 Each **37,80**

**Orig. Carolus - Art. 2020.93**

Product description as Art. 998G 9F

SINGLE MODULE

Module width x depth 157.5x310mm.

Content: 4 pcs, module excluded:

1 x Art. 365 GE 240

1 x side cutter 160mm

1 x half-round nose pliers 160mm

1 x universal pliers 180mm.

**998G 9S**

 Each **81,60**


### 998G 9T



**Orig. Carolus - Art. 2020.94**  
 Product description as Art. 998G 9F  
 SINGLE MODULE  
 Module width x depth 157.5x310mm.  
 Content: 7 pcs, module excluded:  
 1 x hammer 300g  
 2 x cut chisels 125 - 150mm  
 1 x cross section chisel 125mm  
 1 x drift, diametro punta mm 3  
 1 x punch, tip diameter 4mm  
 1 x pin punch, tip diameter 4mm.

**998G 9T** Each **42,00**

### 998G 9Z



**Orig. Carolus - Art. 2020.95**  
 Product description as Art. 998G 9F  
 SINGLE MODULE  
 Module width x depth 157.5x310mm.  
 Content: 6 pcs, module excluded:  
 4 x flat blade screwdrivers 4-5.5-6.5-8mm  
 2 x Phillips tip screwdrivers PH 1-2.

**998G 9Z** Each **35,40**

## TOOL TROLLEYS

### 998G 28



**Orig. Metec - Art. 60070**  
 Stable sheet steel trolleys, with resistant epoxy paint finish. 2 extra-large fixed wheels and 2 castors, 1 fitted with brake. Metal drawers. With telescopic guide, capacity 25 kg per drawer. Stable work-top coated with synthetic material and holder for small items. Central locking with cylinder lock. Side walls with holes to hang the relevant container.  
 Work-top length 630mm, work-top width 410mm, total height 930mm.  
 With 7 drawers, dimensions 482x345mm. With carrying lugs. Without tools.  
 For modules with tools see from Art. 998 G 9F to 998 G 9Z.

Weight Kg 49  
**998G 28** Each **822,00**

Product running out of stock.

### 998GA





**Orig. Gedore - Art. 3010 VARIO**  
 FOLDING type for easier positioning in narrow places. With automatic gas-propelled lift. Handy and sturdy combination of mobile bench with tool-holder drawers which may be pulled out from both sides, with stop wedge. Made of high-resistant epoxy painted steel. Openings on both right and left side for a complete view. Central closing in lowered down position. On 4 wheels, 2 of which are pivoting wheels. 1 wheel with brake. Rubber shockproof border edge.  
 With 3 drawers, dimensions 478x325mm, 1 large closed compartment to be used when the trolley is up. Capacity up to 120 Kg when open, 220 Kg when closed.  
 Without tools.

Shelf length mm 625  
 Shelf width mm 400  
 Overall height mm 610/900  
 Weight Kg 42  
**998GA** Each **1.410,00**

### 998GB





**Orig. Gedore - Art. 1570 WKS**  
 Functional and heavy-duty combination of mobile bench with drawers which may be pulled out from both sides. With stop wedge. Made of strong epoxy painted steel. Openings both on the left and on the right side offering a complete inner view. Rolling gate closing system for one single padlock. On 4 wheels 2 of which pivoting and one with brake. Rubber shockproof border edge.  
 Four-drawer type, size mm 478x325. Max. load capacity over kg. 300 in a steady position.  
 Without tools.

Shelf length mm 625  
 Shelf width mm 400  
 Overall height mm 930  
 Weight Kg 38  
**998GB** Each **663,00**

It is possible to combine this item with drawer units Art. 998 G and 998 G/2.  
 Product running out of stock.

**Orig. Gedore - Art. 1580**

Product description as Art. 998GB

Four-drawer strong type, size mm 478x325. Max. load capacity over kg. 300 in a steady position. With carrying lugs. Without tools.

Shelf length	mm	625
Shelf width	mm	400
Overall height	mm	930
Weight	Kg	40

<b>998GC</b>	Each	<b>967,00</b>
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It is possible to combine this item with drawer units Art. 998 G and 998 G/2.


**998GC**

**3**
**Orig. Gedore - Art. 2000**

Product description as Art. 998GB

Enlarged-base type with 5 drawers, size mm 478x325. Max. load capacity over kg. 300 in a steady position. With carrying lugs. Without tools.

Shelf length	mm	625
Shelf width	mm	400
Base width	mm	545
Overall height	mm	930
Weight	Kg	47

<b>998GS</b>	Each	<b>1.020,00</b>
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It is possible to combine this item with drawer units Art. 998 G and 998 G/2.


**998GS**

**Orig. Gedore - Art. 1578**

Functional and heavy-duty combination of mobile bench with drawers which may be pulled out from both sides. With stop wedge. Made of strong epoxy painted steel. Central closing with locks with keys.

On 4 wheels 2 of which pivoting and one with brake. Steady work-top covered with synthetic material and box for small items.

Six-drawer type, size 480x325 mm. Max. load capacity 200kg in steady position. With carrying handle.

Without tools.

Shelf length	mm	605
Shelf width	mm	375
Overall height	mm	930
Weight	Kg	43,5

<b>998GS 6</b>	Each	<b>817,00</b>
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**998GS 6**

**Orig. Gedore - Art. 2500**

Functional and heavy-duty combination of mobile bench with drawers which may be pulled out from one side. With stop wedge and single closing system. Made of strong epoxy painted steel. Central closing system with keys. On 4 wheels 2 of which pivoting and one with brake. Rubber shockproof border edge.

Eight-drawer strong type, size mm 480x330 (7), mm 480x400 (1). Max. load capacity over kg. 300 in a steady position. With handles. Without tools.

Shelf length	mm	625
Shelf width	mm	400
Base width	mm	545
Overall height	mm	960
Weight	Kg	64

<b>998GS 8</b>	Each	<b>1.660,00</b>
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It is possible to combine this item with drawer units Art. 998 G and 998 G/2.


**998GS 8**


**SUPER TOOL TROLLEYS**
**998GS 9** 

**Orig. Gedore - Art. 2002**

Heavy-duty type, with drawers extractable from both sides and stop wedge. Made of high-resistant epoxy painted steel plate. Central closing for one single padlock. A side wall is drilled for tool hanging and one wall has 4 mini extractable compartments for small items, with wicket. 2 pivoting wheels, one with brake and 2 fixed and large-sized for smooth running. Work-top made of soft synthetic material with 3 dividers for small tools. Shock-proof rubber border edges.

Five-drawer type, size 480x356 mm. Max. load capacity over 500 kg. in steady position. With carrying lugs.

Without tools.

Shelf length	mm	775
Shelf width	mm	435
Overall height	mm	985
Weight	Kg	58

**998GS 9** Each **966,00**

Product running out of stock.

**MOBILE WORK BENCHES AND TOOL TROLLEYS**
**999GF** 

**Orig. Gedore - Art. 1502**

Heavy-duty extra strong epoxy painted mobile workbench. Unbendable multilayered wooden work-top. With sliding drawers and stop wedge, both single and central closing system. 4 rubber wheels 2 of which pivoting and one with brake for a better steadiness. A vice may be fixed on the bench.

Six-drawer type, size mm 480x400 and 2 open compartments. Max. load capacity kg. 700 in a steady position. Without tools.

Shelf length	mm	950
Shelf width	mm	550
Overall height	mm	875
Weight	Kg	78

**999GF** Each **1.830,00**

**999GH 3** 

**Orig. Metec - Art. 66060**

Heavy-duty extra strong epoxy painted mobile workbench.

Unbendable multilayered wooden work-top. With sliding drawers and stop wedge, both single and central closing system. 4 rubber wheels 2 of which pivoting and one with brake for a better steadiness. A vice may be fixed on the bench.

Five-drawer type, size mm 445x525 and 1 side large open compartment with adjustable divider. Max. load capacity up to kg. 600 in a steady position. With carrying lugs. Without tools.

Shelf length	mm	1200
Shelf width	mm	600
Overall height	mm	925
Weight	Kg	110

**999GH 3** Each **719,00**

Product running out of stock.

**999GL** 

**Orig. Gedore - Art. 1504**

Heavy-duty extra strong epoxy painted mobile workbench of a considerable height. Unbendable multilayered wooden work-top. With sliding drawers and stop wedge, both single and central closing system. 4 rubber wheels 2 of which pivoting and one with brake for a better steadiness. A vice may be fixed on the bench.

Seven-drawer type, size mm 480x400 and side large compartment with wicket.

Max. load capacity kg. 700 in a steady position. Without tools.

Shelf length	mm	1100
Shelf width	mm	550
Overall height	mm	960
Weight	Kg	100

**999GL** Each **2.230,00**



**Orig. Gedore - Art. BR 1504 L**

Product description as Art. 999GL

Combination of mobile workbench and tool trolleys Art. 999GL and reentering cabinet for an easy and safe handling of tools. With automatic gas-propelled lift. Door lock closing system. Hooks for drilled cabinet: see Art.995 GT. Without tools and hooks.

Trolley/cupboard shelf length	mm	1100/1000
Trolley/cupboard shelf width	mm	550/70
Trolley/cupboard height	mm	960/640
Overall weight	Kg	128

<b>999GP</b>	<b>Each</b>	<b>3.360,00</b>
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**999GP**

**3**
**MOBILE WORKBENCHES**
**Orig. Gedore - Art. 1505**

Mobile workbench made of sturdy epoxy painted steel plate. Unbendable multilayered wooden work-top. With 4 retractable wheels for quick and safe movements and a very good still-standing. A special device, operated by draft gear, ensures wheels retraction. Both single and central closing systems.

With five guides and rollers sliding drawers, size 480x550 mm. and 1 large side compartment. Max. load capacity 1000 kg. in steady position. Without tools.

Shelf length	mm	1100
Shelf width	mm	652
Overall height	mm	900
Weight	Kg	138

<b>999GR</b>	<b>Each</b>	<b>3.840,00</b>
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**999GR**

**TRANSPORTER AND TOOL TROLLEYS**
**Orig. Metec - Art. 63000**

Heavy-duty extra strong epoxy painted trolley with framework made of weld steel tube. 4 solid-rubber wheels mm 200x50, 2 pivoting and one with brake. Max. load capacity over kg. 500 in a steady position. With carrying lugs.

Total length mm 1300 (Art.999 GS only - 999 GS/1 mm 1200), total width mm 600, total height mm 810.

With unbendable wooden work-top (size mm 1200x600), 2 shelves, 1 large compartment with wicket. Door lock closing system.

Weight	Kg	75
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<b>999GS 3</b>	<b>Each</b>	<b>819,00</b>
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Product running out of stock.


**999GS 3**

**Orig. Metec - Art. 63300**

Product description as Art. 999GS 3

With unbendable wooden work-top (size mm 1200x600), 2 shelves,

1 drawer unit with 4 drawers size mm 435x535 with a max. load capacity of kg. 30 each, motion on ball-bearings. Door lock closing system

Weight	Kg	89
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<b>999GS 6</b>	<b>Each</b>	<b>864,00</b>
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Product running out of stock.


**999GS 6**


**TRANSPORTER TROLLEYS**

999P

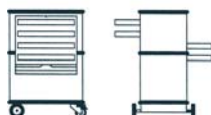

**Prod. SCU**

Wooden platform model with laminated foam. Tube based structure, and welded steel profile, which is powder resistant. 4 rubber wheels with a diameter of 200 mm and 2 swivels, equipped with a brake. 500 kg fixed position capacity. Removable portable handle, with side network  
Table length 1,000 mm, width 700 mm, total height of 1,170 mm including mounted handle.

Weight	Kg	31
<b>999P</b>	Each	<b>381,00</b>

**MODULES WITH TOOLS FOR TOWER TROLLEYS.**

1000G 1


**Orig. Gedore - Art. 1500 ES**

In unbreakable ABS material. Suitable for top-quality dressing of tower-trolley drawers (also see phonoabsorbent mats Art. 1000 G 40). Before placing an order, compare module and spacer dimensions with drawer dimensions.

Width by module depth 310x315mm.

25 pcs, module excluded:

1 sr. 877 G 17 (17 pcs)

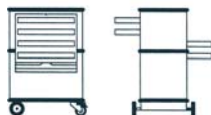
1 sr. 914 GH (8 pcs)

<b>1000G 1</b>	Each	<b>266,00</b>
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Empty modules for Art. 1000 G 1 - 1000 G 2

<b>O1000G 1V</b>	Each	<b>21,80</b>
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1000G 2

Product description as Art. 1000G 1

Width by module depth 310x315mm.

25 pcs, module excluded:

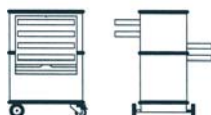
1 sr. 875 G 17 (17 pcs)

1 sr. 914 GH (8 pcs)

<b>1000G 2</b>	Each	<b>326,00</b>
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For empty module see Art. O 1000 G 1V.

1000G 3

Product description as Art. 1000G 1

Width by module depth 157.5x310mm.

10 pcs, module excluded:

1 sr. 871 G 10 (10 pcs)

<b>1000G 3</b>	Each	<b>116,00</b>
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Empty modules for Art. 1000 G 3 - 1000 G 8

<b>O1000G 3V</b>	Each	<b>13,80</b>
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Product description as Art. 1000G 1  
 Width by module depth 310x315.  
 9 pcs, module excluded:  
 1 pc each Art. 915 GE 2-2.5-3-4-5-6-7-8-10mm.

**1000G 4** Each **141,00**

Empty modules for Art. 1000 G 4

**O1000G 4V** Each **21,80**

**GEDORE**

**1000G 4**



**3**

Product description as Art. 1000G 1  
 Width by module depth 157.5x310mm.  
 8 pcs, module excluded:  
 1 pc each Art.880 G 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22mm.

**1000G 6** Each **147,00**

Empty modules for Art. 1000 G 6

**O1000G 6V** Each **13,80**

**GEDORE**

**1000G 6**



Product description as Art. 1000G 1  
 Width by module depth 157.5x310mm.  
 10 pcs, module excluded:  
 1 pc each Art. 879 G 8-10-12-13-14-15-16-17-18-19mm.

**1000G 8** Each **258,00**

For empty module see Art. O 1000 G 3V.

**GEDORE**

**1000G 8**



Product description as Art. 1000G 1  
 Width by module depth 157.5x310mm.  
 6 pcs, module excluded:  
 1 pc each Art. 899 GL 5.5-6-7-8-9-10mm.

**1000G 10** Each **119,00**

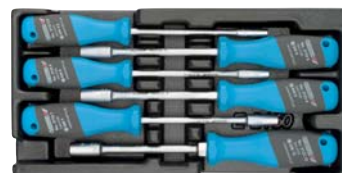
Empty modules for Art. 1000 G 10

**O1000G 10V** Each **13,70**

When stocks are depleted, we will provide wrenches with handles in different form.

**GEDORE**

**1000G 10**



Product description as Art. 1000G 1  
 Width by module depth 157.5x310mm.  
 5 pcs, module excluded:  
 1 pc each Art. 887 GA 8x9-10x11-12x13-14x15-16x17mm.

**1000G 12** Each **295,00**

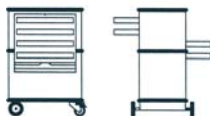
Empty modules for Art. 1000 G 12

**O1000G 12V** Each **16,10**

**GEDORE**

**1000G 12**



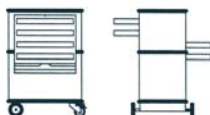
**1000G 14**

Product description as Art. 1000G 1  
 Width by module depth 157.5x310mm.  
 6 pcs, module excluded:  
 1 pc fleximeter 5m  
 1 pc digital caliper  
 1 pc tweezers 150mm  
 1 pc scriber 250mm  
 1 pc file for dressing metric threads  
 1 pc caliper for TORX screws Art. 2030 G

**1000G 14** Each **311,00**

Empty modules for Art. 1000 G 14

**O1000G 14V** Each **13,40**

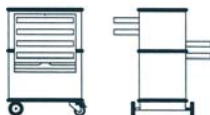
**1000G 15**

Product description as Art. 1000G 1  
 Width by module depth 157.5x310mm.  
 26 pcs, module excluded:  
 1 pc each Art. 969 RA 10-11-12-13-14-15-16-17-18-19-21-22-23-24-26-27-28-30-32mm  
 1 pc each Art. 969 RV 6-7-8-9-10-12-14mm.

**1000G 15** Each **336,00**

Empty modules for Art. 1000 G 15

**O1000G 15V** Each **13,80**

**1000G 16**

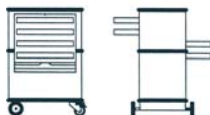
Product description as Art. 1000G 1  
 Width by module depth 157.5x310mm.  
 6pcs, module excluded:  
 1 pc each Art. 982 SB 100x4-125x5.5-150x6.5-175x8mm  
 1 pc each Art. 982 SL Size PZD 1 - 2

**1000G 16** Each **79,80**

Empty modules for Art. 1000 G 16 - 1000 G 16A

**O1000G 16V** Each **13,70**

When stocks are depleted, we will provide screwdrivers with handles in different form.

**1000G 16A**

Product description as Art. 1000G 1  
 Width by module depth 157.5x310mm.  
 6 pcs, module excluded:  
 1 pc each Art.982 SB 100x4-125x5.5-150x6.5-175x8mm  
 1 pc each Art. 982SF Size PH 1 - 2

**1000G 16A** Each **76,40**

For empty module see Art. O 1000 G 16V.

When stocks are depleted, we will provide screwdrivers with handles in different form.

**1000G 17**

Product description as Art. 1000G 1  
 Width by module depth 157.5x310mm.  
 5 pcs, module excluded:  
 1 pc each Art. 970 RF 125 and 250mm  
 1 pc Art. 970 RH  
 1 pc Art. 970 RI  
 1 pc Art. 970 RT

**1000G 17** Each **225,00**

Empty modules for Art. 1000 G 17

**O1000G 17V** Each **13,80**

Product description as Art. 1000G 1  
 Width by module depth 157.5x310mm.  
 15 pcs, module excluded:  
 1 pc each Art. 969 RV 5-6-7-8-9-10-12-14-17mm  
 1 pc each Art. 969 RZ 5-6-8-10-12-14mm.

**1000G 18** Each **227,00**

Empty modules for Art. 1000 G 18

**O1000G 18V** Each **13,40**

**GEDORE**

**1000G 18**



**3**

Product description as Art. 1000G 1  
 Width by module depth 157.5x310mm.  
 19 pcs, module excluded:  
 1 pc each Art. 969 RS 20-25-27-30-40-45-50-55-60mm  
 1 pc each Art. 969 RT 20-25-27-30-40-45-50-55-60mm  
 1 pc Art. 2030 G.

**1000G 20** Each **403,00**

Empty modules for Art. 1000 G 20

**O1000G 20V** Each **13,40**

**GEDORE**

**1000G 20**



Product description as Art. 1000G 1  
 Width by module depth 157.5x310mm.  
 4 pcs, module excluded:  
 1 pc Art. 251 GB 160mm  
 1 pc Art. 362 GL  
 1 pc Art. 345 G 180mm  
 1 pc Art. 573 GB 160mm.

**1000G 21** Each **176,00**

Empty modules for Art. 1000 G 21

**O1000G 21V** Each **13,70**

When stocks are depleted, we will provide pliers with handles in different form.

**GEDORE**

**1000G 21**



Product description as Art. 1000G 1  
 Width by module depth 157.5x310mm.  
 37 pcs, module excluded:  
 1 pc each Art. 941 RA 4-5-5,5-6-7-8-9-10-11-12-13-14mm  
 1 pc each Art. 941 RF 3-4-5-6-8mm  
 1 pc each Art. 941 RL 8-9-10-15-20-25-27-30-40mm  
 1 pc each Art. 941 RP 4-5-6-7-8-10mm  
 1 pc Art. 942 G  
 1 pc Art. 942 E 100mm  
 1 pc Art. 942 H  
 1 pc Art. 942 P  
 1 pc Art. 942 V.

**1000G 22** Each **459,00**

Empty modules for Art. 1000 G 22

**O1000G 22V** Each **13,80**

**GEDORE**

**1000G 22**



Product description as Art. 1000G 1  
 Width by module depth 157.5x310mm.  
 24 pcs, module excluded:  
 1 pc each Art. 952 RA 6-7-8-9-10-11-12-13-14-15-16-17-18-19mm  
 1 pc each Art. 952 RT 4-5-6-8-10mm  
 1 pc Art. 953 E  
 1 pc Art. 953 F  
 1 pc Art. 953 H  
 1 pc Art. 953 I  
 1 pc Art. 953 T.

**1000G 24** Each **404,00**

Empty modules for Art. 1000 G 24

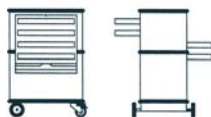
**O1000G 24V** Each **13,80**

**GEDORE**

**1000G 24**



**1000G 26**



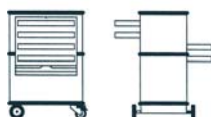
Product description as Art. 1000G 1  
 Width by module depth 157.5x310mm.  
 19 pcs, module excluded:  
 1 pc each Art. 982 GA 10-13-14-17-19mm  
 1 pc each Art. 983 GB 7-8-9-12mm  
 1 pc each Art. 983 GD Size 1-2-3-4  
 1 pc each Art. 983 GM 5-6-8-10mm  
 1 pc Art. 984 GF-5  
 1 pc Art. 1986 GP.

<b>1000G 26</b>	Each	<b>223,00</b>
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Empty modules for Art. 1000 G 26

<b>O1000G 26V</b>	Each	<b>13,40</b>
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**1000G 27**



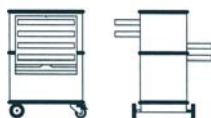
Product description as Art. 1000G 1  
 Width by module depth 157.5x310mm.  
 8 pcs, module excluded:  
 1 pc each pin punch 1.5-3-4mm  
 1 pc drift 120X5mm  
 1 pc punch 120x5mm  
 1 pc octagonal chisel 250mm  
 1 pc hammer with collar 300g  
 1 pc octagonal cross chisel 125x5mm.

<b>1000G 27</b>	Each	<b>108,00</b>
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Empty modules for Art. 1000 G 27

<b>O1000G 27V</b>	Each	<b>13,80</b>
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**1000G 28**



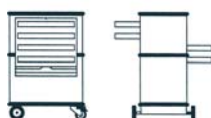
Product description as Art. 1000G 1  
 Width by module depth 157.5x310mm.  
 6 pcs, module excluded:  
 1 pc each Art. 274 GA 140-180mm  
 1 pc Art. 275 GA 170mm  
 1 pc each Art. 276 GA 140-175mm  
 1 pc Art. 277 GA 165mm.

<b>1000G 28</b>	Each	<b>139,00</b>
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Empty modules for Art. 1000 G 28

<b>O1000G 28V</b>	Each	<b>13,70</b>
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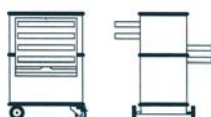
**1000G 30**



Product description as Art. 1000G 1  
 Width by module depth 157.5X310mm.  
 Empty module for small parts or additional tools..

<b>1000G 30</b>	Each	<b>10,60</b>
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**1000G 34**



Product description as Art. 1000G 1  
 Width by module depth 157,5x30mm.  
 Spacer modules, with tray for small parts. For fixing modules inside drawers  
 480x351mm.  
 3 pcs required for each drawer.

<b>1000G 34</b>	Each	<b>2,34</b>
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**Orig. Gedore**

Product description as Art. 1000G 1  
 Width by module depth 475x72mm.  
 Basin spacer modules for small parts to fix modules to drawers 480x400mm.  
 1 piece for each drawer.

**1000G 35** Each **6,28**



**1000G 35**



**Orig. Gedore - Art. 1500 ES**

Product description as Art. 1000G 1  
 Width by module depth 157x30mm.  
 Tool unit posts for small parts. For fixing modules inside drawers 480x400mm.  
 3 pcs required for each drawer.

**1000G 38** Each **19,80**



**1000G 38**



Product description as Art. 1000G 1

Width by module depth 318x100mm.  
 Tool unit posts for small parts, with separators.

**1000G 39** Each **9,66**



**1000G 39**



Product running out of stock.

**SOUND ABSORBENT MATS**

**Orig. Gedore - Art. 1500 H**

In honeycomb rubber, suitable to reduce the noise caused by the tools in the drawers when the trolley is moved. Shock-resistant and anti-slipping. Supplied in rolls (length: 2m, width: 0.45m). Easily cut to fit any kind of drawer, bench, etc. by using both side adhesive tape.

**1000G 40** Each **44,20**



**1000G 40**



**PIPE WRENCHES**

**Prod. SCU**

Blitz type with roller.  
 First-class execution in forged steel.  
 Hardened jaws.  
 Fine quality.

Overall length	mm	175	225	270	310	350
For pipes up to Ø	inches	1	1.1/2	2	2.1/2	3
<b>1002</b>	<b>Each</b>	<b>19,30</b>	<b>22,10</b>	<b>28,70</b>	<b>32,10</b>	<b>43,10</b>



**1002**



**Orig. Pakes-Gedore**

Product description as Art. 1002

Overall length	mm	175	225	270	310	350
For pipes up to Ø	inches	1	1.1/2	2	2.1/2	3
<b>1002G</b>	<b>Each</b>	<b>27,60</b>	<b>30,70</b>	<b>37,70</b>	<b>44,10</b>	<b>79,00</b>



**1002G**



Blitz type with roller and bent jaws.  
 First-class execution in forged steel.  
 Hardened jaws.

Overall length	mm	175	225	300
For pipes up to Ø	inches	1	1.1/2	2
<b>1004G</b>	<b>Each</b>	<b>29,80</b>	<b>36,40</b>	<b>50,30</b>



**1004G**



**PIPE AND BOLT WRENCHES**

1017GA




Prod. SCU

In special steel. Forged and hardened jaws. Chrome plated finish.  
Supplied in sets of two, not sold separately. Clamping strength: from 9/22 to 23/32mm.  
Length: 215 -275mm.

1017GA	Per set	14,10
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Product running out of stock.

**PIPE WRENCHES MOD. STILLSON**

1020G




Prod. SCU - Art. 225

In special steel, forged.  
Finely enamelled.

Overall length	mm	200	250	310	350	450	600	920
Overall length	inches	8	10	12	14	18	24	36
For pipes up to Ø	inches	3/4	1	1.1/4	1.1/2	2	3	4
Max opening	mm	27	35	44	48	60	76	100
1020G	Each	19,60	24,50	29,40	34,80	49,90	75,60	200,00

**PIPE WRENCHES AMERICAN PATTERN**

1021GE




Prod. SCU

High resistance model. Heavy duty.  
Cast body with forged steel jaws. Strongly hardened serration.  
Additionally induction hardened. Finely enamelled body.

Overall length	mm	200	250	300	350	450	600	900
For pipes up to Ø	inches	1	1.1/2	2	2	2.1/2	3	5
Max opening	mm	38	48	60	60	76	89	160
Weight	Kg	0,400	0,800	1,300	1,600	2,600	4,300	8,800
1021GE	Each	22,30	29,30	35,50	39,50	58,40	87,70	202,00

Spare parts available on request.

**PIPE WRENCHES AMERICAN PATTERN - LIGHT EXECUTION**

1025G



ALUMINIUM



Prod. SCU

Body in light aluminium alloy. Jaws made of alloyed steel, additionally induction hardened.  
Particularly suitable for light operation.

Overall length	mm	250	300	350	450	600	900	1200
For pipes up to Ø	inches	1.1/2	2	2	2.1/2	3	5	6
Weight	Kg	0,500	0,650	0,960	1,540	2,650	4,960	8,200
1025G	Each	39,10	47,30	52,90	62,90	101,00	216,00	358,00

1030G



ALUMINIUM



Model with front grip. Body in light aluminium alloy. Jaws made of alloyed steel, additionally induction hardened.

Particularly suitable for light operation.

Overall length	mm	350	450	600
For pipes up to Ø	inches	2	2.1/2	3
Weight	Kg	0,840	1,260	2,255
1030G	Each	68,70	95,40	159,00

Spare parts for Art. 1025 G and 1030 G available on request.

**PIPE WRENCHES WITH AUTOMATIC REGULATION/ADJUSTMENT**

1032G




Prod. SCU - Art. 225

Forged steel body (450mm in aluminium). Jaws in special steel, hardened.  
Jaw with spring device for immediate gripping of the tube to be tightened. 3 gripping positions for a safe grip. Ratchet-like movement even single-hand operated. Quick and easy to operate even in hard-to-access locations.

Overall length	mm	250	350	450
For pipes up to Ø	inches	1.1/2	2	3
Max opening	mm	40	50	80
Weight	Kg	0,900	1,650	2,500
1032G	Each	43,10	53,10	164,00

**PIPE WRENCHES SWEDISH PATTERN**

1033G




Orig. Carolus - Art. 2175

Jaws bent at 85°. Hardened special steel. Painted finish.

Size		1	1.1/2	2	3
For pipes up to Ø	inches	1.1/4	1.3/4	2.1/4	3.1/2
Max opening	mm	44	62	76	105
Overall length	mm	320	420	560	635
1033G	Each	25,80	38,70	58,20	105,00



**Orig. Carolus - Art. 2176**

Jaws bent at 45°. Hardened special steel. Painted finish.

Size		1/2	1	1.1/2	2	3
For pipes up to Ø	inches	3/4	1.1/4	1.3/4	2.1/4	3.1/2
Max opening	mm	32	44	62	76	105
Overall length	mm	235	320	450	540	650
<b>1034G</b>	<b>Each</b>	<b>22,60</b>	<b>27,50</b>	<b>38,70</b>	<b>59,70</b>	<b>109,00</b>



1034G

**Orig. Carolus - Art. 2179**

Shaped, curved jaws. Hardened special steel. Painted finish.

Size		1/2	1	1.1/2	2	3
For pipes up to Ø	inches	3/4	1.1/4	1.3/4	2.1/4	3.1/2
Max opening	mm	32	44	62	76	105
Overall length	mm	235	330	420	535	650
<b>1035G</b>	<b>Each</b>	<b>22,60</b>	<b>27,50</b>	<b>40,40</b>	<b>60,80</b>	<b>114,00</b>



1035G

3

**Orig. Gedore - Art. 175**

Jaws bent at 85° - DIN 5234 A. In CHROME VANADIUM steel. Additionally induction hardened. High-resistant epoxy paint coating.

Size		3/4	1	1.1/2	2	3	4
For pipes up to Ø	inches	1	1.1/4	1.3/4	2.1/4	3.1/2	4.1/2
Max opening	mm	38	44	62	76	105	130
Overall length	mm	280	320	430	580	670	760
<b>1036G</b>	<b>Each</b>	<b>63,50</b>	<b>67,50</b>	<b>102,00</b>	<b>156,00</b>	<b>209,00</b>	<b>322,00</b>



1036G

**Orig. Gedore - Art. 176**

Jaws bent at 52° - DIN 5234 B. In CHROME VANADIUM steel. Thin and bent jaws. High-resistant epoxy paint coating.

Size		3/4	1	1.1/2	2	3
For pipes up to Ø	inches	1	1.1/4	1.3/4	2.1/4	3.1/2
Max opening	mm	38	44	62	76	105
Overall length	mm	280	320	430	580	670
<b>1038G</b>	<b>Each</b>	<b>61,10</b>	<b>69,60</b>	<b>99,20</b>	<b>146,00</b>	<b>217,00</b>



1038G

**Orig. Gedore - Art. 9100**

Shaped jaws with 3 clenches points - DIN 5234 C. In CHROME VANADIUM steel. Thin and curved jaws for a better grip even in restricted areas. Painted finish.

Size		1/2	1	1.1/2	2	3
For pipes up to Ø	inches	1	1.1/4	1.3/4	2.1/4	3.1/2
Max opening	mm	35	48	60	80	110
Overall length	mm	245	320	420	550	630
<b>1040G</b>	<b>Each</b>	<b>66,80</b>	<b>80,30</b>	<b>110,00</b>	<b>177,00</b>	<b>262,00</b>



1040G

**Orig. Gedore - Art. 100**

Professional ORIGINALE SNAP type. Shaped jaws with 3 clenches points - DIN 5234 C. In CHROME VANADIUM steel. Thin and curved milled jaws for a better grip even in restricted areas. High-resistant epoxy paint coating.

Size		1/2	1	1.1/2	2	3
For pipes up to Ø	inches	1	1.1/4	1.3/4	2.1/4	3.1/2
Max opening	mm	35	48	60	80	110
Overall length	mm	245	320	420	550	630
<b>1041G</b>	<b>Each</b>	<b>77,90</b>	<b>107,00</b>	<b>134,00</b>	<b>188,00</b>	<b>287,00</b>



1041G

**Prod. SCU**

Special model with quick and precise adjustments via push button, which can be used with one single hand. The particular position of the hinge creates a favorable ratio of levers to allow a large clamping force.

Shaped jaws with a triple point grip. In forged CHROME-VANADIUM steel. Polished execution.

Size		1	1.1/2
For pipes up to Ø	inches	1.1/4	1.3/4
Max opening	mm	42	60
Overall length	mm	325	425
<b>1042G</b>	<b>Each</b>	<b>74,70</b>	<b>107,00</b>



1042G

**CHAIN PIPE WRENCHES**

1043G

**GEDORE**



**Orig. Gedore - Art. 120**

Forged grip in CHROME VANADIUM steel.  
Jaws with twin serrations and additional hardening. Hardened chain. For heavy-duty purposes.  
Chain links match easily to round, square and irregular-shaped items.  
Suitable to tubes 3/8" to 4" inch (17 to 114mm).

Overall length	mm	300
<b>1043G</b>	<b>Each</b>	<b>134,00</b>

Spare chains for Art. 1043G

<b>O1043G</b>	<b>Each</b>	<b>66,90</b>
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1044G

**STUREM**



**Orig. Sturem**

Forged grip in CHROME VANADIUM steel. Nickel finish.  
Jaws with twin serrations, hardened. Hardened chain. Multi-purpose.  
Chain links match easily to round, square and irregular-shaped items.  
Suitable to tubes up to 4" inches.

Overall length	mm	315
<b>1044G</b>	<b>Each</b>	<b>56,80</b>

Spare chains for Art. 1044 G.

<b>O1044G</b>	<b>Each</b>	<b>29,80</b>
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1045G

**SCU**



**Prod. SCU**

In special steel. Enamelled finish.  
Jaws with twin serrations, hardened. Hardened chain. Multi-purpose.  
Chain links match easily to round, square and irregular-shaped items.  
Suitable to tubes up to 4" inches.

Overall length	mm	300
<b>1045G</b>	<b>Each</b>	<b>44,30</b>

Spare chains for Art. 1045 G.

<b>O1045G</b>	<b>Each</b>	<b>31,60</b>
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**BAND PIPE WRENCHES**

1045GE

**SCU**



**Prod. SCU**

In special steel. Enamelled finish. Model with hardened jaw and nylon band. Suitable to tighten round, square, irregular-shaped, chrome-plated, nickel-plated. etc. items.  
Body length: 300mm.

Size		<b>3</b>	<b>8</b>
For pipes up to Ø	inches	3	8
Belt overall length	mm	450	1000
<b>1045GE</b>	<b>Each</b>	<b>46,90</b>	<b>50,90</b>

Spare bands for Art. 1045GE

Size		<b>3</b>	<b>8</b>
<b>O1045GE</b>	<b>Each</b>	<b>14,10</b>	<b>15,50</b>

**CHAIN PIPE WRENCHES**

1046G

**SCU**



**Prod. SCU**

In SPECIAL STEEL.  
Model with double and reversible, hardened, tempered and lacquered jaws.

Size		<b>4</b>	<b>6</b>	<b>8</b>	<b>12</b>	<b>16</b>
For pipes Ø	inches	3/4-4	1-6	1.1/2-8	2-12	3-16
Overall length	mm	890	900	1100	1300	1300
<b>1046G</b>	<b>Each</b>	<b>171,00</b>	<b>339,00</b>	<b>437,00</b>	<b>798,00</b>	<b>1.050,00</b>

Spare chains for Art. 1046 G.

Size		<b>4</b>	<b>6</b>	<b>8</b>	<b>12</b>	<b>16</b>
<b>O1046G</b>	<b>Each</b>	<b>52,50</b>	<b>76,20</b>	<b>97,20</b>	<b>167,00</b>	<b>242,00</b>

1049G

**GEDORE**



**Orig. Gedore - Art. 210 / 122**

Product description as Art. 1046G

Size		<b>2</b>	<b>3</b>	<b>4</b>	<b>6</b>	<b>8</b>	<b>12</b>
For pipes Ø	inches	1/8-2	1/4-3	3/4-4	1-6	1.1/2-8	2-12
Overall length	mm	510	710	940	1090	1275	1600
<b>1049G</b>	<b>Each</b>	<b>248,00</b>	<b>344,00</b>	<b>440,00</b>	<b>592,00</b>	<b>729,00</b>	<b>1.220,00</b>

Spare chains for Art. 1049 G.

Size		<b>2</b>	<b>3</b>	<b>4</b>	<b>6</b>	<b>8</b>	<b>12</b>
<b>O1049G</b>	<b>Each</b>	<b>87,80</b>	<b>91,90</b>	<b>131,00</b>	<b>188,00</b>	<b>243,00</b>	<b>383,00</b>

**Orig. Gedore**

Spare jaws for Art.1049 G.

Size		2	3	4	6	8	12
<b>1049GR</b>	Per pair	99,20	131,00	184,00	222,00	270,00	386,00

**GEDORE**

**1049GR**
**PIPE CUTTERS FOR PLASTIC MATERIALS**
**Prod. SCU**

Pliers type, in nickel-plated metal, hardened and ground steel knife.

Suitable for cutting PVC-Nylon-PE plastic pipes.

Overall length	mm	130
For pipes cut Ø by	mm	3-15
<b>1052A</b>	Each	<b>12,70</b>

Spare knives for Art. 1052 A.

<b>O1052A</b>	Each	<b>4,06</b>
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Product description as Art. 1052A

Overall length	mm	185
For pipes cut Ø by	mm	12-25
<b>1052B</b>	Each	<b>19,30</b>

Spare knives for Art. 1052 B.

<b>O1052B</b>	Each	<b>6,18</b>
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**SCU**

**1052A  
1052B**
**3**
**Orig. Sturem**

Pliers type with hardened and sharpened special steel knife. Long and ergonomic handles for easy cutting. Suitable for rigid PVC plastic pipes, plastic-reinforced flexible pipes for water/air, etc.

Aluminium/cast iron alloy body.

Cutting capacity Ø 35mm. Total length 210mm.

<b>1052GF</b>	Each	<b>14,50</b>
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Spare knives for Art. 1052 GE-GF.

<b>O1052GH</b>	Each	<b>7,60</b>
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**STUREM**

**1052GF**
**Prod. SCU**

Professional patented shear type with mobile fulcrum mechanism and special blade profile, in STAINLESS steel coated with TEFLON® to cut easily any type of tube: PVC, PE, PP, PB, VPE, PVDF, PEX, MLP, MSR, CPVC, multilayer up to 0.6mm thick, nylon, rubber, vinyl, etc.

Quick change blade. Lightweight and sturdy body in special magnesium alloy.

Cutting capacity Ø 35mm. Total length 225mm.

<b>1052GHA</b>	Each	<b>42,40</b>
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Spare knives for Art. 1052 GHA.

<b>O1052GHA</b>	Each	<b>19,60</b>
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**SCU**

**1052GHA**

Shears type, ratchet movement for easy cutting of hard plastic pipes. Special steel knives.

Cutting capacity Ø 42mm. Total length 195mm.

<b>1052GL</b>	Each	<b>20,40</b>
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Spare knives for Art. 1052 GL.

<b>O1052GL</b>	Each	<b>3,70</b>
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**SCU**

**1052GL**

Professional patented shear type with ratchet mechanism and special blade profile, in STAINLESS steel coated with TEFLON® to cut easily any type of tube: PVC, PE, PP, PB, VPE, PVDF, PEX, MLP, MSR, CPVC, multilayer up to 0.6mm thick, nylon, rubber, vinyl, etc.

Quick change blade, with guard, to avoid accidents during cutting. Lightweight and sturdy body in special magnesium alloy with soft non-slip rubber grip.

Cutting capacity Ø 42mm. Total length 240mm.

<b>1052GLA</b>	Each	<b>55,80</b>
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Spare knives for Art. 1052 GLA.

<b>O1052GLA</b>	Each	<b>23,20</b>
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**SCU**

**1052GLA**

**1052GLE** 

**Orig. Gedore - Art. 226842**

Professional shear type with ratchet mechanism and special blade profile for easy cutting of any type of pipe: PVC, PE, PP, PB, VPE, PVDF, Nylon, rubber, vinyl.

Cutting capacity Ø 42mm. Total length 225mm.

**1052GLE** Each **53,30**

Spare knives for Art. 1052 GLE.

**O1052GLE** Each **20,80**

**1052GLP** 

**Prod. SCU**

Professional patented shear type with ratchet mechanism and special blade profile, in STAINLESS steel coated with TEFLON® to cut easily any type of tube: PVC, PE, PP, PB, VPE, PVDF, PEX, MLP, MSR, CPVC, multilayer up to 0.6mm thick, nylon, rubber, vinyl, etc.

Quick change blade, with guard, to avoid accidents during cutting. Lightweight and sturdy body in special magnesium alloy with soft non-slip rubber grip.

Cutting capacity Ø 50mm. Total length 250mm.

**1052GLP** Each **64,30**

Spare knives for Art. 1052 GLP.

**O1052GLP** Each **26,70**

**1052GLT** 

**Orig. Gedore - Art. 226863**

Professional shearing model with ratchet and profile movement for a special blade which can provide a smooth cutting for each type of tube made from PVC, PE, PP, PB, VPE, PVDF, nylon, rubber, vinyl.

Cutting capacity Ø 63mm. Total length 275mm.

**1052GLT** Each **110,00**

Spare blades for Art. 1052 GLT.

**O1052GLT** Each **55,90**

**1052GM** 

**Orig. Sturem**

Shears type, ratchet movement for easy cutting of hard plastic pipes. Special steel knives.

Cutting capacity Ø 63mm. Total length 420mm.

**1052GM** Each **70,40**

Spare knives for Art. 1052 GM.

**O1052GM** Each **48,80**

**1052GP** 

**Prod. SCU**

Super-professional shear type with ratchet mechanism and special blade profile for easy cutting of any type of pipe: PVC, PE, PP, PB, VPE, PVDF, Nylon, rubber, vinyl up to Ø 42mm. Also cuts plastic cable ducts up to 15x30mm and electric cables up to Ø 12mm (max section 4x2.5 sqmm).

Lightweight and sturdy body in special aluminium alloy with soft non-slip rubber grip. Total length 230mm.

**1052GP** Each **92,80**

Spare knives for Art. 1052 GP.

**O1052GP** Each **27,10**

**1052GR** 

**Orig. Sturem**

Gun type for professional use. Aluminium alloy body, hardened special steel knife. Blade feed with ratchet movement for effortless efficient cutting. Button for automatic blade retraction. Suitable for PE, PP, PVC, Nylon, rubber and vinyl pipes.

Cutting capacity Ø 35mm. Total length 185mm.

**1052GR** Each **52,80**

**Orig. Gedore - Art. 2261**

Set suitable for cutting tubes, cable trays, plastic frames (not suitable to cut metals).

The set contains:

- 1 x shear with blade
  - 2 x inserts for plastic tubes 16 + 19 and 25mm
  - 1 x 90° prism insert for cable trays and plastic frames
  - 1 x 45° adjusting angular holder.
- In plastic case.

**1052L** Each **69,10**



**1052L**



**3**

**PIPE CUTTERS FOR PLASTIC MATERIALS**

**Prod. SCU**

Wheel type with telescopic guide. Suitable for cutting PE, PP, PVC, Nylon pipes.

With 1 thin wheel in high-resistance steel, 2 rollers and knife reamer blade.

For pipes Ø mm 6-42

**1053G** Each **47,50**

For spare wheels see Art. 01053 GM.



**1053G**



Wheel type with telescopic guide and rapid approach. Suitable for cutting PE, PP, PVC, Nylon pipes.

With 1 thin steel wheel, 2 rollers, knife reamer blade and spare wheel in the handle.

For pipes Ø mm 6-50

**1053GE** Each **64,20**

Spare wheels for Art. 1053 GE.

**O1053GE** Each **4,62**



**1053GE**



Product description as Art. 1053GE

With 1 thin wheel in high-resistance steel, 4 roller and knife reamer.

For pipes Ø mm 6-67

**1053GM** Each **96,20**

Spare wheels for Art.1053 G -1053 GM.

**O1053GM** Each **4,22**



**1053GM**



Product description as Art. 1053GE

With 1 thin steel wheel and 2 rollers.

For pipes Ø mm 50-125

**1053GR** Each **202,00**

Spare wheels for Art. 1053 GR.

**O1053GR** Each **12,80**



**1053GR**



Product description as Art. 1053GE

With 1 thin wheel in high-resistance steel, 4 roller and knife reamer.

For pipes Ø mm 110-168

Overall length mm 370

**1053GS** Each **314,00**

Spare wheels Ø 45mm for Art. 1053 GP.

**O1053GS** Each **35,00**



**1053GS**



**PIPE CUTTERS**
**1053T****SCU****Prod. SCU**

Shears type  
In high-resistance steel, coated handles.  
Spring opening and stop hook.  
Cutting without crushing very thin copper pipes up to Ø 2.5mm.  
Suitable for installation and repairing of house appliances and heating systems.

Overall length	mm	140
<b>1053T</b>	Each	<b>17,90</b>

**1054G****STUREM****Orig. Sturem**

Pocket type with one wheel. For cutting pipes of copper, brass, aluminium and relevant alloys, steel and plastic thin pipes.

With one high-resistance steel wheel and two rollers.

For pipes Ø	mm	3-16
For pipes Ø	inches	1/8-5/8
<b>1054G</b>	Each	<b>11,50</b>

Spare wheels for Art. 1054 G.

<b>O1054G</b>	Each	<b>5,58</b>
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**1054GA****SCU****Prod. SCU**

Product description as Art. 1054G

With one steel wheel and two rollers.

For pipes Ø	mm	3-16
For pipes Ø	inches	1/8-5/8
<b>1054GA</b>	Each	<b>7,24</b>

Spare wheels for Art.1054 GA.

<b>O1054GA</b>	Each	<b>1,16</b>
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**1054GB****SCU****INOX**

Wheel pocket type. Suitable for cutting thin stainless steel pipes.

With 1 steel wheel and 2 rollers.

For pipes Ø	mm	3-16
For pipes Ø	inches	1/8-5/8
<b>1054GB</b>	Each	<b>17,70</b>

Spare wheels for Art. 1054 GB.

<b>O1054GB</b>	Each	<b>6,34</b>
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**1054GE****SCU**

Product description as Art. 1054G

With one steel wheel and two rollers.

For pipes Ø	mm	3-22
For pipes Ø	inches	1/8-7/8
<b>1054GE</b>	Each	<b>15,80</b>

Spare wheels for Art. 1054 GE.

<b>O1054GE</b>	Each	<b>3,52</b>
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**1054GF****SCU****INOX**

Wheel pocket type. Suitable for cutting thin stainless steel pipes.

With 1 steel wheel and 2 rollers.

For pipes Ø	mm	3-22
For pipes Ø	inches	1/8-7/8
<b>1054GF</b>	Each	<b>18,70</b>

Spare wheels for Art. 1054 GF.

<b>O1054GF</b>	Each	<b>6,34</b>
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**1055G****STUREM****Orig. Sturem**

For cutting pipes of copper, brass, aluminium and relevant alloys. For cutting steel and plastic thin pipes. Sharp clean cutting. Reamer blade in the handle for the utmost safety.

With 1 wheel in high-resistant steel, 2 rollers and reamer blade in the handle for maximum safety against accidents.

For pipes Ø	mm	3-35
For pipes Ø	inches	1/8-1.3/8
<b>1055G</b>	Each	<b>19,40</b>

Spare wheels for Art. 1055 G.

<b>O1055G</b>	Each	<b>5,58</b>
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Wheel-type. Suitable for cutting stainless steel thin pipes.

With 1 wheel in high-resistant steel, 2 rollers and reamer blade in the handle for the maximum safety against incidents.

For pipes Ø	mm	3-35
For pipes Ø	inches	1/8-1.3/8
<b>1055G 2</b>	<b>Each</b>	<b>19,90</b>

Spare wheels for Art. 1055 G 2.

<b>O1055G 2</b>	<b>Each</b>	<b>5,86</b>
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**STUREM**
**INOX 1055G 2**

**Prod. SCU**

For cutting pipes of copper, brass, aluminium and relevant alloys. For cutting steel and plastic thin pipes.

With 1 steel wheel, 2 rollers, knife reamer blade and spare wheel in the handle.

For pipes Ø	mm	3-32
For pipes Ø	inches	1/8-1.1/4
<b>1055GA</b>	<b>Each</b>	<b>18,20</b>

Spare wheels for Art. 1055 GA.

<b>O1055GA</b>	<b>Each</b>	<b>3,52</b>
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**SCU**
**1055GA**
**3**


Wheel type. Suitable for cutting thin stainless steel pipes.

With 1 steel wheel, 2 rollers, knife reamer blade and spare wheel in the handle.

For pipes Ø	mm	3-32
For pipes Ø	inches	1/8-1.1/4
<b>1055GA 1</b>	<b>Each</b>	<b>26,70</b>

Spare wheels for Art. 1055 GA 1.

<b>O1055GA 1</b>	<b>Each</b>	<b>6,34</b>
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**SCU**
**INOX 1055GA 1**


Compact, with telescopic guide. For cutting pipes of copper, brass, aluminium and relevant alloys.

With 1 steel wheel, 2 rollers, knife reamer blade and spare wheel in the handle.

For pipes Ø	mm	3-32
For pipes Ø	inches	1/8-1.1/4
<b>1055GA 3</b>	<b>Each</b>	<b>34,10</b>

Spare wheels for Art. 1055 GA 3.

<b>O1055GA 3</b>	<b>Each</b>	<b>3,52</b>
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**SCU**
**1055GA 3**


Wheel type with telescopic guide. Suitable for cutting thin stainless steel pipes.

With 1 steel wheel, 2 rollers, knife reamer blade and spare wheel in the handle.

For pipes Ø	mm	3-32
For pipes Ø	inches	1/8-1.1/4
<b>1055GA 5</b>	<b>Each</b>	<b>39,40</b>

Spare wheel for Art.1055 GA 3.

<b>O1055GA 5</b>	<b>Each</b>	<b>6,34</b>
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**SCU**
**INOX 1055GA 5**


Wheel type with telescopic guide. Suitable for cutting pipes of copper, brass, aluminium and their alloys.

With 1 steel wheel, 2 rollers, knife reamer blade and spare wheel in the handle.

For pipes Ø	mm	6-42
For pipes Ø	inches	1/4-1.5/8
<b>1055GA 7</b>	<b>Each</b>	<b>46,40</b>

Spare wheels for Art. 1055 GA 7.

<b>O1055GA 7</b>	<b>Each</b>	<b>4,02</b>
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**SCU**
**1055GA 7**


Wheel type with telescopic guide. Suitable for cutting thin stainless steel pipes.

With 1 steel wheel, 2 rollers, knife reamer blade and spare wheel in the handle.

For pipes Ø	mm	6-42
For pipes Ø	inches	1/4-1.5/8
<b>1055GA 9</b>	<b>Each</b>	<b>56,90</b>

Spare wheels for Art. 1055 GA 9.

<b>O1055GA 9</b>	<b>Each</b>	<b>6,92</b>
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**SCU**
**INOX 1055GA 9**


**1055GC**
**SCU**


Compact, with telescopic guide. For cutting pipes of copper, brass, aluminium and relevant alloys. With 1 steel wheel, 2 rollers, knife reamer blade and spare wheel in the handle.

For pipes Ø mm 6-45  
For pipes Ø inches 1/4-1.3/4

<b>1055GC</b>	Each	<b>59,30</b>
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Spare wheels for Art. 1055 GC.

<b>O1055GC</b>	Each	<b>4,02</b>
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**1055GD**
**SCU**
**INOX**


Wheel type with telescopic guide. Suitable for cutting thin stainless steel pipes. With 1 steel wheel, 2 rollers, knife reamer blade and spare wheel in the handle.

For pipes Ø mm 6-45  
For pipes Ø inches 1/4-1.3/4

<b>1055GD</b>	Each	<b>65,40</b>
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Spare wheels for Art. 1055 GD.

<b>O1055GD</b>	Each	<b>6,92</b>
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**1055GM**
**SCU**
**INOX**

**Prod. SCU**

Wheel type with telescopic guide and rapid approach. Suitable for cutting thin stainless steel pipes.

With 1 steel wheel, 2 rollers, knife reamer blade and spare wheel in the handle.

For pipes Ø mm 6-50  
For pipes Ø inches 1/4-2

<b>1055GM</b>	Each	<b>69,90</b>
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Spare wheels for Art. 1055 GM.

<b>O1055GM</b>	Each	<b>6,92</b>
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**1055GT**  
*new*
**GEDORE**

**Orig. Gedore - Art. 217**

With wheel with telescopic guide and rapid approach. To cut MULTI-LAYER pipes (MSR).

With 1 steel wheel and 4 rollers.

For pipes Ø mm 6-67  
For pipes Ø inches 1/4-2.5/8

<b>1055GT</b>	Each	<b>152,00</b>
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Spare wheels for Art. 1055 GT.

<b>O1055GT</b>	Each	<b>23,70</b>
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**AUTOMATIC PIPE CUTTERS**
**1056G**
**STUREM**

**Orig. Sturem**

With telescopic guide and automatic feed wheel. For copper-brass-aluminium and thin steel pipes.

With 1 thin wheel in high-resistance steel, with 3 guide rollers for maximum cutting precision also with the maximum load. With inner push spring for effort reduction and ease of cutting with only a few turnings. Reamer blade in the safety handle. Fully-protected wheel feed screw.

For pipes Ø mm 3-35  
For pipes Ø inches 1/8-1.3/8

<b>1056G</b>	Each	<b>46,80</b>
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Spare wheels for Art. 1056 G.

<b>O1056G</b>	Each	<b>5,58</b>
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Spare wheels for plastic, PVC, MEPLA for Art. 1058 G and for Orig. Sturem Art. 1054 G - 1055 G - 1055 G 2 - 1055 GB - 1055 GB 4 - 1056 G.

<b>O1058GA</b>	Each	<b>5,86</b>
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**Orig. Gedore - Art. 2303**

With automatic feed wheel with disc springs. For STAINLESS steel pipes.

With 1 steel wheel, 2 rollers, retractable reamer blade.

Size		<b>32</b>	<b>65</b>
For pipes Ø	mm	4-32	13-65
Overall dimensions	mm	20x4,8x5,1	32x9,9x6,1
<b>1057G</b>	Each	<b>115,00</b>	<b>232,00</b>

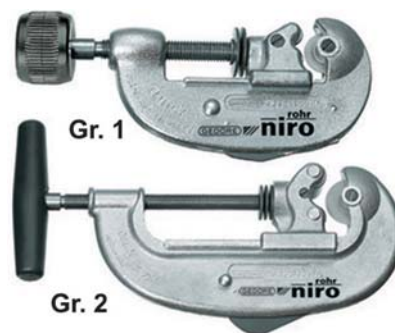
Spare wheels for Art. 1057 G.

wheel Ø	mm	<b>20</b>	<b>32</b>
For pipe cutter size		32	65
<b>O1057G</b>	Each	<b>29,50</b>	<b>48,70</b>

**GEDORE**

**INOX**

**1057G**



**3**

**PIPE CUTTERS**

**Prod. SCU**

Forged steel body.

With one wheel for steel pipes and 2 guides.

Size		<b>1.1/4</b>	<b>2</b>	<b>3</b>
For gas and water pipes Ø	inches	1/8-1.1/4	1/8-2	1-3
<b>1063G</b>	Each	<b>62,10</b>	<b>88,30</b>	<b>219,00</b>

Spare wheels for pipe cutters Art. 1063 G

Size		<b>1.1/4</b>	<b>2</b>	<b>3</b>
<b>O1063G</b>	Each	<b>7,50</b>	<b>8,76</b>	<b>19,50</b>

**SCU**

**1063G**



Forged steel body.

With 1 wheel for stainless steel pipes and 2 rollers.

Size		<b>1.1/4</b>	<b>2</b>	<b>3</b>
For gas and water pipes Ø	inches	1/8-1.1/4	1/8-2	1-3
<b>1063GE</b>	Each	<b>66,70</b>	<b>105,00</b>	<b>243,00</b>

Spare wheels for pipe cutter Art. 1063 GE.

Size		<b>1.1/4</b>	<b>2</b>	<b>3</b>
<b>O1063GE</b>	Each	<b>13,10</b>	<b>15,20</b>	<b>31,60</b>

**SCU**

**INOX**

**1063GE**



**Orig. Sturem**

Forged steel body.

With cutting wheel made of high-resistance steel and 2 guide rollers.

For cutting of steel pipes.

Size		<b>2</b>	<b>4</b>
For pipes Ø	inches	1/8-2	1.1/4-4
<b>1064G</b>	Each	<b>113,00</b>	<b>175,00</b>

**STUREM**

**1064G**



**SPARE PARTS FOR PIPE CUTTERS ART. 1064 G 2-4.**

Spare wheel for steel pipes.

Size		<b>2</b>	<b>4</b>
<b>1066A</b>	Each	<b>11,40</b>	<b>16,60</b>

**STUREM**

**STEEL**

**1066A**



Spare wheel for stainless steel pipes.

Size		<b>2</b>
<b>1066E</b>	Each	<b>11,90</b>

**STUREM**

**INOX**

**1066E**



Spare wheel for cast iron pipes.

Size		<b>2</b>	<b>4</b>
<b>1066G</b>	Each	<b>10,50</b>	<b>16,60</b>

**STUREM**

**CAST IRON**

**1066G**



**1066L****STUREM****MEPLA**

Spare wheel for plastic and Mepla pipes.

Size		<b>2</b>
<b>1066L</b>	Each	<b>12,30</b>

Wheel pins.

Size		<b>2</b>	<b>4</b>
<b>O1066P</b>	Each	<b>5,44</b>	<b>5,44</b>

**RATCHET PIPE CUTTERS****1067A****SCU****Prod. SCU**

Rotary ratchet wheel cutting manual feed model, which is particularly suitable for working in tight spaces.

Rigid nylon body reinforced with fibre glass.

Steel roller for cutting pipes made of brass, copper, aluminium, PVC. Includes one additional wheel (excl. Gr. 1) which is positioned inside the handle.

Size		<b>1</b>	<b>2</b>	<b>3</b>
For pipes Ø	mm	3-13	6-23	8-29
For pipes Ø	inches	1/8-1/2	1/4-7/8	5/16-1.1/8
<b>1067A</b>	Each	<b>29,90</b>	<b>38,30</b>	<b>46,30</b>

Spare wheels. In packs of 2 pcs, not sold separately.

Size		<b>1</b>	<b>2</b>
For pipes cutter Art.		1067A 1	1067A 2-3
<b>O1067A</b>	Per pack	<b>8,00</b>	<b>11,20</b>

**1067G****GEDORE****NIROSTA****Orig. Gedore-Dako - Art. 224021**

Rotating ratchet type with automatic cutting wheel feed, particularly suitable for confined areas. Made from die-cast aluminium microfusion. High-alloy steel wheel suitable for cutting stainless steel and NIROSTA pipes, long-lasting sharpening. Ideal for cutting exhaust pipes in the car industry. Additional wheel in the clamping adjustment knob.

For pipes Ø	mm	25-66
For pipes max. thickness	mm	5
Overall length	mm	360
<b>1067G</b>	Each	<b>1.010,00</b>

Spare wheels for Art. 1067 G.

<b>O1067G</b>	Each	<b>51,40</b>
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**CHAIN PIPE CUTTERS****1068GA****SCU****Prod. SCU**

With hardened alloy steel wheels. Heavy steel body.

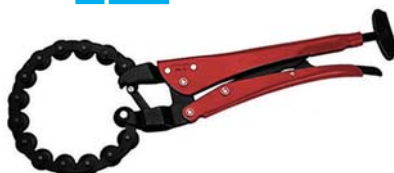
Screw device for precise chain clamping and snap-lock.

Suitable for cutting pipes in confined areas with a 90° alternate movement.

For pipes Ø	mm	19-75
For pipes max. thickness	mm	2,5
Overall length	mm	250
<b>1068GA</b>	Each	<b>83,30</b>

Spare chains for Art. 1068 GA.

<b>O1068GA</b>	Each	<b>59,90</b>
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**1068GB****SCU**

Product description as Art. 1068GA

For pipes Ø	mm	19-115
For pipes max. thickness	mm	6
Overall length	mm	300
<b>1068GB</b>	Each	<b>120,00</b>

Spare chains for Art. 1068 GB.

<b>O1068GB</b>	Each	<b>92,80</b>
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**1071GE****GEDORE****Orig. Gedore - Art. 210015**

Steel body and mesh. High-resistance steel wheels.

Pipe cutter complete with wheels for steel and cast iron pipes.

Size		<b>150</b>
For pipes Ø	mm	135 to 175
Number of wheels and handles		5
<b>1071GE</b>	Each	<b>872,00</b>

**Orig. Gedore - Art. 210200**

Spare wheels for Art. 1071 GE, to cut steel and cast iron pipes.  
50mm diameter.

<b>1071GF</b>	Each	<b>35,30</b>
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**1071GF**

CAST IRON



STEEL

**Orig. Gedore - Art. 210600**

Replacement pins for wheels Art. 1071 GF.

<b>1071GG</b>	Each	<b>7,12</b>
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**1071GG**  
*new*



**3**

**Orig. Gedore - Art. 210500**

Replacement links, without wheels, for Art. 1071 GE 150.

<b>1071GH</b>	Each	<b>28,30</b>
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**1071GH**  
*new*



It is possible to decrease or increase the capacity of the pipe cutter Art. 1071GE 150, removing or adding wheels, pins and links as the following table:

- For pipes Ø 85 mm to 115: remove 2 pcs. each spare part.
- For pipes Ø 110 to 145 mm: remove 1 pc. each spare part
- For pipes Ø 165 mm to 200: add 1 pcs. each spare part.
- For pipes Ø 190 to 225 mm: add 2 pcs. each spare part.
- For pipes Ø 220 to 250 mm: add 3 pcs. each spare part.
- For pipes Ø 240 to 280 mm: add 4 pcs. each spare part.
- For pipes Ø 270 to 300 mm: add 5 pcs. each spare part.
- For pipes Ø 295 mm to 330: add 6 pcs. each spare part.

**HINGED PIPE CUTTERS**

**Prod. SCU**

Hinged model with openings for the tube to be inserted quickly.  
Special cast steel bodywork. Can be used with ratchet movements of between 90° and 110°, and is particularly suitable for work which involves cutting pipes, or in locations where access is difficult.

Milled side rails.

Pipe cutters come complete with 4 wheels for steel pipes, which are interchangeable.

Size		4	6	8	12
For pipes Ø	inches	2-4	4-6	6-8	8-12
For pipes Ø	mm	60-125	114-182	168-240	219-356
Overall length	mm	550	730	830	870
Weight	Kg	6	9	11	16
<b>1073G</b>	Each	<b>1.050,00</b>	<b>1.270,00</b>	<b>1.780,00</b>	<b>2.130,00</b>



**1073G**



Spare wheels, per Art. 1073 G, to cut steel pipes.

Size		4	6	8	12
<b>1073GA</b>	Each	<b>27,70</b>	<b>27,70</b>	<b>27,70</b>	<b>27,70</b>



**1073GA**



STEEL

Spare wheels, per Art. 1073 G, to cut stainless steel pipes.

Size		4	6	8	12
<b>1073GB</b>	Each	<b>30,90</b>	<b>30,90</b>	<b>30,90</b>	<b>30,90</b>



**1073GB**



INOX

Spare wheels, for Art. 1073 G, to cut cast iron pipes.

Size 12 is also suitable for sizes 6 and 8.

Size		4	12
<b>1073GC</b>	Each	<b>40,50</b>	<b>40,50</b>



**1073GC**



AST IRON

### PIPE REAMERS

**1079G** SCU

**Prod. SCU**

For internally/externally reaming pipes made of copper, brass, light alloys, PVC Ø 3 to 42mm. Body in resistant synthetic material, knives in hardened steel.

1079G	Each	9,80
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**1080G** SCU


For internally/externally reaming pipes made of copper, brass, light alloys, PVC Ø 4 to 40mm. Body in high-resistance aluminium alloy, knives in hardened steel.

1080G	Each	17,50
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**1082** SCU

**INOX**


For internally/externally reaming pipes made of copper, brass, iron, steel, INOX, aluminium, light alloys, plastic, Ø 10 to 54mm.

Body in very resistant fiberglass, knives in hardened steel.

1082	Each	62,80
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**1083** SCU

**INOX**


For internally/externally reaming pipes made of copper, brass, iron, steel, INOX, aluminium, light alloys, plastic, Ø 10 to 54mm.

Body in aluminium, strong clamping, knives in hardened steel.

1083	Each	89,70
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### CHAMFERING MILLING CUTTERS

**1085** SCU

**INOX**

**Prod. SCU**

For internally chamfering pipes made of copper, brass, iron, steel, INOX, aluminium, light alloys and multi-layer pipes, Ø 10 to 50mm. Head in HSS hardened steel with cutting edges suitable for uniform chamfering even on multi-layer pipes of large dimensions. Plastic handle.

1085	Each	46,70
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*All items are in sequence. It's very easy to find them!*

Drill bits for walls  
Hammer drills/rotary core bits  
Electric core drill machines  
RATIO adapters



From **1331G**  
To **1352G**

Valve lappers  
Valve lappers machines



From **1378G**  
To **1380G**

**DRILL BITS FOR STONES AND WALLS**

1331G




Prod. SCU

Standard type.

With standard HARD METAL tool bit for rotation and percussion.

Suitable for drilling stones, walls, tiles, paving tiles, ceramic surfaces, concrete, Klinker. Chromatized finish.

For bits up to Ø 13mm, max connection Ø 10mm.

For bits Ø 14mm, connection Ø 13mm.

Type		4	5	5,5	6	6L	6,5	7	8	8L	8,5	9	10	10L	11	12
For bores Ø	mm	4	5	5,5	6	6	6,5	7	8	8	8,5	9	10	10	11	12
Overall length	mm	75	85	85	100	150	100	100	120	200	120	120	120	200	150	150
<b>1331G</b>	Each	<b>1,34</b>	<b>1,36</b>	<b>1,38</b>	<b>1,40</b>	<b>2,08</b>	<b>1,52</b>	<b>1,56</b>	<b>1,76</b>	<b>2,70</b>	<b>1,62</b>	<b>2,12</b>	<b>2,28</b>	<b>3,04</b>	<b>3,22</b>	<b>3,22</b>

Type		12L	13	14	14L	16	16L	20
For bores Ø	mm	12	13	14	14	16	16	20
Overall length	mm	200	150	150	200	150	200	160
<b>1331G</b>	Each	<b>5,08</b>	<b>4,20</b>	<b>4,84</b>	<b>5,76</b>	<b>6,44</b>	<b>8,02</b>	<b>10,20</b>

Size 8,5 running out of stock.

1331GB




Professional type.

With standard HARD METAL tool bit for rotation and percussion.

Spiral bit with long engagement for better penetration. Suitable for drilling stones, walls, tiles, paving tiles, ceramic surfaces, concrete, Klinker. Chromatized finish.

For bits up to Ø 18mm, max connection Ø 10mm

For bits Ø 20mm, connection Ø 13mm.

Type		3	4	5	5L	5,5	6	6L	6,5	7	8	8L	9	10	10L	11
For bores Ø	mm	3	4	5	5	5,5	6	6	6,5	7	8	8	9	10	10	11
Overall length	mm	70	75	85	150	85	100	150	100	100	120	200	120	120	200	150
<b>1331GB</b>	Each	<b>1,68</b>	<b>1,62</b>	<b>1,66</b>	<b>2,48</b>	<b>1,74</b>	<b>1,74</b>	<b>2,70</b>	<b>1,84</b>	<b>2,06</b>	<b>2,34</b>	<b>3,66</b>	<b>2,82</b>	<b>3,18</b>	<b>4,84</b>	<b>4,40</b>

Type		12	13	14	15	16	18	20
For bores Ø	mm	12	13	14	15	16	18	20
Overall length	mm	150	150	150	150	150	160	160
<b>1331GB</b>	Each	<b>4,84</b>	<b>5,90</b>	<b>6,38</b>	<b>8,06</b>	<b>8,06</b>	<b>9,86</b>	<b>11,10</b>

When stocks are depleted, we will provide the drills sandblasted instead of chromated.

1332G




Professional type.

With standard HARD METAL tool bit for rotation and percussion.

High-power spiral bit for better penetration. Suitable also for battery drills. For drilling stones, walls, tiles, paving tiles, ceramic surfaces, concrete, Klinker. Chromatized finish.

For bits up to Ø 16mm, max connection Ø 10mm.

For bits Ø 18 and 20mm, connection Ø 12mm.

Type		4	5	5L	6	6L	7	8	8L	10	10L	12	13	14	16	18	20
For bores Ø	mm	4	5	5	6	6	7	8	8	10	10	12	13	14	16	18	20
Overall length	mm	75	85	150	100	150	100	120	200	120	200	150	150	150	150	160	160
<b>1332G</b>	Each	<b>1,42</b>	<b>1,48</b>	<b>2,66</b>	<b>1,72</b>	<b>2,78</b>	<b>2,32</b>	<b>2,32</b>	<b>5,66</b>	<b>3,02</b>	<b>6,56</b>	<b>4,16</b>	<b>6,96</b>	<b>7,20</b>	<b>9,98</b>	<b>12,90</b>	<b>16,40</b>

**DRILL BITS FOR HARD STONES AND WALLS**

1332GB




Prod. SCU

Professional/industrial type.

With HARD METAL tool bit for rotation and percussion.

With strengthened cutting edge and heavy-duty bearing. Made of forged and hardened bright steel. Strengthened trapezoidal twist drill to ensure a very high material removal rate. For drilling very hard stones such as granite, basalt, porphyry and also compressed concrete of great hardness. Suitable for drilling metals with strength up to 180 kg/mm<sup>2</sup>, to be used on static drills.

For bits up to Ø 18mm, max connection Ø 10mm.

For bits Ø higher than 18mm, connection Ø 13mm.

Type		3	4	4,5*	5	5L	5,5	5,5L*	6	6L	6,5	6,5L*	7	7L*	8	8L
For bores Ø	mm	3	4	4,5	5	5	5,5	5,5	6	6	6,5	6,5	7	7	8	8
Overall length	mm	85	85	85	95	150	95	150	100	150	100	150	100	150	120	200
<b>1332GB</b>	Each	<b>3,64</b>	<b>3,76</b>	<b>3,72</b>	<b>3,84</b>	<b>7,42</b>	<b>3,86</b>	<b>7,12</b>	<b>3,94</b>	<b>7,96</b>	<b>4,00</b>	<b>8,72</b>	<b>4,14</b>	<b>8,62</b>	<b>5,00</b>	<b>9,68</b>

Type		9	10	10L	11*	12	12L	13*	14	14L*	15*	16	18	20	22*	25*
For bores Ø	mm	9	10	10	11	12	12	13	14	14	15	16	18	20	22	25
Overall length	mm	120	120	200	150	150	220	150	150	260	150	150	160	160	160	160
<b>1332GB</b>	Each	<b>5,98</b>	<b>6,82</b>	<b>11,70</b>	<b>8,04</b>	<b>10,20</b>	<b>15,30</b>	<b>13,10</b>	<b>15,10</b>	<b>18,60</b>	<b>18,10</b>	<b>20,70</b>	<b>24,40</b>	<b>27,60</b>	<b>37,40</b>	<b>46,10</b>

\* Sizes running out of stock.

**MULTI-PURPOSE DRILL BITS**

**Prod. SCU**

With HARD METAL tool bit. Rotation-only type.

The good sharpening of the cutting edges ensures accurate spot-drilling, reduced pressure, quick drilling and long-life bit. Asymmetric twist drill for very accurate material removal.

Suitable for drilling walls, tiles, ceramic surfaces, Klinker, Eternit, laminated plastic, marble, aluminium, iron and wood. Made of bright steel.

For bits up to Ø 12mm, max connection Ø 10mm.

**SCU**

**1333GA**



Type		4	5	6	6L	7	8	8L	10	10L	12
For bores Ø	mm	4	5	6	6	7	8	8	10	10	12
Overall length	mm	75	85	100	150	100	120	200	120	200	150
<b>1333GA</b>	<b>Each</b>	<b>5,98</b>	<b>6,40</b>	<b>7,02</b>	<b>10,40</b>	<b>7,94</b>	<b>8,72</b>	<b>12,90</b>	<b>11,50</b>	<b>16,50</b>	<b>15,70</b>

**PILOT DRILL BITS**

**Prod. SCU**

With HARD METAL tool bit and center drill.

Rotation-only type. Very high efficiency due to the shape of the cutting edge. Made of bright steel, with corrosion-proofing protection.

For non-metallic materials. Suitable for walls (except for reinforced concrete), marble, concrete, plywood, laminated plastic, ceramic surfaces, glass, porcelain and similar.

Max connection Ø 10 mm.

**SCU**

**1334G**



For bores Ø	mm	3	4	5	6	8	10	12
Overall length	mm	85	85	95	100	120	120	150
<b>1334G</b>	<b>Each</b>	<b>5,58</b>	<b>5,38</b>	<b>7,34</b>	<b>7,60</b>	<b>8,42</b>	<b>10,70</b>	<b>12,70</b>

**UNIVERSAL DRILL BITS**

**Prod. SCU**

With HARD METAL tool bit and diamond-shaped cutting edge. Strengthened trapezoidal twist drill, for a very high material removal rate.

Standard type for rotation and percussion. For drilling very hard stones such as granite, basalt, porphyry and also compressed concrete of great hardness.

For metallic and non-metallic materials, marble, plywood, laminated plastic, ceramic surfaces, glass, porcelain and similar. Made of bright steel.

Max connection Ø 10 mm.

**SCU**

**1334GB**



Type		3	4	5	5L	5,5	6	6L	6,5	8	8L	10	10L	12	12L	14
For bores Ø	mm	3	4	5	5	5,5	6	6	6,5	8	8	10	10	12	12	14
Overall length	mm	70	85	85	150	85	100	150	100	120	200	120	200	150	220	260
<b>1334GB</b>	<b>Each</b>	<b>4,54</b>	<b>5,08</b>	<b>5,04</b>	<b>7,32</b>	<b>4,94</b>	<b>4,90</b>	<b>7,86</b>	<b>5,14</b>	<b>5,84</b>	<b>9,68</b>	<b>6,98</b>	<b>12,90</b>	<b>11,20</b>	<b>16,80</b>	<b>21,10</b>

For the same type with SDS-plus see Art. 1340 GL.

**SPECIAL DRILL TIPS FOR PORCELAIN STONEWARE**

**Prod. SCU**

Diamond-edged type for drilling porcelain stoneware tiles. If used according to the indications provided, several drills can be made even on hard and more abrasive tiles.

Connection Ø 10mm. Total length 55mm.

**SCU**

**1334GC**



**DIAMONDED**

For bores Ø	mm	5	6	7	8	10
<b>1334GC</b>	<b>Each</b>	<b>19,40</b>	<b>20,50</b>	<b>21,70</b>	<b>22,80</b>	<b>24,10</b>



**4**

**ASSORTMENTS OF DRILL TIPS**

1334GD




Prod. SCU

Wall-mountable.

Set of 5 drill bits Art 1331G: 4-5-6-8-10 mm.

<b>1334GD</b>	Each	<b>11,50</b>
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**4**  
 1334GF  
 1334GL  
 1334GS  
 1334GT




Product description as Art. 1334GD

Set of 4 drill bits Art 1332G: 5-6-8-10 mm.

<b>1334GF</b>	Each	<b>8,50</b>
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Product description as Art. 1334GD

Set of 4 drill bits Art 1332GB: 5-6-8-10 mm.

<b>1334GL</b>	Each	<b>22,50</b>
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Product description as Art. 1334GD

Set of 4 drill bits Art 1334G: 5-6-8-10 mm.

<b>1334GS</b>	Each	<b>34,00</b>
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Product description as Art. 1334GD

Set of 4 drill bits Art 1334GB: 5-6-8-10 mm.

<b>1334GT</b>	Each	<b>24,10</b>
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1334GTA




Comes in a transparent plastic bag.

6 assorted tips in accordance with Art. 1332 GB in mm 3-4-5-6-8-10 sizes.

<b>1334GTA</b>	Each	<b>27,00</b>
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1334GTE




Hangable pack.

Assortment of 5 drill tips Art. 1334 GC 5-6-7-8-10mm.

<b>1334GTE</b>	Each	<b>112,00</b>
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**GLASS DRILL BITS**

1334GV




Prod. SCU

HARD METAL spade drill bit. Dressable cutting edge.

Steel shank. To be used with both stationary electric and portable drills.

For bores Ø	mm	3	4	5	6	7	8	9
<b>1334GV</b>	Each	<b>3,28</b>	<b>3,36</b>	<b>3,46</b>	<b>3,78</b>	<b>3,86</b>	<b>4,00</b>	<b>4,18</b>

For bores Ø	mm	10	12
<b>1334GV</b>	Each	<b>5,70</b>	<b>7,72</b>



**SPECIAL DRILL TIPS FOR PORCELAIN STONWARE**

**Prod. SCU**

Light and handy, it ensures a proper bit cooling during hole drilling by using water or coolant. To be installed on the drill collar. Provided with nozzle adjustable by means of flexible pipe and cock to ensure precision and avoid waste. Equipped with additional air valve to stop the flow, if necessary, without operating the cock. Especially useful to drill tiles on vertical walls. Necessary when using bits Art. 1334 GC, that require a great cooling capacity.

**1334GZ** Each **16,50**



**1334GZ**

**DRILL BITS FOR STONES AND WALLS - LONG TYPE**

**Prod. SCU**

With HARD METAL tool bit, for rotation and percussion.  
 . Suitable for stones, concrete, wall. marble and ceramic surfaces.  
 Chromatized finish.



**1335G**

Type		8	8L	10	10L	12	12L	14	14L	16	16L	18	18L
For bores Ø	mm	8	8	10	10	12	12	14	14	16	16	18	18
Useful length	mm	350	550	350	550	350	550	350	550	350	550	350	550
Overall length	mm	400	600	400	600	400	600	400	600	400	600	400	600
Drive Ø	mm	7,3 cyl.	7,3 cyl.	9,3 cyl.	9,3 cyl.	10	10	10	10	10	10	10	10
						hexag.	hexag.	hexag.	hexag.	hexag.	hexag.	hexag.	hexag.
<b>1335G</b>	<b>Each</b>	<b>6,78</b>	<b>10,70</b>	<b>8,64</b>	<b>12,90</b>	<b>10,40</b>	<b>15,10</b>	<b>13,10</b>	<b>17,40</b>	<b>15,10</b>	<b>19,40</b>	<b>17,80</b>	<b>24,40</b>

Type		20	20L	22	22L	25	25L	28	28L	30	30L	32	35
For bores Ø	mm	20	20	22	22	25	25	28	28	30	30	32	35
Useful length	mm	350	550	350	550	350	550	350	550	350	550	350	550
Overall length	mm	400	600	400	600	400	600	400	600	400	600	400	600
Drive Ø	mm	10	10	12	12	12	12	12	12	12	12	12	12
		hexag.	hexag.	hexag.	hexag.	hexag.	hexag.	hexag.	hexag.	hexag.	hexag.	hexag.	hexag.
<b>1335G</b>	<b>Each</b>	<b>20,80</b>	<b>27,10</b>	<b>25,40</b>	<b>31,90</b>	<b>31,80</b>	<b>40,00</b>	<b>39,80</b>	<b>47,70</b>	<b>42,80</b>	<b>51,60</b>	<b>44,00</b>	<b>55,60</b>

Type from 18 to 20L may be used with extension Art. 1336 GT.  
 Type from 22 to 35 may be used with extension Art. 1336 GV.  
 Sizes 28, 28L, 30, 30L, 32 and 35 running out of stock.

**EXTENSIONS**

**Prod. SCU**

Extensions for drill bits 1335 G type 18 to 20L. with 10mm hexagonal shank.  
 Working length 370mm.

**1336GT** Each **45,90**

Extensions for drill bits 1335 G type 22 to 35 with 12mm hexagonal shank and for core bits 1337GN with shank 1337 GP/1337 GP 1.  
 Working length 370 mm.

**1336GV** Each **47,20**



**1336GT**  
**1336GV**

**ROTARY CORE BITS FOR STONES AND WALLS**

**Prod. SCU**

With HARD METAL tool bit, for rotation and percussion.  
 . Suitable for stones, rocks, concrete conglomerates.  
 Hole depth: 50mm. Internal thread M16.  
 Core bit only.

Nibbling machine crown Ø	mm	25	30	35	40	50	68	80
<b>1337GN</b>	<b>Each</b>	<b>49,80</b>	<b>49,80</b>	<b>52,50</b>	<b>52,50</b>	<b>55,90</b>	<b>68,80</b>	<b>79,70</b>

Nibbling machine crown Ø	mm	90	100
<b>1337GN</b>	<b>Each</b>	<b>92,10</b>	<b>150,00</b>



**1337GN**

**SHANKS FOR CORE BITS**

1337GP

SCU



**Prod. SCU**  
Shanks for core bits Art.1337 GN  
Hexagonal shank 12mm. M16 external thread.  
Total length 100 mm.

<b>1337GP</b>	Each	<b>15,90</b>
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1337GP 1

SCU



Product description as Art. 1337GP  
Total length 300 mm.

<b>1337GP 1</b>	Each	<b>26,20</b>
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1337GR

SCU



Shanks for core bits Art.1337 GN  
SDS-plus. M16 external thread.  
Total length 110 mm.

<b>1337GR</b>	Each	<b>21,20</b>
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1337GR 1

SCU



Product description as Art. 1337GR  
Total length 300 mm.

<b>1337GR 1</b>	Each	<b>28,60</b>
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**PILOT DRILL BITS**

1337GS

SCU



**Prod. SCU**  
Pilot drills for core bits Art. 1337 GN  
With HARD METAL tool bit. Diameter 9mm. Total length 120mm.

<b>1337GS</b>	Each	<b>3,22</b>
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**REINFORCED CONCRETE DRILL BITS FOR PERCUSSION HAMMERS**

1338GBR

SCU



CUT ONLY THE ROD IRON



**Prod. SCU**  
Very strong HARD METAL tool bits, tightly welded for quick drilling - without breaking - of reinforced-concrete rods up to a diameter of 10mm. To be used when the drill for walls meets the iron reinforcements with risk of break. Not suitable for drilling walls, stones, rocks etc. With hole for the ejection of rod parts jammed inside the drill. Threaded connection suitable for several kinds of percussion hammers through Universal Ratio adaptor Art. 1338 GE - 1338 GK.

For bores Ø	mm	12	14	16	18	20	25	28	30
Useful length	mm	190	190	190	190	190	190	190	190
<b>1338GBR</b>	Each	<b>140,00</b>	<b>140,00</b>	<b>169,00</b>	<b>181,00</b>	<b>185,00</b>	<b>210,00</b>	<b>216,00</b>	<b>228,00</b>

From a diameter of 25 mm drill bits may be used on extensions Art. 1338 GP.

**ROTARY CORE BITS FOR PERCUSSION HAMMERS**

1338GC

SCU



**Prod. SCU**  
Pilot drill bit, with HARD METAL tool bit.  
Suitable for walls, concrete conglomerates, stones, rocks and reinforced concrete.  
Interchangeable centering pilot drill tip.  
Threaded shank suitable for several kinds of percussion hammers through Universal Ratio adaptor Art. 1338 GE.  
Core bit total length 105mm.  
Core bit with pilot drill bit.

Nibbling machine crown Ø	mm	40	50	65	80	90	100	125	150
<b>1338GC</b>	Each	<b>121,00</b>	<b>133,90</b>	<b>146,90</b>	<b>171,90</b>	<b>183,90</b>	<b>207,90</b>	<b>269,90</b>	<b>331,90</b>

Product description as Art. 1338GC

Core bit without pilot drill bit.

Nibbling machine crown Ø	mm	40	50	65	80	90	100	125	150
<b>1338GCA</b>	Each	98,10	111,00	124,00	149,00	161,00	185,00	247,00	309,00

**SCU**

**1338GCA**



Pilot drill bit, with HARD METAL tool bit.

Ø	mm	12
Length	mm	155
<b>1338GCB</b>	Each	22,90

For extensions see Art. 1338 GP.

**SCU**

**1338GCB**



4

**NIBBLING HEADS FOR PERCUSSION HAMMERS**

**Prod. SCU**

Pilot drill bit, with HARD METAL inserts.

Excellent performance with little effort. A new drilling technique to obtain deep holes with a large diameter in several kinds of materials such as concrete conglomerates, walls, stones, rocks, marbles, granites, Klinker and reinforced concrete. With threaded bore for pilot drill bit, discharge spiral bit and Universal Ration adaptor Art. 1338 GE.

Head without pilot drill tip.

Nibbling machine head Ø	mm	35	42	52	65	80	90	100
<b>1338GDA</b>	Each	133,00	156,00	200,00	274,00	295,00	326,00	380,00

Nibbling machine head Ø	mm	110	125	150
<b>1338GDA</b>	Each	380,00	549,00	783,00

**SCU**

**1338GDA**



DISCHARGE SPIRAL BITS FOR HEADS ART. 1338 GDA

Made of forged and ground steel, with Ratio adaptor.

. Trapezoidal strengthened twist drill for very high material removal rate. Working length 80mm. Total length 115mm.

Spiral bit without pilot drill tip.

spiral Ø	mm	32	47	63	78
For nibbling heads Ø	mm	35 e 42	52 e 65	65 e 80	80 to 150
<b>1338GDE</b>	Each	54,20	77,10	102,00	122,00

Interchangeable threaded screw starting from size with diameter 30mm. Suitable for Art. 1338 GDE.

<b>OB1338GDE</b>	Each	14,30
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**SCU**

**1338GDE**



PILOT DRILL BITS FOR HEADS Art. 1338GDA

With HARD METAL tool bit. Trapezoidal strengthened twist drill.

Diameter 18mm.

Useful length	mm	50	100
Overall length	mm	125	175
<b>1338GDL</b>	Each	46,30	51,10

For extensions see Art. 1338 GP.

**SCU**

**1338GDL**



GREASE FOR RATIO THREADS.

Special grease for lubrication of Ratio system threads, for easy assembly/disassembly of components, avoiding any breaking.

<b>1338GDP</b>	Each	10,70
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Product running out of stock.

**SCU**

**1338GDP**



## UNIVERSAL RATIO ADAPTORS

1338GE 1 **SCU**

## Prod. SCU

For core bits and nibbling heads Art. 1338 GC - 1338 GDA/E/L and extensions Art. 1338 GP.  
Universal adaptor to combine Heller tools with threaded RATIO shank with the following types of percussion heavy hammers:

Type:

AEG PH 38/350/PHD 26/38 - B + D HD 2022/32/38 - BOSCH 11202/11203/12202 - 11204/UBH 10/50 11206/UBH 6/35D - 11208/UBH 6/35, 11209/UBH -12/50 - METABO 1130S/1131S - UPAT PLUS 1562/1562 DS - MILWAUKEE U.S. and all models having straight slot chuck.

1338GE 1 Each 38,30

Product running out of stock.

1338GE 2 **SCU**

Product description as Art. 1338GE 1

BLACK &amp; DECKER 5045/5050

1338GE 2 Each 37,10

1338GE 3 **SCU**

Product description as Art. 1338GE 1

BOSCH 11201 - METABO 1130A - 1126

1338GE 3 Each 37,10

1338GE 4 **SCU**

Product description as Art. 1338GE 1

HILTI TE 42/52/60/72/92/54/56/74 - BOSCH GB H5/40- 8/65 DCE - KANGO 430 SM and all models with SDS-Max.

1338GE 4 Each 38,30

1338GE 5 **SCU**

Product description as Art. 1338GE 1

HILTI TORNA 765

1338GE 5 Each 37,10

1338GE 8 **SCU**

Product description as Art. 1338GE 1

KANGO 500/501/625/627/637/750/430 C - PEUGEOT 25011

1338GE 8 Each 38,30

Product running out of stock.

1338GE 9 **SCU**

Product description as Art. 1338GE 1

KANGO 950-978 - HITACHI DH 50 SA - MAKITA ES 19

1338GE 9 Each 38,30

Product running out of stock.

1338GE 10 **SCU**

Product description as Art. 1338GE 1

MAKITA 8022B/8035NB/HR 3500 - HITACHI VRY 38 - HITACHI DH28Y - DH38YB - UPAT T1738 - HR 3850/HR 3520 - HITACHI DH 38 YF - DH 40 YB

1338GE 10 Each 38,30

Product running out of stock.

1338GE 11 **SCU**

Product description as Art. 1338GE 1

ROCKWELL 602 - SKIL 728/732 - SPIT 350

1338GE 11 Each 37,10

1338GE 12 **SCU**

Product description as Art. 1338GE 1

SKIL 726 - MILWAUKEE 5300

1338GE 12 Each 37,10

Product running out of stock.

1338GE 17 **SCU**

Product description as Art. 1338GE 1

WACKER EHB/EHUB 10Y - EHB 10/220 - METABO Mh E 105 - IMPEX DS 120

1338GE 17 Each 38,30

Product running out of stock.

1338GE 18 **SCU**

Product description as Art. 1338GE 1

DUSS P 20/P 28/PN 28S

1338GE 18 Each 38,30

Product running out of stock.

Product description as Art. 1338GE 1  
DUSS PO 32/P36/P60

**1338GE 19** Each **38,30**

Product running out of stock.

**SCU**

**1338GE 19**



For rotary core bits Art. 1338 GC.

Universal adaptor to combine a.m. bits with the following types of percussion light hammers:

Type:

AEG 2000 PHE 16/20/200 - BLACK+DECKER HD 2016 - BOSCH PBH 14/20 - BOSCH 11205/UBH 4/26SE - BOSCH 11207/UBH 3/20/24E - BOSCH 11210/UBH 2/14/20SE - BOSCH 11211/UBH 4/26SE - HILTI TE 12/TE17/TE22 - KANGO 327/422 - MAKITA HR 1600 - METABO 1115 S/BHE 6020S - UPAT MARTO RW 12 - UPAT PLUS T1716E - WUERTH H16 - KRESS and all models with SDS-plus.

**1338GK 1** Each **38,30**

Product running out of stock.

**SCU**

**1338GK 1**



Product description as Art. 1338GK 1

BOSCH 11205/UHB 4/26 - 2DS

**1338GK 11** Each **38,30**

Product running out of stock.

**SCU**

**1338GK 11**



**RATIO EXTENSIONS**

**Prod. SCU**

Suitable for core bits and nibbling heads Art. 1338 GC - 1338 GDA/E/L.

Useful length mm 280  
Overall length mm 320

**1338GP** Each **85,70**

**SCU**

**1338GP**



**DRILL BITS FOR PERCUSSION HAMMERS**

**Prod. SCU**

With HARD METAL strengthened tool bit and 4 cutting edges.

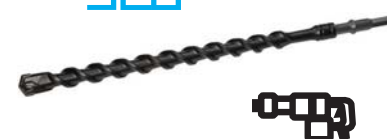
Strengthened twist drill with double spiral. Heavy-duty ground and hardened shank.

Suitable for drilling concrete conglomerates, walls, stones and rocks.

For percussion hammers with hexagonal 13mm. chuck such as: MAKITA and HITACHI and also for kinds of hammers with similar connection.

**SCU**

**1339GU**



Type		16A	16B	18	18A	20	20A	22A	24A	25	25A	28A	30A	32A	35A
For bores Ø	mm	16	16	18	18	20	20	22	24	25	25	28	30	32	35
Useful length	mm	260	420	270	420	270	420	420	420	270	420	420	420	420	420
Overall length	mm	400	550	400	550	400	550	550	550	400	550	550	550	550	550
<b>1339GU</b>	<b>Each</b>	<b>27,70</b>	<b>31,10</b>	<b>28,10</b>	<b>31,90</b>	<b>29,20</b>	<b>32,80</b>	<b>35,10</b>	<b>35,90</b>	<b>31,50</b>	<b>41,60</b>	<b>46,60</b>	<b>55,80</b>	<b>59,10</b>	<b>71,10</b>

Product running out of stock.

With HARD METAL strengthened tool bit and 4 cutting edges. Peculiar shaping for the highest penetration rate and long life (except for 12 mm - 12A - 12B - 14 - 14A - 15 - 15A). Strengthened twist drill for very good material removal. Ground and forged shank.

Suitable for drilling concrete conglomerates, walls, stones and rocks.

For percussion hammers with SDS-max, BOSCH, HILTI, MARTO clutch and also for other kinds of hammers with similar connection.

**SCU**



**1339GZ**



Type		12	12A	12B	14	14A	15	15A	16	16A	16B	18	18A	18B	19	20
For bores Ø	mm	12	12	12	14	14	15	15	16	16	16	18	18	18	19	20
Useful length	mm	200	400	550	200	400	200	400	200	400	800	200	400	800	200	200
Overall length	mm	340	540	690	340	540	340	540	340	540	920	340	540	940	340	320
<b>1339GZ</b>	<b>Each</b>	<b>28,40</b>	<b>31,10</b>	<b>71,90</b>	<b>39,30</b>	<b>32,60</b>	<b>26,90</b>	<b>46,20</b>	<b>43,10</b>	<b>53,40</b>	<b>99,70</b>	<b>44,20</b>	<b>55,30</b>	<b>98,20</b>	<b>69,10</b>	<b>46,10</b>

Type		20A	20B	22	22A	22B	24	24A	25	25A	25B	26	28	28A	28B	30
For bores Ø	mm	20	20	22	22	22	24	24	25	25	25	26	28	28	28	30
Useful length	mm	400	800	200	400	800	200	400	200	400	800	200	250	450	550	250
Overall length	mm	520	920	320	520	920	320	520	320	520	920	320	370	570	670	370
<b>1339GZ</b>	<b>Each</b>	<b>58,80</b>	<b>78,50</b>	<b>49,10</b>	<b>57,20</b>	<b>79,70</b>	<b>47,80</b>	<b>61,70</b>	<b>53,90</b>	<b>62,20</b>	<b>94,10</b>	<b>91,40</b>	<b>67,20</b>	<b>79,50</b>	<b>99,50</b>	<b>65,80</b>

Type		30A	32	32A	32B	35	35A	35B	38	38A	40	40A	40B	45A	50A
For bores Ø	mm	30	32	32	32	35	35	35	38	38	40	40	40	45	50
Useful length	mm	450	250	450	800	250	450	550	250	450	250	450	800	450	450
Overall length	mm	570	370	570	920	370	570	670	370	570	370	570	920	570	570
<b>1339GZ</b>	<b>Each</b>	<b>83,10</b>	<b>71,90</b>	<b>101,00</b>	<b>144,00</b>	<b>85,80</b>	<b>113,00</b>	<b>132,00</b>	<b>107,00</b>	<b>125,00</b>	<b>118,00</b>	<b>131,00</b>	<b>207,00</b>	<b>195,00</b>	<b>286,00</b>

Type 19 and 50A running out of stock.

## DRILL BITS FOR SDS-PLUS PERCUSSION HAMMERS

1340G

SCU



## Prod. SCU

To be directly inserted in the following types of percussion hammers:

AEG PHE 200, B&D HD 2016, Bosch UBH 3/16, Bosch UBH 3/20 SE, Bosch 3/16 E, UBH 2/14 SE, Hilti TE 12 (up to a diameter of 16mm), Hilti TE 14 17/22, Hitachi VRV 16/VRT 22, and also on those with SDS-plus splined chuck. Adaptable to any other kind of hammer with splined chuck through adaptors Art.1340 GR1/9. For drilling concrete conglomerates, walls, stones, rocks, Klinker and reinforced concrete.

With HARD METAL tool bit, high biting power and strengthened trapezoidal twist drill for good material removal.

Type		<b>4</b>	<b>4A</b>	<b>5</b>	<b>5A</b>	<b>5B</b>	<b>5,5</b>	<b>5,5A</b>	<b>6</b>	<b>6A</b>	<b>6B</b>	<b>6C</b>	<b>6D</b>	<b>6,5</b>	<b>6,5A</b>	<b>6,5B</b>
Ø	mm	4	4	5	5	5	5,5	5,5	6	6	6	6	6	6,5	6,5	6,5
Useful length	mm	50	100	50	100	150	50	100	50	100	150	200	300	50	100	150
Overall length	mm	110	160	110	160	210	110	160	110	160	200	250	360	110	160	210
<b>1340G</b>	Each	<b>4,02</b>	<b>6,52</b>	<b>2,74</b>	<b>3,62</b>	<b>4,56</b>	<b>3,42</b>	<b>3,42</b>	<b>3,00</b>	<b>3,34</b>	<b>4,86</b>	<b>7,02</b>	<b>12,90</b>	<b>3,82</b>	<b>4,12</b>	<b>7,30</b>
Type		<b>7</b>	<b>7A</b>	<b>7B</b>	<b>8</b>	<b>8A</b>	<b>8B</b>	<b>8C</b>	<b>8D</b>	<b>8E</b>	<b>8F</b>	<b>9</b>	<b>9A</b>	<b>10</b>	<b>10A</b>	<b>10B</b>
Ø	mm	7	7	7	8	8	8	8	8	8	8	9	9	10	10	10
Useful length	mm	50	100	150	50	100	150	200	250	400	550	100	150	50	100	150
Overall length	mm	110	160	210	110	160	210	260	310	460	600	160	210	110	160	210
<b>1340G</b>	Each	<b>3,40</b>	<b>4,44</b>	<b>6,78</b>	<b>3,26</b>	<b>3,82</b>	<b>4,54</b>	<b>5,98</b>	<b>8,08</b>	<b>11,90</b>	<b>23,30</b>	<b>5,10</b>	<b>5,48</b>	<b>3,98</b>	<b>4,24</b>	<b>6,82</b>
Type		<b>10C</b>	<b>10D</b>	<b>10DD</b>	<b>10E</b>	<b>10F</b>	<b>10H</b>	<b>11A</b>	<b>11B</b>	<b>11C</b>	<b>12</b>	<b>12A</b>	<b>12B</b>	<b>12BB</b>	<b>12C</b>	<b>12D</b>
Ø	mm	10	10	10	10	10	10	11	11	11	12	12	12	12	12	12
Useful length	mm	200	250	300	400	550	950	100	150	200	100	150	200	250	400	550
Overall length	mm	260	310	360	460	600	1000	160	210	260	160	210	260	310	450	600
<b>1340G</b>	Each	<b>7,34</b>	<b>7,34</b>	<b>11,70</b>	<b>11,90</b>	<b>20,30</b>	<b>53,30</b>	<b>8,32</b>	<b>8,42</b>	<b>8,22</b>	<b>5,44</b>	<b>7,04</b>	<b>8,28</b>	<b>7,64</b>	<b>10,50</b>	<b>20,40</b>
Type		<b>12E</b>	<b>13</b>	<b>13A</b>	<b>14</b>	<b>14A</b>	<b>14AA</b>	<b>14B</b>	<b>14C</b>	<b>14D</b>	<b>14E</b>	<b>15</b>	<b>15A</b>	<b>016</b>	<b>16</b>	<b>16A0</b>
Ø	mm	12	13	13	14	14	14	14	14	14	14	15	15	16	16	16
Useful length	mm	950	100	200	100	150	200	250	400	550	950	150	200	100	150	200
Overall length	mm	1000	150	250	160	200	250	300	450	600	1000	200	250	160	200	250
<b>1340G</b>	Each	<b>58,20</b>	<b>7,54</b>	<b>9,62</b>	<b>7,56</b>	<b>8,48</b>	<b>9,24</b>	<b>9,66</b>	<b>17,20</b>	<b>21,20</b>	<b>62,10</b>	<b>10,80</b>	<b>10,80</b>	<b>11,90</b>	<b>12,10</b>	<b>14,20</b>
Type		<b>16A</b>	<b>16B</b>	<b>16C</b>	<b>16D</b>	<b>16E</b>	<b>18</b>	<b>18A</b>	<b>18AO</b>	<b>18B</b>	<b>18C</b>	<b>18E</b>	<b>19</b>	<b>19A</b>	<b>20</b>	<b>20A</b>
Ø	mm	16	16	16	16	16	18	18	18	18	18	18	19	19	20	20
Useful length	mm	250	400	550	750	950	150	250	200	400	550	950	150	400	150	250
Overall length	mm	300	450	600	800	1000	200	300	250	450	600	1000	200	450	200	300
<b>1340G</b>	Each	<b>13,20</b>	<b>16,30</b>	<b>23,10</b>	<b>37,20</b>	<b>66,40</b>	<b>14,50</b>	<b>17,30</b>	<b>17,10</b>	<b>22,70</b>	<b>36,30</b>	<b>80,50</b>	<b>21,60</b>	<b>26,50</b>	<b>17,60</b>	<b>20,70</b>
Type		<b>20B</b>	<b>20C</b>	<b>20D</b>	<b>22</b>	<b>22A</b>	<b>22B</b>	<b>22E</b>	<b>24</b>	<b>24A</b>	<b>25</b>	<b>O25A</b>	<b>25A</b>	<b>25E</b>	<b>26</b>	<b>26A</b>
Ø	mm	20	20	20	22	22	22	22	24	24	25	25	25	25	26	26
Useful length	mm	400	550	950	200	400	550	950	200	400	200	250	400	950	200	400
Overall length	mm	450	600	1000	250	450	600	1000	250	450	250	300	450	1000	250	450
<b>1340G</b>	Each	<b>26,40</b>	<b>34,40</b>	<b>84,40</b>	<b>26,10</b>	<b>29,60</b>	<b>42,40</b>	<b>84,80</b>	<b>32,40</b>	<b>36,60</b>	<b>29,30</b>	<b>35,10</b>	<b>34,60</b>	<b>86,10</b>	<b>34,40</b>	<b>38,10</b>

1340GE

SCU



To be directly inserted in the following types of percussion hammers:

AEG PHE 200, B&D HD 2016, Bosch UBH 3/16, Bosch UBH 3/20 SE, Bosch 3/16 E, UBH 2/14 SE, Hilti TE 12 (up to a diameter of 16mm), Hilti TE 14 17/22, Hitachi VRV 16/VRT 22, and also on those with SDS-plus splined chuck.

Adaptable to any other kind of hammer with splined chuck through adaptors Art.1340 GR1/9. For drilling concrete conglomerates, walls, stones and rocks.

Strengthened HARD METAL tool bit with 4 cutting edges, peculiar shaping for the highest penetration rate and long life. Ground and forged shank. Strengthened trapezoidal twist drill for good material removal.

Type		<b>4</b>	<b>5</b>	<b>5A</b>	<b>6</b>	<b>6A</b>	<b>6B</b>	<b>6,5B</b>	<b>8</b>	<b>8A</b>	<b>8B</b>	<b>9</b>	<b>9A</b>	<b>10</b>	<b>10A</b>	<b>10B</b>
Ø	mm	4	5	5	6	6	6	6,5	8	8	8	9	9	10	10	10
Useful length	mm	50	50	100	50	110	150	150	50	110	150	110	150	50	110	150
Overall length	mm	110	110	160	110	160	210	210	110	160	210	160	210	110	160	210
<b>1340GE</b>	Each	<b>2,40</b>	<b>2,40</b>	<b>3,00</b>	<b>2,54</b>	<b>3,12</b>	<b>3,86</b>	<b>4,32</b>	<b>3,00</b>	<b>3,62</b>	<b>4,32</b>	<b>5,66</b>	<b>6,00</b>	<b>3,62</b>	<b>4,82</b>	<b>4,94</b>
Type		<b>10C</b>	<b>12</b>	<b>12A</b>	<b>12B</b>	<b>12C</b>	<b>14</b>	<b>14A</b>	<b>14B</b>	<b>14C</b>	<b>0016</b>	<b>016</b>	<b>16</b>	<b>018</b>	<b>18</b>	<b>18A</b>
Ø	mm	10	12	12	12	12	14	14	14	14	16	16	16	18	18	18
Useful length	mm	200	110	150	200	400	110	160	260	400	150	260	400	150	250	400
Overall length	mm	260	160	210	260	450	160	210	310	450	210	310	450	200	300	450
<b>1340GE</b>	Each	<b>6,00</b>	<b>5,56</b>	<b>6,22</b>	<b>7,48</b>	<b>11,40</b>	<b>7,36</b>	<b>8,50</b>	<b>13,30</b>	<b>18,20</b>	<b>13,30</b>	<b>15,90</b>	<b>16,80</b>	<b>15,70</b>	<b>19,30</b>	<b>26,40</b>
Type		<b>020</b>	<b>20</b>	<b>20A</b>	<b>022</b>	<b>22</b>	<b>25</b>									
Ø	mm	20	20	20	22	22	25									
Useful length	mm	150	250	400	200	400	400									
Overall length	mm	200	300	450	250	450	450									
<b>1340GE</b>	Each	<b>19,90</b>	<b>25,30</b>	<b>33,70</b>	<b>27,70</b>	<b>42,00</b>	<b>43,30</b>									

**UNIVERSAL DRILL BITS FOR SDS-PLUS PERCUSSION HAMMERS**

**Prod. SCU**

With HARD METAL strengthened tool bit and diamond-shaped cutting edges. Strengthened trapezoidal twist drill for good material removal. Universal type, for rotation and percussion. For drilling very hard stones such as granite, basalt, porphyry and also compressed concrete of great hardness. For metallic and non-metallic materials: marble, plywood, laminated plastic, ceramic surfaces, glass, porcelain and similar. Made of bright steel. Connection features: see Art. 1340 G.

Type		6	8	8A	10	10A	12	12A	14A
Ø	mm	6	8	8	10	10	12	12	14
Useful length	mm	100	100	150	100	200	100	200	200
Overall length	mm	160	160	210	160	260	160	260	260
<b>1340GL</b>	<b>Each</b>	<b>6,22</b>	<b>7,62</b>	<b>9,14</b>	<b>9,04</b>	<b>12,50</b>	<b>9,74</b>	<b>14,70</b>	<b>20,20</b>

Size 10A running out of stock.



**1340GL**



**ADAPTORS FOR SDS-PLUS BITS**

**Prod. SCU**

Made of special high-quality steel. Divided into two parts for good transmission of percussion. With rubber protection. For percussion hammers with straight-splined chuck.

<b>1340GR 1</b>	<b>Each</b>	<b>68,80</b>
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Product running out of stock.



**1340GR 1**



Product description as Art. 1340GR 1

For percussion hammers with SDS-MAX chuck, BOSCH, HILTI connection system and also for other types having the same system.

<b>1340GR 9</b>	<b>Each</b>	<b>70,80</b>
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**1340GR 9**



**SDS-PLUS ADAPTORS FOR CHUCKS**

**Prod. SCU**

Made of special high-quality steel, this adaptor allows the fitting of chucks in hammers with SDS-plus. Threaded shank 1/2" x 20 UNF and screw clamp for chucks with left/right rotation.

<b>1340GR 22</b>	<b>Each</b>	<b>11,50</b>
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SDS-plus adaptors for bits with 1/4" connection DIN 3126 C6,3 see Art. 1995 GL.



**1340GR 22**



**DIAMOND-COATED NIBBLING CROWN WHEELS**

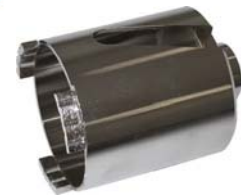
**Orig. Sonnenflex - Art. Dosensenker**

Laser welded diamond segment model which produces high strength and high levels of performance. Can be used with all types of drills. For drilling dry (rot) concrete, brick walls etc. Total crown length of 90 mm. M16 interior thread.

Nibbling machine crown Ø	mm	68	82
Segment height	mm	7	7
<b>1345GA</b>	<b>Each</b>	<b>82,80</b>	<b>100,10</b>



**1345GA**



**SHANKS FOR CORE BITS**

**Orig. Sonnenflex**

Fittings in accordance with Art. 1345 GA. 12 mm hex shank. M 16 exterior thread. Total length 220mm.

<b>1345GB</b>	<b>Each</b>	<b>25,00</b>
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**1345GB**



Fittings in accordance with Art. 1345 GA. SDS plus. M 16 exterior thread. Total length 220 mm.

<b>1345GC</b>	<b>Each</b>	<b>25,00</b>
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**1345GC**



**PILOT DRILL BITS**

**Orig. Sonnenflex**

Guide tips for crowns in accordance with Art. 1345 GA. With HARD METAL plaque. 7 mm diameter. Total length 220 mm.

<b>1345GE</b>	<b>Each</b>	<b>9,86</b>
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**1345GE**



## DIAMOND-COATED CORE DRILLS

1350GA

SCU



DIAMONDED

Prod. SCU

Segment-type with sintered diamond powder (cores). For DRY drilling of walls, floors, ceiling, etc. With side discharge for easier ejection of waste parts and better cooling. To be used with perforators Art. 1352 G. 1/2" BSP external threaded connection.

Ø	mm	32	44	53	63	71	83
Overall length	mm	300	300	300	300	300	300
<b>1350GA</b>	<b>Each</b>	<b>182,00</b>	<b>203,00</b>	<b>223,00</b>	<b>243,00</b>	<b>263,00</b>	<b>304,00</b>

1350GB

SCU



DIAMONDED

Segment-type with sintered diamond powder (cores). For WET drilling of walls, floors, ceilings, etc. To be used with perforators Art. 1352 G. 1/2" BSP external threaded connection.

Ø	mm	12	18	26	32	44	53	63
Overall length	mm	120	220	320	320	320	320	320
<b>1350GB</b>	<b>Each</b>	<b>91,10</b>	<b>108,00</b>	<b>132,00</b>	<b>152,00</b>	<b>182,00</b>	<b>203,00</b>	<b>223,00</b>
Ø	mm	71	83					
Overall length	mm	320	320					
<b>1350GB</b>	<b>Each</b>	<b>263,00</b>	<b>324,00</b>					

1351G

SCU



Extensions for drill bits Art. 1350 GA - B.

To be used with perforators Art. 1352 G.

Overall length	mm	200	260
Ø	mm	30	30
<b>1351G</b>	<b>Each</b>	<b>151,00</b>	<b>238,00</b>

## ELECTRIC CORING BURS FOR DIAMOND-COATED CROWN DRILLS

1352G

SCU



CE

Prod. SCU

Handy electric perforator for diamond crown wheels Art. 1350 GA-B, extensions Art. 1351 G and all crown wheels with 1/2" BSP external threaded connection and 1.1/4" UNC internal threaded connection. Equipped with anti-vibration system and progressive start-up device for drilling without damaging perforated surfaces. With double handle, one of which adjustable and rest on breast for stronger horizontal thrust. For drilling concrete up to Ø 83mm.

With rubber-holder tap and rubber pipe length approx. 2.5mm to let chuck water pass through in case of drilling in damp or humid areas.

1/2" BSP internal threaded connection. 1.1/4" UNC external threaded connection.

Double speed from 0 to 950 / 0 to 2100 rpm.

Monophase engine 230 V, absorbed power 1500 W. Weight 7.5 kg.

<b>1352G</b>	<b>Each</b>	<b>1.300,00</b>
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## VALVE GRINDER MACHINES

1378G

GEDORE



Orig. Gedore - Art. 653

Type for grinding valve seats, cocks and gears.

With left/right rotation movement, for hand use.

Wooden handgrip. Supplied with 1 rubber suction cup with a diameter of 25mm.

Length 275mm.

<b>1378G</b>	<b>Each</b>	<b>9,00</b>
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Spare suckers for Art. 1378 G.

Ø	mm	20	25	30	37
<b>O1378G</b>	<b>Each</b>	<b>3,04</b>	<b>3,16</b>	<b>3,92</b>	<b>4,72</b>

## VALVE GRINDER MACHINES

1380G

GEDORE



Orig. Gedore - Art. 654

Type for grinding valve seats, cocks and gears. With left/right automatic movement, for electric drill use.

Supplied with 4 rubber suction cups with a diameter of 20 - 25 - 30 - 37mm. Connection dia. 8mm, length 135mm.

<b>1380G</b>	<b>Each</b>	<b>260,00</b>
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For spare suckers see Art. 01378 G x 20 - 25 - 30 - 37.



**All items are in sequence. It's very easy to find them!**

Extractors for broken screws



From **1404GA**  
To **1408GV**

Nut splitters and screw and stud extractors



From **1411A**  
To **1413GH**

Extractors for bearings  
Internal race extractors and accessories



From **1413GM**  
To **1419GE**

Specific extractors  
Universal extractors  
Separators  
Coil spring compressors



From **1420G**  
To **1455GB**

**EXTRACTORS FOR BROKEN TAPS**
**1404GA** 

**Prod. SCU**

Suitable for extracting any kind of broken screw tap inside the piece during screw-cutting.

The choice of the extractor to use depends on the kind of tap to remove according to diameter and number of discharge slots.

The extraction is carried out with movements of the tap wrench mounted on the square connection of the tool.

**LOOSE EXTRACTORS**

Suitable for double-slot taps.

For males Ø	mm	3	4	5	6	8	10	12
For males Ø	inches	1/8	5/32	3/16	1/4	5/16	3/8	1/2
Size		0	1	2	3	4	5	6
<b>1404GA</b>	<b>Each</b>	<b>12,20</b>	<b>12,20</b>	<b>12,20</b>	<b>12,20</b>	<b>12,20</b>	<b>14,10</b>	<b>14,10</b>
For males Ø	mm	<b>14</b>	<b>16</b>	<b>20</b>	<b>22</b>	<b>24</b>		
For males Ø	inches	9/16	5/8	3/4	7/8	1		
Size		7	8	9	10	11		
<b>1404GA</b>	<b>Each</b>	<b>14,10</b>	<b>18,90</b>	<b>18,90</b>	<b>18,90</b>	<b>29,80</b>		

**1404GB** 


Product description as Art. 1404GA

**LOOSE EXTRACTORS**

Suitable for triple-slot taps.

For males Ø	mm	3	4	5	6	8	10	12
For males Ø	inches	1/8	5/32	3/16	1/4	5/16	3/8	1/2
Size		0	1	2	3	4	5	6
<b>1404GB</b>	<b>Each</b>	<b>12,20</b>	<b>12,20</b>	<b>12,20</b>	<b>12,20</b>	<b>12,20</b>	<b>14,10</b>	<b>14,10</b>
For males Ø	mm	<b>14</b>	<b>16</b>	<b>20</b>	<b>22</b>	<b>24</b>		
For males Ø	inches	9/16	5/8	3/4	7/8	1		
Size		7	8	9	10	11		
<b>1404GB</b>	<b>Each</b>	<b>14,10</b>	<b>18,90</b>	<b>18,90</b>	<b>18,90</b>	<b>29,80</b>		

**1404GC** 


Product description as Art. 1404GA

**LOOSE EXTRACTORS**

Suitable for quadruple-slot taps.

For males Ø	mm	6	8	10	12	14	16	20	22	24
For males Ø	inches	1/4	5/16	3/8	1/2	9/16	5/8	3/4	7/8	1
Size		3	4	5	6	7	8	9	10	11
<b>1404GC</b>	<b>Each</b>	<b>12,20</b>	<b>12,20</b>	<b>14,10</b>	<b>14,10</b>	<b>14,10</b>	<b>18,90</b>	<b>18,90</b>	<b>18,90</b>	<b>29,80</b>

**EXTRACTORS FOR BROKEN TAPS IN SET**
**1405G 1** 

**Prod. SCU**

Suitable for extracting any kind of broken screw tap inside the piece during screw-cutting. The choice of the extractor to use depends on the kind of screw tap to remove according to diameter and number of splines. The extraction is carried out with movements of the tap wrench mounted on the square connection of the tool.

Suitable for taps with 3 - 4 splines.

The set is composed of:

1404 GB 4-5-6-8

1404 GC 10-12.

**1405G 1** Per set **80,10**

Product description as Art. 1405G 1

The set is composed of:

1404 GB 5-6-8

1404 GC 10-12-14-16-20-22.

**1405G 2** Per set **140,00**

**EXTRACTORS FOR BROKEN SCREWS**
**1405GA** 

**Prod. SCU**

Reversible type enbloc, with one end pointed and the other with extractor. Suitable for extracting broken or headless screws even made of stainless steel.

. Use with left/right rotation electric drills.

For screws	M.	3	4	5
Overall length	mm	29	32	35
<b>1405GA</b>	<b>Each</b>	<b>21,10</b>	<b>21,80</b>	<b>22,40</b>

**1405GB** 


Two-piece combination of bit/extractor ring. Suitable for extracting - in one action - broken or headless screws, even made of stainless steel.

Use with left/right rotation electric drills.

Max. drilling depth: 12mm. Hexagonal shank.

For screws	M.	6	8	10	12
Overall length	mm	28	32	36	40
<b>1405GB</b>	<b>Each</b>	<b>26,70</b>	<b>29,30</b>	<b>31,10</b>	<b>37,30</b>

**EXTRACTORS FOR BROKEN SCREWS IN SET**

**Prod. SCU**

Handy case containing 4 pieces (Art.1405 GE-F) and 7 pieces (Art. 1405 GH).  
Set of Extractors Art. 1405 GA x 3-4-5-6.

<b>1405GE</b>	Each	<b>80,70</b>
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Product description as Art. 1405GE

Set of Extractors Art.1405 GB x 6-8-10-12.

<b>1405GF</b>	Each	<b>112,00</b>
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Product description as Art. 1405GE

Set of Extractors Art. 1405 GA x 3-4-5-6 - 1405 GB x 8-10-12.

<b>1405GH</b>	Each	<b>162,00</b>
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Art. 1405GA 6 is available only in set.  
Art. 1406GB 6 is sold individually.



**1405GE**  
**1405GF**  
**1405GH**



**SCREW EXTRACTORS IN SET**

**Orig. Schröder**

Set of extractors Art.1407 G.  
In case.

Art.		<b>1406G 5</b>	<b>1406G 6</b>	<b>1406G 8</b>
For screws Ø	M.	4-18	4-24	4-45
Number of extractors		5	6	8
Supplier code		4.605.4	4.606.4	4.608.0
<b>Per set</b>		<b>13,10</b>	<b>18,50</b>	<b>38,70</b>



**1406G 5**  
**1406G 6**  
**1406G 8**



**5**

**SCREW EXTRACTORS**

**Orig. Schröder**

Made of chrome-vanadium steel. Suitable for extracting broken or headless screws.  
Left self-biting thread.

Size		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
Overall length	mm	50	57	64	71	79	85	92
Helical bit for pre-bore Ø	mm	1,8	3,2	4,5	6,5	8,5	12	15,3
For screws Ø	M.	4	5-7	8-10	11-14	16-18	18-24	24-33
Supplier code		4.501.0	4.502.0	4.503.0	4.504.0	4.505.0	4.506.0	4.507.0
<b>1407G</b>	Each	<b>1,54</b>	<b>1,54</b>	<b>1,86</b>	<b>2,34</b>	<b>3,02</b>	<b>4,70</b>	<b>7,36</b>



**1407G**



Size		<b>8</b>	<b>9</b>	<b>10</b>
Overall length	mm	100	112	122
Helical bit for pre-bore Ø	mm	20	25	33
For screws Ø	M.	33-45	45-52	52-64
Supplier code		4.508.0	4.509.0	4.510.0
<b>1407G</b>	Each	<b>10,80</b>	<b>23,20</b>	<b>40,60</b>

**SCREW EXTRACTORS IN SET**

**Orig. Schröder**

Composed of high-performance extractors Art.1408 GS.  
In case.

Art.		<b>1408GL</b>	<b>1408GP</b>
For screws Ø	M.	4-18	4-24
Number of extractors		5	6
Supplier code		4.615.4	4.616.4
<b>Per set</b>		<b>18,20</b>	<b>25,40</b>



**1408GL**  
**1408GP**



**SCREW EXTRACTORS**

**Orig. Schröder**

Made of chrome-vanadium steel. High-performance tool. The peculiar shape of the thread allows the operator to reduce the extraction effort, even in case of very hard and strong materials. Left self-biting thread.

Size		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
Overall length	mm	49	54	59	65	69	77
Helical bit for pre-bore Ø	mm	1,8	3,2	4,5	6,5	8,5	12
For screws Ø	M.	4	5-7	8-11	12-14	16-20	20-24
Supplier code		4.511.0	4.512.0	4.513.0	4.514.0	4.515.0	4.516.0
<b>1408GS</b>	Each	<b>2,12</b>	<b>2,12</b>	<b>2,60</b>	<b>3,12</b>	<b>4,04</b>	<b>6,82</b>



**1408GS**



## SCREW EXTRACTORS IN SET

1408GT

SCU



Prod. SCU

Set of extractors Art.1408 GV.  
In plastic bag.

For screws Ø M. 5-20

Number of extractors 5

1408GT	Per set	51,60
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## SCREW EXTRACTORS

1408GV

SCU



Prod. SCU

Made of chrome-vanadium hardened steel. Burnished. Bright cutting edges. Suitable for extracting broken screws or taps with left or right thread. Use with hammer to insert the extractor in the screw or in the screw tap to remove. The extraction is carried out through the hexagonal tool head.

Size		1	2	3	4	5	6	7	
Overall length	mm	59	66	73	80	87	96	108	
For screws Ø	M.	5-6	8-10	10-12	12-16	16-20	20-24	30	
Hexagonal head	mm	6,35 (1/4")	9,5 (3/8")	12,7 (1/2")	15,9 (5/8")	19 (3/4")	22 (7/8")	25,4 (1")	
	1408GV	Each	7,88	7,88	9,58	10,30	13,90	21,40	25,70

## NUT SPLITTERS

1411A

GEDORE



Orig. Gedore

For splitting nuts that cannot be unscrewed.  
CHROME-VANADIUM steel body and special steel cutting edges, hardened.  
Closed ring type.

Size		2	3	4	
For nuts opening up to	mm	17	24	36	
For nuts opening up to	M.	10	16	24	
Supplier code		1.26/1	1.26/2	1.26/3	
	1411A	Each	83,20	87,40	113,00

1411G

BUCO



Orig. Buco - Art. 220

For splitting nuts that cannot be unscrewed.  
Body and blade made of special hardened steel. Closed ring type.

Size		1	2	3	4	
For nuts opening	mm	4 - 10	10 - 18	18 - 27	27 - 36	
For nuts threading	M.	2 - 6	6 - 10	10 - 18	18 - 24	
	1411G	Each	69,90	81,50	87,10	111,00

1411GTA

GEDORE



Orig. Gedore - Art. 1.26/1HYD

Hydraulic type.  
For splitting nuts up to class 10.  
Forged steel body and hardened steel cutting edges, interchangeable, with special sharpening to reduce stress and increase tool life.  
Open type, with straight cutting chisel.

For nuts opening	mm	7 - 22	
For nuts threading	M.	4 - 14	
Pressure	t.	5	
	1411GTA	Each	258,00

1411GV

BUCO



Orig. Buco - Art. 221/1

Hydraulic type.  
Tool to split nuts up to class 10.  
Forged steel body, hardened special steel cutting edges, interchangeable.  
Open type, with straight cutting chisel.

For nuts opening	mm	7 - 22	
For nuts threading	M.	4 - 14	
Pressure	t.	5	
	1411GV	Each	236,00

Spare cutting-edge for Art. 1411 GV.

O1411GV	Each	48,80
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**Orig. Gedore - Art. 1.26/2HYD**

Hydraulic type.

For splitting large-sized nuts up to class 10.

Forged steel body and hardened steel cutting edges, interchangeable, with special sharpening to reduce stress and increase tool life.

Open type, with 90° cutting chisel suitable for narrow spaces.

For nuts opening	mm	22 - 36
For nuts threading	M.	14 - 24
Pressure	t.	13

<b>1411GVA</b>	<b>Each</b>	<b>408,00</b>
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**1411GVA**

**Orig. Buco - Art. 221/2**

Hydraulic type.

Tool to split large-sized nuts, up to class 10.

Forged steel body, hardened special steel cutting edges, interchangeable.

Open type

For nuts opening	mm	22 - 36
For nuts threading	M.	14 - 24
Pressure	t.	13

<b>1411GZ</b>	<b>Each</b>	<b>671,00</b>
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**1411GZ**

Spare cutting-edge for Art.1411 GZ.

<b>O1411GZ</b>	<b>Each</b>	<b>108,00</b>
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**SCREW AND STUD EXTRACTORS**

**Orig. Gedore - Art. 1.28/4**

Rotating type. CHROME-VANADIUM steel, with phosphate-coated inserts.

For extracting studs, with right/left screwing, even with reduced protrusion. External hexagonal connection. Chrome-plated finish.

For screws and studs 5-26mm.

<b>1412A</b>	<b>Each</b>	<b>110,00</b>
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**1412A**

**Orig. Buco - Art. 74**

Rotating type. Made of forged and hardened steel.

Tool to extract studs, with left/right screwing, even with reduced protrusion. External hexagonal connection. Chrome-plated finish.

For screws and studs from 4 to 19 mm.

<b>1412GE</b>	<b>Each</b>	<b>106,00</b>
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**1412GE**

Spare knurled eccentric for Art. 1412 GE.

<b>O1412GE</b>	<b>Each</b>	<b>28,40</b>
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**Orig. Gedore**

Rotating type, small size. Forged and hardened heavy-duty steel. For extracting studs, with right/left screwing, even with reduced protrusion. External hexagonal connection. Nickel-plated finish.

Size		1	2	3
For screws and studs by	mm	6-13	8-19	19-25
Supplier code		1.28/1	1.28/2	1.28/3

<b>1413A</b>	<b>Each</b>	<b>57,10</b>	<b>67,10</b>	<b>81,90</b>
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**1413A**

**Orig. Buco - Art. 71**

Rotating type, small size. Made of forged and hardened heavy-duty steel.

Tool to extract studs, with left/right screwing, even with reduced protrusion. External hexagonal connection. Nickel plated.

Size		1	2	3
For screws and studs by	mm	4-13	8-19	17-28

<b>1413G</b>	<b>Each</b>	<b>56,80</b>	<b>66,80</b>	<b>82,90</b>
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**1413G**

**1413GE**



**Orig. Klann - Art. KL-0181-1**

Continuous control type, heavy duty body made of chromium plated steel, toothed grabs in hardened resistant special steel.

Suitable for screwing/unscrewing screws and studs even with reduced protrusion. Jaw connection control: square inch 3/8" or hexagonal opening 24 mm.

Extractor hexagon opening 36 mm.

For screws and studs by mm 6-12

<b>1413GE</b>	Each	<b>143,00</b>
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**1413GF**



**Prod. SCU**

Roller model made from special steel, chrome plated.

Can unscrew and screw studs with minute dimensions.

For studs Ø	mm	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>
Square int. drive	inches	3/8	3/8	1/2	1/2
Body Ø	mm	24	24	28	28
Overall length	mm	45	45	50	50
<b>1413GF</b>	Each	<b>24,10</b>	<b>23,80</b>	<b>24,00</b>	<b>24,10</b>

**1413GH**



Assortment of 4 stud extractors Ø 6-8-10-12 mm square drive 1/2".

In convenient packaging.

<b>1413GH</b>	Each	<b>86,50</b>
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**EXTRACTORS FOR BEARINGS**

**1413GM**



**Orig. Gedore - Art. 1.44/1**

Special steel body and jaws. Three-jaws type. For removing bearing bushings and inner rings. Ø 5 to 32mm. Length 135mm. Suitable for electric motors, dynamos, etc.

<b>1413GM</b>	Each	<b>211,00</b>
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**1413GP**



**Orig. Buco - Art. 56**

Alloy steel body. 3 special steel jaws. Suitable for extracting sockets and inner rings. Diameter: from 5 to 32mm. Length 135mm. Suitable for electric motors, dynamos etc.

<b>1413GP</b>	Each	<b>242,00</b>
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**DOUBLE-GRIP EXPANDERS**

**1414B**



**Orig. Gedore**

Two-jaws type for extracting ball bearings.

Forged and hardened steel.

To be used inside the bearing ring. The heavy-duty body and the huge expanding strength ensure the extraction even of stubborn bearings.

To be used with Art. 1415 A 1-2-3 and 1415 GN 1-2.

Size		<b>01</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3A</b>	<b>4</b>
Expansion by	mm	5-8	8-12	12-15	15-19	19-25	25-30	30-35
Supplier code		1.30/0	1.30/1	1.30/2	1.30/3	1.30/4	1.30/4A	1.30/5
<b>1414B</b>	Each	<b>62,10</b>	<b>62,30</b>	<b>64,30</b>	<b>67,20</b>	<b>68,80</b>	<b>71,50</b>	<b>80,70</b>
Size		<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>			
Expansion by	mm	35-45	45-55	55-70	70-100			
Supplier code		1.30/6	1.30/7	1.30/8	1.30/9			
<b>1414B</b>	Each	<b>98,40</b>	<b>126,00</b>	<b>162,00</b>	<b>247,00</b>			

Four-jaws type with particularly thin edges for easier extraction of ball bearings, rings, bushings, etc.

Hardened special steel, TIN-coated, hard jaw surface, more resistant to abrasion and oxidation. To be used inside the bearing ring. To be used with Art. 1415 A 1 and 1415 GN 0.

Size		1	2	3	4
Expansion by	mm	5-8,5	8-15	15-25	25-36
Supplier code		1.34/1	1.34/2	1.34/3	1.34/4
<b>1414E</b>	<b>Each</b>	<b>96,70</b>	<b>101,00</b>	<b>108,00</b>	<b>118,00</b>



**1414E**



**TIN**

**Orig. Buco - Art. 50**

Two-jaw type to extract ball bearings.

Zinc-chrome finish. Made of forged and hardened steel.

To be used inside the bearing ring. The heavy-duty and strong body together with the huge expanding strength ensure the extraction even of stubborn bearings.

To be used with Art. 1415 G1-2-3.

Size		02	01	0	1	2	3	3A
Expansion by	mm	5-6	6-8	8-12	12-16	16-20	20-27	24-30
<b>1414G</b>	<b>Each</b>	<b>63,30</b>	<b>60,10</b>	<b>60,10</b>	<b>60,10</b>	<b>63,30</b>	<b>64,90</b>	<b>73,30</b>



**1414G**



Size		4	5	6	7
Expansion by	mm	27-36	36-46	46-58	58-70
<b>1414G</b>	<b>Each</b>	<b>76,30</b>	<b>93,50</b>	<b>121,00</b>	<b>156,00</b>

**Orig. Buco - Art. 50N**

Two-jaw type to extract roller bearings.

Zinc-chrome finish. Made of forged and hardened steel.

The heavy-duty and strong body together with the huge expanding strength ensure the extraction even of stubborn bearings.

To be used with Art. 1415 G1 and 1415 GP.

Size		1	2	3	4	5
Expansion by	mm	11.5-13	13-15	15-16.5	16.5-18.5	18.5-20
<b>1414GA</b>	<b>Each</b>	<b>108,00</b>	<b>108,00</b>	<b>108,00</b>	<b>108,00</b>	<b>108,00</b>



**1414GA**



**5**

Product running out of stock.

**Orig. Gedore**

Two-jaws type for extracting roller bearings.

Forged and hardened steel.

The heavy-duty body and the huge expanding strength ensure the extraction even of stubborn bearings. To be used with Art. 1415 A 1 and 1415 GN 1-2.

Size		2	3
Expansion by	mm	12-14	14-19
Supplier code		1.30/2N	1.30/3N
<b>1414GC</b>	<b>Each</b>	<b>65,20</b>	<b>67,90</b>



**1414GC**



**MULTIPLE-GRIP EXPANDERS**

**Orig. Buco - Art. 53**

Multiple-grab type, with uniform expanding body to ensure easy extraction of ball bearings.

Burnished finish. Made of forged and hardened steel.

To be used inside the bearing ring. The heavy-duty and strong body together with the huge expanding strength ensure the extraction even of stubborn bearings.

To be used with Art. 1415G 1-2-3 e 1415 GP-S-T.

Size		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Expansion by	mm	5-7	7-9	9-12	10-13	13-17	14-19	16-21	18-23	20-25	25-30	30-37	35-42	38-45	43-50	45-55	50-60
Jaw pliers	Nr	2	2	2	2	4	4	4	4	4	4	4	4	4	4	6	6
<b>1414GE</b>	<b>Each</b>	<b>63,90</b>	<b>63,90</b>	<b>63,90</b>	<b>63,90</b>	<b>52,70</b>	<b>53,50</b>	<b>54,40</b>	<b>67,20</b>	<b>69,80</b>	<b>72,30</b>	<b>85,30</b>	<b>99,50</b>	<b>100,10</b>	<b>109,00</b>	<b>130,00</b>	<b>151,00</b>



**1414GE**



**GREAT CAPACITY EXPANDERS.**

**Orig. Gedore - Art. 1.30/10**

Three-jaws type. Forged and hardened steel. Suitable for extracting, with inner grip, large bearings, large rings with reduced thickness and cylinder liners.

To be used with Art. 1415 GE.

For bores Ø by	mm	60-160
Weight	Kg	2,45
<b>1414GH</b>	<b>Each</b>	<b>466,00</b>



**1414GH**



**DOUBLE-GRIP EXTRACTORS FOR EXPANDERS**

1415A


**Orig. Gedore**

Forged steel. Screw for expanders with internal/external thread.  
To be used with Art. 1414 B - 1414 E - 1414 GC.

Size	1	2	3
For expanders Art.	1414 B from 01 to 4 1414 E from 1 to 4 1414 GC 2 and 3	1414 B from 5 to 7	1414 B 8
Supplier code	1.36/1	1.36/2	1.36/3
<b>1415A</b>	<b>Each 56,10</b>	<b>89,30</b>	<b>176,00</b>

1415G


**Orig. Buco - Art. 55**

Zinc-chrome finish. Forged steel arms. Screw for expanders with internal/external thread.  
To be used together with Art. 1414 G, 1414 GA e 1414 GE.

Size	1	2	3
For expanders Art. 1414G-GA mm	5-27	24-70	27-70
For expanders Art. 1414E mm	5-25	5-50	45-60
<b>1415G</b>	<b>Each 60,30</b>	<b>90,10</b>	<b>161,00</b>

1415GE


**Orig. Gedore - Art. 1.36/4**

To be used together with expander Art. 1414 GH to be screwed on to central pin.  
Hot-stamped steel.  
Wide range of adjustments of the arm supports with rigid vertical positioning.  
Weight 7.7Kg.

<b>1415GE</b>	<b>Each 248,00</b>
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**PERCUSSORS WITH SLIDING HEAD**

1415GN


**Orig. Gedore**

By repeatedly striking the head against the end of the slide bar, the operator easily releases and removes the bearing.

Size	0	1	1A	2
For expanders Art.	1414 E from 1 to 4	1414 B from 01 to 4 - 1414 E from 1 to 4 - 1414 GC 2 and 3	1414 B from 01 to 6	1414 B from 01 to 8 - 1414 GC 2 and 3
Hammer weight	grams 200	grams 200	grams 700	grams 1700
Weight	grams 400	grams 450	grams 950	grams 3000
Overall length	mm 225	mm 270	mm 275	mm 510
Threaded drive	M 10	M 10	M 10 / MF 14x1,5	M 10 / MF 14x1,5
Supplier code	1.35/0	1.35/1	1.35/1A	1.35/2
<b>1415GN</b>	<b>Each 30,70</b>	<b>35,50</b>	<b>125,00</b>	<b>133,00</b>

 1415GP  
 1415GS  
 1415GT


**Orig. Buco - Art. 54/1**

By repeatedly striking the head against the end of the slide bar, the operator easily releases and removes the bearing.

For expanders Art. 1414 G x 02 a 3/1414 GA x 1 a 6/1414 GE x 1 a 7.

<b>1415GP</b>	<b>Each 42,60</b>
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**Orig. Buco - Art. 54/2**

Product description as Art. 1415GP

For expanders Art. 1414 G x 3A to 5/1414 GE x 8 a 14.

<b>1415GS</b>	<b>Each 89,90</b>
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**Orig. Buco - Art. 54/3**

Product description as Art. 1415GP

For expanders Art. 1414 G x 6 e 7/1414 GE x 15 e 16.

<b>1415GT</b>	<b>Each 148,00</b>
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**SETS OF ASSORTED EXTRACTORS FOR BALL BEARINGS**

**Orig. Gedore**

Sets are composed of PULLERS Art. 1415 A and expanders Art. 1414 B.  
In sturdy metal boxes.

Size		0	1	2
For bores Ø	mm	12-30	12-46	12-70
Extractors	Pz	1	2	2
Expanders	Pz	4	6	8
Supplier code		1.31/0	1.31/1	1.31/2
<b>1416A</b>	Each	<b>390,00</b>	<b>662,00</b>	<b>962,00</b>



**1416A**



**Orig. Gedore - Art. 1.34/10**

Sets are composed of 1 percussor Art. 1415 GN 0, 4 expanders Art. 1414 E 1 - 2 - 3 - 4 and manoeuvring wrench.  
In sturdy synthetic material case.

<b>1416E</b>	Each	<b>467,00</b>
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**TIN**

**1416E**



**5**

**Orig. Buco - Art. 50/K**

Sets are composed of extractors Art. 1415G and expanders Art. 1414G.  
In boxes.

Size		0	1	2
For bores Ø	mm	8-27	12-46	12-70
Extractors	Pz	1	2	2
Expanders	Pz	4	5	7
<b>1416G</b>	Each	<b>345,00</b>	<b>591,00</b>	<b>865,00</b>



**1416G**



**EXTRACTORS FOR BALL BEARINGS**

**Orig. Gedore**

Suitable for extracting ball bearings jammed into seats and impossible to reach through internal/ external gripping.

Thanks to the interchangeable arms, the bearing is clamped in the space between the balls inside the ring gear. The extractor is composed of: screw-type clamp, flange, force lever and interchangeable arms.

Forged and hardened steel.

PULLERS WITHOUT ARMS complete with screw-type clamp, flange and lever.

Size		1	2	3	4	5
Presser screw length	mm	160	195	210	230	235
Supplier code		1.29/1	1.29/2	1.29/3	1.29/4	1.29/5
<b>1417A</b>	Each	<b>28,50</b>	<b>43,50</b>	<b>54,80</b>	<b>68,80</b>	<b>81,80</b>

Supplied without arms.



**1417A**



## 1417F



Product description as Art. 1417A

Forged and hardened steel.

INTERCHANGEABLE ARMS (in series of 4 pieces).

Size		11	12	13	14
Overall length	mm	145	145	177	177
For extractors Art.		1417 to 1	1417 to 1	1417 to 2	1417 to 2
Supplier code		1.29/10	1.29/15	1.29/20	1.29/25
<b>1417F</b>	<b>Per set</b>	<b>65,30</b>	<b>67,30</b>	<b>70,00</b>	<b>71,00</b>
Size		15	16	17	18
Overall length	mm	185	187	235	236
For extractors Art.		1417 to 2-3	1417 to 3	1417 to 4	1417 to 4-5
Supplier code		1.29/30	1.29/35	1.29/40	1.29/45
<b>1417F</b>	<b>Per set</b>	<b>75,20</b>	<b>79,40</b>	<b>121,00</b>	<b>206,00</b>

For couplings between Art. 1417 A - 1417 F and ball bearings type 6000 see technical table no. 8 a at the end of the catalogue.

## 1417G



**Orig. Buco - Art. 44**

Product description as Art. 1417A

Made of forged and hardened steel. EXTRACTORS WITHOUT ARMS, complete with setscrew, flange, operating force lever.

Size		1	2	3	4	5
Presser screw length	mm	170	210	230	275	280
<b>1417G</b>	<b>Each</b>	<b>43,50</b>	<b>57,40</b>	<b>59,30</b>	<b>63,10</b>	<b>81,60</b>

Supplied without arms.

## 1417GB



**Orig. Buco - Art. 48**

Product description as Art. 1417A

Made of forged and hardened steel. INTERCHANGEABLE ARMS (set of 4 pieces)

Size		11	12	13	14
Overall length	mm	140	145	175	175
For extractors Art.		1417 G 1	1417 G 1	1417 G 2	1417 G 2-3
<b>1417GB</b>	<b>Per set</b>	<b>71,70</b>	<b>73,70</b>	<b>89,50</b>	<b>89,50</b>
Size		15	16	17	18
Overall length	mm	185	190	235	235
For extractors Art.		1417 G 2-3-4-5	1417 G 3-5	1417 G 4	1417 G 3-5
<b>1417GB</b>	<b>Per set</b>	<b>89,50</b>	<b>93,70</b>	<b>106,00</b>	<b>156,00</b>

For couplings between Art. 1417 G - 1417 GB and ball bearings type 6000 see technical table no. 8 b at the end of the catalogue.

### SETS OF ASSORTED EXTRACTORS FOR BALL BEARINGS

## 1417GP 1



**Orig. Gedore - Art. 1.29/1K**

In sturdy metal cases.

The set is composed of PULLERS: 1417 A x Size 1, 2 and 3, arms 1417 F x Size 11-12-13-14-15-16 and 1 force lever.

**1417GP 1** Each **729,00**

## 1417GP 2



**Orig. Gedore - Art. 1.29/3K**

Product description as Art. 1417GP 1

The set is composed of: PULLERS 1417 A x Size 1-2-3-4-5, arms 1417 F x Size 11-12-13-14-15-16-17-18, 1 force lever and 4 support rings.

**1417GP 2** Each **1.180,00**

**Orig. Buco - Art. 44/K1**

Product description as Art. 1417GP 1

The set is composed of: extractors 1417 G x Gr. 1 and 2, arms 1417 GB x Gr. 11-12-13-14 and 1 operating force lever.

**1417GS 1** Each **393,00**

**Orig. Buco - Art. 44/K2**

Product description as Art. 1417GP 1

The set is composed of: extractors 1417 G x Gr. 3-4-5, arms 1417 GB x Gr. 14-15-16-17-18 and 1 operating force lever.

**1417GS 2** Each **926,00**

**Orig. Buco - Art. 44/K3**

Product description as Art. 1417GP 1

The set is composed of: extractors 1417 G x Gr. 1-2-3-4-5, arms 1417 GB x Gr. 11-12-13-14-15-16-17-18 and 1 operating force lever.

**1417GS 3** Each **1.260,00**



**1417GS 1**  
**1417GS 2**  
**1417GS 3**



**Orig. Gedore - Art. 1.92/1**

Suitable for a safe and precise extraction of ball bearings jammed into seats and impossible to reach through internal/external gripping. Round flange in special steel with passing-through holes for the clamping of pulling arms. This allows to use all the strength deriving from the threaded screw and obtain quicker and better results.

The set contains:

- 1 threaded screw M10, length 115mm
- 3 flanges with holes
- 1 4-arm set 10 gr, length 120mm for bearings ISO: 6000-6001-6002-6003-6200
- 1 4-arm set 20 gr, length 125mm for bearings ISO: 6201-6202
- 1 4-arm set 30 gr, length 130mm for bearings ISO: 6203-6004-6005-6006-6300
- 1 4-arm set 40 gr, length 135mm for bearings ISO: 6301-6302-6007-6008-6204-6009-6010-6303-6304

In sturdy case made of synthetic material.

**1419GA** Each **586,00**

**Orig. Gedore - Art. 1.92/2**

Product description as Art. 1419GA

The set contains:

- 1 threaded screw M14, length 180mm, with adapter
- 3 flanges with holes
- 3 support rings (necessary for bearings ISO 6407-6310-6311)
- 1 4-arm set 50 gr, length 140mm for bearing ISO: 6011-6012-6206-6207
- 1 4-arm set 60 gr, length 145mm for bearings ISO: 6305-6403-6306-6307-6208-6209-6210-6211-6407
- 1 4-arm set 70 gr, length 150mm for bearings ISO: 6404-6405-6406-6308-6309-6212-6310-6311

In sturdy case made of synthetic material.

**1419GB** Each **602,00**

**Orig. Gedore - Art. 1.92/12**

Product description as Art. 1419GA

The set contains:

Assortments Art. 1419 GA and 1419 GB.  
In sturdy case made of synthetic material.

**1419GE** Each **1.180,00**



**1419GA**  
**1419GB**  
**1419GE**

**5**



**RAPID ADJUSTMENT PULLERS**

**Orig. Gedore**

Rapid-adjustment by rotation of the knurled ring nut containing the opening and closing mechanism of the 3 arms. It allows a rapid and precise positioning of the arms without any additional adjustments. High-precision threaded screw. Special steel body and arms, thermo-chemically hardened to support screw high pressures and high arms extraction values. Pointed or ball-shaped tip, interchangeable and reversible for a wide range of use. Particularly suitable for the extraction of ball bearings in any position.

Max opening	mm	<b>150</b>	<b>250</b>
Useful length	mm	130	250
Maximum pressure:	t.	6,5	6,5
Weight	Kg	2,4	3,4
Screw x length Ø	mm	G 1/2x250	G 1/2x350
Supplier code		1.09/1	1.09/2

**1420G** Each **455,00** **650,00**

For spare screw see Art. 1455 GA.



**1420G**



**SELF REGULATING**

**EXTRACTORS FOR BATTERY TERMINALS.**
**1421GA****BUCO****Orig. Buco - Art. 40**

Used for removing windscreen wipers and battery terminals jammed because of oxidation.  
The pressure exerted on the spring allows to use one hand only. Zinc-plated finish.

Size		1	2
Max opening	mm	55	70
Useful length	mm	45	65
<b>1421GA</b>	<b>Each</b>	<b>43,10</b>	<b>50,60</b>

**UNIVERSAL MINI-EXTRACTORS**
**1421GAT****GEDORE****Orig. Gedore**

CHROME-VANADIUM steel.  
Handy model, of small size.  
Adjustment of arms in traction.  
Chrome-plated finish.

Two-arm type.

Size		1	1A	2
Max opening	mm	60	60	70
Useful length	mm	40	60	80
Supplier code		1.12/02	1.12/01	1.12/00
<b>1421GAT</b>	<b>Each</b>	<b>30,80</b>	<b>31,10</b>	<b>41,60</b>

**1421GB****BUCO****Orig. Buco - Art. 36**

Made of forged steel.  
Handy model, of small size.  
Adjustment of arms in traction.  
Zinc-plated finish.

Two-arm type.

Size		1	2
Max opening	mm	55	75
Useful length	mm	40	65
<b>1421GB</b>	<b>Each</b>	<b>31,70</b>	<b>33,30</b>

**1421GD****GEDORE****Orig. Gedore**

CHROME-VANADIUM steel.  
Handy model, of small size.  
Adjustment of arms in traction.  
Chrome-plated finish.

Three-arm type.

Size		1	1A	2
Max opening	mm	60	60	70
Useful length	mm	40	60	80
Supplier code		1.13/02	1.13/01	1.13/00
<b>1421GD</b>	<b>Each</b>	<b>40,40</b>	<b>41,20</b>	<b>56,70</b>

**1421GE****BUCO****Orig. Buco - Art. 37**

Made of forged steel.  
Handy model, of small size.  
Adjustment of arms in traction.  
Zinc-plated finish.

Three-arm type.

Size		1	2
Max opening	mm	55	75
Useful length	mm	40	65
<b>1421GE</b>	<b>Each</b>	<b>44,30</b>	<b>47,50</b>

**PARALLEL PULLERS**

**Orig. Gedore**

Special steel. Arms with parallel movement and thin jaws. Particularly suitable for narrow spaces, uniform clamping of the piece to remove. With adjustment holes. Zinc-chrome plated finish.

Size	0	1	2	3
Max opening	mm 80	80	120	120
Useful length	mm 85	85	120	150
Maximum pressure:	t. 1,5	2,0	3,5	3,5
Height a	mm 10	23	31	31
Supplier code	1.23/1S	1.23/1	1.23/2	1.23/3
<b>1421GH</b>	<b>Each 166,00</b>	<b>141,00</b>	<b>168,00</b>	<b>191,00</b>



**1421GH**



**Orig. Buco - Art. 38**

Made of special steel. Arms with parallel movement and thin jaws. Suitable in narrow spaces, with uniform grabbing of the piece to remove. With adjustment holes. Zinc-plated finish.

Max opening	mm	<b>100</b>	<b>140</b>	<b>141</b>
Useful length	mm	85	120	155
Maximum pressure:	t.	2,5	2,5	4,5
Height a	mm	23	31	31
<b>1421GL</b>	<b>Each</b>	<b>137,00</b>	<b>167,00</b>	<b>192,00</b>



**1421GL**



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**Prod. SCU**

Made of special steel. Arms with parallel movement and thin jaws. Suitable in narrow spaces, with uniform grabbing of the piece to remove. With adjustment holes. Nickel-plated finish.

Max opening	mm	<b>100</b>	<b>140</b>
Useful length	mm	85	120
Maximum pressure:	t.	2	3
<b>1421P</b>	<b>Each</b>	<b>57,90</b>	<b>65,90</b>



**1421P**



**UNIVERSAL DOUBLE-GRIP PULLERS**

**Prod. SCU**

Made of hot pressed steel. With two sliding and revertible arms, inside/outside use. Nickel-plated finish.

Max opening	mm	60	80	100	120	140	160	180
Useful length	mm	75	75	75	100	100	100	140
Weight	Kg	0,35	0,6	0,65	1,1	1,2	1,5	2,5
<b>1422</b>	<b>Each</b>	<b>18,70</b>	<b>20,50</b>	<b>25,10</b>	<b>28,50</b>	<b>33,10</b>	<b>40,10</b>	<b>56,10</b>

Max opening	mm	<b>200</b>	<b>250</b>	<b>300</b>
Useful length	mm	140	250	300
Weight	Kg	2,7	9	13
<b>1422</b>	<b>Each</b>	<b>65,90</b>	<b>170,00</b>	<b>265,00</b>



**1422**



**Orig. Buco - Art. 10**

Made of steel. With arms forged in one piece. H-beam arm rest with trapezoidal stiffener. Heavy-duty type. Arms have inside/outside use: the operator needs only to extract them from support and turn them. Easy adjustment by means of light pressure on arms at the required distance. In traction it stops automatically.

Size		1	1A	2	2A	3	3A	4
Max opening	mm	80	120	160	200	250	350	530
Useful length	mm	100	100	150	150	200	200	200
Weight	Kg	0,9	1	2,7	3,1	6,5	7,7	11
<b>1423G</b>	<b>Each</b>	<b>85,90</b>	<b>91,80</b>	<b>163,00</b>	<b>181,00</b>	<b>314,00</b>	<b>342,00</b>	<b>527,00</b>



**1423G**



**ARMS AND EXTENSIONS FOR PULLERS**
**1423GA****BUCO****Orig. Buco**

For extractors Art. 1423 G - 1424 G - 1433 G.

ARMS

Size		1	2	3
Useful length	mm	100	150	200
For extractors		1-1A	2-2A	3-3A-4
<b>1423GA</b>	<b>Each</b>	<b>27,60</b>	<b>46,20</b>	<b>75,20</b>

**1423GB****BUCO**

Product description as Art. 1423GA

EXTENSIONS

Size		1	2	3
For extractors		1-1A	2-2A	3-3A-4
Extensions length	mm	100	150	150
<b>1423GB</b>	<b>Each</b>	<b>36,60</b>	<b>57,10</b>	<b>92,10</b>

**UNIVERSAL DOUBLE-GRIP PULLERS**
**1423GE****BUCO****Orig. Buco - Art. 80**

Standard type, with bolster and very hardened arms. Large working opening. Arms for inside/ outside use.

Size		1	1A
Max opening	mm	100	150
Useful length	mm	100	100
Weight	Kg	0,6	0,7
<b>1423GE</b>	<b>Each</b>	<b>79,90</b>	<b>84,20</b>

**SETS OF ASSORTED DOUBLE-GRIP EXTRACTORS**
**1423GS****BUCO****Orig. Buco - Art. 10/ST1**

Composed of 5 extractors Art. 1423 G with elegant and handy wooden display stand also for workshops.

Extractors size: 1 - 1A - 2 - 2A - 3.

<b>1423GS</b>	<b>Each</b>	<b>829,00</b>
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**HYDRAULIC DOUBLE-GRIP PULLERS**
**1424G****BUCO****Orig. Buco - Art. HY 10**

Hydraulic pivot type.

Made of steel, arms are forged in one piece. H-beam arm rest with trapezoidal stiffener. Heavy-duty type. Arms with inside/outside use: the operator needs only to extract them from support and turn them. Easy adjustment by means of light pressure on arms at the required distance. In traction it stops automatically.

Acting by means of a key on the upper screw of the pivot, the operator will obtain hydraulic pressures equal to some tons.

Size		2A	3	3A	4
Max opening	mm	200	250	350	530
Useful length	mm	150	200	200	200
Maximum pressure:	t.	8	13	13	15
Weight	Kg	3,6	8,1	9	13
<b>1424G</b>	<b>Each</b>	<b>489,00</b>	<b>638,00</b>	<b>669,00</b>	<b>860,00</b>

For spare arms and extensions see Art. 1423 GA and 1423 GB.

**UNIVERSAL DOUBLE-GRIP PULLERS, THIN ARMS**

**Orig. Gedore**

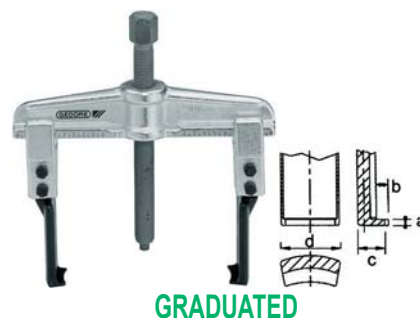
Hot-stamped steel.

Wide range of use, inside/outside use. Normal and long arms, interchangeable, sliding on ground guides with thin ends and feet to be inserted in very narrow spaces. This kind of arms ensures parallel traction stresses. Zinc-chrome plated finish.

Max opening	mm	100	140	160	200
Useful length	mm	100	100	150	150
Maximum pressure:	t.	2	2,5	5	5
Weight	Kg	1	1,2	3	3,2
Height a	mm	3,6	3,6	5	5
Height b	mm	7,5	7,5	7	7
Height c	mm	13	13	17	17
Height d	mm	27	27	40	40
Screw x length Ø	mm	M 14x1,5x140	M 14x1,5x140	G 1/2x210	G 1/2x210
Supplier code		1.06/S1	1.06/S1A	1.06/S2	1.06/S2A
<b>1424GA</b>	<b>Each</b>	<b>136,00</b>	<b>141,00</b>	<b>219,00</b>	<b>241,00</b>



**1424GA**



Spare arms can be supplied on request. For spare screw see Art. 1455 GA.

**DOUBLE-GRIP PULLERS, THIN ARMS**

**Orig. Gedore - Art. 1.06/AS**

Hot-stamped steel.

Wide range of use, inside/outside use. Normal and long arms supplied, interchangeable, sliding on ground guides with thin ends and feet to be inserted in very narrow spaces. This kind of arms ensures parallel traction stresses. Zinc-chrome plated finish.

Composition:

- 1 cross-beam rest for 2 arms max. aperture 140mm
- 2 arms length 100mm
- 2 arms length 200mm
- 2 arms length 250mm

<b>1424GB</b>	<b>Per set</b>	<b>391,00</b>
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Spare arms can be supplied on request.



**1424GB**



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**UNIVERSAL DOUBLE-GRIP PULLERS, THIN ARMS**

**Orig. Buco - Art. 16**

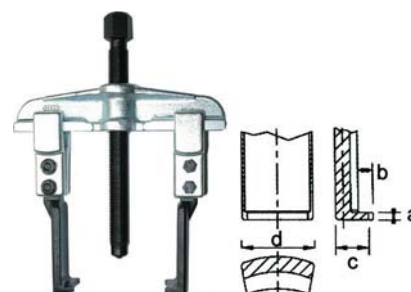
Made of forged and hardened steel.

Wide range of use, inside/outside use. Normal and long arms, interchangeable, sliding on ground guides with thin feet to be inserted in very narrow spaces. This kind of arms gives parallel traction stresses. Zinc-chrome plated finish.

Max opening	mm	80	130	160	200
Useful length	mm	100	100	150	150
Maximum pressure:	t.	4,5	4,5	6,5	6,5
Weight	Kg	1	1,2	3	3,2
Height a	mm	3,6	3,6	5	5
Height b	mm	60	60	80	80
Height c	mm	13	13	17	17
Height d	mm	27	27	40	40
<b>1424GE</b>	<b>Each</b>	<b>119,00</b>	<b>127,00</b>	<b>218,00</b>	<b>241,00</b>



**1424GE**



**ARMS FOR PULLERS**

**Orig. Buco**

Couple of arms complete with connections and bolts. For Art. 1424 GE.

Standard type.

Useful length	mm	100	150
For extractors opening	mm	80-130	160-200
<b>1424GF</b>	<b>Per pair</b>	<b>76,10</b>	<b>138,00</b>



**1424GF**



Product description as Art. 1424GF

Long type.

Useful length	mm	200	220	250	300
For extractors opening	mm	80-130	160-200	80-130	160-200
<b>1424GH</b>	<b>Per pair</b>	<b>98,10</b>	<b>167,00</b>	<b>114,00</b>	<b>173,00</b>



**1424GH**



**UNIVERSAL DOUBLE-GRIP PULLERS**
**1424GL** 

**Orig. Gedore**

Hot-stamped steel.

Wide range of use, inside/outside use. Normal and long arms, interchangeable, sliding on ground guides. This kind of arms ensures parallel traction stresses. Zinc-chrome plated finish.

Max opening	mm	<b>90</b>	<b>130</b>	<b>160</b>	<b>200</b>	<b>250</b>	<b>350</b>	<b>520</b>
Useful length	mm	100	100	150	150	200	200	200
Weight	Kg	1,1	1,3	3,2	3,6	7,8	9,2	15,2
Screw x length Ø	mm	M	M	G 1/	G 1/	G 3/	G 3/	G
		14x1,5x140	14x1,5x140	2x210	2x210	4x280	4x280	1x310
Supplier code		1.06/1	1.06/1A	1.06/2	1.06/2A	1.06/3	1.06/3A	1.06/4
<b>1424GL</b>	<b>Each</b>	<b>99,30</b>	<b>107,00</b>	<b>182,00</b>	<b>200,00</b>	<b>332,00</b>	<b>362,00</b>	<b>535,00</b>

For spare arms and other items see Art. 1424 GPA - RA. For spare screw (manual or hydraulic) see Art. 1455 GA-GB.

**SETS OF ASSORTED DOUBLE-GRIP EXTRACTORS**
**1424GM** 

**Orig. Gedore - Art. 1.06/ST**

Composed of 5 pullers Art. 1424 GL, with sturdy and handy metal display stand, also used for workshops.

Pullers opening: 90 - 130 - 160 - 200 - 250 mm.

<b>1424GM</b>	<b>Each</b>	<b>917,00</b>
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**LOOSE ARMS FOR EXTRACTORS**
**1424GPA** 

**Orig. Gedore**

Arms complete with fittings and bolts. in accordance with Art. 1424 GL - 1433 GDP - 1433 GH.

Normal type.

Size	1	2	3	
Useful length	mm	100	150	200
For extractors opening	mm	90-130	160-200	250-520
Supplier code		106/A-100-N	106/B-150-N	106/C-200-N
<b>1424GPA</b>	<b>Each</b>	<b>28,80</b>	<b>49,80</b>	<b>81,10</b>

**1424GRA** 


Product description as Art. 1424GPA

Long type.

Size	1	2	3	4	5	
Useful length	mm	200	300	300	400	500
For extractors opening	mm	90-130	160-200	250-520	250-520	250-520
Supplier code		106/A-200-N	106/B-300-N	106/C-300-N	106/C-400-N	106/C-500-N
<b>1424GRA</b>	<b>Each</b>	<b>38,80</b>	<b>65,60</b>	<b>109,00</b>	<b>131,00</b>	<b>137,00</b>

**UNIVERSAL DOUBLE-GRIP PULLERS**
**1425G** 

**Orig. Buco - Art. 16**

Made of forged and hardened steel.

Wide range of use, inside/outside use. Normal and long arms, interchangeable, sliding on ground guides. This kind of arms gives parallel traction stresses. Zinc-chrome plated finish.

Max opening	mm	<b>80</b>	<b>130</b>	<b>160</b>	<b>200</b>	<b>250</b>	<b>350</b>	<b>520</b>
Useful length	mm	100	100	150	150	200	200	200
Weight	Kg	1	1,1	2,8	3,2	6,7	8	12,5
<b>1425G</b>	<b>Each</b>	<b>97,90</b>	<b>105,00</b>	<b>182,00</b>	<b>199,00</b>	<b>339,00</b>	<b>374,00</b>	<b>561,00</b>
Max opening	mm	<b>640</b>						
Useful length	mm	225						
Weight	Kg	23,5						
<b>1425G</b>	<b>Each</b>	<b>1.220,00</b>						

For spare and additional arms see Art. 1425 GM-P.



**SETS OF ASSORTED DOUBLE-GRIP EXTRACTORS**

**Orig. Buco - Art. 16/ST**

Composed of 5 extractors Art. 1425 G with elegant and handy wooden display stand also for workshops.

Extractors opening: 80 - 130 - 160 - 200 – 250mm.

<b>1425GB</b>	Each	<b>919,00</b>
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**1425GB**

**UNIVERSAL DOUBLE-GRIP HYDRAULIC EXTRACTORS**

**Orig. Buco - Art. HY 16**

Hydraulic pivot type.

Made of forged hardened steel. Wide range of use, inside/outside use. Normal and long arms, interchangeable, sliding on ground guides. This kind of arms gives parallel traction stresses. Zinc-chrome plated finish.

Acting by means of a key on the upper screw of the pivot, the operator will obtain hydraulic pressures equal to some tons.

Max opening	mm	<b>250</b>	<b>350</b>	<b>520</b>	<b>640</b>
Useful length	mm	200	200	200	225
Maximum pressure:	t.	13	13	15	15
Weight	Kg	8,5	9,4	14,3	25
<b>1425GF</b>	Each	<b>637,00</b>	<b>666,00</b>	<b>864,00</b>	<b>1.660,00</b>

For spare and additional arms see Art. 1425 GM-P.



**1425GF**

**LOOSE ARMS FOR EXTRACTORS**

**Orig. Buco**

Complete with connections and bolts. For Art. 1425 G - 1425 GF - 1433 GE - 1433 GL - 1433 GR.

Standard type.

Size		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Useful length	mm	100	150	200	225
For extractors opening	mm	80-130	160-200	250-520	640
<b>1425GM</b>	Each	<b>28,40</b>	<b>51,10</b>	<b>87,30</b>	<b>158,00</b>



**1425GM**

Product description as Art. 1425GM

Long type.

Size		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
Useful length	mm	200	300	300	300	400	400	500
For extractors opening	mm	80-130	160-200	250-520	640	250-520	640	250-520
<b>1425GP</b>	Each	<b>40,40</b>	<b>75,50</b>	<b>120,00</b>	<b>210,00</b>	<b>148,00</b>	<b>244,00</b>	<b>154,00</b>
Size		<b>8</b>						
Useful length	mm	500						
For extractors opening	mm	640						
<b>1425GP</b>	Each	<b>294,00</b>						



**1425GP**

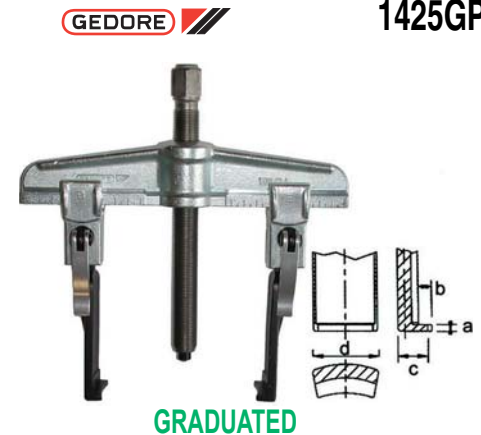
**RAPID ADJUSTMENT EXTRACTORS WITH TWO THIN ARMS**

**Orig. Gedore**

Made from hardened, forged steel.

Arms with a quick release lever which allows faster and more accurate adjustments. Wide range of use for both indoor and outdoor conditions. Interchangeable arms which can slide onto ground based fittings, and with thin legs which can fit into very narrow positions. The type of arms allows for parallel traction stresses. Zinc-chrome plated.

Max opening	mm	<b>100</b>	<b>140</b>	<b>160</b>	<b>200</b>
Useful length	mm	100	100	150	150
Maximum pressure:	t.	2	2,5	5	5
Weight	Kg	1	1,1	2,9	3,2
Height a	mm	3,7	3,7	5	5
Height b	mm	7,5	7,5	7	7
Height c	mm	13	13	17	17
Height d	mm	27	27	40	40
Screw x length Ø	mm	M 14x1,5x140	M 14x1,5x140	G 1/2x210	G 1/2x210
Supplier code		1.06/S1-E	1.06/S1A-E	1.06/S2-E	1.06/S2A-E
<b>1425GPE</b>	Each	<b>141,00</b>	<b>146,00</b>	<b>230,00</b>	<b>253,00</b>



**GRADUATED**

**1425GPE**

For spare arms see Art. 1425 GPF. For spare screws see Art. 1455 GA.

**SEPARATE THIN ARMS FOR RAPID ADJUSTMENT EXTRACTORS**
**1425GPF**

**Orig. Gedore**

Replacement arms in accordance with Art. 1425 GPE - 1433 GT - 1434 GP.

Useful length	mm	<b>100</b>	<b>150</b>
For extractors opening	mm	90-140	160-200
Supplier code		106/A-100-SE	106/B-150-SE
<b>1425GPF</b>	<b>Each</b>	<b>48,70</b>	<b>81,80</b>

**DOUBLE-GRIP PULLERS, RAPID ADJUSTMENT**
**1425GR**

**GRADUATED****Orig. Gedore**

Hot-stamped steel, hardened.

Arms with rapid release lever for a quicker and more precise adjustment. Wide range of use, inside/outside use. Interchangeable arms, sliding on ground guides. This kind of arms ensures parallel traction stresses. Zinc-chrome plated finish.

Max opening	mm	<b>90</b>	<b>130</b>	<b>160</b>	<b>200</b>	<b>250</b>	<b>350</b>
Useful length	mm	100	100	150	150	200	200
Weight	Kg	1,1	1,3	3,2	3,6	7,8	9,2
Screw x length Ø	mm	M	M	G 1/	G 1/	G 3/	G 3/
		14x1,5x140	14x1,5x140	2x210	2x210	4x280	4x280
Supplier code		1.06/1-E	1.06/1A-E	1.06/2-E	1.06/2A-E	1.06/3-E	1.06/3A-E
<b>1425GR</b>	<b>Each</b>	<b>104,00</b>	<b>112,00</b>	<b>187,00</b>	<b>205,00</b>	<b>337,00</b>	<b>367,00</b>

For spare arms see Art. 1425 GRHA. For spare screw (manual or hydraulic) see Art. 1455 GA - GB.

**ASSORTMENTS OF DOUBLE-GRIP PULLERS, RAPID ADJUSTMENT**
**1425GRE**

**Orig. Gedore - Art. 1.06/ST-E**

Composed of 5 pullers Art. 1425 GR, with sturdy sheet-steel display stand, also used for workshops.

Pullers opening: 90 - 130 - 160 - 200 - 250 mm.

<b>1425GRE</b>	<b>Each</b>	<b>940,00</b>
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Large assortment of rapid adjustment PULLERS available on request, on sheet steel panel.

**LOOSE ARMS FOR RAPID ADJUSTMENT PULLERS**
**1425GRHA**

**Orig. Gedore**

Replacement arms in accordance with Art. 1425 GR - 1425 GS - 1434 G.

Useful length	mm	<b>100</b>	<b>150</b>	<b>200</b>
For extractors opening	mm	90-130	160-200	250-350
Supplier code		106/A-100-E	106/B-150-E	106/C-200-E
<b>1425GRHA</b>	<b>Each</b>	<b>31,10</b>	<b>52,30</b>	<b>83,20</b>

**DOUBLE-GRIP PULLERS, RAPID ADJUSTMENT**
**1425GRL**

**Orig. Gedore**

Type with ribbed arm support, particularly sturdy and rigid, hot-stamped steel, subject to special hardening procedure to resist traction forces twice stronger than traditional pullers. Arms with rapid release lever for a quicker and more precise adjustment. Wide range of use, inside/outside use. Interchangeable arms, sliding on ground guides. This kind of arms ensures parallel traction stresses.

Pointed or ball-shaped tip of the threaded screw, interchangeable and reversible for a wide range of use.

Max opening	mm	<b>130</b>	<b>200</b>	<b>350</b>
Useful length	mm	100	150	200
Maximum pressure:	t.	6	10	15
Weight	Kg	1,2	3,4	8,7
Screw x length Ø	mm	M 14x1,5x140	G 1/2x210	G 3/4x280
Supplier code		1.04/HP1A	1.04/HP2A	1.04/HP3A
<b>1425GRL</b>	<b>Each</b>	<b>158,00</b>	<b>276,00</b>	<b>464,00</b>

Spare arms supplied on request.

In hot-stamped steel, hardened.

Patented model provided with lever for the quick adjustment of the middle screw. Arms with rapid release lever for a quicker and more precise adjustment. Wide range of use, both inside and outside. Interchangeable arms, sliding on ground guides. This kind of arms ensures parallel traction stresses. Zinc-chrome plated finish.

Max opening	mm	130	200	350
Useful length	mm	100	150	200
Maximum pressure:	t	3	5	7,5
Weight	Kg	1,5	4,1	10,2
Supplier code		1.08/1A	1.08/2A	1.08/3A
<b>1425GS</b>	<b>Each</b>	<b>277,00</b>	<b>424,00</b>	<b>650,00</b>

For spare and additional arms see Art. 1425 GRAH. For spare screws see Art. 1455 GA.  
Sizes mm 130 and 350 running out of stock.



**1425GS**



In hot-stamped steel, hardened.

Type provided with safety device to prevent arm accidental slipping. By pressing the push button the arms are moved on the cross-beam.

Inside/outside use. Interchangeable arms, sliding on ground guides. This kind of arms ensures parallel traction stresses. Zinc-chrome plated finish.

Max opening	mm	100	140	170	210	250	340
Useful length	mm	100	100	150	150	200	200
Maximum pressure:	t	3	3	5	5	7,5	7,5
Weight	Kg	0,9	1,3	2,8	3,3	6,7	7,5
Supplier code		1.06/11-B	1.06/1A1-B	1.06/21-B	1.06/2A1-B	1.06/31-B	1.06/3A1-B
<b>1425GT</b>	<b>Each</b>	<b>110,00</b>	<b>112,00</b>	<b>184,00</b>	<b>203,00</b>	<b>344,00</b>	<b>423,00</b>

Spare arms available on request. For manual or hydraulic spare screws see Art. 1455 GA - GB.



**1425GT**



**5**

**ASSORTMENTS OF DOUBLE-GRIP PULLERS, RAPID ADJUSTMENT**

Orig. Gedore - Art. 1.06/ST1-B

Composed of five strippers/extractors as per Art. 1425 GT placed on a sturdy metal holder for use in workshops and during repairs.

Extractor openings of: 100 - 140 - 170 - 210 - 250 mm.

<b>1425GZ</b>	<b>Each</b>	<b>949,00</b>
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**1425GZ**



**UNIVERSAL DOUBLE-GRIP PULLERS**

Prod. SCU

Made of forged steel.

For inside/outside use. Arms sliding on guides. Nickel-plated finish.

Max opening	mm	80	130	160	200	250	350	520
Useful length	mm	98	98	150	150	200	200	200
<b>1426</b>	<b>Each</b>	<b>40,10</b>	<b>47,20</b>	<b>94,40</b>	<b>105,00</b>	<b>214,00</b>	<b>227,00</b>	<b>397,00</b>

Spare arms for Art. 1426X80-130.

<b>O1426 1</b>	<b>Each</b>	<b>16,10</b>
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Spare arms for Art. 1426X160-200.

<b>O1426 2</b>	<b>Each</b>	<b>25,10</b>
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Spare arms for Art. 1426X250-350-520.

<b>O1426 3</b>	<b>Each</b>	<b>44,50</b>
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**1426**



**EXTRACTORS WITH FIXING CLAMP**

Orig. Gedore

Hot-stamped steel.

Safe and secure clamping of pieces.

Suitable for extracting joints, gears, bearings, rings, etc. Zinc-chrome plated finish.

Size		1	2	3
Max opening	mm	90	90	150
Useful length	mm	85	100	140
Supplier code		1.20/1	1.20/2	1.20/3
<b>1426A</b>	<b>Each</b>	<b>140,00</b>	<b>160,00</b>	<b>217,00</b>



**1426A**



**1426G****BUCO****Orig. Buco - Art. 83**

Made of hot pressed steel. Arms can be reversed.

The clamp allows safe and secure grab of pieces.

Suitable for extracting joints, gears, bearings, junk rings, etc.

Size		1	2	3
Max opening	mm	70	100	150
Useful length	mm	85	100	150
<b>1426G</b>	<b>Each</b>	<b>139,00</b>	<b>160,00</b>	<b>218,00</b>

**1427A****GEDORE****Orig. Gedore**

Hot-stamped steel.

Safe and secure clamping of pieces.

Suitable for extracting joints, gears, bearings, rings, etc. Zinc-chrome plated finish.

Steering, long arms and grabs to be used also as separator.

Size		1	2	3
Max opening	mm	110	160	160
Useful length	mm	170	260	325
Supplier code		1.22/1	1.22/2	1.22/3
<b>1427A</b>	<b>Each</b>	<b>241,00</b>	<b>304,00</b>	<b>347,00</b>

**1427G****BUCO****Orig. Buco - Art. 85**

Made of hot pressed steel.

The clamp allows safe and secure grab of pieces.

Suitable for extracting joints, gears, bearings, junk rings, etc.

Long arms and grabs to be used also as separator.

Size		1	2	3
Max opening	mm	100	145	160
Useful length	mm	175	270	410
<b>1427G</b>	<b>Each</b>	<b>240,00</b>	<b>304,00</b>	<b>345,00</b>

**UNIVERSAL PULLERS****1427GE****GEDORE****Orig. Gedore**

CHROME-VANADIUM steel.

Suitable for all extracting operations. Handy and stress-resistant. Adjustment of arms in traction.

Chrome-plated finish.

Two-arm type.

Size		0	1	2	3
Max opening	mm	70	90	130	180
Useful length	mm	80	120	160	200
Supplier code		1.12/0	1.12/1	1.12/2	1.12/3
<b>1427GE</b>	<b>Each</b>	<b>55,10</b>	<b>92,10</b>	<b>138,00</b>	<b>189,00</b>

**1427GL****GEDORE**

Product description as Art. 1427GE

Three-arm type.

Size		0	1	2	3
Max opening	mm	70	90	130	180
Useful length	mm	80	120	160	200
Supplier code		1.13/0	1.13/1	1.13/2	1.13/3
<b>1427GL</b>	<b>Each</b>	<b>77,10</b>	<b>124,00</b>	<b>184,00</b>	<b>247,00</b>

**STEERING ARMS PULLERS**

**Orig. Gedore**

Sturdy type, CHROME-VANADIUM steel. Suitable for extracting ball bearings, gears, etc. Hook dual-purpose steering arms. Automatic blocking device.

Two-arm type.

Size		0	1	2	3
Max opening	mm	90	160	220	320
Useful length	mm	80	130	170	260
Supplier code		1.10/1	1.10/2	1.10/3	1.10/4
<b>1428C</b>	<b>Each</b>	<b>85,10</b>	<b>144,00</b>	<b>162,00</b>	<b>278,00</b>



**1428C**



Product description as Art. 1428C

Three-arm type.

Size		0	1	2	3
Max opening	mm	90	160	220	320
Useful length	mm	80	130	170	260
Supplier code		1.11/1	1.11/2	1.11/3	1.11/4
<b>1428F</b>	<b>Each</b>	<b>110,00</b>	<b>183,00</b>	<b>217,00</b>	<b>384,00</b>



**1428F**



Pullers with max opening 400mm available on request.

**Orig. Buco - Art. 20**

Sturdy type, made of forged steel. Suitable for extracting ball bearings, gears, etc. Hooked dual-purpose steering arms. Automatic blocking device.

Two-arm type

Size		1	2
Max opening	mm	150	200
Useful length	mm	80	130
<b>1428GA</b>	<b>Each</b>	<b>76,30</b>	<b>127,00</b>



**1428GA**



**Orig. Buco - Art. 21**

Product description as Art. 1428GA

Three-arm type

Size		1	2
Max opening	mm	150	200
Useful length	mm	80	130
<b>1428GB</b>	<b>Each</b>	<b>101,00</b>	<b>169,00</b>



**1428GB**



**EXTENSIBLE ARM EXTRACTORS**

**Orig. Gedore**

Strengthened type, CHROME-VANADIUM steel. In traction, it automatically gets clamped to the parts to extract. Arms with holes for extension.

Two-arm type.

Size		00	0	1	2	3
Max opening	mm	90	130	200	250	280
Useful length	mm	100	140	210	260	390
Supplier code		1.14/0	1.14/1	1.14/2	1.14/3	1.14/4
<b>1429D</b>	<b>Each</b>	<b>54,70</b>	<b>72,30</b>	<b>128,00</b>	<b>196,00</b>	<b>239,00</b>



**1429D**



Pullers with max opening 420mm available on request.

1429E



Product description as Art. 1429D

Three-arm type.

Size		00	0	1	2	3
Max opening	mm	90	130	200	250	280
Useful length	mm	100	140	210	260	390
Supplier code		1.15/0	1.15/1	1.15/2	1.15/3	1.15/4
<b>1429E</b>	<b>Each</b>	<b>73,90</b>	<b>93,10</b>	<b>161,00</b>	<b>249,00</b>	<b>314,00</b>

Pullers with max opening 420mm available on request.

1429GA



Orig. Buco - Art. 22

Strengthened type, made of special steel. In traction, it automatically gets clamped to the parts to extract. Arms with holes for extension.

Two-arm type

Size		0	1	2	3
Max opening	mm	120	165	230	300
Useful length	mm	120	145	220	270
<b>1429GA</b>	<b>Each</b>	<b>60,90</b>	<b>71,70</b>	<b>121,00</b>	<b>195,00</b>

1429GB



Orig. Buco - Art. 23

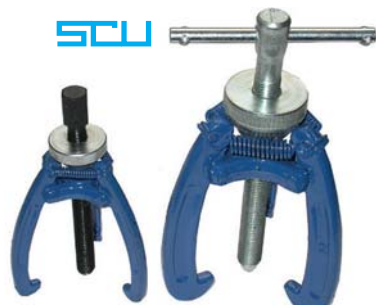
Product description as Art. 1429GA

Three-arm type

Size		0	1	2	3
Max opening	mm	120	165	230	300
Useful length	mm	120	145	220	270
<b>1429GB</b>	<b>Each</b>	<b>81,20</b>	<b>92,40</b>	<b>157,00</b>	<b>249,00</b>

UNIVERSAL TRIPLE GRIP PULLERS

1431



60 80 - 120 - 160

Prod. SCU

Made of forged steel with 3 jaws for inside/outside use.

Hardened jaws.

Max opening	mm	60	80	120	160
Useful length	mm	50	60	90	110
Weight	Kg	0,25	0,7	1,2	2
<b>1431</b>	<b>Each</b>	<b>19,90</b>	<b>24,70</b>	<b>31,50</b>	<b>35,60</b>

1431E



Made of forged steel. Sturdy type. With 3 sliding and revertible arms for inside/outside use. Nickel-plated finish.

Type		90	120	160	180	250	300	300A
Max opening	mm	90	120	160	180	250	300	300
Useful length	mm	75	100	100	140	250	250	300
Weight	Kg	0,85	1,5	2	3,9	12	13	16
<b>1431E</b>	<b>Each</b>	<b>33,10</b>	<b>44,50</b>	<b>53,40</b>	<b>83,70</b>	<b>275,00</b>	<b>312,00</b>	<b>321,00</b>

**Orig. Buco - Art. 13**

Made of steel. With arms forged in one piece.

Strong H-beam arm rest with trapezoidal stiffener. Heavy-duty type. Reversible arms for inside/outside use. Easy sliding opening with automatic stop in traction.

Size		1A	2	2A
Max opening	mm	120	160	200
Useful length	mm	100	150	150
Weight	Kg	1,4	3,7	4,3
<b>1433G</b>	<b>Each</b>	<b>140,00</b>	<b>243,00</b>	<b>268,00</b>

For spare and additional arms see Art. 1423 GA and 1423 GB. Sizes 2 and 2A may be supplied with hydraulic pivot on request.



**1433G**

**UNIVERSAL TRIPLE GRIP EXTRACTORS, THIN ARMS.**

**Orig. Gedore**

Hot-stamped steel.

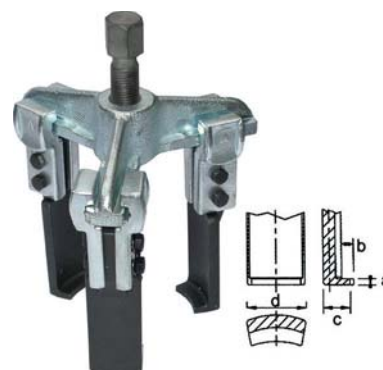
Wide range of use, inside/outside use. Normal and long arms, interchangeable, sliding on ground guides with thin ends and feet to be inserted in very narrow spaces. This kind of arms ensures parallel traction stresses. Zinc-chrome plated finish.

Max opening	mm	90	130	160	200
Useful length	mm	100	100	150	150
Maximum pressure:	t.	2,5	2,5	5,0	5,0
Weight	Kg	1,3	1,4	3,6	4
Height a	mm	3,6	3,6	5	5
Height b	mm	7,5	7,5	7	7
Height c	mm	13	13	17	17
Height d	mm	27	27	40	40
Screw x length Ø	mm	M 14x1,5x140	M 14x1,5x140	G 1/2x210	G 1/2x210
Supplier code		1.07/S1	1.07/S1A	1.07/S2	1.07/S2A
<b>1433GA</b>	<b>Each</b>	<b>188,00</b>	<b>208,00</b>	<b>340,00</b>	<b>363,00</b>

Spare arms can be supplied on request. For spare screw see Art. 1455 GA.



**1433GA**



**5**

**ASSORTMENT OF EXTRACTORS WITH THREE THIN ARMS**

**Orig. Gedore - Art. 1.07/AS**

Hot-stamped steel.

Wide range of use, inside/outside use. Normal and long arms supplied, interchangeable, sliding on ground guides with thin ends and feet to be inserted in very narrow spaces. This kind of arms ensures parallel traction stresses. Zinc-chrome plated finish.

Composition:

- 1 cross-beam rest for 3 arms max. aperture 130mm
- 3 arms length 100mm
- 3 arms length 200mm
- 3 arms length 250mm

<b>1433GAM</b>	<b>Per set</b>	<b>586,00</b>
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Spare arms can be supplied on request.



**1433GAM**



**ASSORTMENT OF EXTRACTORS WITH THIN ARMS**

**Orig. Gedore - Art. 1.07/K**

Composed of extractors with 2 or 3 thin arms of varying length, which can slide onto ground fittings, and which can be inserted into very narrow positions. The type of arms allows for parallel traction stresses. T shaped cross pieces, reinforced. Zinc-chrome plated.

Comprising:

- 3 arms, length 100/200/250mm
- 1 cross-beam with 2 arms, max. aperture 130mm
- 1 cross-beam with 3 arms, max. aperture 130mm
- 2 threaded screws M 14 x 1.5 x 140 (Art. 1455 GA 1).

Complete set. In a case.

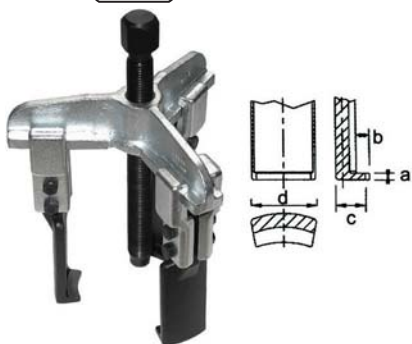
<b>1433GAR</b>	<b>Each</b>	<b>680,00</b>
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Spare parts can be supplied on request.



**1433GAR**



**UNIVERSAL TRIPLE GRIP EXTRACTORS, THIN ARMS.**
**1433GB****BUCO****Orig. Buco - Art. 17**

Made of forged and hardened steel.

Wide range of use, inside/outside use. Normal and long arms, interchangeable, sliding on ground guides with thin feet to be inserted in very narrow spaces. This kind of arms gives parallel traction stresses. Zinc-chrome plated finish.

Max opening	mm	<b>80</b>	<b>130</b>	<b>160</b>	<b>200</b>
Useful length	mm	100	100	150	150
Maximum pressure:	t.	5,5	5,5	7	7
Weight	Kg	1,4	1,6	3,6	4
Height a	mm	3,6	3,6	5	5
Height b	mm	7,5	7,5	7	7
Height c	mm	13	13	17	17
Height d	mm	27	27	40	40
<b>1433GB</b>	<b>Each</b>	<b>170,00</b>	<b>179,00</b>	<b>318,00</b>	<b>353,00</b>

**ARMS FOR PULLERS**
**1433GC****BUCO****Orig. Buco**

Set of 3 arms complete with connections and bolts. For Art. 1433 GB.

Standard type.

Useful length	mm	<b>100</b>	<b>150</b>
For extractors opening	mm	80-130	160-200
<b>1433GC</b>	<b>Per set</b>	<b>115,00</b>	<b>206,00</b>

**1433GD****BUCO**

Product description as Art. 1433GC

Long type.

Useful length	mm	<b>200</b>	<b>220</b>	<b>250</b>	<b>300</b>
For extractors opening	mm	80-130	160-200	80-130	160-200
<b>1433GD</b>	<b>Per set</b>	<b>148,00</b>	<b>250,00</b>	<b>170,00</b>	<b>261,00</b>

**UNIVERSAL TRIPLE GRIP PULLERS**
**1433GDP****GEDORE****Orig. Gedore**

Hot-stamped steel.

Wide range of use, inside/outside use.

Normal and long arms, interchangeable, sliding on ground guides.

This kind of arms ensures parallel traction stresses.

Zinc-chrome plated finish.

Max opening	mm	<b>90</b>	<b>130</b>	<b>160</b>	<b>200</b>	<b>250</b>
Useful length	mm	100	100	150	150	200
Weight	Kg	1,4	1,6	3,6	4	9
Screw x length Ø	mm	M 14x1,5x140	M 14x1,5x140	G 1/2x210	G 1/2x210	G 3/4x280
Supplier code		1.07/1	1.07/1A	1.07/2	1.07/2A	1.07/3
<b>1433GDP</b>	<b>Each</b>	<b>137,00</b>	<b>147,00</b>	<b>259,00</b>	<b>285,00</b>	<b>496,00</b>

For spare arms and additional accessories see Art. 1424 GPA - 1424 GRA. For spare screw (manual or hydraulic) see Art. 1455 GA - GB.

**1433GE****BUCO****Orig. Buco - Art. 17**

Product description as Art. 1433GDP

Max opening	mm	<b>80</b>	<b>120</b>	<b>160</b>	<b>200</b>
Useful length	mm	100	100	150	150
Weight	Kg	1,4	1,6	3,6	4
<b>1433GE</b>	<b>Each</b>	<b>139,00</b>	<b>148,00</b>	<b>272,00</b>	<b>291,00</b>

For spare and additional arms see Art. 1425 GM 1-2 and 1425 GP 1-2.



**Orig. Gedore - Art. 1.07/4**

Hardened steel body, CHROME-VANADIUM steel arms.  
Heavy type for heavy-duty works, with clamp for both inside/outside use.  
Normal and long arms, interchangeable. This kind of arms ensures parallel traction stresses.

Max opening	mm	450
Useful length	mm	200
Maximum pressure:	t	10
Weight	Kg	19
Screw x length Ø	mm	G 1x360

**1433GH** Each **1.160,00**

When the threaded screw and reduction is removed the extractor can be used with hydraulic system Art. 1446 GA.

For spare arms and additional accessories see Art. 1424 GPA 3 - 1424 GRA 3-4-5. For spare screw (manual or hydraulic) see Art. 1455 G



**1433GH**

**Orig. Buco - Art. 17**

Made of forged and hardened steel. Heavy type, of large size.  
Wide range of use, inside/outside use.  
Normal and long arms, interchangeable, sliding on ground guides.  
This kind of arms gives parallel traction stresses.

Max opening	mm	250	380	520	640
Useful length	mm	200	200	200	200
Weight	Kg	8,6	19	22	26

**1433GL** Each **541,00** **1.050,00** **1.230,00** **1.290,00**

For spare and additional arms see Art. 1425 GM 3-4 and 1425 GP 3-4-5-6-7-8.



**1433GL**

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**STANDARD TRIPLE GRIP PULLERS**

**Orig. Buco - Art. HY17**

Hydraulic pivot type.  
Made of forged steel. Heavy type, of large size.  
Wide range of use, inside/outside use.  
Normal and long arms, interchangeable.  
This kind of arms gives parallel traction stresses.  
Acting by means of a key on the upper screw of the pivot, the operator will obtain hydraulic pressures equal to some tons.

Max opening	mm	380	520	640
Useful length	mm	200	200	200
Maximum pressure:	t.	15	15	15
Weight	Kg	23	26	29

**1433GR** Each **1.430,00** **1.750,00** **1.810,00**

For spare and additional arms see Art. 1425 GM 3-4 and 1425 GP 3-4-5-6-7-8.



**1433GR**

**RAPID ADJUSTMENT EXTRACTORS WITH THREE THIN ARMS**

**Orig. Gedore**

Made from hardened, forged steel.  
Arms with a quick release lever which allows faster and more accurate adjustments. Wide range of use for both indoor and outdoor conditions. Interchangeable arms which can slide onto ground based fittings, and with thin legs which can fit into very narrow positions. The type of arms allows for parallel traction stresses. Zinc-chrome plated.

Max opening	mm	90	130	160	200
Useful length	mm	100	100	150	150
Maximum pressure:	t.	2,5	2,5	5,0	5,0
Weight	Kg	1,3	1,4	3,6	3,9
Height a	mm	3,7	3,7	5	5
Height b	mm	7,5	7,5	7	7
Height c	mm	13	13	17	17
Height d	mm	27	27	40	40
Screw x length Ø	mm	M 14x1,5x140	M 14x1,5x140	G 1/2x210	G 1/2x210
Supplier code		1.07/S1-E	1.07/S1A-E	1.07/S2-E	1.07/S2A-E

**1433GT** Each **200,00** **221,00** **357,00** **369,00**

For spare arms see Art. 1425 GPF.



**1433GT**

**TRIPLE GRIP PULLERS, RAPID ADJUSTMENT**
**1434G** 

**Orig. Gedore**

Hot-stamped steel, hardened.

Arms with rapid release lever for a quicker and more precise adjustment. Wide range of use, inside/outside use. Interchangeable arms, sliding on ground guides. This kind of arms ensures parallel traction stresses. Zinc-chrome plated finish.

Max opening	mm	<b>90</b>	<b>130</b>	<b>160</b>	<b>200</b>	<b>250</b>
Useful length	mm	100	100	150	150	200
Weight	Kg	1,4	1,6	3,6	4	9
Screw x length Ø	mm	M 14x1,5x140	M 14x1,5x140	G 1/2x210	G 1/2x210	G 3/4x280
Supplier code		1.07/1-E	1.07/1A-E	1.07/2-E	1.07/2A-E	1.07/3-E
<b>1434G</b>	<b>Each</b>	<b>144,00</b>	<b>153,00</b>	<b>266,00</b>	<b>292,00</b>	<b>503,00</b>

For spare arms see Art. 1425 GRHA. For spare screw (manual or hydraulic) see Art. 1455 GA - GB.

**1434GA** 


In hot-stamped steel, hardened.

Type provided with safety device to prevent arm accidental slipping. By pressing the push button the arms are moved on the cross-beam.

Inside/outside use. Interchangeable arms, sliding on ground guides. This kind of arms ensures parallel traction stresses. Zinc-chrome plated finish.

Max opening	mm	<b>90</b>	<b>130</b>	<b>160</b>	<b>200</b>	<b>250</b>
Useful length	mm	100	100	150	150	200
Maximum pressure:	t	3	3	5	5	7,5
Weight	Kg	1,2	1,4	3,5	3,7	8
Supplier code		1.07/11-B	1.07/1A-B	1.07/21-B	1.07/2A1-B	1.07/31-B
<b>1434GA</b>	<b>Each</b>	<b>140,00</b>	<b>147,00</b>	<b>265,00</b>	<b>279,00</b>	<b>521,00</b>

Spare arms available on request. For manual or hydraulic spare screws see Art. 1455 GA - GB.

**ASSORTMENT OF RAPID ADJUSTMENT EXTRACTORS WITH THIN ARMS**
**1434GP** 

**Orig. Gedore - Art. 1.07/K-1-SE**

Composed of extractors with 2 or 3 thin arms of varying length, which can slide onto ground fittings using a quick release lever which allows a faster and more accurate adjustment. The type of arms allows for parallel traction stresses. T shaped cross pieces, reinforced. Zinc-chrome plated.

Comprising:

3 arms, length 100mm (Art. 1425 GPF 100)

1 cross-beam with 2 arms, max. aperture 90mm

1 cross-beam with 3 arms, max. aperture 90mm

2 threaded screws M 14 x 1.5 x 140 (Art. 1455 GA 1).

Complete set. In a case.

<b>1434GP</b>	<b>Each</b>	<b>277,00</b>
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**UNIVERSAL TRIPLE GRIP PULLERS**
**1435** 

**Prod. SCU**

Made of forged steel with 3 adjustable and invertible jaws for inside/outside use.

Hardened jaws.

Max opening	mm	325
Useful length	mm	180
Weight	Kg	2,2
<b>1435</b>	<b>Each</b>	<b>64,70</b>

**1436** 


Made of forged steel with 3 adjustable and invertible jaws for inside/outside use.

Hardened jaws. Suitable for medium and hard works.

Max opening	mm	<b>350</b>	<b>425</b>	<b>500</b>	<b>700</b>
Useful length	mm	200	230	250	400
Weight	Kg	6	10	20	25
<b>1436</b>	<b>Each</b>	<b>112,00</b>	<b>175,00</b>	<b>296,00</b>	<b>418,00</b>

**HEAVY-DUTY EXTRACTORS, DOUBLE OR TRIPLE GRIP, GREAT DEPTH**

**Orig. Gedore**

Hot-stamped steel. Particularly suitable for industrial use, farm machines and building industry.  
Heavy type.

Two-arm type.

Size		1	2
Max opening	mm	280	420
Useful length	mm	300	420
Weight	Kg	8	10
Supplier code		1.16/1	1.16/2
<b>1437B</b>	<b>Each</b>	<b>367,00</b>	<b>390,00</b>



**1437B**

Product description as Art. 1437B

Three-arm type.

Size		1	2
Max opening	mm	300	425
Useful length	mm	300	425
Weight	Kg	9,7	13,2
Supplier code		1.17/1	1.17/2
<b>1437F</b>	<b>Each</b>	<b>459,00</b>	<b>493,00</b>



**1437F**

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**Orig. Buco - Art. 24**

Made of hot pressed steel. Arms may be moved on the plate rest and set at the required position.  
Heavy type.

Two-arm type

Size		1	2
Max opening	mm	350	500
Useful length	mm	325	500
Weight	Kg	10,9	12,6
<b>1437G</b>	<b>Each</b>	<b>381,00</b>	<b>440,00</b>



**1437G**

**Orig. Buco - Art. 25**

Product description as Art. 1437G

Three-arm type

Size		1	2
Max opening	mm	350	500
Useful length	mm	325	500
Weight	Kg	13,3	15,7
<b>1437GA</b>	<b>Each</b>	<b>513,00</b>	<b>541,00</b>



**1437GA**

**SEPARATORS AND PULLERS**

**Orig. Gedore**

CHROME-VANADIUM steel.

Sturdy type.

SEPARATORS

Size		0	1	2	3	4	5
Max opening	mm	5-60	12-75	22-115	30-155	30-200	30-250
For extractors Art. 1440BE		0	1	2	3	4	5
Supplier code		1.40/0	1.40/1	1.40/2	1.40/3	1.40/4	1.40/5
<b>1440B</b>	<b>Each</b>	<b>81,20</b>	<b>103,00</b>	<b>159,00</b>	<b>248,00</b>	<b>522,00</b>	<b>943,00</b>



**1440B**

**1440BE**



Product description as Art. 1440B  
PULLERS - For separators Art. 1440 B.

Size	0	1	2	3	4	5
Max opening mm	120	165	215	300	380	440
Useful length mm	160	230	250	270	350	400
For separators Art. 1440B	0	1	2	3	4	5
Supplier code	1.38/0	1.38/1	1.38/2	1.38/3	1.38/4	1.38/5
<b>1440BE</b> Each	<b>74,10</b>	<b>121,00</b>	<b>180,00</b>	<b>271,00</b>	<b>526,00</b>	<b>704,00</b>

**1440BM**



Product description as Art. 1440B  
Spare THREADED ARMS

Size	0	1	2	3	4	5
For extractors Art. 1440BE	0	1	2	3	4	5
Supplier code	138/015	138/115	138/215	138/315	138/415	138/515
<b>1440BM</b> Each	<b>22,60</b>	<b>30,40</b>	<b>39,60</b>	<b>47,30</b>	<b>71,40</b>	<b>88,90</b>

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**1440BT**



Product description as Art. 1440B  
EXTENSIONS

Size	1	2	3	4	5
Overall length mm	100	100	100	200	200
For extractors Art. 1440BE	0-1	2	3	4	5
Supplier code	1.38/AV	1.38/CV	1.38/DV	1.38/EV	1.38/FV
<b>1440BT</b> Per pair	<b>19,20</b>	<b>27,90</b>	<b>31,80</b>	<b>54,10</b>	<b>77,80</b>

**1440GA**



**Orig. Buco - Art. 60**  
Made of forged steel, hardened working parts.  
Sturdy type. Silver-colour lacquering.  
SEPARATORS.

Size	0	1	2	3	4	5
Max opening mm	5-60	12-75	22-115	30-155	30-200	40-280
For extractors Art. 1440GAB	0	1	2	3	4	5
<b>1440GA</b> Each	<b>77,10</b>	<b>98,40</b>	<b>160,00</b>	<b>257,00</b>	<b>535,00</b>	<b>1.220,00</b>

**1440GAB**



**Orig. Buco - Art. 62**  
Product description as Art. 1440GA  
EXTRACTORS - For separators Art. 1440 GA - 1440 GE

Size	0	1	2	3	4	5
Max opening mm	110	140	215	295	350	435
Useful length mm	110	155	200	315	305	320
For separators Art. 1440GA-E	0	1	2	3	4	5
<b>1440GAB</b> Each	<b>71,20</b>	<b>113,00</b>	<b>176,00</b>	<b>278,00</b>	<b>562,00</b>	<b>979,00</b>

**1440GAC**



**Orig. Buco - Art. ZB**  
Product description as Art. 1440GA  
Spare THREADED ARMS.

Size	0	1	2	3	4	5
For extractors Art. 1440GAB	0	1	2	3	4	5
<b>1440GAC</b> Each	<b>15,20</b>	<b>21,10</b>	<b>27,20</b>	<b>75,90</b>	<b>75,90</b>	<b>172,00</b>

**1440GD**



**Orig. Buco - Art. ZBV**  
Product description as Art. 1440GA  
EXTENSIONS.

Size	1	2	3
Overall length mm	100	150	150
For extractors Art. 1440GAB	1	2	3-4
<b>1440GD</b> Each	<b>12,40</b>	<b>14,60</b>	<b>41,10</b>

Extensions for Size 0 and 5 are supplied on request.

Prices in EURO - VAT not included

**Orig. Buco - Art. 61**

Made of forged steel

Hardened working parts.

For a quick spot-focusing and separation of the piece by means of the pressure on one lever.

After separation it is used in combination with extractor Art. 1440 GAB.

Size		0	1	2	3
Max opening	mm	5-60	12-75	22-115	30-155
Weight	Kg	0,9	1,2	2,7	6,3
For extractors Art. 1440GAB		0	1	2	3
<b>1440GE</b>	<b>Each</b>	<b>119,00</b>	<b>139,00</b>	<b>231,00</b>	<b>351,00</b>



**1440GE**

**PULLER SETS WITH SEPARATORS**

**Orig. Gedore - Art. 1.41/0**

Assortments in sturdy metal box.

Composition:

1 Separator Art. 1440 B x Size 0

1 Extractor Art. 1440 BE x Size 0

2 Extensions Art. 1440 BT x Size 1

<b>1441B 1</b>	<b>Each</b>	<b>241,00</b>
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**Orig. Gedore - Art. 1.41/1**

Product description as Art. 1441B 1

Composition:

1 Separator Art. 1440 B x Size 1

1 Extractor Art. 1440 BE x Size 1

2 Extensions Art. 1440 BT x Size 1

<b>1441B 2</b>	<b>Each</b>	<b>324,00</b>
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**Orig. Gedore - Art. 1.41/2**

Product description as Art. 1441B 1

Composition:

1 Separator Art. 1440 B x Size 2

1 Extractor Art. 1440 BE x Size 2

2 Extensions Art. 1440 BT x Size 2

<b>1441B 3</b>	<b>Each</b>	<b>447,00</b>
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**Orig. Gedore - Art. 1.41/3**

Product description as Art. 1441B 1

Composition:

1 Separator Art. 1440 B x Size 3

1 Extractor Art. 1440 BE x Size 3

2 Extensions Art. 1440 BT x Size 3

<b>1441B 4</b>	<b>Each</b>	<b>658,00</b>
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**1441B 1**  
**1441B 2**  
**1441B 3**  
**1441B 4**

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**Orig. Buco - Art. K62/0**

Sets In box.

The set is composed of:

1 separator Art. 1440 GA Size 0

1 extractor Art. 1440 GAB Size 0

2 extensions Art. 1440 GD Size 1.

<b>1441GA</b>	<b>Each</b>	<b>260,00</b>
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**Orig. Buco - Art. K62/1**

Product description as Art. 1441GA

The set is composed of:

1 separator Art. 1440 GA Size 1

1 extractor Art. 1440 GAB Size 1

2 extensions Art. 1440 GD Size 1.

<b>1441GC</b>	<b>Each</b>	<b>316,00</b>
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**Orig. Buco - Art. K62/2**

Product description as Art. 1441GA

The set is composed of:

1 separator Art. 1440 GA Size 2

1 extractor Art. 1440 GAB Size 2

2 extensions Art. 1440 GD Size 2.

<b>1441GD</b>	<b>Each</b>	<b>462,00</b>
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**Orig. Buco - Art. K62/3**

Product description as Art. 1441GA

The set is composed of:

1 separator Art. 1440 GA Size 3

1 extractor Art. 1440 GAB Size 3

2 extensions Art. 1440 GD Size 3.

<b>1441GE</b>	<b>Each</b>	<b>680,00</b>
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**1441GA**  
**1441GC**  
**1441GD**  
**1441GE**



1441GP  
1441GS

**BUCO**



**Orig. Buco - Art. K20 60**

Suitable for extractors with 2/3 arms, with easy replacement of the flange with 2 or 3 connections. In sturdy metal box.

The set is composed of:

- 1 double grip puller 1428 GA Size 1
- 1 loose arm for the a.m.
- 1 flange with 3 connections for the a.m.
- 1 double grip puller 1428 GA Size 2
- 1 loose arm for the a.m.
- 1 flange with 3 connections for the a.m.
- 1 separator 1440 GA Size 1
- 1 separator 1440 GA Size 2.

**1441GP** Each **670,00**

**Orig. Buco - Art. K22 60**

Product description as Art. 1441GP

The set is composed of:

- 1 double grip extractor 1429 GA Size 1
- 1 loose arm for the a.m.
- 1 flange with 3 connections for the a.m.
- 1 double grip puller 1429 GA Size 2
- 1 loose arm for the a.m.
- 1 flange with 3 connections for the a.m.
- 1 separator 1440 GA Size 1
- 1 separator 1440 GA Size 2.

**1441GS** Each **671,00**

**UNIVERSAL HUB PULLERS**

1443

**SCU**



**Prod. SCU**

Arms are able to be moved on the plate bearing.

The axial motion of the strong threaded pivot allows an optimal percussion in case of difficult extraction.

Nickel-plated finish.

Model with arms	Nr	3	4	5
Max opening	mm	200	200	200
Useful length	mm	140	140	140
Weight	Kg	4	4,5	5
<b>1443</b>	<b>Each</b>	<b>83,70</b>	<b>90,80</b>	<b>99,70</b>

**BALL JOINT PULLERS**

1443GP

**BUCO**



**Orig. Buco - Art. 181**

Made of special steel. Suitable for working in narrow spaces.

Size		1	3	4
Fork opening	mm	23	28	34
Useful internal height	mm	55	55	63
<b>1443GP</b>	<b>Each</b>	<b>90,50</b>	<b>108,00</b>	<b>109,00</b>

1444A

**GEDORE**



**Orig. Gedore**

High-resistance forged and hardened steel.

Zinc-chrome plated finish.

Size		2	3	4	5
Fork opening	mm	18	23	27	37
Spherical opening	mm	40	50	60	75
Useful internal height	mm	35	45	56	78
Supplier code		1.72/1	1.72/2	1.72/3	1.72/4
<b>1444A</b>	<b>Each</b>	<b>51,10</b>	<b>69,30</b>	<b>88,80</b>	<b>116,00</b>

1444G

**BUCO**



**Orig. Buco - Art. 180**

Made of forged and hardened heavy duty steel.

Silver-color lacquering.

Size		2	3	4	5	6
Fork opening	mm	18	23	29	36	46
Spherical opening	mm	37	45	55	70	90
Useful internal height	mm	37	45	60	80	100
<b>1444G</b>	<b>Each</b>	<b>49,50</b>	<b>67,10</b>	<b>85,40</b>	<b>113,00</b>	<b>176,00</b>

**Orig. Gedore**

Forged steel.  
 Suitable for extracting ball joints, even in places difficult to reach inside cars.  
 Adjustable pivot height.

Size		1	2
Fork opening	mm	23	32
Fork depth	mm	24	28
Vertical regulation range up to	mm	65	85
Weight	Kg	0,7	2,4
Supplier code		1.73/1	1.73/3
<b>1444GB</b>	<b>Each</b>	<b>102,00</b>	<b>208,00</b>



**1444GB**



**Orig. Buco - Art. 183**

Product description as Art. 1444GB

Fork opening	mm	22
Vertical regulation range by	mm	20 to 50
Weight	Kg	0,7
<b>1444GC</b>	<b>Each</b>	<b>92,70</b>



**1444GC**



**Orig. Gedore**

Forged steel, heavy type.  
 Suitable for extracting ball joints, even in places difficult to reach inside cars and trucks. Zinc-chrome plated finish.

Size		1	2
Fork opening	mm	20	20
Fork depth	mm	35	35
Vertical regulation range	mm	12-50	50-80
Weight	Kg	1,0	1,4
Supplier code		1.74/1	1.74/2
<b>1444GD</b>	<b>Each</b>	<b>162,00</b>	<b>203,00</b>



**1444GD**



**Orig. Buco - Art. 185**

Made of forged steel. Heavy type.  
 Suitable for extracting ball joints in places difficult to reach inside cars and trucks.

Size		1	2	4	5
Fork opening	mm	20	20	27-36	35-45
Vertical regulation range by	mm	50	80	90	115
Weight	Kg	1,3	1,6	3,0	6,0
<b>1444GE</b>	<b>Each</b>	<b>144,00</b>	<b>196,00</b>	<b>263,00</b>	<b>472,00</b>



**1444GE**



**FORK EXTRACTORS**

**Orig. Gedore**

Forged and hardened steel. Suitable for extracting ball joints from steering gears.  
 Percussion use. Zinc-chrome plated finish.

Fork opening	mm	18	23	29	40	45
Weight	Kg	0,8	0,8	1,0	1,1	1,2
Supplier code		1.70/1	1.70/2	1.70/3	1.70/4	1.70/5
<b>1444GER</b>	<b>Each</b>	<b>64,90</b>	<b>69,50</b>	<b>72,30</b>	<b>78,20</b>	<b>97,20</b>



**1444GER**



**Orig. Buco - Art. 190**

Made of alloyed forged and hardened steel. Suitable for extracting ball joints of steering gears.  
 Percussion use.

Fork opening	mm	18	23	29	40	45
Weight	Kg	0,7	0,75	0,8	0,9	1
<b>1444GF</b>	<b>Each</b>	<b>65,70</b>	<b>70,70</b>	<b>74,40</b>	<b>82,10</b>	<b>96,20</b>



**1444GF**



**STEERING WHEEL PULLERS**

**1445B**



**Orig. Gedore - Art. 1.68/1**  
 Universal type, with 3 arms in CHROME-VANADIUM steel, for 3/4 spoke steering wheels. With 2 support rings Ø 100 and 150mm. Rubber protection for steering wheels.  
 Weight 3 Kg.

**1445B** Each **167,00**

**1445GA**



**Orig. Buco - Art. 151**  
 Universal type, with 3 arms, suitable for 2/3 and 4 spoke steering wheels. With 2 support rings. Diameter 100 and 150mm. Rubber protections.  
 Weight 2.3 Kg.

**1445GA** Each **149,00**

**1445GC**



**Orig. Gedore - Art. 1.67/1**  
 4-arms type, particularly suitable for OPEL and FORD cars and other brands. Max opening 90mm/min 35mm. With 2 short arms and 2 long arms. Weight 0.6 Kg.

**1445GC** Each **193,00**

**1445GE**



**Orig. Buco - Art. 155**  
 With 4 arms, particularly suitable for brands like OPEL, FORD and others. Maximum opening: 90 mm. With two short and two long arms. Weight 1 kg.

**1445GE** Each **190,00**

**HYDRAULIC PRESSES FOR EXTRACTORS**

**1446A**  
**1446B**



**Orig. Gedore**  
 Reduced dimensions, high efficiency.  
 Placed between the pressure screw end and the piece to extract, strong uniform extracting power, no damage to the extracted pieces.

Art.		<b>1446A</b>	<b>1446B</b>
Pressure	t.	8	15
Piston stroke	mm	10	15
Head height	mm	75	90
Weight	Kg	0,7	1,3
Supplier code		1.55/1	1.55/2
<b>Each</b>		<b>192,00</b>	<b>226,00</b>



**Orig. Buco - Art. 15**

Product description as Art. 1446A

Art.	1446G 1	1446G 2
Pressure	t. 8	15
Piston stroke	mm 8	12
Head height	mm 50	75
Weight	Kg 0,5	1,8
<b>Each</b>	<b>212,00</b>	<b>248,00</b>



**1446G 1**  
**1446G 2**

**COIL SPRING COMPRESSORS**

**Orig. Gedore**

Extraction system with a hydraulic hand lever pump, separated from the thrust hydraulic cylinder. When used in combination with the dedicated pullers, it performs heavy duty extractions, straightening and repair works.

Hand lever pump provided with 1.5m high pressure flexible pipe.

Thrust hydraulic cylinder, max. pressure 10 t, Ø body thread MF 55x2, Ø thrust piston thread G 1.1/4.

Piston stroke	mm	140	200
Weight	Kg	14	15,1
Supplier code		1.50/10	1.50/11
<b>1446GA</b>	<b>Each</b>	<b>2.320,00</b>	<b>2.550,00</b>



**1446GA**

Extensions for hydraulic extractor pistons in accordance with Art. 1446 GA 140-200. The 15 mm length also serves as protection for the piston. For lengths of between 45 and 205 mm, an adapter will also be required in accordance with 1446 GAL.

Useful length	mm	15	45	125	205
Overall length	mm	43	95	170	250
Supplier code		1.51/V015	1.51/V045	1.51/V125	1.51/V205
<b>1446GAF</b>	<b>Each</b>	<b>123,00</b>	<b>115,00</b>	<b>133,00</b>	<b>148,00</b>



**1446GAF**

**Orig. Gedore - Art. 1.51/A-2**

Adapter for installing extension pieces in accordance with Art. 1446 GAF 45 -125 - 205 on hydraulic extractor pistons in accordance with Art. 1446 GA 140 - 200.

<b>1446GAL</b>	<b>Each</b>	<b>71,20</b>
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**1446GAL**

**Orig. Gedore - Art. 1.06/40**

Hardened steel body, CHROME-VANADIUM steel arms.

Heavy type for heavy-duty works, with clamp for both inside/outside use.

Normal and long arms, interchangeable. This kind of arms ensures parallel traction stresses.

TWO-ARM PULLERS FOR ART. 1446 GA

Threaded hole MF 55x2.

Opening	mm	<b>520</b>
Useful length	mm	200
Maximum pressure:	t	10
Weight	Kg	11
<b>1446GB</b>	<b>Each</b>	<b>495,00</b>



**1446GB**

For a puller having similar characteristics but with three arms and a 450mm opening, see Art. 1433 GH.

**1446GC** 
**Orig. Gedore**

Hardened steel body, CHROME-VANADIUM steel arms.

Fixed type, heavy for heavy-duty works.

Self-tightening arms.

THREE-ARM PULLERS FOR ART. 1446 GA

Threaded hole MF 55x2.

Max. pressure 12 t.

Opening	mm	300	425
Useful length	mm	300	425
Weight	Kg	9,1	12,4
Supplier code		1.17/10	1.17/20
<b>1446GC</b>	<b>Each</b>	<b>496,00</b>	<b>529,00</b>

**1446GE** 


Hardened steel body, CHROME-VANADIUM steel arms.

Adjustable type, heavy for heavy-duty works, with clamp for both inside/outside use.

Self-tightening arms.

THREE-ARM PULLERS FOR ART. 1446 GA

Threaded hole MF 55x2.

Max. pressure 12 t.

Opening	mm	250	280
Useful length	mm	260	390
Weight	Kg	9	9,2
Supplier code		1.15/30	1.15/40
<b>1446GE</b>	<b>Each</b>	<b>366,00</b>	<b>427,00</b>

**PULLERS FOR PLASTIC FANS**
**1447GA** 
**Orig. Buco - Art. 904**

Suitable for the extraction of electric motor fans.

Thin arms are inserted into the spokes of the fan to reach and grab the hub.

Number of arms		2
Arms opening	mm	0-200
Useful length	mm	200
Weight	Kg	0,8
<b>1447GA</b>	<b>Each</b>	<b>111,00</b>

**1447GB** 
**Orig. Buco - Art. 905**

Product description as Art. 1447GA

Number of arms		3
Arms opening	mm	0-200
Useful length	mm	200
Weight	Kg	1,1
<b>1447GB</b>	<b>Each</b>	<b>149,00</b>

**COIL SPRING COMPRESSORS**

**Orig. Gedore**

Suitable for compressing and blocking expansion springs, even with few turns but very strong (up to 2000Kg).

Devices made up of a couple of threaded bars complete with 2 sliding toes and pressure nuts. The device is also equipped with a SAFETY ARC for a proper positioning so as to avoid accidental detachments.

Size		1	2	3
Max use length	mm	180	280	380
Weight	Kg	2,2	2,5	2,8
Supplier code		1.78/S1	1.78/S2	1.78/S3
<b>1450A</b>	<b>Per pair</b>	<b>189,00</b>	<b>202,00</b>	<b>212,00</b>

For SPRING LOCKING tools ask for Orig. KLANN catalogue  
Size 1 running out of stock.



**1450A**

**Orig. Buco - Art. 909**

To be used in couple. Each one is composed of a threaded bar, two sliding toes and nuts. Suitable for compressing and blocking expansion springs with few turns but very strong.

Size		1	2	3
Max use length	mm	200	300	400
<b>1450G</b>	<b>Per pair</b>	<b>124,00</b>	<b>130,00</b>	<b>143,00</b>

For the wide range of COIL SPRING LOCK tools require KLANN catalogue.



**1450G**

**5**

**COIL SPRING COMPRESSORS**

**Orig. Buco - Art. 99/S1**

Body in special forged steel.

To be used in couple.

Suitable for quickly and safely forcing open pipe DIN flanges, e.g. to replace gaskets.

Suitable for flanges Ø 80 to 250mm, for flanges with screws from M 16 to M 24.

<b>1455G</b>	<b>Per pair</b>	<b>452,00</b>
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**1455G**

**COIL SPRING COMPRESSORS**

**Orig. Gedore**

**THREADED HAND SPINDLES FOR PULLERS**

Dimensions 2 - 4 - 8 are provided with interchangeable and reversible tip.

Size		1	2	3	4	5
Screw thread		M 14x1,5	M 14x1,5	G 1/2"	G 1/2"	G 1/2"
Length	mm	140	140	210	210	250
Supplier code		1.1406140	1.1406140KS	1.2106210	1.2106210KS	1.2106250
<b>1455GA</b>	<b>Each</b>	<b>22,90</b>	<b>24,20</b>	<b>37,50</b>	<b>39,80</b>	<b>63,60</b>

Size		6	7	8	9	10
Screw thread		G 1/2"	G 3/4"	G 3/4"	G 1"	G 1"
Length	mm	350	280	280	310	360
Supplier code		1.2106350	1.2606280	1.2606280KS	1.3306310	1.3306360
<b>1455GA</b>	<b>Each</b>	<b>76,80</b>	<b>59,10</b>	<b>61,10</b>	<b>98,90</b>	<b>104,00</b>



**1455GA**

**THREADED HAND SPINDLES FOR PULLERS**

Allow to increase the extraction force while easing user operation.

Hydraulic piston stroke 12mm.

Screw thread	inches (G)	1/2	3/4	1
Length	mm	350	420	465
Max pressure	t.	10	12	15
For extractors Art.		1424GL 160-200 / 1425GR 160-200 / 1425GT 170-210 / 1433GDP 160-200 / 1434G 160-200 / 1434G 160-200	1424GL 250-350 / 1425GR 250-350 / 1425GT 250-340 / 1433GDP 250 / 1434G 250 / 1434GA 250	1424GL 520-640 / 1433GH
Supplier code		1.06/HSP1	1.06/HSP2	1.06/HSP3
<b>1455GB</b>	<b>Each</b>	<b>392,00</b>	<b>437,00</b>	<b>535,00</b>



**1455GB**



# Servizi Web Sicutool

## Gli articoli Sicutool: disponibilità e approfondimenti

### VERIFICARE LA DISPONIBILITÀ A MAGAZZINO

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- [www.sicutool.it/catalogo-web](http://www.sicutool.it/catalogo-web)  
*Per consultazione da PC*
- [m.sicutool.it](http://m.sicutool.it)  
*Per consultazione da smartphone e tablet*

Il catalogo web e il sito Mobile di Sicutool vi permettono di verificare la disponibilità a magazzino, aggiornata in tempo reale, e il peso dei prodotti.

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- [www.sicutool.it/articoli-eliminati](http://www.sicutool.it/articoli-eliminati)

Tenete d'occhio l'elenco aggiornato degli articoli non più fornibili.

### CONSULTARE INFORMAZIONI TECNICHE AGGIUNTIVE

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- [www.sicutool.it/catalogo-web](http://www.sicutool.it/catalogo-web)

Le schede prodotto del catalogo web propongono informazioni tecniche aggiuntive (istruzioni, FAQ, approfondimenti, ecc.), video, news, indicazioni di ricambi e accessori, nonché strumenti utili per condividere i link con i vostri colleghi.

**All items are in sequence. It's very easy to find them!**

Tapping and threading devices



From **1460G**  
To **1478**

Three jaw chucks  
Self tightening drill chucks  
Angular three jaw-chucks  
Studs for chucks



From **1490G**  
To **1546GF**

Morse taper drill sockets  
Reducing sleeves  
Increasing sleeves  
Morse taper sockets ejectors



From **1551**  
To **1555Z**

Quick change chucks and accessories  
Floating chucks  
Chucks for machine tools, CN, CNC  
Tullstuds  
Locking collars for pinchers holders chucks  
CENTER P high speedness chucks  
ER pinchers holders - Compensated pinchers  
CNC chucks vices - 3D tasters



From **1556G**  
To **1562V**

Self-centring chucks with 3 or 4 jaw sets  
Face plates  
Revolving and dead centres  
Tools blocks



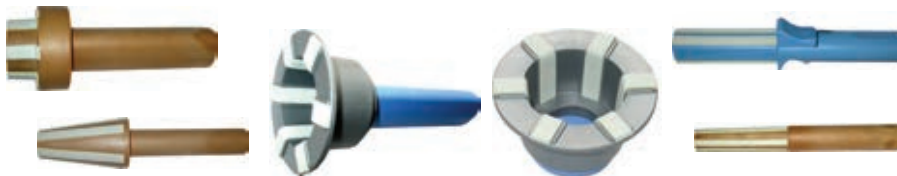
From **1563N**  
To **1587**

Knurling tools  
Knurl holders  
Lathe dogs



From **1592GA**  
To **1595**

Cleaners for conic shanks  
Cleaners for cylindric shanks



From **1596G**  
To **1599G**

Oil-system regulation



From **1601G**  
To **1635G**



**SELF-OPENING DIEHEADS**

**1460G**



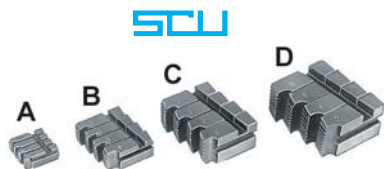
**SCU**

**Prod. SCU - Sistema Rubometric**

With self-opening chasers.  
Manual closing. Threading adjustment.  
With bore, used for long threads.  
Supplied without chasers.

Size		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
For threads Whitworth	inches	3/32-5/16	3/16-9/16	1/4-3/4	3/8-1
For metric threading machines	M.	2-8	4-14	6-18	10-24
Drive Ø	mm	16	26	40	40
<b>1460G</b>	<b>Each</b>	<b>2.650,00</b>	<b>3.090,00</b>	<b>3.620,00</b>	<b>4.120,00</b>

**1461G**



**SCU**

**THREAD CHASERS ART. 1460 G**

In SUPER RAPID HSS steel. Ground slipping surfaces.

Set of 4 chasers.

When placing the order, please specify size, diameter and lead.

Size		<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	
Threads Ø and pitch	mm	2x0.4	3x0.5	3.5x0.6	4x0.5	4x0.7	5x0.8	6x0.75	6x1	8x1	8x1.25	4x0.7	5x0.8	6x0.75	6x1	8x1
<b>1461G</b>	<b>Per set</b>	on request			564,00	564,00	564,00	564,00	564,00	564,00	564,00	603,00	603,00	603,00	603,00	603,00
Size		<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	
Threads Ø and pitch	mm	8x1.25	10x1	10x1.5	12x1	12x1.5	12x1.75	14x1.5	14x2	6x1	8x1	8x1.25	10x1	10x1.5	12x1	12x1.5
<b>1461G</b>	<b>Per set</b>	603,00	603,00	603,00	603,00	603,00	603,00	603,00	603,00	650,00	650,00	650,00	650,00	650,00	650,00	650,00
Size		<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	
Threads Ø and pitch	mm	12x1.75	14x1	14x1.5	14x2	16x1	16x1.5	16x2	18x1.5	18x2.5	10x1	10x1.5	12x1	12x1.5	12x1.75	14x1
<b>1461G</b>	<b>Per set</b>	650,00	650,00	650,00	650,00	650,00	650,00	650,00	650,00	650,00	799,00	799,00	799,00	799,00	799,00	799,00
Size		<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	
Threads Ø and pitch	mm	14x1.5	14x2	16x1	16x1.5	16x2	18x1.5	18x2.5	20x1	20x1.5	20x2.5	22x1.5	22x2.5	24x1.5	24x2	24x3
<b>1461G</b>	<b>Per set</b>	799,00	799,00	799,00	799,00	799,00	799,00	799,00	799,00	799,00	799,00	799,00	799,00	799,00	799,00	799,00

**THREADING DEVICES**

**1463**



**SCU**

**Prod. SCU**

In ground hardened steel. Automatic turn. Adjustable clutch.

For threading by using right/left threaders. Die-holder conceived for different ext. diameters.

Suitable for drills.

Complete with sockets.

Size		<b>2</b>
For threads Whitworth	inches	5/16-5/8
For metric threading machines	M.	8-18
Drive	C.M.	3
Dye fitting Ø	mm	50
Reduction bushes Ø	mm	25-30-38-45
Max thread length	mm	65
Weight	Kg	5,2
<b>1463</b>	<b>Each</b>	<b>845,00</b>

Product running out of stock.

**TAPPING AND THREADING DEVICES**

**1465A**



**SCU**

**Prod. SCU**

In ground treated steel. Combined type for tapping and threading by using round dies. Adjustable clutch.

For right/left use. Suitable for drills and lathes with reversal gear.

Chuck without device.

Size		<b>1</b>	<b>2</b>
Drive	C.M.	1	2
Dye fitting Ø	mm	38	50
Reduction bushes Ø	mm	20-25-30	30-38-45
For metric tapping by	M.	3 to 10	10 to 20
For thread by	M.	3 to 10	10 to 20
Chuck length without drive	mm	75	100
<b>1465A</b>	<b>Each</b>	<b>334,00</b>	<b>434,00</b>

**1465B**



**SCU**

Tapping device for Art. 1465 A.

Size		<b>1</b>	<b>2</b>
For metric tapping by	M.	3 to 10	10 to 20
<b>1465B</b>	<b>Each</b>	<b>189,00</b>	<b>267,00</b>

Threading device for Art. 1465 A.

Size		1	2
For thread by	M.	3 to 10	10 to 20
<b>1465C</b>	Each	<b>267,00</b>	<b>339,00</b>



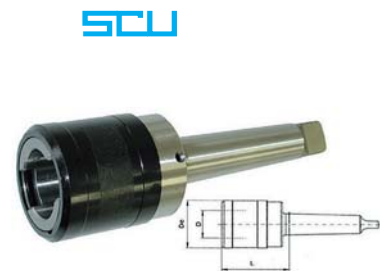
**1465C**

**TAPPING DEVICES**

**Prod. SCU**

Type with tap holder quick change heads for quick tap change and axial compensation. For right/ left use. Suitable for drills and lathes with reverse gear. To be used in combination with quick change heads Art. 1465 P (for Art. 1465 F 1)/ 1465 R (for Art.1465 F 2)/ 1465 S (for Art. 1465 F 3).

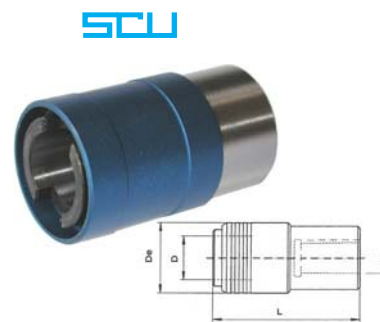
Size		1	2	3
Drive	C.M.	2	3	4
For metric threading machine	M.	3-12	8-20	14-33
L body length	mm	42	67	105
De body Ø	mm	36	53	78
D heads drive Ø	mm	19	31	48
<b>1465F</b>	Each	<b>307,00</b>	<b>370,00</b>	<b>913,00</b>



**1465F**

Rapid change cartridge model with a male holder for replacing the male section without having to amend the axels. For right and left hand use. Suitable for drills and machines which can operate in reverse mode. Can be used in combination with rapid-change cartridges in accordance with Art. 1465 P and 1465 V.

Size		1	2
Drive		B12	B16
For metric threading machine	M.	3-12	3-12
L body length	mm	56	65
De body Ø	mm	32	32
D heads drive Ø	mm	19	19
<b>1465G</b>	Each	<b>175,00</b>	<b>191,00</b>



**1465G**

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**QUICK CHANGE ADAPTORS**

**Prod. SCU**

In special steel, finely worked.

Suitable for tapping heads 1465F 1 and 1472 E 1-1A.

Dimensions (mm): De=30 D=19 L1=17 L2=4 L3=21,5 L=7.

Male drive Ø	mm	3,5	4	4,5	6	7	8	9	10
<b>1465P</b>	Each	<b>41,50</b>	<b>41,50</b>	<b>41,50</b>	<b>41,50</b>	<b>41,50</b>	<b>41,50</b>	<b>41,50</b>	<b>41,50</b>

Product description as Art. 1465P

Suitable for tapping heads 1465 F 2 and 1472 E 2-2A.

Dimensions (mm): De=48 D=31 L1=30 L2=5 L3=35 L=11.

Male drive Ø	mm	7	8	9	10	11	12	14
<b>1465R</b>	Each	<b>53,10</b>	<b>53,10</b>	<b>53,10</b>	<b>53,10</b>	<b>53,10</b>	<b>53,10</b>	<b>53,10</b>

Male drive Ø	mm	16	18
<b>1465R</b>	Each	<b>53,10</b>	<b>53,10</b>

Product description as Art. 1465P

Suitable for tapping heads 1465 F 3.

Dimensions (mm): De=70 D=48 L1=44 L2=6 L3=55,5 L=14.

Male drive Ø	mm	11	12	14	16	18	20	22	25
<b>1465S</b>	Each	<b>171,00</b>	<b>171,00</b>	<b>171,00</b>	<b>171,00</b>	<b>171,00</b>	<b>171,00</b>	<b>171,00</b>	<b>171,00</b>



**1465P**  
**1465R**  
**1465S**



SAFETY CLUTCH model made from finely processed special steel.

Suitable for tap screws 1465 F 1 / 1465 G 1-2 e 1472 E 1-1A.

Dimensions (mm): De=32 D=19 L1=17 L2=25 L3=21,5 L=25.

Male drive Ø	mm	3,5	4	4,5	6	7	8	9	10
<b>1465V</b>	Each	<b>110,00</b>	<b>110,00</b>	<b>110,00</b>	<b>110,00</b>	<b>110,00</b>	<b>110,00</b>	<b>110,00</b>	<b>110,00</b>



**1465V**



**TAPPING AND THREADING DEVICES**

1466GA  
1466GB  
1466GC

SCU



**Prod. SCU**  
TAP HOLDER CHUCKS  
Fixed type, suitable for lathes with reversal gear.  
Precision pattern, tap clamping, self-centring. Special steel body, slipping and internal parts hardened and ground. With tightening wrench.

Art.		<b>1466GA</b>	<b>1466GB</b>	<b>1466GC</b>
Int. cylindrical drive Ø	mm	12	20	25
For male drive framework by		2,1-4,9	2,7-9	3,4-14,5
Tapping field by	M.	1-6	3-16	4-24
<b>Each</b>		<b>422,00</b>	<b>572,00</b>	<b>762,00</b>

1466GE  
1466GL  
1466GP  
1466GR  
1466GS

SCU



**DIE-HOLDER CHUCKS.**  
Fixed type, suitable for lathes with reversal gear.  
Precision pattern, clamping of the die with screw. Special steel body.  
With tightening wrench.

Art.		<b>1466GE</b>	<b>1466GL</b>	<b>1466GP</b>	<b>1466GR</b>	<b>1466GS</b>
Int. cylindrical drive Ø	mm	12	20	20	25	25
For dyes Ø	mm	20x7	38x14	45x18	55x22	65x25
<b>Each</b>		<b>122,00</b>	<b>193,00</b>	<b>213,00</b>	<b>295,00</b>	<b>354,00</b>

Reducers for Art. 1466 GE Ø 20mm to Ø 16.  
**O1466GT 1** Each **32,90**

Reducers for Art. 1466 GL Ø 38mm to Ø 20x7.  
**O1466GT 2** Each **80,90**

Reducers for Art. 1466 GL Ø 38mm to Ø 25.  
**O1466GT 3** Each **66,00**

Reducers for Art. 1466 GL Ø 38mm to Ø 30.  
**O1466GT 4** Each **66,00**

Thickness for Art. 1466 GE for tapping heads 20x5mm.  
**O1466GT 5** Each **9,68**

Thickness for Art. 1466 GL for tapping heads 38x10mm.  
**O1466GT 6** Each **22,90**

Thickness for Art. 1466 GP for tapping heads 45x14mm.  
**O1466GT 7** Each **27,10**

Thickness for Art. 1466 GR for tapping heads 55x16mm.  
**O1466GT 8** Each **30,80**

Thickness for Art. 1466 GS for tapping heads 65x18mm.  
**O1466GT 9** Each **41,50**

1467GA  
1467GB  
1467GE  
1467GF  
1467GL  
1467GP

SCU



**MORSE TAPER SHANKS FOR TAP AND DIE HOLDERS**  
External cylindrical shank 12mm with Morse taper 1 for Art. 1466 GA - 1466 GE  
**1467GA** Each **96,20**  
External cylindrical shank 12mm with Morse taper 2 for Art. 1466 GA - 1466 GE.  
**1467GB** Each **99,00**  
External cylindrical shank 20mm with Morse taper 2 for Art. 1466 GB - 1466 GL - 1466 GP.  
**1467GE** Each **133,00**  
External cylindrical shank 20mm with Morse taper 3 for Art. 1466 GB - 1466 GL - 1466 GP.  
**1467GF** Each **162,00**  
External cylindrical shank 25mm with Morse taper 3 for Art. 1466 GC - 1466 GR - 1466 GS.  
**1467GL** Each **235,00**  
External cylindrical shank 25mm with Morse taper 4 for Art. 1466 GC - 1466 GR - 1466 GS.  
**1467GP** Each **272,00**

1467GR  
1467GS  
1467GT

SCU



**CLUTCH SHANKS FOR TAP AND DIE HOLDERS**  
With adjustable taps and dies saving clutch. Special steel body, internal and slipping parts hardened and ground.

Art. ....		<b>1467GR</b>	<b>1467GS</b>	<b>1467GT</b>
Ext. cylindrical drive Ø	mm	20	20	25
Drive	C.M.	2	3	4
Threading field	M.	6-12	8-16	12-24
For tap holder / dyes holder		1466 GB / 1466 GL-P	1466 GB / 1466 GL-P	1466 GC / 1466 GR-S
<b>Each</b>		<b>820,00</b>	<b>1.050,00</b>	<b>1.400,00</b>

Prices in EURO - VAT not included



**TAP HOLDER CHUCKS**

**Prod. SCU**

Female conical shank.

With self-balancing head. Internal and slipping parts hardened and ground.

Art.	1470L	1470M	1470P
For DIN drive	B16	B16	B18
for male shank by	mm 3-10	8-14	10-20
Tapping field by	M. 3-12	10-18	14-28
Chuck height drive excluded	mm 50	60	70
<b>Each</b>	<b>269,00</b>	<b>297,00</b>	<b>349,00</b>

**SCU**



**1470L**  
**1470M**  
**1470P**

Morse taper shank.

With self-balancing head. Internal and slipping parts hardened and ground.

Art.	1470R	1470S	1470T
Drive	C.M. 1	2	3
for male shank by	mm 3-10	8-14	10-20
Tapping field by	M. 3-12	10-18	14-28
Chuck height cone excluded	mm 50	60	70
<b>Each</b>	<b>276,00</b>	<b>312,00</b>	<b>377,00</b>

**SCU**



**1470R**  
**1470S**  
**1470T**

**TAPPING DEVICES**

**Prod. SCU**

With adjustable clutch. Automatic turn.

With double-clamping tap holder chuck, centring jaws and terminals for male square drive locking.

H2432

Size	1A	2	2A	3
For threads Whitworth	inches 1/8-3/8	5/16-5/8	5/16-5/8	9/16-1
For metric threading machines	M. 3-10	8-16	8-16	12-24
Drive	C.M. 2	2	3	q
<b>1472</b>	<b>Each 855,00</b>	<b>941,00</b>	<b>941,00</b>	<b>1.190,00</b>

**SCU**



**1472**

Spare parts available on request .

Type with adjustable clutch. Automatic reversing.

With tap holder quick change heads for quick tap change.

To be used in combination with quick change heads Art. 1465 P - V (for Art. 1472E 1-1A)/ Art. 1465R (for Art. 1472E 2-2A-3).

Size	1	1A	2	2A	3
For threads Metric	M. 3-10	3-10	8-16	8-16	12-24
For threads Whitworth	inches 1/8-3/8	1/8-3/8	5/16-5/8	5/16-5/8	9/16-1
Drive	C.M. 1	2	2	3	3
<b>1472E</b>	<b>Each 859,00</b>	<b>868,00</b>	<b>946,00</b>	<b>946,00</b>	<b>1.200,00</b>

**SCU**



**1472E**

Spare parts available on request .  
Size 1 running out of stock.

Clutch type. Without automatic turn.

With adjustable clutch, suitable for machines with reversal gear.

Size	1	2	3
For threads Whitworth	inches 1/8-3/8	5/16-5/8	1/2-7/8
For metric threading machines	M. 3-10	8-16	12-22
Drive	C.M. 2	3	4
<b>1473</b>	<b>Each 490,00</b>	<b>563,00</b>	<b>737,00</b>

**SCU**



**1473**

Spare parts available on request .

High-precision type with compression compensation (Size 10 and 16: approx. 3.5mm / Size24: approx. 4mm) and traction (Size 10 and 16: approx. 10mm / Size 24: approx. 15mm). Suitable for drills, tapping machines, milling machines, standard lathes and NC machines, with reversal gear. To be used with elastic pliers type ER-DIN 6499/ISO 15488.

Size	10	16	24
For metric threading machines	M. 3-10	8-16	12-24
Height L	mm 47	104	105
Height De	mm 43	49	58
Elastic pliers for Art.	1561 GF	1561 GL	1561 GN
Cylindrical drive Ø	mm 25	25	32
<b>1475</b>	<b>Each 449,00</b>	<b>556,00</b>	<b>802,00</b>

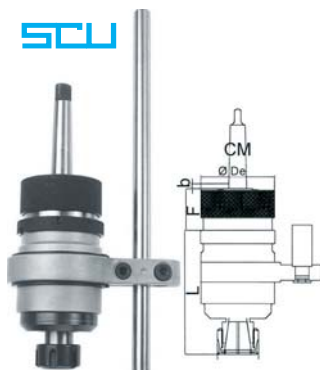
**SCU**



**1475**



1477



High rotation precision, suitable for pillar drills.  
With adjustable clutch. Automatic turn.  
To be used with ER-DIN 6499/ISO 15488 collets.

Size		10	10A	16	16A	22	22A
For metric threading machines	M.	3-10	3-10	8-16	8-16	10-22	10-22
Drive		CM 2	cyl. 25	CM 3	cyl. 25	CM 3	cyl. 32
Height L	mm	120	120	125	125	153	153
Height De	mm	67	67	75	75	90	90
Height F	mm	35	35	42	42	43	43
Elastic pliers for Art.		1561 GF	1561 GF	1561 GL	1561 GL	1561 GN	1561 GN
<b>1477</b>	<b>Each</b>	<b>1.550,00</b>	<b>1.550,00</b>	<b>1.710,00</b>	<b>1.710,00</b>	<b>1.920,00</b>	<b>1.920,00</b>

1478



Very high precision, particularly suitable for CNC. Automatic turn, without adjustable clutch, for high-speed use.

To be used with ER-DIN 6499/ISO 15488 collets.

Size		10	16	22
For metric threading machines	M.	3-10	8-16	10-22
Height L	mm	120	125	153
Height De	mm	66	75	90
Elastic pliers for Art.		1561 GF	1561 GL	1561 GN
Cylindrical drive Ø	mm	25	25	32
<b>1478</b>	<b>Each</b>	<b>1.330,00</b>	<b>1.420,00</b>	<b>2.050,00</b>

**THREE-JAWS CHUCKS**

1490G  
1491G



**Prod. SCU**  
LIGHT VERSION for portable rotation and hammer drills.  
Red series  
For Black & Decker, male shank 3/8x24.  
For drill bits 0-10mm.

<b>1490G</b>	<b>Each</b>	<b>18,80</b>
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Product description as Art. 1490G  
For Black & Decker, male shank 3/8x24.  
For drill bits 1.5-13mm.

<b>1491G</b>	<b>Each</b>	<b>24,40</b>
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1495G



Product description as Art. 1490G  
Red series  
For AEG, BOSCH, PEUGEOT, METABO, SKIL, etc.

Type		10	10A	10P	10R	10T	13A	13B
For tips Ø	mm	0-10	0-10	0-10	0-10	0-10	1.5-13	1.5-13
Drive		3/8-24	1/2-20	3/8-24	1/2-20	B12	3/8-24	1/2-20
Drive type		Thread.	Thread.	Thread.	Thread.	DIN	Thread.	Thread.
For rotation		Right	Right	Right+Left	Right+Left	Right	Right	Right
<b>1495G</b>	<b>Each</b>	<b>18,80</b>	<b>18,80</b>	<b>18,80</b>	<b>18,80</b>	<b>18,80</b>	<b>24,40</b>	<b>24,40</b>

Type		13E	13L	13P
For tips Ø	mm	1.5-13	1.5-13	1.5-13
Drive		3/8-24	1/2-20	B12
Drive type		Thread.	Thread.	DIN
For rotation		Right+Left	Right+Left	Right
<b>1495G</b>	<b>Each</b>	<b>24,40</b>	<b>24,40</b>	<b>24,40</b>

Art. 1495G 10P-10R-13E-13L are suitable for reverse rotation drills (Des.+ Sin.)

1500G



PROFESSIONAL VERSION for rotation and hammer drills.  
Steel body, hardened and ground jaws.  
Yellow series

Type		8	10	10A	10B	10C	10E	10F	13A	13B
For tips Ø	mm	0.3-8	0.5-10	0.5-10	0.5-10	0.5-10	0.5-10	0.5-10	1.5-13	1.5-13
Drive		B12	B12	J2	3/8-24	1/2-20	3/8-24	1/2-20	B16	J2
Drive type		DIN	DIN	Jacobs	Thread.	Thread	Thread.	Thread.	DIN	Jacobs
For rotation		Right	Right	Right	Right	Right+Left	Right+Left	Right	Right	Right
<b>1500G</b>	<b>Each</b>	<b>29,10</b>	<b>32,30</b>	<b>32,30</b>	<b>32,30</b>	<b>32,30</b>	<b>32,30</b>	<b>32,30</b>	<b>41,60</b>	<b>41,60</b>

Type		13C	13CC	13D	13E	16	16/1	16A	16B	16C
For tips Ø	mm	1.5-13	1.5-13	1.5-13	1.5-13	2.5-16	2.5-16	2.5-16	2.5-16	2.5-16
Drive		3/8-24	3/8-24	1/2-20	1/2-20	B16	B18	J6	1/2-20	1/2-20
Drive type		Thread.	Thread.	Thread.	Thread.	DIN	DIN	Jacobs	Thread.	Thread.
For rotation		Right	Right+Left	Right	Right+Left	Right	Right	Right	Right	Right+Left
<b>1500G</b>	<b>Each</b>	<b>41,60</b>	<b>41,60</b>	<b>41,60</b>	<b>41,60</b>	<b>55,70</b>	<b>55,70</b>	<b>55,70</b>	<b>55,70</b>	<b>55,70</b>

HIGH-PRECISION INDUSTRIAL VERSION for radial drills, lathes and milling machines.  
Steel body, hardened and ground jaws.

Blue series

Type		6	8	10	13	13A	15	16
For tips Ø	mm	0-6	0-8	0-10	0-13	0-13	2.5-16	1-16
Drive		B10	B12	B16	B16	B18	B16	B18
Drive type		DIN	DIN	DIN	DIN	DIN	DIN	DIN
For rotation		Right	Right	Right	Right	Right	Right	Right
<b>1503G</b>	<b>Each</b>	<b>33,60</b>	<b>36,80</b>	<b>40,00</b>	<b>54,10</b>	<b>54,10</b>	<b>62,20</b>	<b>69,70</b>

Type		20	26
For tips Ø	mm	5-20	5-26
Drive		B22	B24
Drive type		DIN	DIN
For rotation		Right	Right
<b>1503G</b>	<b>Each</b>	<b>96,20</b>	<b>186,00</b>

**1503G**


#### SPARE WRENCHES FOR THREE-JAWS CHUCKS

Wrenches for Art. 1490 G. pin Ø 6mm.

<b>1505G</b>	<b>Each</b>	<b>1,46</b>
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Wrenches for Art.1491 G, 1495 G (for all types) and for Art. 1500 G 10-10A-10B-10C-10E-10F-13A-13B-13C-13CC-13D-13E - 1503 G 8-10. pin Ø 6mm.

<b>1507G</b>	<b>Each</b>	<b>2,14</b>
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Wrenches for Art. 1500 G 8 - 1503 G 6. pin Ø 4mm.

<b>1508G</b>	<b>Each</b>	<b>2,68</b>
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Wrenches for Art. 1500 G 16-16/1-16A-16B-16C - 1503 G 13-13A-15-16-20. pin Ø 8mm.

<b>1511G</b>	<b>Each</b>	<b>3,12</b>
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Wrenches for Art. 1503 G 26. pin Ø 9.5mm.

<b>1512G</b>	<b>Each</b>	<b>8,60</b>
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**1505G**
**1507G**
**1508G**
**1511G**
**1512G**

**6**

#### CHUCKS WITHOUT WRENCH

##### Prod. SCU

For electric and battery drills, with RIGHT/LEFT rotation and hammer.  
Rapid closing system without wrench, locking by rotation of chuck body.  
Synthetic material coated body and steel operating parts.

Type		10	10A	13	13A
For tips Ø	mm	0.5-10	0.5-10	1.5-13	1.5-13
Drive		3/8-24	1/2-20	3/8-24	1/2-20
Drive type		Thread.	Thread.	Thread.	Thread.
<b>1512GE</b>	<b>Each</b>	<b>32,60</b>	<b>32,60</b>	<b>41,70</b>	<b>41,70</b>

**1512GE**


PROFESSIONAL PERFORMANCE for electric and battery powered drills with D+S rotation and percussion features.

Rapid closing keyless entry with radial locking function by rotating the chuck body.  
Body covered in reinforced plastic and working components made from steel.

Type		10	10A	10B	13	13A	13B	13C
For tips Ø	mm	0.5-10	0.5-10	0.5-10	1.5-13	1.5-13	1.5-13	1.5-13
Drive		3/8-24	1/2-20	6,3-1/4	3/8-24	1/2-20	B12	10
Drive type		Thread.	Thread.	Hexag. Female	Thread.	Thread.	DIN	SDS plus
<b>1512GP</b>	<b>Each</b>	<b>45,50</b>	<b>45,50</b>	<b>54,10</b>	<b>47,60</b>	<b>47,60</b>	<b>51,60</b>	<b>63,20</b>

**1512GP**


PROFESSIONAL PERFORMANCE for electric and battery powered drills with D+S rotation and percussion features.

Rapid closing keyless entry with radial locking function by rotating the chuck body.  
Body and working components made from steel.

Type		13	13A	13B	13C
For tips Ø	mm	1.5-13	1.5-13	1.5-13	1.5-13
Drive		3/8-24	1/2-20	B12	10
Drive type		Thread.	Thread.	DIN	SDS plus
<b>1513GA</b>	<b>Each</b>	<b>63,60</b>	<b>63,60</b>	<b>63,60</b>	<b>80,90</b>

**1513GA**


PROFESSIONAL PERFORMANCE for electric and battery powered drills with D+S rotation and percussion features.

Rapid closing keyless entry with radial locking function by rotating the chuck body.  
Body and working components made from steel, and HARD METAL jaws for providing maximum strength and durability.

Type		13A	13B
For tips Ø	mm	1.5-13	1.5-13
Drive		1/2-20	B12
Drive type		Thread.	DIN
<b>1513GF</b>	<b>Each</b>	<b>81,50</b>	<b>81,50</b>

**1513GF**


Hard metal

**SELF-TIGHTENING CHUCKS**

1515


**Prod. SCU**

PROFESSIONAL VERSION for rotation and hammer drills.  
Steel body, ground and hardened jaws.

Type		10	10A	10B	10C	13	13A	13B
For tips Ø	mm	1-10	1-10	1-10	1-10	1-13	1.5-13	1.5-13
Drive		B12	J2	3/8-24	1/2-20	B12	B16	J2
Drive type		DIN	Jacobs	Thread.	Thread.	DIN	DIN	Jacobs
<b>1515</b>	<b>Each</b>	<b>60,40</b>	<b>69,50</b>	<b>60,40</b>	<b>60,40</b>	<b>86,60</b>	<b>66,20</b>	<b>91,60</b>
Type		13C	16	16A	16B	16C		
For tips Ø	mm	1,5-13	3-16	3-16	3-16	3-16		
Drive		1/2-20	B16	B18	J6	1/2-20		
Drive type		Thread.	DIN	DIN	Jacobs	Thread.		
<b>1515</b>	<b>Each</b>	<b>62,40</b>	<b>83,10</b>	<b>83,10</b>	<b>83,10</b>	<b>83,10</b>		

1516G


**Prod. SCU - Röhm - Supra S**

INDUSTRIAL VERSION for rotation and hammer drills.  
Steel body, ground and hardened jaws.

Type		10	10A	10B	10C	13	13A	13B
For tips Ø	mm	0,5-10	0,5-10	0,5-10	0,5-10	1-13	1-13	1-13
Drive		B12	J1	3/8-24	1/2-20	B12	J2	1/2-20
Drive type		DIN	Jacobs	Thread.	Thread.	DIN	Jacobs	Thread.
<b>1516G</b>	<b>Each</b>	<b>94,20</b>	<b>101,00</b>	<b>92,30</b>	<b>88,20</b>	<b>107,00</b>	<b>115,00</b>	<b>107,00</b>
Type		16	16A	16B				
For tips Ø	mm	3-16	3-16	3-16				
Drive		B16	J6	1/2-20				
Drive type		DIN	Jacobs	Thread.				
<b>1516G</b>	<b>Each</b>	<b>137,00</b>	<b>149,00</b>	<b>133,00</b>				

1517


**Prod. SCU**

PROFESSIONAL VERSION WITH LOCKING COLLAR for maximum locking safety.  
Steel body, ground and hardened jaws.

Type		10	10A	13	13A
For tips Ø	mm	1-10	1-10	1-13	1-13
Drive		3/8-24	1/2-20	3/8-24	1/2-20
Drive type		Thread.	Thread.	Thread.	Thread.
<b>1517</b>	<b>Each</b>	<b>78,20</b>	<b>78,20</b>	<b>79,40</b>	<b>79,40</b>

1518G


**Prod. SCU - Röhm - Supra SK**

INDUSTRIAL VERSION WITH LOCKING COLLAR for maximum locking safety also in case of heavy vibrations and percussions.  
Steel body, ground and hardened jaws.

Type		10	10B	13	13A	13C
For tips Ø	mm	0,5-10	0,5-10	1-13	1-13	1-13
Drive		B12	3/8-24	B12	B16	1/2-20
Drive type		DIN	Thread.	DIN	DIN	Thread.
<b>1518G</b>	<b>Each</b>	<b>103,00</b>	<b>103,00</b>	<b>127,00</b>	<b>127,00</b>	<b>127,00</b>

1520G


**Prod. SCU - Röhm - Supra**

INDUSTRIAL VERSION, HEAVY, HIGH-PRECISION. Suitable for use on radial drills, lathes and milling machines.  
Steel body, ground and hardened jaws.

Type		4	6	8	10	10A	10B	10C
For tips Ø	mm	0-4	0-6,5	0-8	0-10	0-10	0-10	0-10
Drive		B10	B12	B12	B12	B16	3/8-24	1/2-20
Drive type		DIN	DIN	DIN	DIN	DIN	Thread.	Thread.
<b>1520G</b>	<b>Each</b>	<b>114,00</b>	<b>85,40</b>	<b>84,40</b>	<b>98,70</b>	<b>98,70</b>	<b>107,00</b>	<b>102,00</b>
Type		13	13A	16	16A			
For tips Ø	mm	1-13	1-13	3-16	3-16			
Drive		B16	1/2-20	B16	B18			
Drive type		DIN	Thread.	DIN	DIN			
<b>1520G</b>	<b>Each</b>	<b>119,00</b>	<b>138,00</b>	<b>141,00</b>	<b>141,00</b>			

1523G


**Prod. SCU - Röhm - Spiro**

INDUSTRIAL VERSION, HEAVY, HIGH-PRECISION.  
Suitable for industrial use on pillar drills, boring machines, NC tool machines, etc. Steel body.  
Sliding parts fully hardened and ground.

Type		4	6	8	10	10A	13	16	16A
For tips Ø	mm	0-4	0-6.5	0-8	0-10	0-10	1-13	3-16	3-16
Drive		B10	B12	B12	B12	B16	B16	B16	B18
Drive type		DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN
<b>1523G</b>	<b>Each</b>	<b>261,00</b>	<b>281,00</b>	<b>301,00</b>	<b>313,00</b>	<b>313,00</b>	<b>336,00</b>	<b>385,00</b>	<b>385,00</b>

**Prod. SCU**

INDUSTRIAL PERFORMANCE PRECISION.

For industrial related use on drill presses, boring machines, numerically programmed machine tools, etc. Steel bodywork. Sliding parts are fully hardened and ground.

Rotation precision 0.04mm.

Type		6	8	10	13	16	16A
For tips Ø	mm	0,3-6,5	0,3-8	0,3-10	0,3-13	3-16	3-16
Drive		B10	B12	B12	B16	B16	B18
Drive type		DIN	DIN	DIN	DIN	DIN	DIN
<b>1525G</b>	<b>Each</b>	<b>130,00</b>	<b>124,00</b>	<b>134,00</b>	<b>153,00</b>	<b>176,00</b>	<b>176,00</b>

On request, the same chucks can be supplied with TITANIUM clamps.

**SCU**

**1525G**



**90° ANGULAR ADAPTORS FOR DRILLS**

**Prod. SCU**

To be fixed to portable drill chuck for 90° angle drilling.

For RIGHT/LEFT rotation. Hexagonal shank ø 9mm. In cast aluminium. 3/8x24 male shank, without chuck.

Chuck shank max length approx. 43mm

Drill shank max length approx. 139mm

Max rotation speed 2100 rpm.

<b>1544</b>	<b>Each</b>	<b>76,10</b>
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For included chucks see Art. 1495 G 10P and 1500G 10E. While using the angular adaptor, the drill must be in the rotation mode (not in the percussion mode).

**SCU**

**1544**



**ANGULAR THREE-JAWS CHUCKS**

**Prod. SCU**

To be fixed to portable drill chuck for 90° angle drilling.

For RIGHT/LEFT rotation. Hexagonal shank ø 9mm. In cast aluminium. With three-jaws chuck 1.5-10mm, 3/8x24 male shank and wrench.

Chuck side max length approx. 143mm

Shank side max length approx. 143mm

Max rotation speed 2100 rpm.

<b>1545</b>	<b>Each</b>	<b>89,90</b>
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For spare chucks up to 10mm, see Art. 1495 G 10P and 1500G 10E. When using angular chucks, the drill must be in the rotation mode (not in the percussion mode).

**SCU**

**1545**



To be fixed to portable drill chuck for 90° angle drilling.

For RIGHT/LEFT rotation. Hexagonal shank ø 9mm. In cast aluminium. Complete with chuck without wrench and rapid closing system 1.5-10mm, 3/8x24 male shank.

Chuck side max length approx. 110mm

Shank side max length approx. 147mm

Max rotation speed 2100 rpm.

<b>1545A</b>	<b>Each</b>	<b>105,00</b>
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For spare chucks up to 10mm, see Art. 1512 GE 10 and 1513G 10. When using angular chucks, the drill must be in the rotation mode (not in the percussion mode).

**SCU**

**1545A**



**CHUCK ADAPTORS**

**Prod. SCU**

For fitting chuck shanks into drills, screwdrivers, etc.

Suitable for transforming chucks with 1/2x20 female thread shank into 3/8x24 female thread.

<b>1546GA</b>	<b>Each</b>	<b>2,36</b>
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Product description as Art. 1546GA

Suitable for transforming chucks with 3/8x24 female thread shank into 3/8x24 male thread.

<b>1546GB</b>	<b>Each</b>	<b>2,12</b>
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Product description as Art. 1546GA

Suitable for transforming chucks with 1/2x20 female thread shank into 3/8x24 male thread.

<b>1546GE</b>	<b>Each</b>	<b>3,90</b>
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Product description as Art. 1546GA

Suitable for transforming chucks with 3/8x24 female thread shank into 1/4 E6,3 hexagonal shank.

<b>1546GF</b>	<b>Each</b>	<b>3,46</b>
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For adaptors with SDS-plus shank see Art. 1340GR\_22.

**SCU**

**1546GA**

**1546GB**

**1546GE**

**1546GF**



### CHUCK SHANKS

1551


**Prod. SCU**

In steel, fully hardened and ground.  
For chucks with DIN 238/1 shank hole.

Size		A	B	C	D	DA	DD	E
Drive	C.M.	1	1	1	1	2	2	2
Type DIN 238/1		B10	B12	B16	B18	B10	B12	B16
Max drive	mm	10,094	12,065	15,773	17,780	10,094	12,065	15,773
<b>1551</b>	<b>Each</b>	<b>5,28</b>	<b>5,58</b>	<b>5,58</b>	<b>6,22</b>	<b>6,32</b>	<b>8,26</b>	<b>6,14</b>
Size		F	G	GA	GG	GH	H	L
Drive	C.M.	2	2	3	3	3	3	3
Type DIN 238/1		B18	B22	B12	B16	B18	B22	B24
Max drive	mm	17,780	21,793	12,065	15,773	17,780	21,793	23,825
<b>1551</b>	<b>Each</b>	<b>6,44</b>	<b>7,58</b>	<b>9,12</b>	<b>8,26</b>	<b>8,26</b>	<b>8,72</b>	<b>16,20</b>
Size		M	P	R	S			
Drive	C.M.	4	4	4	4			
Type DIN 238/1		B16	B18	B22	B24			
Max drive	mm	15,773	17,780	21,793	23,825			
<b>1551</b>	<b>Each</b>	<b>12,70</b>	<b>12,70</b>	<b>16,20</b>	<b>16,20</b>			

1552




Product description as Art. 1551

For chucks with UNI 5887-66 Jacobs shank hole.

Size		1	2	3	4	5	6
Drive	C.M.	1	1	1	2	2	2
Max drive	mm	9,754	14,199	17,170	9,754	14,199	17,170
Type Jacobs UNI 5887-66		J1	J2	J6	J1	J2	J6
<b>1552</b>	<b>Each</b>	<b>5,32</b>	<b>5,32</b>	<b>5,32</b>	<b>7,16</b>	<b>7,16</b>	<b>7,16</b>

Product running out of stock.

### REDUCING SLEEVES

1555


**Prod. SCU**

Made of steel, fully hardened and ground. Equipped with DIN 2185 ejection window.

Size		AO	A	B	C	D	E	F
Internal Morse cone		0	1	2	3	4	5	1
External Morse cone		1	2	3	4	5	6	3
<b>1555</b>	<b>Each</b>	<b>8,26</b>	<b>8,26</b>	<b>10,20</b>	<b>16,90</b>	<b>23,70</b>	<b>56,30</b>	<b>10,20</b>
Size		G	H	I	L	M		
Internal Morse cone		2	2	3	1	4		
External Morse cone		4	5	5	4	6		
<b>1555</b>	<b>Each</b>	<b>16,90</b>	<b>23,70</b>	<b>23,70</b>	<b>16,90</b>	<b>56,30</b>		

### REDUCING AND INCREASING SLEEVES

1555P


**Prod. SCU**

Long pattern.

Made of steel. Fully ground and hardened.

With ejection window.

Size		10	11	12	13	14	14A	15
Internal Morse cone		1	2	1	2	3	1	2
External Morse cone		1	1	2	2	2	3	3
Overall length	mm	145	160	160	175	200	175	194
<b>1555P</b>	<b>Each</b>	<b>17,40</b>	<b>20,50</b>	<b>18,50</b>	<b>22,70</b>	<b>25,60</b>	<b>20,10</b>	<b>24,20</b>
Size		16	17	17A	18	19	20	
Internal Morse cone		3	4	2	3	3	4	
External Morse cone		3	3	4	4	5	5	
Overall length	mm	215	240	215	240	268	300	
<b>1555P</b>	<b>Each</b>	<b>26,80</b>	<b>45,30</b>	<b>28,10</b>	<b>32,80</b>	<b>49,10</b>	<b>82,90</b>	

### MORSE TAPER SOCKET EJECTORS

1555T


**Prod. SCU**

In printed steel. Burnished.

For Morse cones

Overall length	mm	1-2	3	4	5-6
		140	190	225	265
<b>1555T</b>	<b>Each</b>	<b>4,38</b>	<b>7,14</b>	<b>10,50</b>	<b>19,20</b>

1555Z




In hardened steel, plastic-coated handle.

Semi-automatic for one hand use, for avoiding damaging the shank.

For Morse cones

Overall length	mm	1-3	4-6
		320	380
<b>1555Z</b>	<b>Each</b>	<b>62,20</b>	<b>79,50</b>

**QUICK CHANGE CHUCKS**

**Prod. SCU - Orig. Fahrion**

In ground, hardened steel. Precision manufacture.  
Quick change sockets Art.1557 GA without stopping the machine.  
Suitable for all tools with Morse Taper shank.  
Without sockets.



**1556G**



Type		1	2	3	4
Size		26	34	46	60
Drive	C.M.	2	3	4	5
Chuck length with drive	mm	150	176	222	282
Chuck body length	mm	70	75	100	125
<b>1556G</b>	<b>Each</b>	<b>323,00</b>	<b>412,00</b>	<b>640,00</b>	<b>1.030,00</b>

**COLLETS**

**Prod. SCU - Orig. Fahrion**

Fixed normal type.  
Suitable for chucks Art. 1556 G.  
In ground, hardened steel. Precision manufacture.  
For drills and countersinks with Morse Taper shank, direct-attach construction.  
For drills and countersinks with cylindrical shank, to be used with elastic sockets Art. 1557 GF-H-L-M.



**1557GA**



Type		1	1A	2A	2	2B	3A	3	3B	4A	4	5
For chuck Art. 1556G Type		1	1	2	2	2	3	3	3	4	4	4
For conical tips and countersinks up to	mm	14	23	14	23	31,75	23	31,75	50	31,75	50	60
Bushes drive Art.1557 GF-H-L-M	C.M.	1	2	1	2	3	2	3	4	3	4	5
Overall length	mm	78	90	87	91	108	105	109	135	131	134	173
<b>1557GA</b>	<b>Each</b>	<b>198,00</b>	<b>198,00</b>	<b>230,00</b>	<b>230,00</b>	<b>230,00</b>	<b>284,00</b>	<b>284,00</b>	<b>284,00</b>	<b>438,00</b>	<b>438,00</b>	<b>438,00</b>

**TAP HOLDER SOCKETS**

**Prod. SCU - Orig. Fahrion**

Clutch type.  
Suitable for chuck Art. 1556 G.  
Hardened and ground steel. High-precision finish.  
Adjustable clutch to avoid tap breaking and ensure high-precision performances.  
To be used with elastic sockets Art. 1557 GP-R-S-T.



**1557GC**



Type		1	1A	2	2A	2B	3	3A	3B	4	4A
For chuck Art. 1556G Type		1	1	2	2	2	3	3	3	4	4
For taps with shaft Ø by	mm	2,5-8	4,5-12	2,5-8	4,5-12	9-16	4,5-12	9-16	12-22	9-16	12-22
Bushes drive Art.1557 GP-R-S-T	C.M.	1	2	1	2	3	2	3	4	3	4
Overall length	mm	88	99	88	102	118	118	124	149	135	150
<b>1557GC</b>	<b>Each</b>	<b>640,00</b>	<b>640,00</b>	<b>649,00</b>	<b>649,00</b>	<b>655,00</b>	<b>822,00</b>	<b>822,00</b>	<b>837,00</b>	<b>1.210,00</b>	<b>1.230,00</b>

**ELASTIC SOCKETS**

**Prod. SCU - Orig. Fahrion**

With dragging mechanism holder. Suitable for sockets Art. 1557 GA.  
FOR DRILL BITS AND COUNTERSINKS WITH DIN 6329 CYLINDRICAL SHANK  
Morse taper 1. Total length 65.5mm.



**1557GF**  
**1557GH**  
**1557GL**  
**1557GM**

Ø	mm	3	3,2	3,5	4	4,2	4,5	5	5,2
<b>1557GF</b>	<b>Each</b>	<b>42,80</b>	<b>58,10</b>	<b>42,80</b>	<b>42,80</b>	<b>58,10</b>	<b>42,80</b>	<b>42,80</b>	<b>58,10</b>
Ø	mm	5,5	6	6,2	6,5	7	7,5	8	
<b>1557GF</b>	<b>Each</b>	<b>42,80</b>	<b>42,80</b>	<b>58,10</b>	<b>42,80</b>	<b>42,80</b>	<b>42,80</b>	<b>42,80</b>	

Product description as Art. 1557GF  
Morse taper 2. Total length 80mm.

Ø	mm	5	5,2	5,5	6	6,2	6,5	7
<b>1557GH</b>	<b>Each</b>	<b>47,90</b>	<b>63,10</b>	<b>47,90</b>	<b>47,90</b>	<b>63,10</b>	<b>47,90</b>	<b>47,90</b>
Ø	mm	7,5	8	8,5	9	9,5	10	10,5
<b>1557GH</b>	<b>Each</b>	<b>47,90</b>	<b>47,90</b>	<b>47,90</b>	<b>47,90</b>	<b>47,90</b>	<b>47,90</b>	<b>47,90</b>
Ø	mm	11	11,5	12	12,5	13		
<b>1557GH</b>	<b>Each</b>	<b>47,90</b>	<b>47,90</b>	<b>47,90</b>	<b>47,90</b>	<b>47,90</b>		

Product description as Art. 1557GF  
Morse taper 3. Total length 99mm.

Ø	mm	10	10,5	11	11,5	12	12,5	13
<b>1557GL</b>	<b>Each</b>	<b>64,20</b>	<b>64,20</b>	<b>64,20</b>	<b>64,20</b>	<b>64,20</b>	<b>64,20</b>	<b>64,20</b>
Ø	mm	14	15	16	17	18		
<b>1557GL</b>	<b>Each</b>	<b>64,20</b>	<b>64,20</b>	<b>64,20</b>	<b>64,20</b>	<b>64,20</b>		

Product description as Art. 1557GF  
Morse taper 4. Total length 124mm.

Ø	mm	14	15	16	17	18	19	20
<b>1557GM</b>	<b>Each</b>	<b>95,80</b>	<b>95,80</b>	<b>95,80</b>	<b>95,80</b>	<b>95,80</b>	<b>95,80</b>	<b>95,80</b>



6

1557GP  
1557GR  
1557GS  
1557GT



With dragging square-holder . Suitable for sockets Art. 1557 GC.  
FOR TAPS WITH CYLINDRICAL SHANK DIN 6328

Morse taper 1. Total length 65.5mm.

Cyl. shaft Ø	mm	2,5	3,15	3,5	4	4,5	5	5,5
Square side	mm	2,1	2,4	2,7	3	3,4	3,8	4,3
<b>1557GP</b>	Each	<b>76,60</b>	<b>42,80</b>	<b>42,80</b>	<b>42,80</b>	<b>42,80</b>	<b>42,80</b>	<b>42,80</b>

Cyl. shaft Ø	mm	6	7	8
Square side	mm	4,9	5,5	6,2
<b>1557GP</b>	Each	<b>42,80</b>	<b>42,80</b>	<b>42,80</b>

Product description as Art. 1557GP

Morse taper 2. Total length 80mm.

Cyl. shaft Ø	mm	4,5	5	5,5	6	7	8	9
Square side	mm	3,4	3,8	4,3	4,9	5,5	6,2	7
<b>1557GR</b>	Each	<b>47,90</b>	<b>47,90</b>	<b>47,90</b>	<b>47,90</b>	<b>47,90</b>	<b>47,90</b>	<b>47,90</b>

Cyl. shaft Ø	mm	10	11	12
Square side	mm	8	9	9
<b>1557GR</b>	Each	<b>47,90</b>	<b>47,90</b>	<b>47,90</b>

Product description as Art. 1557GP

Morse taper 3. Total length 99mm.

Cyl. shaft Ø	mm	9	10	11	12	14	16
Square side	mm	7	8	9	9	11	12
<b>1557GS</b>	Each	<b>64,20</b>	<b>64,20</b>	<b>64,20</b>	<b>64,20</b>	<b>64,20</b>	<b>64,20</b>

Product description as Art. 1557GP

Morse taper 4. Total length 124mm.

Cyl. shaft Ø	mm	12	14	16	18	20	22
Square side	mm	9	11	12	14,5	16	18
<b>1557GT</b>	Each	<b>95,80</b>	<b>95,80</b>	<b>95,80</b>	<b>95,80</b>	<b>95,80</b>	<b>95,80</b>

**FLOATING CHUCKS**

1559GA



Prod. SCU - Orig. SMP

Normal type.

Suitable for pre-hole working operations.

For better finishing and longer tool life.

With two locking collars for angular and radial correction.

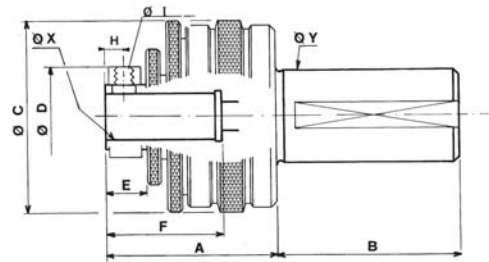
Radial correction from 0mm to 1.5mm (2mm for Art. 1559 GA 6).

Angular correction from 0° to 1°.

Type		5	6	8
<b>1559GA</b>	Each	<b>942,00</b>	<b>1.230,00</b>	<b>1.140,00</b>

Product running out of stock.

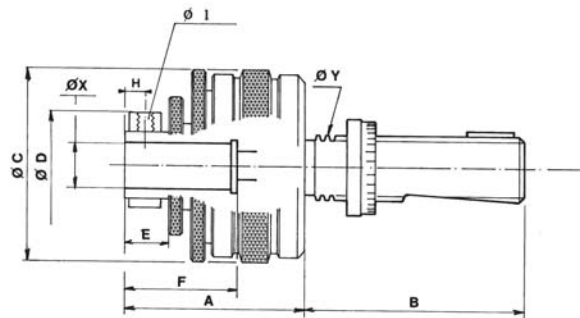
Tipo		5	6
Art. fornitore		22025M	32525M
Att. cilind. est. ø mm Y		25	25
Att. cilind. int. ø mm X		20	25
Misura A	mm	74	82.5
Misura B	mm	65	110
Misura C	mm	82	91
Misura D	mm	44	52
Misura E	mm	16	22
Misura F	mm	50	60
Misura H	mm	8	11
Misura I	M	8	8
Peso	gr	1900	2500



**With trapezoidal machine shank (DIN 6327) - cylindrical tool shank.**

With regulation collar of the trapezoidal screw.

Tipo		8
Art. fornitore		22020Tr
Att. trapezoidale ø mm Y		20
Att. cilind. int ø mm X		20
Misura A	mm	74
Misura B	mm	88
Misura C	mm	82
Misura D	mm	44
Misura E	mm	16
Misura F	mm	50
Misura H	mm	8
Misura I	M	8
Peso	gr	1910





Compact type.

Suitable for pre-hole working operations. For better finishing and longer tool life. To be used with standard ER32 DIN 6499/ISO 15488 collets. Adjustable radial correction. Angular movement, not adjustable and depending from radial adjustment. To be used together compensated tapping collets Art. 1562 GL-M-PA for high-performance tapping.

Radial correction from 0mm to 1.5mm.

Angular correction from 0° to 1°.

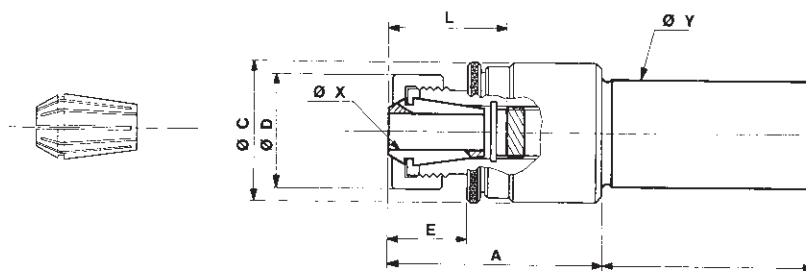
Type		2	4
1559GB	Each	1.070,00	1.390,00



Hook spanners for DIN 6499 locking collars see Art. 840 GE-L.  
Product running out of stock.

**With cylindrical machine shank - cylindrical tool shank through ER pinchers.**

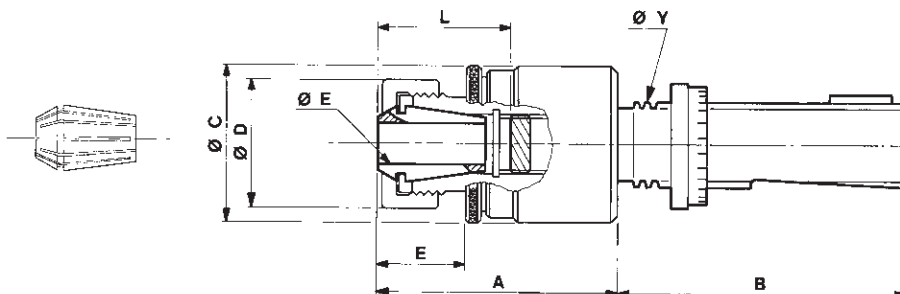
Tipo	2
Art. fornitore	C65C20C
X = Per pinze ER	32
Att. cilind. est. Ø mm Y	20
Misura A	mm 94
Misura B	mm 50
Misura C	mm 64.5
Misura D	mm 50
Misura E	mm 33
Misura L min.	mm 44
Misura L max.	mm 66
Peso	gr 2070



**With trapezoidal machine shank (DIN 6327) - cylindrical tool shank.**

With regulation collar of the trapezoidal screw.

Tipo	4
Art. fornitore	C65C20Tr
X = Per pinze ER	32
Att. trapezoidale Ø mm Y	20
Misura A	mm 94
Misura B	mm 88
Misura C	mm 64.5
Misura D	mm 50
Misura E	mm 33
Misura L min.	mm 44
Misura L max.	mm 66
Peso	gr 1900

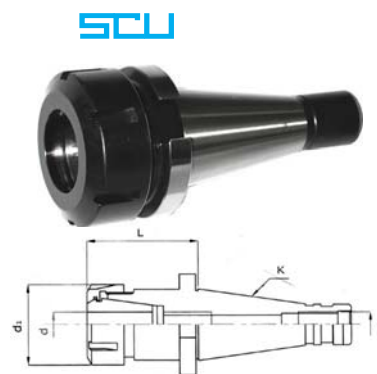


**DIN 2080 ER PINCERS HOLDER CHUCKS WITH LOCKING COLLAR**

Prod. SCU

For ER-DIN 6499/ISO 15488 wide opening collets. High-precision, max centring of tools such as milling cutters, drill bits, countersinks, reamers, boring bars, with the highest tuning moments, DIN 2080 shank, internally threaded end.

Type		0	1	2	3	4
Shape/ thread K/G		ISO 40 M16	ISO 30 M12	ISO 40 M16	ISO 40 M16	ISO 50 M24
Tightening capacity Ø d	mm	1-10	2-20	2-20	3-25	3-30
Height L	mm	70	50	50	42	58
Height d1	mm	32	50	50	63	63
For pliers Art.		1560 GS- 1561GC	1560 GZ- 1561GN	1560 GZ- 1561GN	1561 GR	1561 GR
1560GA	Each	291,00	140,00	107,00	107,00	206,00



Hook spanners for DIN 6499 locking collars see Art. 840 GE-L.

**DIN 2080 MILLING CUTTER HOLDER CHUCKS WELDON MODEL**

**1560GAB SCU**



**Prod. SCU**

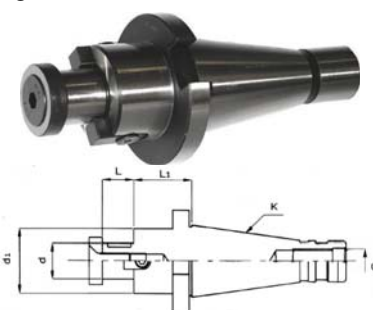
For milling cutters with Weldon shanks. High-precision. Max centring of milling cutters with the highest turning moments.

DIN 2080 shank, internally threaded end.

d mills drive Ø	mm	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>16</b>	<b>20</b>
Shape/ thread K/G		ISO 40 M16	ISO 40 M16	ISO 40 M16	ISO 40 M16	ISO 40 M16	ISO 40 M16
Height L	mm	50	50	50	50	50	50
Height d1	mm	25	28	35	42	48	50
<b>1560GAB</b>	<b>Each</b>	<b>122,00</b>	<b>110,00</b>	<b>134,00</b>	<b>134,00</b>	<b>134,00</b>	<b>134,00</b>

**DIN 2080 MILLING CUTTER HOLDER CHUCKS WITH FIXED DRAGGING**

**1560GAC SCU**



**Prod. SCU**

For milling cutters with hole connection. High-precision, max centring of milling cutters with the highest turning moments.

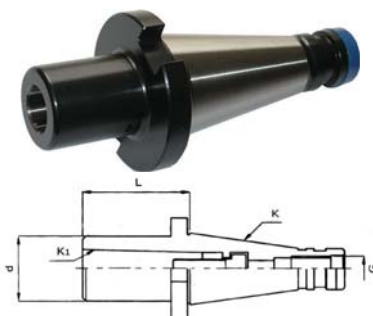
DIN 2080 shank, internally threaded end.

d mills bore Ø	mm	<b>16</b>	<b>22</b>	<b>27</b>	<b>32</b>
Shape/ thread K/G		ISO 40 M16	ISO 40 M16	ISO 40 M16	ISO 40 M16
Height L	mm	17	19	21	24
Height L1	mm	36	36	36	45
Height d1	mm	32	40	48	63
<b>1560GAC</b>	<b>Each</b>	<b>107,00</b>	<b>107,00</b>	<b>107,00</b>	<b>107,00</b>

For cross-shaped clamping wrenches see Art. 911 GP.

**DIN 2080 MORSE CONE REDUCTION CHUCKS FOR MILLING CUTTERS**

**1560GAE SCU**



**Prod. SCU**

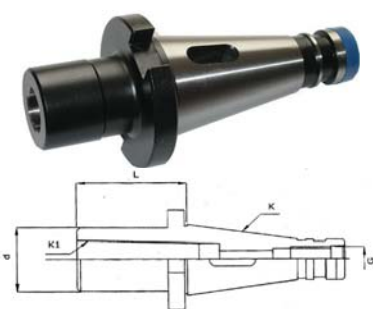
For milling cutters with Morse taper shank, internally threaded. High-precision, max centring of milling cutters with the highest turning moments.

DIN 2080 shank, internally threaded end.

Mills drive K1	C.M.	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Shape/ thread K/G		ISO 40 M16	ISO 40 M16	ISO 40 M16	ISO 40 M16
Height L	mm	50	50	65	95
Height d	mm	25	32	40	48
<b>1560GAE</b>	<b>Each</b>	<b>150,00</b>	<b>150,00</b>	<b>150,00</b>	<b>160,00</b>

**DIN 2080 MORSE CONE REDUCTION CHUCKS FOR DRILLS**

**1560GAF SCU**



**Prod. SCU**

For drill bits with Morse taper shank. High-precision, max centring of drill bits with the highest turning moments.

DIN 2080 shank, internally threaded end.

Tips drive K1	C.M.	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Shape/ thread K/G		ISO 40 M16	ISO 40 M16	ISO 40 M16	ISO 40 M16
Height L	mm	50	50	65	95
Height d	mm	25	32	40	48
<b>1560GAF</b>	<b>Each</b>	<b>148,00</b>	<b>148,00</b>	<b>148,00</b>	<b>153,00</b>

**DIN 2080 MONOLITHIC DRILL CHUCKS**

**1560GAL SCU**



**Prod. SCU**

For drill bits with cylindrical shank. High-precision, max centring of drill bits with the highest turning moments.

DIN 2080 shank, internally threaded end.

For tips Ø up to	mm	<b>13</b>	<b>16</b>
Shape/ thread K/G		ISO 40 M16	ISO 40 M16
Height L	mm	87	100
Height D	mm	51	58
<b>1560GAL</b>	<b>Each</b>	<b>410,00</b>	<b>430,00</b>

**DIN 2080 CONNECTION FOR CHUCKS DRILLS HOLDER**

**Prod. SCU**

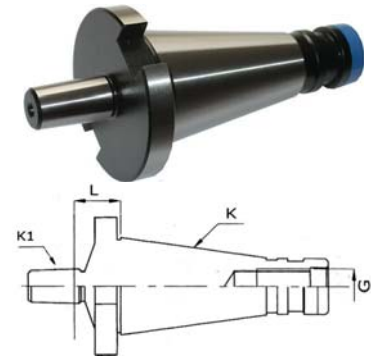
For chucks with "B" shank. High-precision, max centring of drill bits with the highest turning moments.

DIN 2080 shank, internally threaded end.

Type	1	2	3	4
Shape/ thread K/G	ISO 40 M16	ISO 40 M16	ISO 50 M24	ISO 50 M24
Chuck drive "B" K1	B12	B16	B16	B18
Height L mm	22	22	25	25
<b>1560GAM</b>	<b>Each 112,00</b>	<b>112,00</b>	<b>176,00</b>	<b>176,00</b>

**SCU**

**1560GAM**



**DIN 69871/A ER PINCERS HOLDER CHUCKS WITH LOCKING COLLAR**

**Prod. SCU**

For ER-DIN 6499/ISO 15488 wide opening collets. High-precision, max centring of tools such as milling cutters, drill bits, countersinks, reamers, boring bars, with the highest turning moments.

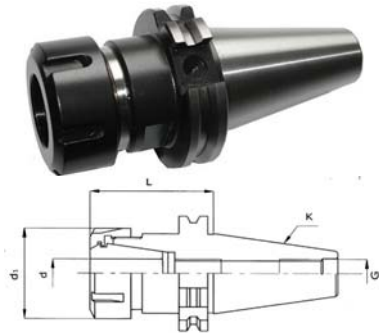
DIN 69871/A shank, internally threaded end.

Type	0	1	2	3	4
Shape/ thread K/G	ISO 40 M16	ISO 30 M12	ISO 40 M16	ISO 40 M16	ISO 50 M24
Tightening capacity Ø d mm	1-10	2-20	2-20	3-25	3-25
Height L mm	70	63	72	80	100
Height d1 mm	32	50	50	63	63
For pliers Art.	1506GS-1561GC	1560 GZ-1561 GN	1560 GZ-1561 GN	1561 GR	1561 GR
<b>1560GB</b>	<b>Each 143,00</b>	<b>140,00</b>	<b>107,00</b>	<b>117,00</b>	<b>206,00</b>

Hook spanners for DIN 6499 locking collars see Art. 840 GE-L.

**SCU**

**1560GB**



**DIN 69871/A MILLING CUTTER HOLDER CHUCKS WELDON MODEL**

**Prod. SCU**

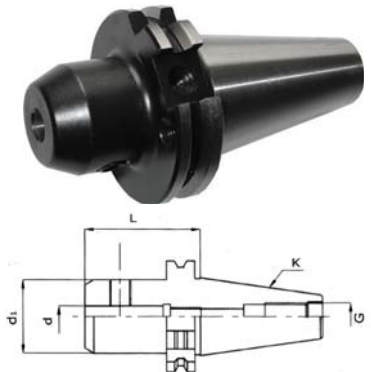
For milling cutters with Weldon shank. High-precision, max centring of milling cutters with the highest turning moments.

DIN 69871/A shank, internally threaded end.

d mills drive Ø mm	6	8	10	12	16	20
Shape/ thread K/G	ISO 40 M16	ISO 40 M16	ISO 40 M16	ISO 40 M16	ISO 40 M16	ISO 40 M16
Height L mm	50	50	50	50	63	63
Height d1 mm	25	28	35	42	48	50
<b>1560GBC</b>	<b>Each 132,00</b>	<b>132,00</b>	<b>134,00</b>	<b>134,00</b>	<b>134,00</b>	<b>134,00</b>

**SCU**

**1560GBC**



**DIN 69871/A MILLING CUTTER HOLDER CHUCKS WITH FIXED DRAGGING**

**Prod. SCU**

For milling cutters with hole connection. High-precision, max centring of milling cutters with the highest turning moments.

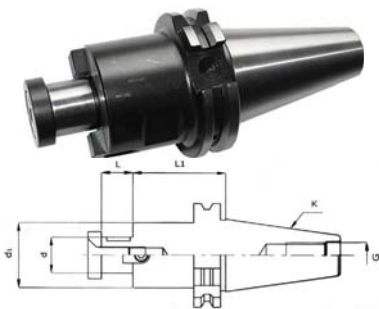
DIN 69871/A shank, internally threaded end.

d mills bore Ø mm	16	22	27	32
Shape/ thread K/G	ISO 40 M16	ISO 40 M16	ISO 40 M16	ISO 40 M16
Height L mm	17	19	21	24
Height L1 mm	60	58	58	58
Height d1 mm	39	48	48	60
<b>1560GBE</b>	<b>Each 107,00</b>	<b>107,00</b>	<b>107,00</b>	<b>107,00</b>

For cross-shaped clamping wrenches see Art. 911 GP.

**SCU**

**1560GBE**



**DIN 69871/A MORSE CONE REDUCTION CHUCKS FOR MILLING CUTTERS**

**1560GBF SCU**



**Prod. SCU**

For milling cutters with Morse taper shank, internally threaded. High-precision, max centring of milling cutters with the highest turning moments.

DIN 69871/A shank, internally threaded end.

Mills drive K1	C.M.	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Shape/ thread K/G		ISO 40 M16	ISO 40 M16	ISO 40 M16	ISO 40 M16
Height L	mm	50	50	70	95
Height d1	mm	25	32	40	48
<b>1560GBF</b>	<b>Each</b>	<b>137,00</b>	<b>137,00</b>	<b>141,00</b>	<b>148,00</b>

**1560GBL SCU**



**Prod. SCU**

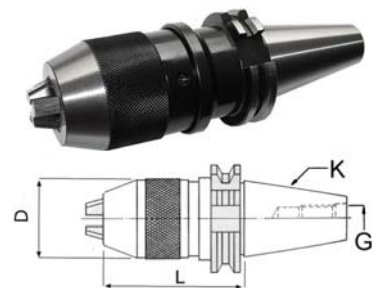
For drill bits with Morse taper shank. High-precision, max centring of drill bits with the highest turning moments.

DIN 69871/A shank, internally threaded end.

Tips drive K1	C.M.	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Shape/ thread K/G		ISO 40 M16	ISO 40 M16	ISO 40 M16	ISO 40 M16
Height L	mm	50	50	70	95
Height d1	mm	25	32	40	48
<b>1560GBL</b>	<b>Each</b>	<b>133,00</b>	<b>133,00</b>	<b>137,00</b>	<b>145,00</b>

**DIN 69871/A MONOLITHIC DRILL CHUCKS**

**1560GBM SCU**



**Prod. SCU**

For drill bits with cylindrical shank. High-precision, max centring of drill bits with the highest turning moments.

DIN 69871/A shank, internally threaded end.

For tips Ø up to	mm	<b>13</b>	<b>16</b>
Shape/ thread K/G		ISO 40 M16	ISO 40 M16
Height L	mm	100	110
Height D	mm	51	58
<b>1560GBM</b>	<b>Each</b>	<b>409,00</b>	<b>432,00</b>

**DIN 69871/A DRILL HOLDER CHUCKS**

**1560GBP SCU**



**Prod. SCU**

For chucks with "B" shank. High-precision, max centring of drill bits with the highest turning moments.

DIN 69871/A shank, internally threaded end.

Type		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Shape/ thread K/G		ISO 40 M16	ISO 40 M16	ISO 50 M24	ISO 50 M24
Chuck drive "B" K1		B12	B16	B16	B18
Height L	mm	40	40	40	40
<b>1560GBP</b>	<b>Each</b>	<b>132,00</b>	<b>132,00</b>	<b>200,00</b>	<b>200,00</b>

**MAS-BT ER PINCERS HOLDER CHUCKS WITH LOCKING COLLARS**

**Prod. SCU**

For ER-DIN 6499/ISO 15488 wide opening collets. High-precision, max centring of tools such as milling cutters, drill bits, countersinks, reamers, boring bars, with the highest turning moments. MAS-BT, BT 40 shank, internally threaded end.

Type	0	1	2
Shape/ thread K/G	BT 40 M16	BT 40 M16	BT 40 M16
Tightening capacity Ø d	mm 1-10	mm 2-20	mm 3-25
Height L	mm 70	mm 70	mm 80
Height d1	mm 32	mm 50	mm 63
For pliers Art.	1560 GS- 1561 GC	1560 GZ- 1561 GN	1561 GR
<b>1560GC</b>	<b>Each 133,00</b>	<b>103,00</b>	<b>127,00</b>

Hook spanners for DIN 6499 locking collars see Art. 840 GE-L.



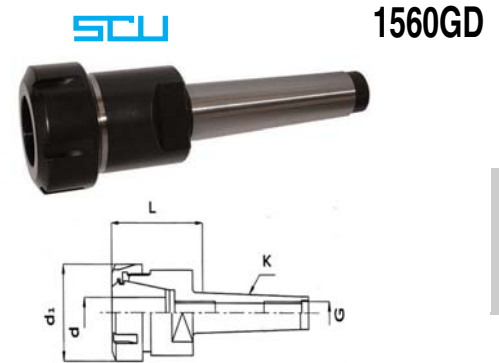
**C.M. ER PINCERS HOLDER CHUCKS WITH LOCKING COLLARS**

**Prod. SCU**

Product description as Art. 1560GC  
Morse Taper shank, internally threaded end.

Type	1	2	3	4	5
Shape/ thread K/G	C.M. 2 M10	C.M. 2 M10	C.M. 3 M12	C.M. 3 M12	C.M. 3 M12
Tightening capacity Ø d	mm 2-13	mm 2-16	mm 2-13	mm 2-16	mm 2-20
Height L	mm 50	mm 54	mm 50	mm 53	mm 70
Height d1	mm 35	mm 42	mm 28	mm 42	mm 50
For pliers Art.	1560 GT- 1561 GF	1560 GV- 1561 GL	1560 GT- 1561 GF	1560 GV- 1561 GL	1560 GZ- 1561 GN
<b>1560GD</b>	<b>Each 160,00</b>	<b>171,00</b>	<b>191,00</b>	<b>188,00</b>	<b>188,00</b>

Hook spanners for DIN 6499 locking collars see Art. 840 GE-L.



**CUTTERS HOLDER MORSE TAPER CHUCK, FIXED DRAGGING**

**Prod. SCU**

For milling cutters with through-hole connection. High-precision for cutter centring with very high turning moments. Morse taper shank 4, with tang.

d mills bore Ø	mm	16	22	27
Height L 2	mm	17	19	21
Height L 3	mm	27	31	33
<b>1560GE</b>	<b>Each</b>	<b>201,00</b>	<b>201,00</b>	<b>212,00</b>

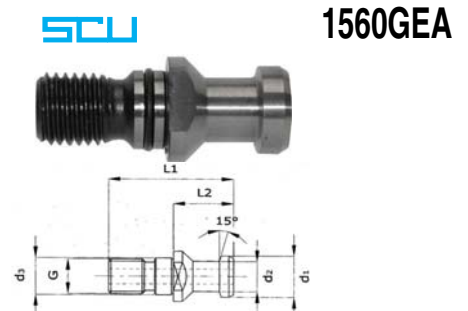


**TULLSTUDS FOR CHUCKS WITH SHANK DIN 69871/A**

**Prod. SCU**

In hardened steel. High-precision. Holed for internal lubrication. For chucks Art. 1560 GB-1560 GBC-1560 GBE-1560 GBF-1560 GBL-1560 GBM-1560 GBP.

Thread G	M.	12	16	24
Height d1	mm	12	19	28
Height d2	mm	8	14	21
Height d3	mm	13	17	25
Height L1	mm	44	54	74
Height L2	mm	24	26	34
For cones Gr.		ISO 30	ISO 40	ISO 50
<b>1560GEA</b>	<b>Each</b>	<b>19,90</b>	<b>19,90</b>	<b>19,90</b>

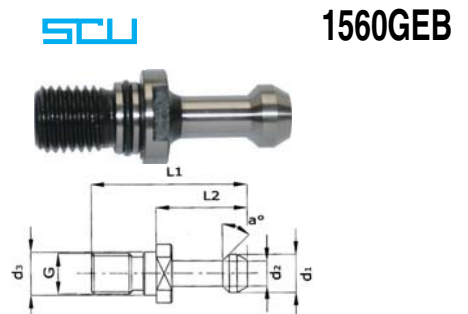


**TULLSTUDS FOR CHUCKS WITH SHANK MAS-BT**

**Prod. SCU**

Product description as Art. 1560GEA  
For chucks Art. 1560 GC.

Type	16	16A
Thread G	M.	16
Angle a°	degrees	45
Height d1	mm	15
Height d2	mm	10
Height d3	mm	17
Height L1	mm	60
Height L2	mm	35
For cones Gr.		BT 40
<b>1560GEB</b>	<b>Each</b>	<b>18,30</b>



**LOCKING COLLARS FOR ER PINCERS HOLDER CHUCKS**

**1560GEC** SCU



**Prod. SCU**

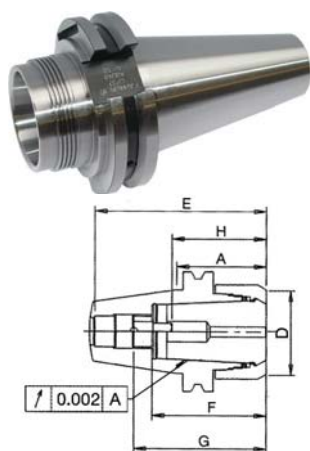
In hardened steel. High-precision, max centring, high tightness and easy replacement of tapping collets.

For chucks Art. 1560 GA-B-C-D.

For pliers holder chuck

	16	20	25	32	40
d ring nut Ø	mm 32	35	42	50	63
Ring-nut height L	mm 17,5	19	20	22,3	25,3
Ring-nut thread G	MF 22x1,5	25x1,5	32x1,5	40x1,5	50x1,5
<b>1560GEC</b>	<b>Each 24,90</b>	<b>24,90</b>	<b>24,90</b>	<b>24,90</b>	<b>33,20</b>

**1560GH** SCU



**Prod. SCU - Orig. Fahrion**

Suitable for DIN 6499/ISO 15488 ER collets, with clamping diameter based on the inner size. For DIN 6535 shanks and full diameters also with internal lubrication. High-precision, very high resistance, max centring of tools such as milling cutters, drills, countersinks, reamers, boring bars, etc. with the highest turning moments. The perfect manufacture of the trapezoidal threaded and long double guide locking collar ensures max centring, higher rotation precision and repetibility, long-term performance and easy replacement of tapping collets.

If used together with orig. Fahrion collets Art. 1561 GL-N, this product ensures a precision inferior or equal to 8 µm.

DIN 69871/ADB ER PINCERS HOLDER CHUCKS

DIN 69871/ADB ISO 40 shank, M16 internally threaded end.

Balancing level G 6.3 15000 rpm.

Type	25	32
Tightening capacity Ø	mm 2-16	2-20
Height D	mm 40	50
Height A	mm 45	50
Height E	mm 85	92
Height F	mm -	55
For pliers Art.	1561 GL	1561 GN
<b>1560GH</b>	<b>Each 183,00</b>	<b>183,00</b>

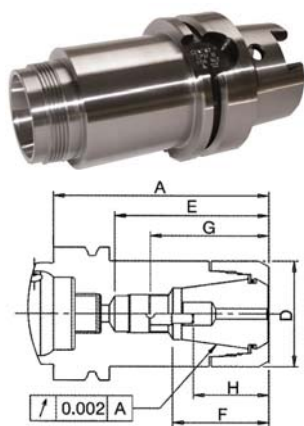
Chucks are supplied without locking collars and without seal rings.

For locking collars and rings see Art. 1560 GPA-B-C-E.

The E value refers to tools with shank < or = 16mm.

The F value refers to tools with shank > 16mm.

**1560GL** SCU



Product description as Art. 1560GH

HSK DIN 69893/A-E ER PINCERS HOLDER CHUCKS

DIN 69893/A-E HSK-A63 shank.

Balancing level G 6.3 20000 rpm

Type	25	32
Tightening capacity Ø	mm 2-16	2-20
Height D	mm 40	50
Height A	mm 100	100
Height E	mm 60	71
Height F	mm -	45
For pliers Art.	1561 GL	1561 GN
<b>1560GL</b>	<b>Each 205,00</b>	<b>205,00</b>

Chucks are supplied without locking collars and without seal rings.

For locking collars and rings see Art. 1560 GPA-B-C-E.

The E value refers to tools with shank < or = 16mm.

The F value refers to tools with shank > 16mm.

Product description as Art. 1560GH  
 MAS/BT ER PINCERS HOLDER CHUCKS  
 MAS/BT BT 40 shank, M16 internally threaded end.  
 Balancing level G 6.3 15000 rpm

Type		<b>25</b>	<b>32</b>
Tightening capacity Ø	mm	2-16	2-20
Height D	mm	40	50
Height A	mm	55	55
Height E	mm	93	95
Height F	mm	-	55
For pliers Art.		1561 GL	1561 GN
<b>1560GM</b>	<b>Each</b>	<b>183,00</b>	<b>183,00</b>

Chucks are supplied without locking collars and without seal rings.

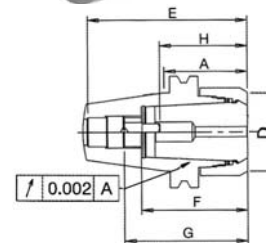
For locking collars and rings see Art. 1560 GPA-B-C-E.

The E value refers to tools with shank < or = 16mm.

The F value refers to tools with shank > 16mm.

**SCU**

**1560GM**



Suitable for DIN 6499/ISO 15488 ER collets. For DIN 6535 shanks and full diameters also with internal lubrication. High-precision, very high tightness, max centring of tools such as milling cutters, drills, countersinks, reamers, boring bars, etc. with the highest turning moments. The perfect manufacture of the trapezoidal threaded and long double guide locking collar ensures max centring, higher rotation precision and repeatability, long-term performance and easy replacement of tapping collets.

If used together with orig. Fahrion collets Art. 1561 GL-N, this product ensures a precision inferior or equal to 8 µm.

**LOCKING COLLARS FOR CHUCKS**

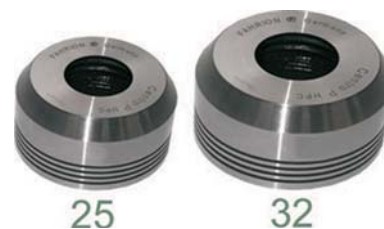
For ER pincer holder chucks Art. 1560 GH-L-M.

Type		<b>25</b>	<b>32</b>
Max Ø	mm	40	50
For chucks Art.		1560 GH-L-M 25	1560 GH-L-M 32
For pliers Art.		1561 GL	1561 GN
<b>1560GPA</b>	<b>Each</b>	<b>65,10</b>	<b>69,60</b>

For tightening wrenches see Art. 1560GRA B25/32

**SCU**

**1560GPA**



**6**

Product description as Art. 1560GPA

**LOCKING COLLARS FOR USE WITH SEALING RINGS**

For ER pincer holder chucks Art. 1560 GH-L-M.

Type		<b>25</b>	<b>32</b>
Max Ø	mm	40	50
For chucks Art.		1560 GH-L-M 25	1560 GH-L-M 32
For pliers Art.		1561 GL	1561 GN
<b>1560GPB</b>	<b>Each</b>	<b>76,30</b>	<b>80,80</b>

Locking collars are supplied without seal rings. For seal rings see Art. 1560 GPC-GPE. For tightening wrenches see Art. 1560GRA B25/32

**SCU**

**1560GPB**



**SEALING RINGS FOR CHUCKS**

Size 25.

To be used with locking collars Art. 1560 GPB 25 and collets Art. 1561 GL. Dimensions (mm)

D=20,2 L=2. For pressures up to 80 bar.

Tightening Ø	mm	<b>2</b>	<b>2.5</b>	<b>3</b>	<b>3.5</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>1560GPC</b>	<b>Each</b>	<b>27,80</b>	<b>27,80</b>	<b>22,70</b>	<b>22,70</b>	<b>22,70</b>	<b>22,70</b>	<b>22,70</b>

Tightening Ø	mm	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>
<b>1560GPC</b>	<b>Each</b>	<b>22,70</b>	<b>22,70</b>	<b>22,70</b>	<b>22,70</b>	<b>22,70</b>	<b>22,70</b>	<b>22,70</b>

Tightening Ø	mm	<b>14</b>	<b>15</b>	<b>16</b>
<b>1560GPC</b>	<b>Each</b>	<b>22,70</b>	<b>22,70</b>	<b>22,70</b>

**SEALING RINGS FOR CHUCKS**

Size 32.

To be used with locking collars Art. 1560 GPB 32 and collets Art. 1561 GN. Dimensions (mm)

D=26,2 L=2. For pressures up to 80 bar.

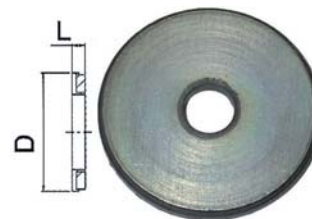
Tightening Ø	mm	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>1560GPE</b>	<b>Each</b>	<b>28,80</b>	<b>23,70</b>	<b>23,70</b>	<b>23,70</b>	<b>23,70</b>	<b>23,70</b>	<b>23,70</b>

Tightening Ø	mm	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>
<b>1560GPE</b>	<b>Each</b>	<b>23,70</b>	<b>23,70</b>	<b>23,70</b>	<b>23,70</b>	<b>23,70</b>	<b>23,70</b>	<b>23,70</b>

Tightening Ø	mm	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>1560GPE</b>	<b>Each</b>	<b>23,70</b>	<b>23,70</b>	<b>23,70</b>	<b>23,70</b>	<b>23,70</b>

**SCU**

**1560GPC**  
**1560GPE**



**1560GRA** SCU



**TIGHTENING WRENCHES FOR CHUCK LOCKING COLLARS**

Roller type with steel handle and rubber grip. Suitable to tighten/untighten any chuck locking collars provided with holes, nuts or smooth. It combines safety operation and quick and precise performances.

Locking ring nuts Ø	mm	40	50
Overall length	mm	400	480
ER clamps	Gr.	25	32
<b>1560GRA</b>	Each	<b>124,00</b>	<b>124,00</b>

**1560GRE** SCU **14x18**



Product description as Art. 1560GRA

Suitable for female drive torque wrenches 14x18mm (Art. 803 G 200 - 805 GH 200/300/400 - 805 GR) for controlled tightening.

Locking ring nuts Ø	mm	40	50
Male drive	mm	14x18	14x18
ER clamps	Gr.	25	32
<b>1560GRE</b>	Each	<b>124,00</b>	<b>124,00</b>

**DIN 6499-B/ISO 15488 ER/ESX COLLETS FOR CHUCKS, WIDE OPENING**

**1560GS** SCU **16**



Prod. SCU

Made of steel, manufactured to a rotation precision of up to 10 µm. Particularly suitable for work that does not require high precision and long-lasting tools, but cost saving. With elastic clamping capacity of 1mm.

Size 16.

Dimensions (mm): D = 17 L = 27,5.

Tightening Ø	mm	3	4	5	6	7	8	9
<b>1560GS</b>	Each	<b>21,30</b>	<b>21,30</b>	<b>21,30</b>	<b>21,30</b>	<b>21,30</b>	<b>21,30</b>	<b>21,30</b>
Tightening Ø	mm	10						
<b>1560GS</b>	Each	<b>21,30</b>						

**1560GT** SCU **20**



Product description as Art. 1560GS

Size 20.

Dimensions (mm): D = 21 L = 31,5.

Tightening Ø	mm	3	4	5	6	7	8	9
<b>1560GT</b>	Each	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>
Tightening Ø	mm	10	11	12	13			
<b>1560GT</b>	Each	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>			

**1560GV** SCU **25**



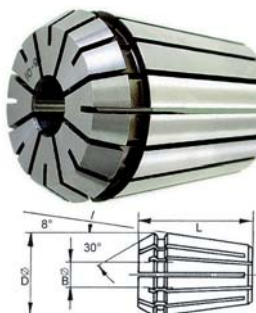
Product description as Art. 1560GS

Size 25.

Dimensions (mm): D = 26 L = 34.

Tightening Ø	mm	3	4	5	6	7	8	9
<b>1560GV</b>	Each	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>
Tightening Ø	mm	10	11	12	13	14	15	16
<b>1560GV</b>	Each	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>

**1560GZ** SCU **32**



Product description as Art. 1560GS

Size 32.

Dimensions (mm): D = 33 L = 40.

Tightening Ø	mm	3	4	5	6	7	8	9
<b>1560GZ</b>	Each	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>
Tightening Ø	mm	10	11	12	13	14	15	16
<b>1560GZ</b>	Each	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>
Tightening Ø	mm	17	18	19	20			
<b>1560GZ</b>	Each	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>			



**ASSORTMENTS OF ELASTIC PLIERS - ER/ESX TYPE**

**Prod. SCU**

On support for easy access.

Size	16	20	25	32
Chucks included Art.	1560GS	1560GT	1560GV	1560GZ
min/max tightening Ø	mm 1-10	2-13	2-16	3-20
Chucks included	No 10	12	15	18
<b>1560GZE</b>	<b>Each 208,00</b>	<b>269,00</b>	<b>318,00</b>	<b>391,00</b>

**SCU**

**1560GZE**



**DIN 6499-B/ISO 15488 ER/ESX COLLETS FOR CHUCKS, WIDE OPENING**

**Prod. SCU - Orig. Fahrion**

In special steel. High rotation precision up to 5 µm. This product allows using higher working parameters, it gives tools longer life, saving on working costs. Treated surface, ruby balls, lapped, with beveled edges for collets stronger clamping and chucks longer life. Particularly suitable for use with HSC and orig. Fahrion chucks.

Size 8.

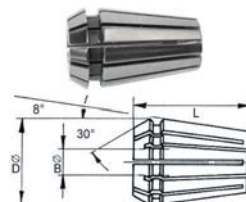
Clamping elastic capacity 0.5mm. Dimensions (mm) D = 8,5 L = 13,6.

Tightening Ø	mm	1	1,5	2	2,5	3	3,5	4
<b>1561GA</b>	<b>Each</b>	<b>46,10</b>	<b>46,10</b>	<b>46,10</b>	<b>46,10</b>	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>
Tightening Ø	mm	4,5	5					
<b>1561GA</b>	<b>Each</b>	<b>38,40</b>	<b>38,40</b>					

**SCU**

**8**

**1561GA**



Product description as Art. 1561GA

Size 11.

Clamping elastic capacity 0.5mm. Dimensions (mm) D = 11,5 L = 18.

Tightening Ø	mm	1	1,5	2	2,5	3	3,5	4
<b>1561GB</b>	<b>Each</b>	<b>42,80</b>	<b>42,80</b>	<b>42,80</b>	<b>42,80</b>	<b>34,60</b>	<b>34,60</b>	<b>34,60</b>
Tightening Ø	mm	4,5	5	5,5	6	6,5	7	
<b>1561GB</b>	<b>Each</b>	<b>34,60</b>	<b>34,60</b>	<b>34,60</b>	<b>34,60</b>	<b>34,60</b>	<b>34,60</b>	

**SCU**

**11**

**1561GB**



Product description as Art. 1561GA

Size 16.

Clamping elastic capacity 1mm (0.5 for clamping Ø 1-1.5mm).

Dimensions (mm) D = 17 L = 27,5.

Tightening Ø	mm	1	1,5	2	2,5	3	3,5	4
<b>1561GC</b>	<b>Each</b>	<b>41,40</b>	<b>41,40</b>	<b>41,40</b>	<b>41,40</b>	<b>32,70</b>	<b>55,70</b>	<b>32,70</b>
Tightening Ø	mm	4,5	5	5,5	6	6,5	7	7,5
<b>1561GC</b>	<b>Each</b>	<b>55,70</b>	<b>32,70</b>	<b>55,70</b>	<b>32,70</b>	<b>55,70</b>	<b>32,70</b>	<b>55,70</b>
Tightening Ø	mm	8	8,5	9	9,5	10		
<b>1561GC</b>	<b>Each</b>	<b>32,70</b>	<b>55,70</b>	<b>32,70</b>	<b>55,70</b>	<b>32,70</b>		

**SCU**

**16**

**1561GC**



Product description as Art. 1561GA

Size 20.

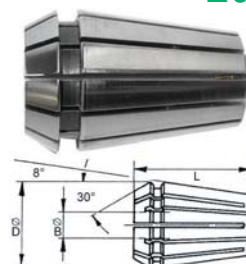
Clamping elastic capacity 1mm. Dimensions (mm) D = 21 L = 31,5.

Tightening Ø	mm	2	2,5	3	3,5	4	5	6
<b>1561GF</b>	<b>Each</b>	<b>42,60</b>	<b>42,60</b>	<b>33,70</b>	<b>56,70</b>	<b>33,70</b>	<b>33,70</b>	<b>33,70</b>
Tightening Ø	mm	7	8	9	10	11	12	13
<b>1561GF</b>	<b>Each</b>	<b>33,70</b>	<b>33,70</b>	<b>33,70</b>	<b>33,70</b>	<b>33,70</b>	<b>33,70</b>	<b>33,70</b>

**SCU**

**20**

**1561GF**



Product description as Art. 1561GA

Size 25.

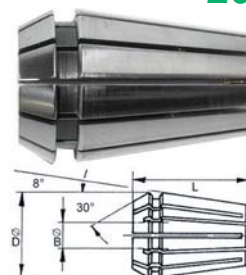
Clamping elastic capacity 1mm. Dimensions (mm) D = 26 L = 34.

Tightening Ø	mm	2	2,5	3	3,5	4	5	6
<b>1561GL</b>	<b>Each</b>	<b>44,90</b>	<b>44,90</b>	<b>34,60</b>	<b>57,60</b>	<b>34,60</b>	<b>34,60</b>	<b>34,60</b>
Tightening Ø	mm	7	8	9	10	11	12	13
<b>1561GL</b>	<b>Each</b>	<b>34,60</b>	<b>34,60</b>	<b>34,60</b>	<b>34,60</b>	<b>34,60</b>	<b>34,60</b>	<b>34,60</b>
Tightening Ø	mm	14	15	16				
<b>1561GL</b>	<b>Each</b>	<b>34,60</b>	<b>34,60</b>	<b>34,60</b>				

**SCU**

**25**

**1561GL**



### 1561GN

SCU

32



Product description as Art. 1561GA

Size 32.

Clamping elastic capacity 1mm. Dimensions (mm) D = 33 L = 40.

Tightening Ø	mm	2	3	4	5	6	7	8
<b>1561GN</b>	Each	47,50	37,00	37,00	37,00	37,00	37,00	37,00
Tightening Ø	mm	9	10	11	12	13	14	15
<b>1561GN</b>	Each	37,00	37,00	37,00	37,00	37,00	37,00	37,00
Tightening Ø	mm	16	17	18	19	20		
<b>1561GN</b>	Each	37,00	37,00	37,10	37,00	37,00		

### 1561GR

SCU

40



Product description as Art. 1561GA

Size 40.

Clamping elastic capacity 1mm. Dimensions (mm) D = 41 L = 46.

Tightening Ø	mm	3	4	5	6	7	8	9
<b>1561GR</b>	Each	63,60	47,90	47,90	47,90	47,90	47,90	47,90
Tightening Ø	mm	10	11	12	13	14	15	16
<b>1561GR</b>	Each	47,90	47,90	47,90	47,90	47,90	47,90	47,90
Tightening Ø	mm	17	18	19	20	21	22	23
<b>1561GR</b>	Each	47,90	47,90	47,90	47,90	47,90	47,90	47,90
Tightening Ø	mm	24	25	26	28	30		
<b>1561GR</b>	Each	47,90	47,90	47,90	58,90	58,90		

For Ø size mm 28 and 30 rotation's precision to 10 µm.

## ASSORTMENT OF ER/ESX COLLETS FOR CHUCKS

### 1561GT

SCU



Prod. SCU - Orig. Fahrion

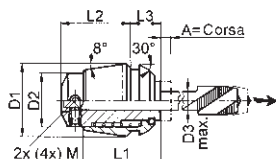
In practical case for easy access.

Size		8	11	16	20	25	32	40
Chucks included Art.		1561GA	1561GB	1561GC	1561GF	1561GL	1561GN	1561GR
min/max tightening Ø	mm	1-5	1-7	1-10	2-13	2-16	3-20	4-26
Chucks included	No	9	13	10	12	15	18	23
<b>1561GT</b>	Each	406,00	516,00	374,00	455,00	576,00	722,00	1.170,00

## TRACTION COMPENSATED PINCERS

### 1562GG 1562GH 1562GL 1562GM

SCU



Code	Thread range	DIMENSION						
		A	D1	D2	D3	L1	L2	L3
1562GG	M1-M6	7	17	11	6,3	22	20	7
1562GH	M1-M8	7	21	14	7,1	24	23	8
1562GL	M3-M10	8	26	19	10	26	24	10
1562GM	M4-M12	10	33	23	12,5	33	32	11

Prod. SCU - Orig. Fahrion

In special steel, precision manufacture according to class 2 corresponding to a rotation precision ranging from 15 to 20 µm. Finely worked. Traction compensation. Sealing ring to keep the male holder pivot clean. Ball sliding and drawing.

Size 16.

Tightening Ø	mm	2,24	2,5	2,8	3,15	3,5	3,55	4
<b>1562GG</b>	Each	197,00	200,00	200,00	197,00	200,00	197,00	200,00
Tightening Ø	mm	4,5	5	5,5	6	6,3		
<b>1562GG</b>	Each	200,00	200,00	200,00	200,00	200,00		

Sizes mm 2,24, 3,15 and 3,55 running out of stock.

Product description as Art. 1562GG

Size 20.

Tightening Ø	mm	2,5	2,8	3,15	3,5	3,55	4	4,5
<b>1562GH</b>	Each	200,00	200,00	197,00	200,00	197,00	200,00	200,00
Tightening Ø	mm	5	5,5	6	6,3	7		
<b>1562GH</b>	Each	200,00	200,00	200,00	200,00	200,00		

Sizes mm 3,15 and 3,55 running out of stock.

Product description as Art. 1562GG

Size 25.

Tightening Ø	mm	3,15	3,5	3,55	4	4,5	5	5,5
<b>1562GL</b>	Each	207,00	209,00	207,00	209,00	209,00	209,00	209,00
Tightening Ø	mm	6	6,3	7	8	9	10	
<b>1562GL</b>	Each	209,00	209,00	209,00	209,00	209,00	209,00	

Sizes mm 3,15 and 3,55 running out of stock.

Product description as Art. 1562GG

Size 32.

Tightening Ø	mm	4,5	5	5,5	6	6,3	7	8
<b>1562GM</b>	Each	224,00	224,00	224,00	224,00	224,00	224,00	224,00
Tightening Ø	mm	9	10	11	11,2	12	12,5	
<b>1562GM</b>	Each	224,00	224,00	224,00	224,00	224,00	224,00	

**Prod. SCU**

In special steel, finely worked. Traction compensation, male change on chuck directly, without removing the pincer. Sealing ring to keep the male holder pivot clean and prevent seizing up. Ball sliding and drawing.

Size 32.

Lunghezza corsa esp. 8mm. Dimensions (mm) D = 33 L = 48.

Tightening Ø	mm	3,5	4	4,5	6	7	8	9	
<b>1562GPA</b>	Each	175,00	175,00	166,00	151,00	151,00	151,00	151,00	
Tightening Ø	mm	10	11						
<b>1562GPA</b>	Each	151,00	151,00						

**SCU**

**32**

**1562GPA**



**CNC CHUCK VICES**

**Prod. SCU**

Suitable for DIN 2080, DIN 69871, BT and HSK-A chucks. For assembly and disassembly operations of the tools on the toolholders. Steel body with reversible locking device, for tenon assembly. With safety pin to prevent chucks from accidentally falling. Base with 4 fixing holes for workbench mounting.

Type		<b>1</b>	<b>2</b>
For drives		ISO 40/HSK-A63	ISO 50/HSK-A100
Height	mm	160	210
Width	mm	120	120
Overall length	mm	130	160
Bores width between centres	mm	85	85
Bores length between centres	mm	95	125
Weight	Kg	6,3	9,6
<b>1562GRA</b>	Each	314,00	370,00

**SCU**

**1562GRA**



**6**

**ZERO-SETTERS**

**Orig. MIB - Art. 01027091**

Hardened special steel. To set tools on "zero" and fix the chuck reference point in axial direction. Reference height 50mm, mobile taster surface Ø 34mm, with dial indicator Ø 40mm, reading 0.01mm. Capacity mm 8. Zero-setter dimensions Ø 55mmx50 h.

<b>1562GRE</b>	Each	122,00
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**MIB GERMANY**

**1562GRE**



**Orig. MIB - Art. 01027090**

Magnetic type. Hardened special steel. To set tools on "zero" and fix the chuck reference point in axial direction. Reference height 50mm, mobile taster surface Ø 26.6mm, with incorporated dial indicator Ø 40mm, reading 0.01mm. Capacity mm 8. Zero-setter dimensions mm50x48x50 h.

<b>1562GRF</b>	Each	167,00
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**MIB GERMANY**

**1562GRF**



**3-D TASTERS**

**Prod. SCU**

High quality version "made in Germany". Precision ±0.01 mm. Body made from sturdy, stable aluminium alloy. Shockproof head protection system with pre-set breaking point. Cylindrical shank, Weldon type Ø 20mm. Body length with tracer bar 113mm, shank length 50mm, body width 65mm., tracer bar ball Ø 4mm. Tracer bar length 25mm. Large display with double-scale reading for side, front and vertical movements. With 2 adjustment screws for zeroing. Can be installed horizontally and vertically on machine tools and electro-milling systems. It is fixed to the tool holder chuck for easy and precise positioning of the chuck axes. This makes it easy to determine the piece zero and the piece dimensions. It is possible to work on all three axes and the indicator always moves in the same direction, measuring the distance from the piece, without the need for additional calculations. With IP 67 protection for temporary immersion in liquids and dust penetration.

<b>1562S</b>	Each	705,00
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Tasting bars for taster Art. 1562 S.

Ball Ø	mm	4	8
Overall length	mm	25	65
Type		standard	optional
<b>O1562S</b>	Each	75,70	131,00

**SCU**

**1562S**



**IP67**

**TASTERS AND CENTRING TOOLS FOR EDGES**

1562TA



Orig. MIB

Rotation-type. Hardened and ground steel.  
The tasting head is elastically connected to the connection tang for a precise alignment of 0.01mm.  
For a rapid alignment of piece/profiles reference surfaces.  
Rotation speed 500/600 rpm.

Size		<b>10</b>	<b>104</b>
probe head Ø	mm	10	4 e 10
Drive Ø	mm	10	10
Overall length	mm	84	94
Supplier code		01027096	01027097
<b>1562TA</b>	<b>Each</b>	<b>30,20</b>	<b>33,80</b>

1562TE



Orig. MIB

Size 3 and 4 with lighting signal when the piece is touched.  
Size 5 with lighting and sound signal when the piece is touched.  
Complete with battery.  
Used for setting drilling centres with respect to the machine chuck and aligning piece/profiles reference surfaces. Hardened special steel tasting balls Ø 10mm.

Size		<b>3</b>	<b>4</b>	<b>5</b>
Drive Ø	mm	20	20	20
Overall length	mm	100	160	160
Supplier code		01027093	01027094	01027095
<b>1562TE</b>	<b>Each</b>	<b>115,00</b>	<b>130,00</b>	<b>144,00</b>

**ELECTRONIC 3-D CENTRING TOOLS, WITH LIGHT AND SOUND GENERATING MECHANISM**

6 1562V



Prod. SCU

Electronic device used to set distances or values to zero.  
Used for centring inside/outside circumferences by defining drilling centres with respect to the machine chuck and aligning piece/profiles reference surfaces.  
Hardened special steel tasting ball Ø 6mm ± 0.005. Ball shank total length 43mm (ball included) and safety shifting 4mm. Lighting and sound signal when the piece is touched. V 12 battery.  
Complete with instructions for use.

Drive Ø	mm	20
Drive length	mm	54
Overall length	mm	175
<b>1562V</b>	<b>Each</b>	<b>589,00</b>

**SELF-CENTRING CHUCKS**

1565G  
*new*

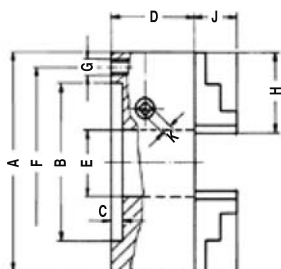


Prod. SCU - Röhm

Simple guide, special spheroidal die cast body.  
3-jaws very high-precision model.  
With 2 jaw sets: 1 for inside use, 1 for outside use and wrench. Slipping parts hardened and ground. Excellent vibration absorption, crown forged, balanced and hardened. In compliance with DIN 6350 A standards.

Ø	mm	<b>100</b>	<b>125</b>	<b>160</b>	<b>200</b>	<b>250</b>	<b>315</b>
Bore Ø	mm	20	32	42	55	76	103
Max rounds/revolution	No	4500	4000	3600	3000	2500	2000
Tightening force	kN	27	31	47	55	63	69
<b>1565G</b>	<b>Each</b>	<b>877,00</b>	<b>964,00</b>	<b>1.110,00</b>	<b>1.340,00</b>	<b>1.890,00</b>	<b>2.610,00</b>

On request we supply Jaws sets for indoor, outdoor and not hardened.



Riferimenti quote

A (Diametro)	mm	100	125	160	200	250	315
B (H6) mm	mm	70	95	125	160	200	260
C	mm	3	4	4	4	5	5
D	mm	50	56	65	73,5	82	95
E	mm	20	32	42	55	76	103
F	mm	83	108	140	176	224	286
G	mm	3xM8	3xM8	3xM10	3xM10	3xM12	3xM16
H	mm	48	52	61	69	90	130
J	mm	18	22,5	26	32,5	40	46
K	mm	8	9	10	11	12	14
Peso c.a.	Kg	2,9	4,5	8,2	14,6	25,7	44,2

Simple guide, special spheroidal die cast body.  
4-jaws very high-precision model.

With 2 jaw sets: 1 for inside use, 1 for outside use and wrench. Slipping parts hardened and ground. Excellent vibration absorption, crown forged, balanced and hardened. In compliance with DIN 6350 A standards.

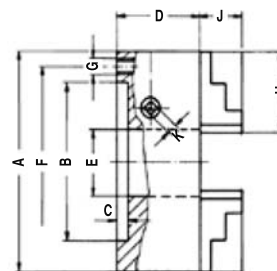
Ø	mm	100	125	160	200	250	315
Bore Ø	mm	20	32	42	55	76	103
Max rounds/revolution	No	4500	4000	3600	3000	2500	2000
Tightening force	kN	27	31	47	55	63	69
<b>1569G</b>	<b>Each</b>	<b>884,00</b>	<b>968,00</b>	<b>1.160,00</b>	<b>1.380,00</b>	<b>1.890,00</b>	<b>2.800,00</b>

On request we supply Jaws sets for indoor, outdoor and not hardened.

Riferimenti quote

A (Diametro)	mm	100	125	160	200	250	315
B (H6) mm	mm	70	95	125	160	200	260
C	mm	3	4	4	4	5	5
D	mm	50	56	65	73,5	82	95
E	mm	20	32	42	55	76	103
F	mm	83	108	140	176	224	286
G	mm	3xM8	3xM8	3xM10	3xM10	3xM12	3xM16
H	mm	48	52	61	69	90	130
J	mm	18	22,5	26	32,5	40	46
K	mm	8	9	10	11	12	14
Peso c.a.	Kg	2,9	4,5	8,2	14,6	25,7	44,2

SCU



**1569G**  
*new*

Double guide, special spheroidal die cast body.  
3-jaws very high-precision model.

With 2 jaw sets: 1 for inside use, 1 for outside use and wrench. Slipping parts hardened and ground. High clamping values, guaranteed by pinion and crown extra-toothing. Pinions and crown ground and hardened. In compliance with DIN 6350 standards.

Ø	mm	200	230	250	315
Bore Ø	mm	55	65	76	103
Weight	Kg	15	16	26,5	48
<b>1570G</b>	<b>Each</b>	<b>2.050,00</b>	<b>2.450,00</b>	<b>2.820,00</b>	<b>4.330,00</b>

SCU



**1570G**

6

Sets of 3 internal jaws, hardened. For Art. 1570 G.

Ø	mm	200	230	250	315
<b>1570GA</b>	<b>Per set</b>	<b>700,00</b>	<b>627,00</b>	<b>930,00</b>	<b>1.340,00</b>

SCU



**1570GA**

Sets of 3 external jaws, hardened. For Art.1570 G.

Ø	mm	200	230	250	315
<b>1570GB</b>	<b>Per set</b>	<b>676,00</b>	<b>630,00</b>	<b>916,00</b>	<b>1.450,00</b>

SCU



**1570GB**

Sets of 3 blocks, not hardened. Per Art. 1570 G.

Ø	mm	200	230	250	315
<b>1570GE</b>	<b>Per set</b>	<b>136,00</b>	<b>136,00</b>	<b>197,00</b>	<b>282,00</b>

SCU



**1570GE**

Sets of 3 hardened supports, for blocks. Per Art. 1570 G.

Ø	mm	200	230	250	315
<b>1570GF</b>	<b>Per set</b>	<b>627,00</b>	<b>627,00</b>	<b>702,00</b>	<b>1.130,00</b>

SCU



**1570GF**

**FACE PLATE FOR SELF-CENTRING CHUCKS**
**1571P** SCU

**Prod. SCU**

In die cast. Fusion raw finish.

The dimensions listed below are indicative and may be subject to change.

Flange Ø	mm	<b>90</b>	<b>115</b>	<b>145</b>	<b>210</b>	<b>260</b>	<b>320</b>
Flange height	mm	15	22	18	25	25	25
Bore Ø	mm	30	30	15	25	25	30
Hub Ø	mm	60	85	72	118	118	118
Hub height	mm	30	35	40	50	50	55
Weight	Kg	1,5	3	4,5	8	16	25
<b>1571P</b>	<b>Each</b>	<b>18,70</b>	<b>29,80</b>	<b>30,90</b>	<b>93,30</b>	<b>135,00</b>	<b>167,00</b>

The dimensions listed below are indicative and may be subject to change.

Product running out of stock.

**REVOLVING CENTERS**
**1578**  
*new* SCU

**60°**
**Prod. SCU**

Light. Made of hardened and ground steel, hardness HRC 61-62.

With tip at 60°.

Drive	C.M.	<b>2</b>	<b>3</b>	<b>4</b>
Rotating tip Ø	mm	25	28	32
Body Ø	mm	45	52	60
Radial workload	N	560	790	1100
Weight	Kg	0,350	0,700	1,200
<b>1578</b>	<b>Each</b>	<b>87,10</b>	<b>107,00</b>	<b>122,00</b>

**1579** SCU

**60°**

Type precision, In forged steel, hardened and ground. Hardness HRc 61-62.

Point at 60°

Drive	C.M.	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
Rotating tip Ø	mm	10	18	23	25	38
Body Ø	mm	28	41	50	60	75
Max load	Kg	80	180	270	550	1000
Weight	Kg	0,200	0,550	0,970	1,550	3,200
<b>1579</b>	<b>Each</b>	<b>129,00</b>	<b>134,00</b>	<b>172,00</b>	<b>246,00</b>	<b>358,00</b>

C.M. 7 revolving centres available on request.

**1580** SCU

**60°**

Heavy duty, high-precision centering.

In high resistance steel, completely hardened and ground. Hardness HRc 61-63.

3 x double ball bearings. Point at 60°

Drive	C.M.	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
Rotating tip Ø	mm	18	24	25	38	50
Body Ø	mm	46	60	70	90	105
Max rounds/revolution	No	5500	5500	5000	4000	2800
Max load	Kg	220	500	800	1500	2500
Weight	Kg	0,680	1,300	2,100	4,500	9,200
<b>1580</b>	<b>Each</b>	<b>157,00</b>	<b>209,00</b>	<b>283,00</b>	<b>411,00</b>	<b>1.070,00</b>

**BULL NOSE LATHE CENTERS**
**1582** SCU

**60°**
**Prod. SCU**

Type suitable for pipe and hollow parts lathing and grinding.

Completely in hardened and ground steel.

Self-adjusting and thrust bearings.

Point at 60°

Size		<b>2</b>	<b>2A</b>	<b>3</b>	<b>3A</b>	<b>4</b>	<b>5</b>
Drive	C.M.	2	2	3	3	4	5
Rotating cone max Ø	mm	45	55	55	70	70	90
Rotating cone min Ø	mm	15	20	20	25	25	32
Max axial load	Kg	80	120	120	150	200	350
<b>1582</b>	<b>Each</b>	<b>223,00</b>	<b>278,00</b>	<b>289,00</b>	<b>334,00</b>	<b>345,00</b>	<b>456,00</b>

**FACE DRIVING CENTERS**

**Prod. SCU**

In high resistance steel. Driving wedges in special steel (hardness HRC 61-63).  
 Hardened and ground spindle. Liquid-proof, slag-proof.  
 Provided with three driving pins, interchangeable driving wedges suited to possible front irregularities of the item to be processed. Screw to adjust the driving wedge pression.  
 Patented equalization system assures a uniform pression on driving wedges and allows to process items whose head is not aligned with the rotation axis.  
 Independent central centre, longwise guided.  
 Tailstock with driving discs/wedges.

**SCU**

**1583**

Size		2	2A	3
Drive	C.M.	2	2	3
Grip capacity min/max	mm	6-20	20-40	20-40
Rotating tip Ø	mm	10	10	10
Body Ø	mm	44	44	44
Length	mm	130	132	147
<b>1583</b>	<b>Each</b>	<b>388,00</b>	<b>419,00</b>	<b>434,00</b>

Product running out of stock.



Central pins for Art. 1583.

Size		2	2A	3
<b>O1583B</b>	<b>Each</b>	<b>41,90</b>	<b>36,10</b>	<b>36,10</b>

Product running out of stock.

Set of driving wedges for Art. 1583.

Size		2	2A	3
<b>O1583C</b>	<b>Per set</b>	<b>25,20</b>	<b>28,70</b>	<b>28,70</b>

Product running out of stock.

**REVOLVING CENTERS WITH INTERCHANGEABLE INSERTS**

**Prod. SCU**

Light. Made of hardened and ground steel.  
 Complete with interchangeable inserts and extractor for the inserts.  
 CM connection. 2. Length of rotating body only 35 mm. Total length without inserts 130 mm.

**SCU**

**1584E**  
*new*

<b>1584E</b>	<b>Each</b>	<b>262,00</b>
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**Prod. SCU - Röhm**

High precision model. Housing in high-resistance steel.  
 Spindle in special steel, hardened and ground.  
 Triple-range of ball bearings and guide rollers, liquid-proof, slag-proof.  
 Interchangeable points at 60°, 90°, truncated and hollow cone. Conic drive, hardened and ground.  
 Only revolving centre without inserts.

**SCU**

**1584G**

Drive	C.M.	2	3	4
Length of rotating body only	mm	45	48	67
Max axial load	Kg	40	130	250
<b>1584G</b>	<b>Each</b>	<b>417,00</b>	<b>408,00</b>	<b>577,00</b>



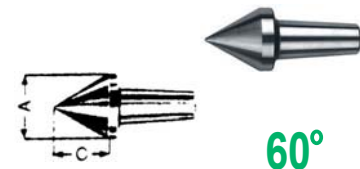
Point at 60° for Art. 1584 G.

For tailstock drive	C.M.	2	3	4
<b>1584GA</b>	<b>Each</b>	<b>50,30</b>	<b>59,60</b>	<b>69,90</b>

**SCU**

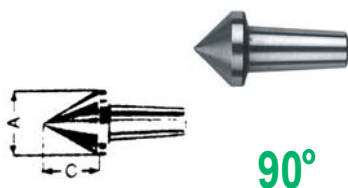
**1584GA**

	1584 GA	
	A	C
2	16	13
3	20	17
4	28	23,5



### 1584GC

SCU



90°

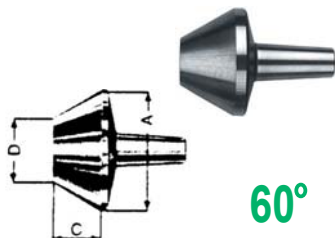
Point at 90° for Art. 1584 G.

For tailstock drive	C.M.	2	3	4
<b>1584GC</b>	Each	<b>68,40</b>	<b>68,40</b>	<b>81,50</b>

1584 GC		
	A	C
2	16	7,5
3	20	9,5
4	28	13,5

### 1584GE

SCU



60°

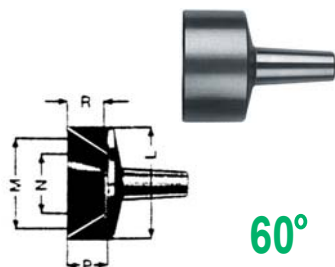
60° truncated cone inserts for Art.1584G

For tailstock drive	C.M.	2	3	4
<b>1584GE</b>	Each	<b>68,40</b>	<b>76,30</b>	<b>117,00</b>

1584 GE			
	A	C	D
2	25	13	10
3	35	17,5	15
4	55	21,5	30

### 1584GF

SCU



60°

60° truncated cone inserts for Art.1584G

For tailstock drive	C.M.	2	3	4
<b>1584GF</b>	Each	<b>123,00</b>	<b>149,00</b>	<b>210,00</b>

1584 GF					
	L	M	N	P	R
2	25	20	10	14	11
3	35	30	15	19	16
4	55	48	30	24	18

### 1584GL

SCU



Insert pullers for Art. 1584 G.

For tailstock drive	C.M.	2	3	4
<b>1584GL</b>	Each	<b>24,30</b>	<b>40,60</b>	<b>40,60</b>

## DEAD LATHE CENTERS

### 1585

SCU



60°

Prod. SCU

Made of WOLFRAM steel, fully hardened and ground. Precision machined. With 60° conical cusp.

Drive	C.M.	1	2	3	4	5	6
Length	mm	80	100	125	160	200	280
<b>1585</b>	Each	<b>14,10</b>	<b>14,10</b>	<b>20,70</b>	<b>30,30</b>	<b>54,60</b>	<b>117,00</b>

### 1586A

SCU



HARTMETALL 60°

Hard metal tipped.

Drive	C.M.	1	2	3	4	5	6
Length	mm	80	100	125	160	200	280
<b>1586A</b>	Each	<b>32,90</b>	<b>32,90</b>	<b>42,80</b>	<b>57,70</b>	<b>98,70</b>	<b>206,00</b>

### 1586B

SCU



HARTMETALL 60°

Product description as Art. 1586A

Drive	C.M.	2	3	4	5
Length	mm	100	125	160	200
<b>1586B</b>	Each	<b>36,50</b>	<b>45,30</b>	<b>61,70</b>	<b>104,00</b>



**QUICK-CHANGE TOOL BLOCKS**

**Prod. SCU**

In forged steel, hardened and ground. With 5 tool-holders: 3 x standard tool-holders and 1 with ptismatic lock, 1 tip-holder, 2 wrenches included.

High-precision finish.

Body dimensions	mm	70x70	80x80	100x100	115x115	126x126	145x145
Height	mm	45	55	60	75	85	95
Central bore	mm	14	14	20	25	25	32
For tools up to thickness	mm	16	20	21	26	31	36
Drive	C.M.	1	1	2	3	3	4
Weight	Kg	3,5	5	9	15	19	27
<b>1587</b>	<b>Each</b>	<b>811,00</b>	<b>864,00</b>	<b>882,00</b>	<b>1.030,00</b>	<b>1.190,00</b>	<b>1.420,00</b>

Spare flat seat tool holder. For Art. 1587.

Body dimensions	mm	70x70	80x80	100x100	115x115	126x126	145x145
<b>O1587A</b>	<b>Each</b>	<b>108,00</b>	<b>108,00</b>	<b>108,00</b>	<b>124,00</b>	<b>154,00</b>	<b>186,00</b>

Spare V-seat tool holder. For Art. 1587.

Body dimensions	mm	70x70	80x80	100x100	115x115	126x126	145x145
<b>O1587B</b>	<b>Each</b>	<b>115,00</b>	<b>115,00</b>	<b>115,00</b>	<b>138,00</b>	<b>168,00</b>	<b>200,00</b>

Spare tool holder with Morse cone. For Art. 1587.

Body dimensions	mm	70x70	80x80	100x100	115x115	126x126	145x145
<b>O1587C</b>	<b>Each</b>	<b>207,00</b>	<b>207,00</b>	<b>207,00</b>	<b>256,00</b>	<b>279,00</b>	<b>367,00</b>

T-wrenches. Square socket.

In forged steel. Burnished. For Art. 1587.

Opening	mm	7	9	10	12
For turrets	mm	70x70/80x80	100x100	115x115/126x126	145x145
<b>O1587E</b>	<b>Each</b>	<b>23,10</b>	<b>23,10</b>	<b>30,10</b>	<b>32,60</b>

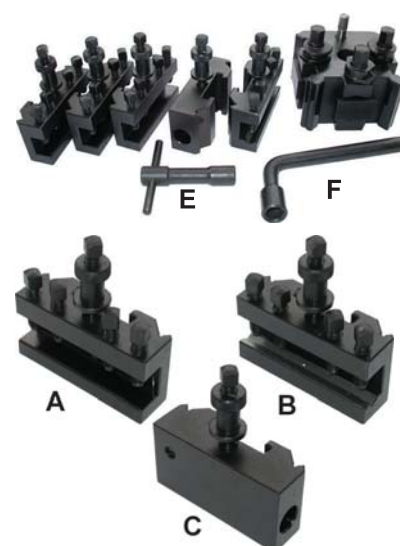
Offset socket wrenches. Hexagonal opening.

In forged steel. Burnished. For Art. 1587.

Opening	mm	10	12	14	17	21
For turrets	mm	70x70	80x80	100x100	115x115/126x126	145x145
<b>O1587F</b>	<b>Each</b>	<b>34,40</b>	<b>34,40</b>	<b>34,40</b>	<b>41,50</b>	<b>58,20</b>

**SCU**

**1587**



**6**

**BUCKLING KNURLING TOOLS**

**Prod. SCU**

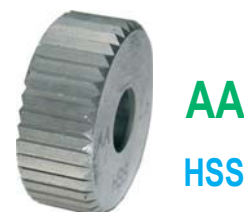
Professional model according to DIN 403 for knurling according to DIN 82. Diameter: 20mm. Thickness: 8mm. Hole: 6mm. In special QUICKSUPER steel (HSS), hardness HRC 62 (± 1). Ground sides and bore. Fine milled toothing.

Straight profile (AA).

Pitch	mm	0,4	0,5	0,6	0,7	0,8	1	1,2
<b>1592GA</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>
Pitch	mm	1,4	1,5	1,6	1,8	2		
<b>1592GA</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>		

**SCU**

**1592GA**



**AA**  
**HSS**

Product description as Art. 1592GA

Helical profile, left, 30° (BL 30).

Pitch	mm	0,4	0,5	0,6	0,7	0,8	1	1,2
<b>1592GB</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>
Pitch	mm	1,4	1,5	1,6	1,8	2		
<b>1592GB</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>		

**SCU**

**1592GB**



**BL**  
**30°**  
**HSS**

Product description as Art. 1592GA

Helical profile, left, 45° (BL 45).

Pitch	mm	0,4	0,5	0,6	0,7	0,8	1	1,2
<b>1592GC</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>
Pitch	mm	1,4	1,5	1,6	1,8	2		
<b>1592GC</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>		

**SCU**

**1592GC**



**BL**  
**45°**  
**HSS**

Product description as Art. 1592GA

Helical profile, right, 30° (BR 30).

Pitch	mm	0,4	0,5	0,6	0,7	0,8	1	1,2
<b>1592GE</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>
Pitch	mm	1,4	1,5	1,6	1,8	2		
<b>1592GE</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>		

**SCU**

**1592GE**



**BR**  
**30°**  
**HSS**

## 1592GF SCU



**BR**  
**45°**  
**HSS**

Product description as Art. 1592GA

Helical profile, right, 45° (BR 45).

Pitch	mm	0,4	0,5	0,6	0,7	0,8	1	1,2
1592GF	Each	38,80	38,80	38,80	38,80	38,80	38,80	38,80
Pitch	mm	1,4	1,5	1,6	1,8	2		
1592GF	Each	38,80	38,80	38,80	38,80	38,80		

## 1592GH SCU



**GE**  
**30°**  
**HSS**

Product description as Art. 1592GA

Cross profile, 30° beaded point (GE 30).

Pitch	mm	0,4	0,5	0,6	0,7	0,8	1	1,2
1592GH	Each	66,10	66,10	66,10	66,10	66,10	66,10	66,10
Pitch	mm	1,4	1,5	1,6	1,8	2		
1592GH	Each	66,10	66,10	66,10	66,10	66,10		

## 1592GL SCU



**GE**  
**45°**  
**HSS**

Product description as Art. 1592GA

Cross profile, 45° beaded point (GE 45).

Pitch	mm	0,4	0,5	0,6	0,7	0,8	1	1,2
1592GL	Each	66,10	66,10	66,10	66,10	66,10	66,10	66,10
Pitch	mm	1,4	1,5	1,6	1,8	2		
1592GL	Each	66,10	66,10	66,10	66,10	66,10		

## 1592GM SCU



**GV**  
**30°**  
**HSS**

Product description as Art. 1592GA

Cross profile, 30° with reentrant point (GV 30).

Pitch	mm	0,4	0,5	0,6	0,7	0,8	1	1,2
1592GM	Each	72,30	72,30	72,30	72,30	72,30	72,30	72,30
Pitch	mm	1,4	1,5	1,6	1,8	2		
1592GM	Each	72,30	72,30	72,30	72,30	72,30		

## 1592GP SCU



**GV**  
**45°**  
**HSS**

Product description as Art. 1592GA

Cross profile, 45° with reentrant point (GV 45).

Pitch	mm	0,4	0,5	0,6	0,7	0,8	1	1,2
1592GP	Each	72,30	72,30	72,30	72,30	72,30	72,30	72,30
Pitch	mm	1,4	1,5	1,6	1,8	2		
1592GP	Each	72,30	72,30	72,30	72,30	72,30		

Upon sale of all stock, the knurled items from Art. 1592 GA to 1592 GP will be supplied in SINTE-RED COBALT special steel instead of HSS.

## KNURLING TOOLS HOLDERS

## 1592GR SCU

**Prod. SCU**

Professional model, in forged steel. Burnished finish.

Supplied with pins, without knurling tools.

1-pcs knurling tool. Length: 110mm.

Cross section: 14x14mm.

1592GR	Each	37,80
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Knurling tools: see Art. 1592 GA to 1592 GP.

## 1592GS SCU



Product description as Art. 1592GR

2-pcs knurling-tools. Length: 148mm.

Cross section: 18x25mm.

1592GS	Each	157,00
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Knurling tools: see Art. 1592 GA to 1592 GP.

## 1592GT SCU



Product description as Art. 1592GR

6-pcs knurling tools. Length: 178mm.

Section: 25x25mm.

1592GT	Each	265,00
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Knurling tools: see Art. 1592 GA to 1592 GP.

Product description as Art. 1592GR

2-pcs knurling tools, with compensating action. Adjustable capacity Ø mm 4 a 50. Length mm 215.

Section mm 18x25.

**1592GV** Each **378,00**

Knurling tools: see Art. 1592 GA to 1592 GP.

SCU



**1592GV**

**KNURLING TOOLS SETS**

**Prod. SCU**

In handy PVC box.

Dimensions: 205x135x45mm.

The set contains:

1 x Art. 1592 GR

1 x Art. 1592 GS

1 x each Art. 1592 GA 0.8 - 1.2 - 1.6

1 x each Art. 1592 GB 0.8 - 1.2 - 1.6

1 x each Art. 1592 GE 0.8 - 1.2 - 1.6

1 x additional spare pin Art. 1592 GR

2 x additional spare pins for Art. 1592 GS

Complete assortment.

**1592GZ** Each **504,00**

SCU



**1592GZ**

**CUTTING KNURLING TOOLS**

**Prod. SCU**

Professional model according to standard 403 for CUTTING knurling according to DIN 82.

Diameter 21.5mm. Thickness 5mm. Bore 8mm.

In special QUICKSUPER steel (HSS), hardness HRC 62 (± 1). Ground sides and bore.

Fine milled tothing.

Straight profile (AA).

Pitch	mm	0,4	0,5	0,6	0,7	0,8	1	1,2
<b>1593GA</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>

Pitch	mm	1,4	1,5	1,6	1,8	2
<b>1593GA</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>

SCU



**1593GA**

**AA**  
**HSS**

Product description as Art. 1593GA

Helical profile, left, 15° (BL 15).

Pitch	mm	0,4	0,5	0,6	0,7	0,8	1	1,2
<b>1593GB</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>

Pitch	mm	1,4	1,5	1,6	1,8	2
<b>1593GB</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>

SCU



**1593GB**

**BL**  
**15°**  
**HSS**

Product description as Art. 1593GA

Helical profile, left, 30° (BL 30).

Pitch	mm	0,4	0,5	0,6	0,7	0,8	1	1,2
<b>1593GC</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>

Pitch	mm	1,4	1,5	1,6	1,8	2
<b>1593GC</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>

SCU



**1593GC**

**BL**  
**30°**  
**HSS**

Product description as Art. 1593GA

Helical profile, right, 15° (BR 15).

Pitch	mm	0,4	0,5	0,6	0,7	0,8	1	1,2
<b>1593GE</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>

Pitch	mm	1,4	1,5	1,6	1,8	2
<b>1593GE</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>

SCU



**1593GE**

**BR**  
**15°**  
**HSS**

Product description as Art. 1593GA

Helical profile, right, 30° (BR 30).

Pitch	mm	0,4	0,5	0,6	0,7	0,8	1	1,2
<b>1593GF</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>

Pitch	mm	1,4	1,5	1,6	1,8	2
<b>1593GF</b>	<b>Each</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>	<b>38,80</b>

SCU



**1593GF**

**BR**  
**30°**  
**HSS**

Upon sale of all stock, the knurled items from Art. 1593 GA to 1593 GF will be supplied in SINTE-RED COBALT special steel instead of HSS.

**KNURLING TOOLS HOLDERS**
**1593GP****SCU****Prod. SCU**

Industrial model, in forged steel. Burnished finish. To be installed also on numerical control lathes (NC), high speed.

Supplied with threaded pins, without knurling tools.

1-pcs knurling tool, 30° inclined head, reversable, for axial use. Required for RAA, RBR and 30° RBL knurling.

Suitable for component Ø from 5mm to 250mm. Length 150mm. Cross section 20x25mm.

<b>1593GP</b>	Each	<b>681,00</b>
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For knurls see Art. 1593 GA to 1593 GF.

**1593GR****SCU****RIGHT**

Product description as Art. 1593GP

2-pcs knurling tool, for axial use. Required for 30° RGE, 45° RGE and 60° RGE knurling.

Suitable for component Ø from 5mm to 250mm. Length 165mm. Cross section 20x25mm.

Right-hand version.

<b>1593GR</b>	Each	<b>1.090,00</b>
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For knurls see Art. 1593 GA to 1593 GF.

**1593GT****SCU****LEFT**

Product description as Art. 1593GP

2-pcs knurling tool, for axial use. Required for 30° RGE, 45° RGE and 60° RGE knurling.

Suitable for component Ø from 5mm to 250mm. Length 165mm. Cross section 20x25mm.

Left-hand version.

<b>1593GT</b>	Each	<b>1.090,00</b>
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For knurls see Art. 1593 GA to 1593 GF.

**AUTOMATIC LATHE DOGS**
**1595****SCU****Prod. SCU**

In hardened steel.

For lathes and grinders.

Rapid workpieces turnover. Suitable for serial works.

Size	1	2	3	4	5	6	
Capacity min	4	8	16	24	32	40	
Max capacity	8	16	24	32	40	48	
Weight	70	160	260	320	540	780	
<b>1595</b>	Each	<b>55,60</b>	<b>63,40</b>	<b>68,90</b>	<b>77,80</b>	<b>88,90</b>	<b>134,00</b>

Spare spring for Art. 1595.

Size	1	2	3	4	5	6	
<b>O1595</b>	Each	<b>5,56</b>	<b>5,56</b>	<b>6,68</b>	<b>6,68</b>	<b>7,80</b>	<b>8,34</b>

Spare levers for Art. 1595.

Size	1	2	3	4	5	6	
<b>O1595A</b>	Each	<b>22,30</b>	<b>27,80</b>	<b>31,20</b>	<b>31,20</b>	<b>44,50</b>	<b>55,60</b>

**CLEANERS FOR CONE AND CYLINDRICAL SHANKS**
**1596G****SCU****Prod. SCU**

For cone inside cleaning. Housing in plastic material with longitudinal inserts in synthetic leather.

Oil-proof and detergent-proof.

Type for Morse cones.

Morse cone	1	2	3	4	5	
<b>1596G</b>	Each	<b>18,10</b>	<b>19,60</b>	<b>21,20</b>	<b>33,10</b>	<b>43,10</b>

**1597G****SCU**

Product description as Art. 1596G

Type for ISO/SK cones.

Cone ISO/SK	20	30	40	45	50	
<b>1597G</b>	Each	<b>22,20</b>	<b>20,90</b>	<b>28,20</b>	<b>45,40</b>	<b>55,50</b>

**1598G****SCU**

Product description as Art. 1596G

Type for HSK cones.

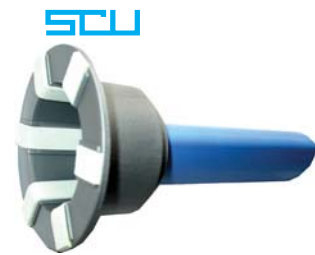
Cone HSK	25	32	40	50	63	80	100	
<b>1598G</b>	Each	<b>68,60</b>	<b>65,30</b>	<b>68,60</b>	<b>71,20</b>	<b>75,10</b>	<b>86,50</b>	<b>94,70</b>

Cone HSK	125	
<b>1598G</b>	Each	<b>144,00</b>

For cone outside cleaning. Housing in plastic material with longitudinal inserts in synthetic leather. Oil-proof and detergent-proof.

Type for HSK - 63 cones.

Cone HSK	63
<b>1598GA</b>	Each <b>75,10</b>


**1598GA**

Palm model for cone outside cleaning. Housing in plastic material with longitudinal inserts in synthetic leather. Oil-proof and detergent-proof.

Type for HSK - 63 cones.

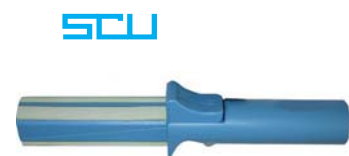
Cone HSK	63
<b>1598GB</b>	Each <b>68,60</b>


**1598GB**

Patented model for cylindrical shanks and holes inside cleaning. Pilot spring-system in the hole to be cleaned.

Housing in plastic material with longitudinal inserts in synthetic leather. Oil-proof and detergent-proof.

For int. bore Ø	mm	16	20	25	32	40
Cleaning inserts length	mm	75	75	85	105	110
<b>1599G</b>	Each	<b>58,20</b>	<b>58,20</b>	<b>64,20</b>	<b>72,20</b>	<b>76,30</b>


**1599G**

### OIL-SYSTEM REGULATION

#### Orig. MAXIFLEX

Maxiflex is flexible.

Adjustable length to position the hose where required.

Maxiflex is dimensionally stable.

If correctly positioned, neither the flow of substances nor machine vibrations can modify its position.

Maxiflex keeps flow steady.

UNoestricted flow in any positions and constant flow of any kind of substances, liquids and compressed air is guaranteed up to 4 atm.

Maxiflex is versatile.

Single-hose system, one or more nozzles can be installed through relative connections.

Maxiflex is easy to assemble.

Removal and installation are highly simplified by using an assembly pliers specifically designed to this purpose and a simple separator.

Maxiflex is manufactured in high grade synthetic material.

Maxiflex synthetic material is solid and chemicals-proof. Maxiflex hose is not conductive.

HOSE 1/4" - 6mm

SET:

1 x R 1/4" connector

1 x nozzle Ø 3.2mm

1 x hose pipe 320mm.

<b>1601G</b>	Each <b>17,70</b>
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**1601G**


1/4"

Product description as Art. 1601G

HOSE 1/4" - 6 mm

Articulated hose. Length: 1m.

<b>1602G</b>	Per pack <b>50,10</b>
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**1602G**


1/4"

Product description as Art. 1601G

HOSE 1/4" - 6mm

Articulated hose. Length: 10m.

<b>1603G</b>	Per pack <b>501,00</b>
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**1603G**


1/4"

**1604GA** **maxi lex**

Product description as Art. 1601G  
HOSE 1/4" - 6mm  
4 x nozzles Ø 1.6mm.

**1604GA** Per pack **11,30**

**1604GB** **maxi lex**

Product description as Art. 1601G  
HOSE 1/4" - 6mm  
4 x nozzles Ø 3.2mm.

**1604GB** Per pack **11,30**

**1604GC** **maxi lex**

Product description as Art. 1601G  
HOSE 1/4" - 6mm  
4 x nozzles Ø 5.6mm.

**1604GC** Per pack **11,30**

**1604GF** **maxi lex**

Product description as Art. 1601G  
HOSE 1/4" - 6mm  
2 x flat nozzles 24mm.

**1604GF** Per pack **14,80**

**1604GL** **maxi lex**

Product description as Art. 1601G  
HOSE 1/4" - 6mm  
2 x multi-hose flat nozzles 24mm.

**1604GL** Per pack **14,80**

**1604GP** **maxi lex**

Product description as Art. 1601G  
HOSE 1/4" - 6mm  
4 x angled nozzles Ø 1.6mm.

**1604GP** Per pack **13,10**

**1604GR** **maxi lex**

Product description as Art. 1601G  
HOSE 1/4" - 6mm  
4 x angled nozzles Ø 3.2mm.

**1604GR** Per pack **13,10**

**1604GS** **maxi lex**

Product description as Art. 1601G  
HOSE 1/4" - 6mm  
4 x angled nozzles Ø 5.6mm.

**1604GS** Per pack **13,10**

**1604GT** **maxi lex**

Product description as Art. 1601G  
HOSE 1/4" - 6mm  
2 x multi-hole angled nozzles, 7 holes Ø 2mm.

**1604GT** Per pack **11,80**

Product description as Art. 1601G

HOSE 1/4" - 6mm  
 4 x R 1/8" connections.

**1605GA** Per pack **13,10**

**maxi lex**

**1605GA**

1/4"



1/8"

Product description as Art. 1601G

HOSE 1/4" - 6mm  
 4 x R 1/4" connections.

**1605GB** Per pack **13,10**

**maxi lex**

**1605GB**

1/4"



1/4"

Product description as Art. 1601G

HOSE 1/4" - 6mm  
 2 x Y - junctions.

**1605GC** Per pack **14,80**

**maxi lex**

**1605GC**

1/4"



1/4"

Product description as Art. 1601G

HOSE 1/4" - 6mm  
 4 x adaptors for LOC-LINE and ARIANA systems.

**1605GF** Per pack **11,30**

**maxi lex**

**1605GF**

1/4"



1/4"

**6**

Product description as Art. 1601G

HOSE 1/4" - 6mm  
 4 x double socket adaptors

**1605GL** Per pack **16,40**

**maxi lex**

**1605GL**

1/4"



1/4"

Product description as Art. 1601G

HOSE 1/4" - 6mm  
 4 x double socket adaptors.

**1605GN** Per pack **16,40**

**maxi lex**

**1605GN**

1/4"



1/4"

Product description as Art. 1601G

HOSE 1/4" - 6mm  
 2 x clips junctions.

**1605GR** Per pack **14,80**

**maxi lex**

**1605GR**

1/4"



1/4"

Product description as Art. 1601G

HOSE 1/4" - 6mm  
 1 x separator.

**1607GA** Each **5,56**

**maxi lex**

**1607GA**

1/4"



1/4"

Product description as Art. 1601G

HOSE 1/4" - 6mm  
 1 x assembly pliers.

**1607GB** Each **23,10**

**maxi lex**

**1607GB**

1/4"



1/4"

**1612G**



1/2"

Product description as Art. 1601G

HOSE 1/2" - 12mm

SET:

1 x R 1/2" connection

1 x nozzle Ø 10mm

1 x hose pipe 320mm

**1612G** Each **20,20**
**1613G**



1/2"

Product description as Art. 1601G

HOSE 1/2" - 12mm

Articulated hose, length: 1m.

**1613G** Per pack **61,30**
**1613GL**



1/2"

Product description as Art. 1601G

HOSE 1/2" - 12mm

Articulated hose, length: 10m.

**1613GL** Per pack **613,00**
**1614GA**



1/2"

Product description as Art. 1601G

HOSE 1/2" - 12mm

4 x nozzles Ø 10mm.

**1614GA** Per pack **13,10**
**1614GB**



1/2"

Product description as Art. 1601G

HOSE 1/2" - 12mm

2 x flat nozzles 30mm.

**1614GB** Per pack **16,40**
**1614GC**



1/2"

Product description as Art. 1601G

HOSE 1/2" - 12mm

2 x flat nozzles 60mm.

**1614GC** Per pack **16,40**



Product description as Art. 1601G

HOSE 1/2" - 12mm  
2 x multihole flat nozzles 30mm.

**1614GF** Per pack **16,40**

**maxi lex**

**1614GF**



Product description as Art. 1601G

HOSE 1/2" - 12mm  
4 x angled nozzles Ø 7mm.

**1614GP** Per pack **16,40**

**maxi lex**

**1614GP**



Product description as Art. 1601G

HOSE 1/2" - 12mm  
4 x angled nozzles Ø 10mm.

**1614GR** Per pack **16,40**

**maxi lex**

**1614GR**



Product description as Art. 1601G

HOSE 1/2" - 12mm  
2 x angled nozzles with 8 holes, Ø 3.2mm.

**1614GT** Per pack **15,20**

**maxi lex**

**1614GT**



Product description as Art. 1601G

HOSE 1/2" - 12mm  
4 x R 3/8" connections.

**1615GA** Per pack **14,20**

**maxi lex**

**1615GA**



Product description as Art. 1601G

HOSE 1/2" - 12mm  
4 x R 1/2" connections.

**1615GB** Per pack **14,20**

**maxi lex**

**1615GB**



Product description as Art. 1601G

HOSE 1/2" - 12mm  
2 x Y - junctions.

**1615GC** Per pack **16,40**

**maxi lex**

**1615GC**



Product description as Art. 1601G

HOSE 1/2" - 12mm  
2 x Y - junctions with 12 ÷ 6 adaptors.

**1615GF** Per pack **16,40**

**maxi lex**

**1615GF**



**1615GL** **maxi lex**


Product description as Art. 1601G

HOSE 1/2" - 12mm

2 x 12 ÷ 6 adaptors.

<b>1615GL</b>	Per pack	<b>14,80</b>
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**1615GN** **maxi lex**


Product description as Art. 1601G

HOSE 1/2" - 12mm

4 x adaptors for LOC-LINE and ARIANA systems.

<b>1615GN</b>	Per pack	<b>13,10</b>
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**1615GP** **maxi lex**


Product description as Art. 1601G

HOSE 1/2" - 12mm

4 x double socket adaptors

<b>1615GP</b>	Per pack	<b>19,10</b>
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**6 1615GS** **maxi lex**


Product description as Art. 1601G

HOSE 1/2" - 12mm

4 x double adaptors.

<b>1615GS</b>	Per pack	<b>19,10</b>
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**1615GT** **maxi lex**


Product description as Art. 1601G

HOSE 1/2" - 12mm

2 x clips junctions.

<b>1615GT</b>	Per pack	<b>16,40</b>
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**1616GA** **maxi lex**


Product description as Art. 1601G

HOSE 1/2" - 12mm

1 x separator.

<b>1616GA</b>	Each	<b>9,16</b>
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**1616GB** **maxi lex**


Product description as Art. 1601G

HOSE 1/2" - 12mm

1 x assembly pliers.

<b>1616GB</b>	Each	<b>23,10</b>
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**1619GA** **maxi lex**


Product description as Art. 1601G

HOSE 1/2" - 12mm

4 x hose pipes, length: 120mm.

<b>1619GA</b>	Per pack	<b>22,40</b>
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Product description as Art. 1601G

HOSE 1/2" - 12mm

4 x box couplings.

**1619GM** Per pack **19,10**

**maxi lex**

**1619GM**



Assortment of 23 components connection 1/4", in a practical plastic case.

Contents:

- 3 articulated flexible hoses from 280 mm
- 2 round jets Ø 1.6 mm
- 3 round jets Ø 3.2 mm
- 2 round jets Ø 5.6 mm
- 1 flat jet 24 mm
- 1 flat jet with 7 holes, 24 mm
- 2 Y-joints
- 1 double joint
- 2 threaded R-joints 1/8 "
- 3 threaded R-joints 1/4"
- 1 adapter for LOC-LINE and ARIANA systems
- 1 pair of mounting pliers Art. 1607 GB
- 1 separator Art. 1607 GA.

**1620GA** Each **144,00**

**maxi lex**

**1/4"**

**1620GA**  
*new*



Assortment of 20 components connection 1/2", in a practical plastic case.

Contents:

- 3 articulated flexible hoses from 265 mm
- 3 round jets Ø 10 mm
- 1 flat jet 30 mm
- 1 flat jet 60 mm
- 1 flat jet with 6 holes, 30mm
- 1 Y-joint
- 1 reduction Y-joint from 1/2" to 1/4"
- 1 reduction joint from 1/2" to 1/4"
- 2 threaded R-joints 3/8"
- 3 threaded R-joints 1/2"
- 1 adapter for LOC-LINE and ARIANA systems
- 1 pair of mounting pliers Art. 1616 GB
- 1 separator Art. 1616 GA.

**1620GB** Each **190,00**

**maxi lex**

**1/2"**

**1620GB**  
*new*



**6**

Assorted set of components on perforated sheet wall displayer.

Dimensions: 440 x 730mm with hooks.

SELLING DISPLAYERS

Each set contains:

- 6 x assorted hose pipes Art. 1601 G
- 3 x nozzles p. units Art. 1604 GA
- 3 x nozzles p. units Art. 1604 GB
- 3 x nozzles p. units Art. 1604 GC
- 3 x nozzles p. units Art. 1604 GF
- 2 x connections p. units Art. 1605 GA
- 3 x connections p. units Art. 1605 GB
- 2 x junctions Art. 1605 GC
- 2 x separators Art. 1607 GA
- 2 x pliers Art. 1607 GB.

Complete displayer.

**1621G** Each **404,72**

**maxi lex**

**1/4"**

**1621G**



Flow regulators for liquids or air inlet-outlet. In synthetic material, high resistance and tightness.

FLOW REGULATORS

3 regulators with 1/4"- 6mm fitting.

**1624G** Per pack **23,10**

Product description as Art. 1624G

FLOW REGULATORS

3 regulators with 1/2"-12mm fitting.

**1625G** Per pack **29,50**

**maxi lex**

**1624G**  
**1625G**

**1/4"**

**1/4"**

**1/2"**

**1/2"**



1626G  
1627G

maxi flex

1/4"

1/2"



1/4"

1/2"

Flush valve for liquids or air inlet-outlet. In pressed brass, nickel-plated and high resistance and tightness synthetic material.

Threaded drive NPT 1/4 and 1/4" - 6mm fitting.

1626G Each 8,44

Product description as Art. 1626G

Threaded drive NPT 1/2 and 1/2" - 12mm fitting.

1627G Each 9,58

1628G

maxi flex

1/4"



Magnetic supports with hose connection Ø 10mm, flow regulator valve for liquids or air inlet-outlet. Complete with 1 assortment Art. 1601 G. Vertical or horizontal use.

Magnetic traction force: Kg 8.

MAGNETIC SUPPORTS FOR REGULATORS

Complete with 1/4" - 6mm pipe.

1628G Each 164,00

1630G

maxi flex

1/2"



Magnetic supports with hose connection Ø 13mm, flow regulator valve for liquids or air inlet/outlet. Complete with 1 assortment Art. 1612 G (but R 3/8" adaptor instead of R 1/2").

Vertical or horizontal use.

Magnetic traction force: Kg 15.

MAGNETIC SUPPORTS FOR REGULATORS

Complete with 1/2" - 12mm pipe.

1630G Each 253,00

1632G

maxi flex

1/4"



Magnetic supports with hose connection attacco Ø 10mm. Complete with 2 assortment Art. 1601 G for liquids or air double flow.

Magnetic traction force: Kg. 8.

MAGNETIC SUPPORTS FOR REGULATORS

Complete with 1/4" - 6mm pipes.

1632G Each 151,00

1634G  
1635G

maxi flex

1/4"



1/2"

Magnetic supports with hose connection Ø 13mm. 3 x flow regulator valves for liquids or air triple inlet-outlet, 1/4" drive.

Magnetic traction force: Kg 24.

MAGNETIC SUPPORTS FOR REGULATORS

1/4" - 6mm system support.

1634G Each 363,00

Magnetic supports with hose connection Ø 13mm. 3 x flow regulator valves for liquids or air triple inlet-outlet, 1/4" drive.

Magnetic traction force: Kg 24.

MAGNETIC SUPPORTS FOR REGULATORS

1/2" - 12mm system support.

1635G Each 363,00

**All items are in sequence. It's very easy to find them!**

<p>Hand and breast drills</p>		<p>From <b>1640G</b> To <b>1660G</b></p>
<p>Electric screwdrivers Electric and electronic drills Drills stands Electric angle grinders Electric angle grinders supports Hand grinders Stand electric grinders and accessories Other electric tools and accessories</p>		<p>From <b>1662G</b> To <b>1712V</b></p>
<p>Air tools</p>		<p>From <b>17122G</b> To <b>1729G 3F</b></p>
<p>Air tools accessories Automatic hose reels for air and water</p>		<p>From <b>1730G</b> To <b>1744</b></p>
<p>Brushes Magnetic tools</p>		<p>From <b>1798A</b> To <b>1847G</b></p>
<p>Dressing tools Industrial diamonds</p>		<p>From <b>1849GA</b> To <b>1872</b></p>

**HAND DRILLS**
**1640G**  
**1642G**
**SCU**

**Prod. SCU**

Models with practical storage handle.  
 Light-weight type. With 1 gear and 1 pinion.  
 With chuck for bits up to 6mm. Total length 240mm.

<b>1640G</b>	Each	<b>17,10</b>
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Spare chucks for Art. 1640 G.

<b>O1640G</b>	Each	<b>3,88</b>
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Models with practical storage handle.  
 Light-weight type. With 1 gear and 1 pinion.  
 With chuck for bits up to 8mm. Total length 260mm.

<b>1642G</b>	Each	<b>20,50</b>
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Spare chucks for Art. 1642 G.

<b>O1642G</b>	Each	<b>4,72</b>
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**1644G**
**SCU**


Practical storage handle.  
 Reinforced model. With 1 gear and 2 pinions.  
 With chuck for drill bits up to 8mm. Total length 285mm.

<b>1644G</b>	Each	<b>25,90</b>
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Spare chucks for Art. 1644 G.

<b>O1644G</b>	Each	<b>4,72</b>
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**BREAST DRILLS**
**7** **1660G**
**SCU**

**Prod. SCU**

With closed gears.  
 Silent and fluid movement. Double speed.

For tips up to	mm	<b>13</b>
Overall length	mm	330
Weight	Kg	1,15

<b>1660G</b>	Each	<b>45,70</b>
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Spare chucks for Art. 1660 G.

<b>O1660G</b>	Each	<b>7,50</b>
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**BATTERY SCREWDRIVERS**
**1662G**
**SCU**

**Prod. SCU - SKIL**

Reversible model, with "soft grip" pistol handle for use with right handed operations.  
 Block includes a tip which can be tightened by hand and a spotlight.  
 Fully integrated with (Li-Ion) LITHIUM battery. 230/240 V battery charger. Case complete with accessories: magnetic connection, 26 bit imprints, 5 hexagonal 6-8-10-11-13 sized sockets with adapters, 2 2 and 3 mm points.

Drive for inserts	inches	1/4
For screws up to	M	5
No-load speed	rev/min	200
Reload time after running out	ore	3-5
Battery voltage:	Volt	3,6 - 1,3 Ah Li-Ion
Max torque	Nm	7
Weight	Kg	0,3

<b>1662G</b>	Each	<b>115,00</b>
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**3,6V**
**1/4"**
**CE**


**BATTERY IMPACT WRENCHES**

**Prod. Pneutec - Art. UT 8512 B / C**

Pistol grip type, for professional use, high power and very sturdy. Ergonomic handle made of soft material for greater comfort. Reversible. Equipped with detachable LITHIUM battery, rechargeable. 230 V battery charger. In plastic case. Autonomy: 2 hours continuous operation.

Drive for bushes	inches	1/2
Length	mm	254
For bolts up to	M.	22
No-load speed	rev/min	0-2000 / 0-1800
Battery voltage:	Volt	18,0 - 3,0 Ah
Max torque	Nm	435 / 620
Noise level	dB	83,6
Vibrations	m/s <sup>2</sup>	6,6 / 2,5
Weight	Kg	2,7 / 3,4

<b>1665G</b>	<b>Each</b>	<b>901,00</b>
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Spare batteries and battery charger available on request.  
When the mod. UT 8512 B will run out of stock, mod. UT 8512 C will be supplied.



18V 1/2" CE

**1665G**

**PERCUSSION BATTERY DRILLS**

**Prod. SCU - SKIL**

Continuous electronic speed adjustment type, reversible. 19-speed clutch plus top speed (for drilling or power screwing). Equipped with detachable Ni-Cd battery, rechargeable. 230 V battery charger.

Quick chuck connec.3/8x24	mm	10
Bores Steel/wall/wood	mm	6/13/20
For screws up to	M.	6
No-load speed	rev/min	0-600
Battery voltage:	Volt	12 - 1,2 Ah
Weight	Kg	1,5

<b>1669G</b>	<b>Each</b>	<b>115,00</b>
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Spare wheels for Art. 1669 G.

<b>O1669G 1</b>	<b>Each</b>	<b>36,90</b>
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Spare wheels for Art. 1669 GR.

<b>O1669G 2</b>	<b>Each</b>	<b>62,20</b>
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SCU



12V CE

**1669G**

Professional with continuous electronic adjustment of speed, reversible. Friction torque selectable in 19 positions, plus one position for direct connection (for drilling or power screwing). Comes with 2 Ni-Cd detachable, rechargeable batteries. V 230 charger. Magnetic bit-holder and self-screwing device.

Quick chuck connec.3/8x24	mm	10
Bores Steel/wall/wood	mm	8/16/22
For screws up to	M.	8
No-load speed	rev/min	0-600
Battery voltage:	Volt	14,4 - 1,2 Ah
Weight	Kg	1,6

<b>1669GA</b>	<b>Each</b>	<b>183,00</b>
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Spare charger for Art. 1669 GA

<b>O1669GA 1</b>	<b>Each</b>	<b>42,40</b>
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Spare charger for Art. 1669 GA

<b>O1669GA 2</b>	<b>Each</b>	<b>131,00</b>
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SCU



14,4V CE

**1669GA**  
*new*

Super-professional, 2-speed type with mechanical speed adjustment. 19-speed clutch plus top speed (for drilling or power screwing). Equipped with 1 fixed, rechargeable LITHIUM (Li-ion) battery. 230 V battery charger.

Quick chuck connec.3/8x24	mm	10
Bores Steel/wall/wood	mm	10/20/35
For screws up to	M.	8
No-load speed	rev/min	0-400/0-1600
Battery voltage:	Volt	18 - 1,3 Ah
Weight	Kg	1,3

<b>1669GB</b>	<b>Each</b>	<b>277,00</b>
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Spare battery charger for Art. 1669 GB.

<b>O1669GB 1</b>	<b>Each</b>	<b>84,80</b>
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Spare V 12 battery for Art. 1669 GB.

<b>O1669GB 2</b>	<b>Each</b>	<b>189,00</b>
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SCU



18V CE

**1669GB**

## PERCUSSION BATTERY DRILLS

1669GF **SCU**

18V



## Prod. SCU - SKIL

Professional model, high-power, two speed with continuous electronic and reversible adjustments. Friction torque can be set into 19 positions, plus an extra 2 positions (for drilling, power screwdrivers, and for impact tools). Auto-lock function for tightening and loosening the chuck with one single hand, and for manually stopping the tightening operation. Equipped with (Li-ion) LITHIUM battery, removable, rechargeable. 230 V battery charger.

Quick chuck connec. 3/8x24	mm	10
Bores Steel/wall/wood	mm	10/15/35
For screws up to	M.	8
No-load speed	rev/min	0-400/0-1600
Battery voltage:	Volt	18 - 1,3 Ah Li-Lon
Max torque	Nm	40
Weight	Kg	1,4

<b>1669GF</b>	Each	<b>287,00</b>
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Spare battery charger for Art. 1669 GF.

<b>O1669GF 1</b>	Each	<b>84,80</b>
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Spare 18 V Battery for Art. 1669 GF.

<b>O1669GF 2</b>	Each	<b>189,00</b>
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## ELECTRIC SCREWDRIVERS

1670G **SCU**

1/4"



## Prod. SCU - SKIL

Professional model, ideal for fastenings on the left and right of plasterboard. Double insulation and shield protection for radio/TV which complies with European standards. Single phase 220-240 Volt, with electronic variable speed. 1/4 inch magnetic hexagonal fittings.

Hesagonal drive for inserts	inches	1/4
Power	W	520
For screws up to	M.	6
No-load speed	rev/min	0-4500
Max torque	Nm	10
Weight	Kg	1,3

<b>1670G</b>	Each	<b>198,00</b>
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Product running out of stock.

## ELECTRONIC SCREWDRIVERS DRILLS

1670GP **SCU**

new



## Prod. SCU - SKIL

Universal, light and easy to handle, with 2 speeds ENERGY SAVING.

Double safety insulation and radio/TV interference shielding according to European regulations. Single phase 220-240 Volt motor, with switch to adjust speed. Reversible rotation. Settings of torque in 20 positions, plus 1 direct connection position.

Quick Rack drive 3/8x24	mm	10
Steel/wood force	mm	8/20
For screws up to	M.	6
Power		0,9 to (~ 14,4 V)
No-load speed	rev/min	0-400/1600
Max torque	Nm	38
Weight	Kg	1,2

<b>1670GP</b>	Each	<b>137,00</b>
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**ELECTRONIC DRILLS**

**Prod. SCU - SKIL**

Universal, modern and ergonomic. Double safety insulation and radio/TV interference shielding according to European regulations. 220-240 volt single-phase motor with continuous electronic variation and automatic electronic stabilization of speed.

Reversible rotation and disengageable percussion.

Equipped with additional handle and depth rod.

Quick Rack drive 1/2x20	mm	13
Bores Steel/wall/wood	mm	13/16/35
Concrete force	mm	13
Absorbed power	W	550
No-load speed	rev/min	0-3000
No. of strikes per minute		0-48000
Weight	Kg	1,8

<b>1671E</b>	<b>Each</b>	<b>86,10</b>
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Spare chucks available on request.



**1671E**  
*new*

Professional type, modern and ergonomic line. Double safety insulation and radio/TV interference shielding according to European regulations. 220-240 Volt monophas motor, continuous electronic variation and automatic electronic stabilisation of speed.

Reversible rotation and disengageable percussion.

Equipped with additional handle and depth bar.

Quick Rack drive 1/2x20	mm	13
Bores Steel/wall/wood	mm	13/16/35
Concrete force	mm	13
Absorbed power	W	850
No-load speed	rev/min	0-3000
No. of strikes per minute		0-48000
Weight	Kg	1,9

<b>1671G</b>	<b>Each</b>	<b>162,00</b>
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Spare chucks available on request.



**1671G**

Professional type.

Double safety insulation and radio/TV interference shielding according to European regulations. 220-240 Volt monophas motor, continuous electronic variation and automatic electronic stabilisation of speed. Reversible rotation and disengageable percussion. Equipped with additional handle and depth bar.

Quick chuck connec.1/2x20	mm	13
Bores Steel/wall/wood	mm	13/16/35
Concrete force	mm	13
Absorbed power	W	850
No-load speed	rev/min	0-3000
No. of strikes per minute		0-48000
Weight	Kg	1,9

<b>1673G</b>	<b>Each</b>	<b>173,00</b>
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Spare chucks available on request.



**1673G**

High-power professional type, double-speed reversible rotation and percussion.

Double safety insulation and radio/TV interference shielding according to European regulations. 220-240 Volt monophas motor, continuous electronic variation and automatic electronic stabilisation of speed. Reversible rotation and disengageable percussion. Equipped with additional handle and depth bar.

Rack chuck connec.1/2x20	mm	16
Bores Steel/wall/wood	mm	13/22/45
Bores Concrete	mm	16
Absorbed power	W	1100
No-load speed	rev/min	0-1000/0-3000
No. of strikes per minute		0-16000/0-48000
Weight	Kg	3,3

<b>1676G</b>	<b>Each</b>	<b>230,00</b>
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Spare chucks available on request.



**1676G**

**1680G**

With SDS-plus drill bit shank.

Disconnectable percussion mechanism for drilling steel, wall and wood.

Special percussion system for heavy-duty works in the building industry. Reversible rotation for screwing/unscrewing screws, auto-threading screws, bolts and for threading. Double safety insulation and radio/TV interference shielding according to European regulations. 220-240 Volt monophase motor, continuous electronic variation and electronic stabilisation of speed through push button switch. Equipped with additional handle, depth bar and ruck chuck mm 1,5-13.

Bores Steel/wall/wood	mm	13/26/40
Bores concrete force	mm	24
Absorbed power	W	920
No-load speed	rev/min	0-1100
No. of strikes per minute		0-5830
Weight	Kg	2,9

<b>1680G</b>	<b>Each</b>	<b>269,00</b>
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**DRILL STANDS****1681GA****SCU****Prod. SCU**

Universal type for drills Art. 1671 G - 1673 G - 1676 G and similar models with European shank, collar Ø 43mm. With return spring and vertical adjuster. Sturdy steel toothed column and rectangular base 270 x 185 mm.

Type		Standard
Overall height	mm	500
Span	mm	127
Working stroke	mm	60
Column Ø	mm	30
Weight	Kg	5

<b>1681GA</b>	<b>Each</b>	<b>139,00</b>
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**1681GB****SCU**

Product description as Art. 1681GA

Type		Professional
Overall height	mm	500
Span	mm	127
Working stroke	mm	60
Column Ø	mm	35
Weight	Kg	6,6

<b>1681GB</b>	<b>Each</b>	<b>150,00</b>
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**1681GE****SCU**

Super-professional type, sturdy and stable build.

Vertical and horizontal adjustment. 360° adjustable column.

Stroke rollers with adjustable guides. End of stroke rod, stop collar, adjustable and graded.

For drills Art. 1671 G - 1673 G - 1676 G and other models with European type collar Ø 43mm.

Sturdy return spring, steel toothed column and stable rectangular base 300x180mm.

Overall height	mm	500
Span	mm	175
Working stroke	mm	55 with spring / 250 without spring
Column Ø	mm	35
Weight	Kg	17,5

<b>1681GE</b>	<b>Each</b>	<b>334,00</b>
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**1681GP****SCU**

Plate-shaped device Ø 180mm, adjustable to 360°, suitable for stand Art. 1681 GB e 1681 GE.

<b>1681GP</b>	<b>Each</b>	<b>62,20</b>
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**ELECTRIC ANGLE GRINDERS**

**Prod. SCU - SKIL**

Super fast grinders, which are easy to handle, lightweight, and ergonomic for grinding, trimming, cutting and finishing without causing fatigue.

Single phase 230-240 V. With double insulation and shield protection for radio/TV, which complies with European standards. Spindle lock. Safety switch.

For wheels Ø	mm	115
Absorbed power	W	550
No-load speed	rev/min	11000
Grinding shaft thread	M.	14
Disc bore Ø	mm	22
Weight	Kg	1,6

**1684GT** Each **80,70**

For grinding wheels see Sonnenflex program.

**SCU**

**1684GT**



Very fast and powerful grinders, particularly sturdy for grinding, deburring, roughing, cutting and finishing.

230 V mono-phase motor. Double insulation and radio/TV interference shielding, according to European standards. With safety switch to avoid damaging the machine in case of over-loading.

Spindle lock.

For wheels Ø	mm	125
Absorbed power	W	750
No-load speed	rev/min	11000
Grinding shaft thread	M.	14
Disc bore Ø	mm	22
Weight	Kg	1,9

**1685GE** Each **86,10**

For grinding wheels see Sonnenflex programme.

**SCU**

**1685GE**



Product description as Art. 1685GE

For wheels Ø	mm	125
Absorbed power	W	1100
No-load speed	rev/min	11000
Grinding shaft thread	M.	14
Disc bore Ø	mm	22
Weight	Kg	2,7

**1686G** Each **248,00**

For grinding wheels see Sonnenflex program.

**SCU**

**1686G**



Very fast and powerful angular grinders for deburring welded parts and fusion residues. For heavy duty.

Suitable for any kind of roughing operation and for cutting by using abrasive grinding wheels.

230 V monophase motor. Double insulation and radio/TV interference shielding according to European regulations. With safety switch for avoiding damaging the machine if overloaded. Spindle lock. With soft handle, able to reduce the effort due to the vibrations.

For wheels Ø	mm	230
Absorbed power	W	2000
No-load speed	rev/min	6500
Grinding shaft thread	M.	14
Disc bore Ø	mm	22
Weight	Kg	5,9

**1689G** Each **187,00**

For grinding wheels see Sonnenflex program.

**SCU**

**1689G**



**ANGLE GRINDER SUPPORTS**

**Prod. SCU**

Standard type, for grinders Art. 1686 G and the like with grinding wheel Ø 115/125mm.

Made from alloy with stable base 240x240mm and locking clamp.

For straight and 45° and 90° angled cuts. Weight 2.5 Kg

Supplied dismantled.

**1689L** Each **58,50**

**SCU**

**1689L**



1689P **SCU**

Standard type for grinders Art. 1689 G and similar models with grinding wheel Ø 180/230mm. In sturdy alloy with steady base of large dimensions 300x300mm and blocking clamp. For 45°/90° straight and angular cut. Weight 4.5kg. Supplied dismounted.

**1689P** Each **69,70**

## ELECTRIC POLISHING MACHINES

1690G **SCU**

## Prod. SCU - SKIL

Professional model for cleaning and dry polishing metals, woods, plastics, etc. Double safety insulation and shield protection for radio/TV, which complies with European standards. Single phase 230 V. Supplied with 2 pads with a diameter ranging from 125 to 180 mm, and 2 horn-shaped headphones.

Absorbed power	W	1300
No-load speed	rev/min	600-3000
Pad drive thread	M	14
Weight	Kg	2,9

**1690G** Each **320,00**

Spare backing plates Ø 125 - 180mm and spare lambswool pads supplied on request.

## SANDING GLAZING MACHINE

7 1691GE **SCU**

## Prod. SCU

Professional type to be used with suitable brushes Art. 7960 A to 7960 V and disks 1833 T - V to obtain satin finished surfaces on stainless steel, metals, wood, plastics. Can also be used for deburring, smoothing, brushing and polishing. 230 V single phase motor with double insulation and radio/TV interference shielding, in compliance with European standards. Rev speed selector and progressive switch. With guard device. Brush holder shaft length 100 mm.

For brushes up to Ø	mm	120
Absorbed power	W	1300
No-load speed	rev/min	1300-3050
Brush holder drive	mm	19,1
Weight	Kg	2,8

**1691GE** Each **716,00**

Set of 10 spacer rings, made of reinforced plastic, to mount brushes of a length of 50 mm on polishers Art. 1691 GE: Thickness of each ring 5 mm, hole Ø 19.1 mm.

**O1691GE** Per set **37,50**

## SANDING GLAZING MACHINE

1691GL **SCU**

## Prod. SCU

Professional model with grinding wheel holder. Sturdy mechanical structure and speed electronic stabilizer ensure high performances in both grinding and cleaning operations. 230 V monophasic motor with double insulation and radio/TV interference shielding according to European regulations. Provided with a device for the selection of the number of revolutions and a progressive switch. With protection cup.

Suitable for grinding wheels, brushes, sanding disks etc. up to Ø 150mm. Male threaded connection M 14 and shaft Ø 16mm.

Absorbed power	W	1600
No-load speed	rev/min	1600-4800
Weight	Kg	3,4

**1691GL** Each **538,00**

1691GP **SCU**

Professional model, light and handy structure. Provided with tool connecting pin, long-version, to reach even difficult to access positions. 230 V monophasic motor with double insulation and radio/TV interference shielding according to European regulations. Provided with a device for the selection of the number of revolutions and a progressive switch.

Type		1	2
Absorbed power	W	1200	1200
No-load speed	rev/min	2500-6500	10000-28000
For wheels, brushes, abrasive discs	mm	100	50
Tools drive	mm	6	6
Weight	Kg	2,2	2,2

**1691GP** Each **361,00** **314,00**

**ELECTRIC GRINDERS**

**Prod. SCU - SKIL**

Bench model for universal usage. With double insulation and shield protection for radio/TV, which complies with European standards. 2 wheels equipped with safety guards and adjustable supports.

Complete with 1 grinder grain 36 and 1 grinder grain 60, hole 16mm.

Type	with 2 grinding wheels	
With mills	mm	200x20
Absorbed power	W	370
No-load speed	rev/min	2950
Weight	Kg	10,7
<b>1692</b>	<b>Each</b>	<b>198,00</b>



1692



**Prod. SCU**

Workbench type for professional use. Motor closed and protected from infiltrations. Shafts on ball bearings and 2 grinding wheels equipped with safety protections and supports.

V 230/50 Hz monophas motor.

Complete with grinding wheels, hole 20mm.

Type	with 2 grinding wheels	
With mills	mm	125x16
Power	HP	0,35
Absorbed power	W	250
No-load speed	rev/min	2800
Weight	Kg	7
<b>1692A</b>	<b>Each</b>	<b>312,00</b>



1692A



Product description as Art. 1692A

Complete with grinding wheels, hole 20mm.

Type	with 2 grinding wheels	
With mills	mm	150x20
Power	HP	0,50
Absorbed power	W	375
No-load speed	rev/min	2800
Weight	Kg	9
<b>1692E</b>	<b>Each</b>	<b>329,00</b>



1692E



Product description as Art. 1692A

Complete with grinding wheels, hole 16mm.

Type	with 2 grinding wheels	
With mill	mm	200x25
Power	HP	0,90
Absorbed power	W	675
No-load speed	rev/min	2800
Weight	Kg	18
<b>1692L</b>	<b>Each</b>	<b>491,00</b>



1692L



Workbench type for professional use. Motor closed and protected from infiltrations. Shafts on ball bearings, 1 grinding wheel and 1 brush holder shaft equipped with safety protections.

V 230/50 Hz monophas motor.

Complete with grinding wheel, hole 20mm., without brush.

Type	with 1 comb. grinding wheels	
With mill	mm	150x20
Power	HP	0,50
Absorbed power	W	375
No-load speed	rev/min	2800
Brushes shaft Ø	mm	12
Weight	Kg	7
<b>1693E</b>	<b>Each</b>	<b>404,00</b>



1693E



For brushes see Art. O1693 S 100x12.

**1693F**
**SCU**
**IP52**


Product description as Art. 1693E

Complete with grinding wheel, hole 16mm., without brush.

Type	with 1 comb. grinding wheels	
With mill	mm	200x25
Power	HP	0,90
Absorbed power	W	675
No-load speed	rev/min	2800
Brushes shaft Ø	mm	16
Weight	Kg	16

<b>1693F</b>	<b>Each</b>	<b>577,00</b>
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For brushes see Art. O1693 S 150x20.

Spare corundum grinding wheels for Art. 1692 A - 1692 E - 1692 L - 1693 E - 1693 F.

Coarse grit.

Ø for thickness	mm	<b>125x16</b>	<b>150x20</b>	<b>200x25</b>
Hole Ø	mm	20	20	16

<b>O1693M</b>	<b>Each</b>	<b>24,70</b>	<b>37,50</b>	<b>58,80</b>
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Product description as Art. O1693M

Medium grit.

Ø for thickness	mm	<b>125x16</b>	<b>150x20</b>	<b>200x25</b>
Hole Ø	mm	20	20	16

<b>O1693P</b>	<b>Each</b>	<b>24,70</b>	<b>37,50</b>	<b>58,80</b>
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Spare steel brushes for Art. 1693 E - 1693 F.

Ø for thickness	mm	<b>100x12</b>	<b>150x16</b>
Hole Ø	mm	12	16

<b>O1693S</b>	<b>Each</b>	<b>24,70</b>	<b>37,50</b>
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**1694A**
**SCU**
**IP52**


Workbench type, for industrial use.

Motor manufactured according to safety regulations and equipped with international homologated switch. 2 shafts installed on radial ball bearings, airtight closure. Grinding wheel cover with dust discharge opposite to the operator and supports.

V 400/50 Hz tri-phase motor.

Without grinding wheels.

Type	with 2 grinding wheels	
for wheels	mm	150x20
Power	HP	0,5
Absorbed power	W	375
No-load speed	rev/min	2800
Wheels shaft Ø	mm	16
Weight	Kg	10

<b>1694A</b>	<b>Each</b>	<b>490,00</b>
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For grinding wheels see Art. O1698 M - O1698 P

**1696A**
**SCU**
**IP52**


Product description as Art. 1694A

Without grinding wheels.

Type	with 2 grinding wheels	
for wheels	mm	200x25
Power	HP	1
Absorbed power	W	750
No-load speed	rev/min	2800
Wheels shaft Ø	mm	20
Weight	Kg	18

<b>1696A</b>	<b>Each</b>	<b>641,00</b>
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For grinding wheels see Art. O1698 M - O1698 P

**1697A**
**SCU**
**IP52**


Workbench type for industrial use. Motor manufactured according to safety regulations and equipped with international homologated switch. 1 grinding wheel holder and 1 brush-holder shaft installed on radial ball bearings, airtight closure. Grinding wheel cover with dust discharge opposite to the operator and supports. V 400/50 Hz tri-phase motor.

Without grinding wheel and brush.

Type	with 1 comb. grinding wheels	
for wheels	mm	150x20
Power	HP	0,5
Absorbed power	W	375
No-load speed	rev/min	2800
Wheels shaft Ø	mm	16
Weight	Kg	9

<b>1697A</b>	<b>Each</b>	<b>595,00</b>
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For grinding wheels and brushes see Art. O1698 M - O1698 P - O1698S

Product description as Art. 1697A  
Without grinding wheel and brush.

Type	with 1 comb. grinding wheels	
for wheels	mm	200x25
Power	HP	1
Absorbed power	W	750
No-load speed	rev/min	2800
Wheels shaft Ø	mm	20
Weight	Kg	17
<b>1698A</b>	<b>Each</b>	<b>792,00</b>

For grinding wheels and brushes see Art. O1698 M - O1698 P - O1698S

Spare corundum grinding wheels for Art. 1694 A - 1696 A - 1697 A - 1698 A.

Coarse grit.

Ø for thickness	mm	150x20	200x25
Hole Ø	mm	16	20
<b>O1698M</b>	<b>Each</b>	<b>37,50</b>	<b>58,80</b>

Product description as Art. O1698M

Medium grit.

Ø for thickness	mm	150x20	200x25
Hole Ø	mm	16	20
<b>O1698P</b>	<b>Each</b>	<b>37,50</b>	<b>58,80</b>

Spare steel brushes for Art. 1697 A - 1698 A.

Ø for thickness	mm	150x16	200x20
Hole Ø	mm	16	20
<b>O1698S</b>	<b>Each</b>	<b>37,50</b>	<b>58,80</b>

Grinders/sanders+vacuum cleaners are available on request.

**SCU**

**IP52**

**1698A**



**STANDS FOR GRINDERS**

**Prod. SCU**

For grinders Art. 1692 L - 1693 F. Dimensions base/height 345x285/720h mm ca. Weight 26Kg.

<b>1699</b>	<b>Each</b>	<b>271,00</b>
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With adaptor Art. O1699 A, the stand may be used also with grinders  
Art. 1692 A - 1692 E - 1693 E

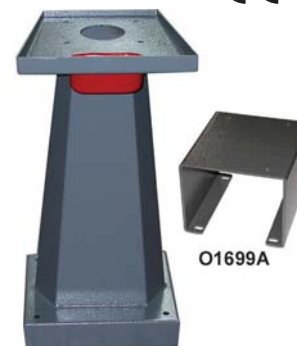
Column adaptor Art. 1699 with grinders Art. 1692 A - 1692 E - 1693 E. Height 130mm.

<b>O1699A</b>	<b>Each</b>	<b>27,90</b>
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**SCU**



**1699**



**7**

For grinders Art. 1692 L - 1693 F. Dimensions base/height 345x285/720h mm ca. Weight 26Kg.

<b>1700</b>	<b>Each</b>	<b>271,00</b>
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For grinders Art. 1692 L - 1693 F. Dimensions base/height 385x335/720h mm ca. Weight 33Kg.

<b>1701</b>	<b>Each</b>	<b>339,00</b>
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**SCU**



**1700**

**1701**



## ELECTRIC PORTABLE PLANES

## 1701GA SCU



## Prod. SCU - SKIL

High-performance professional type. With depth adjusting device. With push switch and safety bracket. Double safety insulation, radio/TV interference shielding according to European regulations.

230 V monophase motor. Supplied with 1 set of double-cut blades in HARD METAL. Plate width 82mm. Adaptor for vacuum cleaner.

Pass depth up to	mm	3
Pass depth up to	mm	15
Absorbed power	W	900
No-load speed	rev/min	16000
Weight	Kg	3,7

**1701GA** Each **356,00**

For spare blades see Art. 1701 GE.

## 1701GE SCU



## Prod. SCU-Orig. M.P.S

## BLADES FOR ELECTRIC PLANES

In HARD METAL for the following models:

AEG EH 82-1/EH 82S/EH 450/EH 700/ EH 700R/ EH 822/H 500/H 750 - B + D BD 711/DN 710/ DN 712/DN 730 - Bosch GHO 31-82/36-82 C/PHO 20-82/ PHO 30- 82/PHO 100/200/300 - Fein HS2151 - Haffner FH 224 - Hitachi FP 20/ F 20A/P 20SA - Holz-Her 2223/2321/2330 - Mafell EHU 82 - Makita 1001/1100/1125B/1900/1901/1923B/1923H - Metabo 0882/3360/4382/8382 - Skil 1512/1525 (Art. SCU 1701 GA).

Dimensions 82x5.5x1.1mm. Packing unit: 2 blades.

**1701GE** Per pack **13,10**

## ELECTRIC ORBITAL SANDERS

## 1702GA SCU



## Prod. SCU - SKIL

For dry smoothing, polishing, grinding any kind of material. V 230 monophase motor. Double insulation and radio/TV interference shielding according to European regulations. High-speed, wide orbital movement for rapid and uniform removal.

3-side wire smoothing. Integrated aspiration.

Operating plate	mm	185x92
Abrasive sheet dimensions	mm	230x93
Idle oscillations/minute		26000
Absorbed power	W	240
Weight	Kg	1,9

**1702GA** Each **115,00**

For abrasive paper and fabric see Art. 7758 G to 7768 G.

Sanding sheets Size 60. Packing unit: 10pcs, not sold separately. For Art. 1702 GA.

**O1702GB 60** Per pack **8,46**

Product running out of stock.

Sanding sheets Size 120. Packing unit: 10pcs, not sold separately. For Art. 1702 GA.

**O1702GB 120** Per pack **7,90**

Product running out of stock.

Sanding sheets Size 180. Packing unit: 10 pcs, not sold separately. For Art. 1702 GA.

**O1702GB 180** Per pack **7,90**

Product running out of stock.

## ELECTRIC ROTO-ORBITAL SANDERS

## 1702GE SCU



## Prod. SCU - SKIL

Model with combined orbital/rotatory action for dry polishing and smoothing of curved and flat surfaces. V 230 monophase motor. Double insulation and radio/TV interference shielding according to European regulations.

Pad brake for avoiding damaging the material being used.

Blocking switch for non-stop use. Intergated aspiration.

With 3 sanding and velcroed disks and 8 holes.

Abrasive sheet Ø	mm	125
Number of idle revolutions/inute		11000
Absorbed power	W	380
Weight	Kg	2,3

**1702GE** Each **139,00**

Lambskin cap, for Art. 1702 GE.

**O1702GH 1** Each **15,10**

Sponge buffers, for Art. 1702 GE.

**O1702GH 2** Each **16,10**

For Velcro-backed abrasive disks see Art. 7801 G.



**ELECTRIC BELT SANDERS**

**Prod. SCU - SKIL**

Model with belt self-centring system. For dry smoothing, grinding large surfaces of any kind of material. V 230 monophas motor.

Double insulation and radio/TV interference shielding according to European regulations.

Protected dragging mechanism, support frame with depth adjustment system. Blocking switch for non-stop use. Integrated aspiration.

Grinding surface	mm	130x76
Belt dimensions	mm	457x75
Belt no-load speed	m/min	300
Absorbed power	W	650
Weight	Kg	2,9

<b>1702GL</b>	<b>Each</b>	<b>185,00</b>
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Sanding belts Size 60. Packing unit: 3pcs, not sold separately. For Art. 1702 GL.

<b>O1702GM 60</b>	<b>Per pack</b>	<b>9,18</b>
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Sanding belts Size 80. Packing unit: 3pcs, not sold separately. For Art. 1702 GL.

<b>O1702GM 80</b>	<b>Per pack</b>	<b>8,76</b>
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Sanding belts Size 150. Packing unit: 3pcs, not sold separately. For Art. 1702 GL.

<b>O1702GM 150</b>	<b>Per pack</b>	<b>8,76</b>
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**SCU**

**1702GL**



**ELECTRIC JIG SAWS**

**Prod. SCU - SKIL**

Very high quality/price ratio. For straight or curved cuts. Switch with lock function for continuous operation. With suction outlet. Support base can be tilted up to 45° to the left and right. Blade guide roller for precise cutting and longer blade life. Automatic blower. For sawing, cutting out, drilling: wood, masonite, synthetic resins, formica, pressed cardboard, aluminium, steels, etc. 230 V single phase motor with double insulation and radio/TV interference shielding, in compliance with European standards. With 1 blade.

Wood/aluminium/steel cutting	mm	65/10/4
Absorbed power	W	400
No. of strokes per minute		800 - 3000
Weight	Kg	1,4

<b>1703G</b>	<b>Each</b>	<b>115,00</b>
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For spare blades see Art. 1707 GR to 1708 GV 12

**SCU**

**1703G**



**7**

Professional type, extremely high power, with "soft grip" handle and continuous electronic adjustment of speed and blade orbital position. For straight or curved cuts. Switch with lock function for continuous operation. With suction outlet. Support base can be tilted up to 45° to the left and right. Blade guide roller for precise cutting and longer blade life. Automatic blower. Lamp to illuminate the cut.

For sawing, cutting out, drilling: wood, masonite, synthetic resins, formica, pressed cardboard, aluminium, steels, etc.. 230 V single phase motor with double insulation and radio/TV interference shielding, in compliance with European standards.

Wood/aluminium/steel cutting	mm	100/20/8
Absorbed power	W	710
No. of strokes per minute		0-3000
Weight	Kg	2,3

<b>1704G</b>	<b>Each</b>	<b>140,00</b>
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For spare blades see Art. 1707 GR to 1708 GV 12

**SCU**

**1704G**



**BLADES FOR ELECTRIC SAWS**

from  
**1705G**  
to  
**1705GL**



**Prod. SCU-Orig. MP.S**  
In BIMETAL steel.  
Suitable for Black & Decker.  
Packing unit: 5 pcs, not sold separately.

Art. ....	<b>1705G</b>
Application:	For hard, soft and wood, wood with nails, iron, kitchen panels etc.
Toothing execution	milled and straight-set
Teeth pitch	mm variable 1,8 to 2,5
Useful length	mm 110
Corresponding to model	Universal
<b>Per pack</b>	<b>12,90</b>

In CHROME-VANADIUM steel.  
Suitable for Black & Decker. Packing unit: 5 pcs, not sold separately.

Art. ....	<b>1705GA</b>	<b>1705GA 1</b>	<b>1705GA 3</b>	<b>1705GB</b>	<b>1705GC</b>	<b>1705GC 1</b>	<b>1705GC 3</b>
Application:	For hard, soft and laminated wood and reinforced plastics	For hard and soft woods, plywoods and plastics	For hard and soft woods, plywoods and plastics	For hard and softwoods and chipboards	For hard, soft and laminated woods and reinforced plastics	For hard, soft and laminated woods and reinforced plastics to 50mm	For hard and softwoods and plastics
Toothing execution	straight-set and sharpened conic	straight-set and sharpened conic	straight-set and sharpened conic	straight-set and sharpened	straight-set and sharpened conic	sharpened conic	milled and straight-set
Teeth pitch	mm 2,5	2,5	4	4	3	4	3
Useful length	mm 60	75	75	60	60	60	75
Corresponding to model	B + D A5041	B + D A5035-2201	B + D A5037-2202	B + D A5038	B + D A5042	B + D A5036	B + D A5043-2206
<b>Per pack</b>	<b>10,60</b>	<b>6,10</b>	<b>6,10</b>	<b>4,58</b>	<b>5,70</b>	<b>5,70</b>	<b>4,22</b>

Product 1705GA running out of stock.

In HSS steel.  
Suitable for Black & Decker.  
Packing unit: 5 pcs, not sold separately.

Art. ....	<b>1705GC 9</b>	<b>1705GF</b>	<b>1705GF 1</b>
Application:	For tinplates with thickness from mm 0,9 to 1,2, iron, soft metals and aluminium	For tinplates with thickness from mm 1,5 to 3, iron, soft metals and aluminium	For tinplates with thickness from mm 3 to 6, iron, soft metals and aluminium
Toothing execution	milled and straight-set	milled and straight-set	milled and straight-set
Teeth pitch	mm 0,9	1,2	2
Useful length	mm 50	50	50
Corresponding to model	B + D A5040-A2227	B + D A5039-A2224	B + D A5034-A2226
<b>Per pack</b>	<b>6,38</b>	<b>6,38</b>	<b>6,38</b>

In CHROME-VANADIUM steel.  
Suitable for Black & Decker. Packing unit: 5 pcs, not sold separately.

Art. ....	<b>1705GL</b>
Application:	To silhouet hard and soft woods, chipwoods, plastics and plexiglas
Toothing execution	milled and straight-set
Teeth pitch	mm 2
Useful length	mm 50
Corresponding to model	B + D A5033-A2203
<b>Per pack</b>	<b>4,44</b>

from  
**1705GM**  
to  
**1705GT**



In CHROME-VANADIUM steel.  
Suitable for MAKITA model. Packing unit: 5 pcs, not sold separately.

Art. ....	<b>1705GM</b>	<b>1705GM 1</b>	<b>1705GP</b>	<b>1705GR</b>
Application:	To silhouet hard and soft woods, plastics and plexiglas	For hard, soft and laminated woods and reinforced plastics	For hard and soft woods and chipboards	For hard and soft woods and plastics
Toothing execution	milled and straight-set	straight-set and sharpened conic	straight-set and sharpened	straight-set
Teeth pitch	mm 2	2,5	4	3
Useful length	mm 55	75	75	75
Corresponding to model	MAKITA 16	MAKITA 42	MAKITA 5	MAKITA 3
<b>Per pack</b>	<b>5,16</b>	<b>6,36</b>	<b>5,34</b>	<b>4,52</b>

In HSS steel.  
Suitable for MAKITA model. Packing unit: 5 pcs, not sold separately.

Art. ....	<b>1705GR 9</b>	<b>1705GS</b>	<b>1705GT</b>
Application:	For tinplates with thickness from mm 0,9 to 1,2, iron, soft metals and aluminium	For tinplates with thickness from mm 1,5 to 3, iron, soft metals and aluminium	For tinplates with thickness from mm 3 to 6, iron, soft metals and aluminium
Toothing execution	milled and straight-set	milled and straight-set	milled and straight-set
Teeth pitch	mm 0,9	1,2	2
Useful length	mm 60	60	60
Corresponding to model	MAKITA 7	MAKITA 1	MAKITA 2
<b>Per pack</b>	<b>6,42</b>	<b>6,42</b>	<b>6,42</b>

Prices in EURO - VAT not included

Suitable for models AEG - BOSCH - ELU - HOLZ HER - METABO - LENOX - MILWAUKEE - SKIL

1703 G / 1704 G

Packing unit: 5 pcs, not sold separately (Art. 1708GV and 1708GV 9-11-12 in single packing unit).


 from  
**1707GR**  
 to  
**1708GV 12**


Art.	1707GR	1707GT	1708G 1	1708G 3
Application:	For hard and soft woods, woods with nails, iron, inox, kitchen panels etc..	For hard, soft and laminated woods and reinforced plastics	For hard and soft woods and plywoods	To silhouet hard and soft woods, panforti, plastics and plexiglas to 20mm
Toothing execution	milled and straight-set	straight-set and sharpened conic	straight-set and sharpened conic	straight-set extra-thin
Teeth pitch	mm variable 1,8 to 2,5	2,5	4	2
Useful length	mm 110	75	75	50
Corresponding to model	Universal	Bosch T101BF	AEG 274351-Bosch T 101D-Holz-Her 17.3975-Metabo 23635	AEG 274650-Bosch T 119BO-Elu 142301204-Holz-Her 612383-Metabo 23646
Steel	bimetallic	bimetallic	chrome-vanadium	chrome-vanadium
Per pack	12,90	11,90	6,10	4,44

Art.	1708G 7	1708G 9	1708GA	1708GA 4
Application:	For straight cut of soft and hard woods, panforti and plastics until mm 60	For soft and hard woods, panforti e plastics until mm 75	For hard and soft woods and plastics	For very fast cuts of hard and soft woods, plywoods, laminated and plastic to 60mm. Winner of many comparing tests.
Toothing execution	sharpened conic	sharpened conic	straight-set and sharpened	straight-set and sharpened conic
Teeth pitch	mm 4	4	3	3
Useful length	mm 75	95	75	75
Corresponding to model	AEG-Bosch T 101 DP-Metabo 23655	AEG-Bosch T 301 D-Metabo 23654	AEG 254071-Bosch T 111 C-Elu 142301200-Holz-Her 17.4025-Metabo 23632	Universal
Steel	chrome-vanadium	chrome-vanadium	chrome-vanadium	chrome-vanadium
Per pack	6,92	6,86	4,22	6,62

Art.	1708GA 8	1708GB	1708GB 3	1708GC
Application:	For net cuts without burring of hard and soft woods, plywoods and panforti to 60mm	For soft and hard woods, plywoods, panforti e plastics until mm 30	For soft and hard woods, plywoods, panforti e plastics until mm 30, special type with teeth on the back side for an easy curved cuts	For soft and hard woods, stratified until mm 60
Toothing execution	straight-set and sharpened conic	straight-set and sharpened conic	straight-set and sharpened conic	straight-set and sharpened conic
Teeth pitch	mm 2	2,5	2,5	4
Useful length	mm 75	75	75	75
Corresponding to model	Universal	AEG 254061-Bosch T 101 B-Elu 142301201-Holz-Her 17.3967-Metabo 23634	Universal	AEG 213116-Bosch T 144 D-Elu 142301209-Holz-Her 17.4017-Metabo 23633
Steel	chrome-vanadium	chrome-vanadium	chrome-vanadium	chrome-vanadium
Per pack	6,62	6,12	7,64	4,88

Art.	1708GD	1708GE	1708GF	1708GH
Application:	For soft and hard woods and plastics, special type for curved cuts	For brass, aluminium and plastics	For tinplates mm 1,5-3	For iron special type for curved cuts
Toothing execution	straight-set and sharpened	ondulated	ondulated	ondulated
Teeth pitch	mm 4	2	1,2	1,2
Useful length	mm 75	50	50	50
Corresponding to model	AEG 213116-Bosch T 244D-Holz-Her 17.3983-Metabo 23649	AEG 254064-Bosch T 118 B-Elu 142301206-Holz-Her 17.4092-Metabo 23638	AEG 254063-Bosch T 118 A-Holz-Her 17.4076-Metabo 23637	AEG-Bosch T 218 A-Holz-Her 17.4084-Metabo 23647
Steel	chrome-vanadium	HSS	HSS	HSS
Per pack	5,68	6,38	6,38	7,62

Art.	1708GH 9	1708GL	1708GL 9	1708GM
Application:	For tinplates mm 0,9-1,2	For plastic and synthetic materials and aluminium	For aluminium, not ferrous materials, plastic and synthetic materials	For finishing cuts of compress woods, soft metals, aluminium, plexiglas etc..
Toothing execution	ondulated	straight-set and sharpened	straight-set and sharpened	straight-set
Teeth pitch	mm 0,9	3	3	2
Useful length	mm 50	75	75	75
Corresponding to model	AEG 274652-Bosch T118G-Metabo 23636	AEG 254315-Bosch T 127 D-Elu 142301205-Holz-Her 17.4041-Metabo 23639	Bosch T127DF-Metabo 23974	AEG 274651-Bosch T 101 A-Metabo 23640
Steel	HSS	HSS	bimetallic	HSS
Per pack	6,38	8,16	10,30	11,50

Art.	1708GO	1708GP	1708GP 5	1708GR
Application:	To silhouet soft metals, aluminium, fibreglass until mm 20	For soft metals, steels, aluminium and not ferrous materials until mm 3	For soft metals, steels, aluminium and not ferrous materials until mm 3	For soft metals, aluminium, INOX and not ferrous materials until mm 6
Toothing execution	straight-set	ondulated	ondulated	ondulated
Teeth pitch	mm 3	1,2	1,2	2
Useful length	mm 75	50	75	50
Corresponding to model	Bosch T 227 D Metabo 23648	Bosch T 118 AF-Metabo 23971	Universal	Bosch T 118 BF-Metabo 23973
Steel	HSS	bimetallic	bimetallic	bimetallic
Per pack	9,58	7,56	8,76	7,56

Art.	1708GR 5	1708GS	1708GT	1708GV
Application:	For soft metals, aluminium, INOX and not ferrous materials until mm 12 and woods with and without nails up to 30 mm	For soft metals, aluminium, composite plywoods until mm 3	For soft metals, aluminium, composite plywoods and plastics til mm 8	For fiberglass, hard plastics,ceramics, glass and bricks
Toothing execution	ondulated	ondulated	ondulated	rough
Teeth pitch mm	2	1,2	2	-
Useful length mm	75	110	110	50
Corresponding to model	Bosch T 111 HF-Lenox 410S	AEG 274654 Bosch T 318 A-Metabo 23629	AEG 274653-Bosch T 318 B	AEG 213231-Bosch T 130R-Metabo 23657
Steel	bimetallic	HSS	HSS	hard metal
Per pack	8,76	9,88	9,88	4,04

Art.	1708GV 9	1708GV 11	1708GV 12
Application:	For fine cuts of fibreglass,hard plastics, ceramics,glass, bricks	For reinforced fiberglass, pasterboard, asbestos cement panel to 60mm and for abrasive materials.	For reinforced fiberglass, pasterboard, asbestos cement panel to 95mm and for abrasive materials.
Toothing execution	fine	straight-set	straight-set
Teeth pitch mm	-	4,2	4,2
Useful length mm	50	75	110
Corresponding to model	AEG 213232-Bosch T 150R-Metabo 23658	Bosch T 141HM	Bosch T 341HM
Steel	hard metal	hard metal	hard metal
Per pack	4,04	15,10	23,10

### 1708GZ



Assortment of 5 packed blades Art. 708 G 3 - 1708 GA - B - C - E (1 pc x type).

**1708GZ** Each **5,70**

### 1709G



Set of 5 blades Art. 1707 GR - 1708 GA 4 - 1708 GA 8 - 1708 GB 3 - 1708 GP 5 (1 pc. x type).

**1709G** Each **8,68**

## BLADES FOR ELECTRIC PAD SAWS

from  
**1710G 7**  
to  
**1710G 42**



Prod. SCU-Orig. MP.S

Pad saw blades for models AEG - BOSCH - B + D - METABO - LENOX - HITACHI - SKIL - MILWAUKEE - FLEX - MAKITA.

Packing unit: 5 pcs, not sold separately (Packing unit for Art. 1710G 14 and 16: 2 pcs, not sold separately).

Art.	1710G 7	1710G 8	1710G 9	1710G 10	1710G 12	1710G 14
Application:	For all kind of woods and plasterboards	For all kind of woods, plywoods and aluminium	For quick cuts and silhouet of hard and soft woods and hard plastics	For woods and plastics	For quick cuts in both directions of woods, plastics and plasterboards	For synthetic and abrasive materials,fibreglass, reinforced plastics. For aerated concrete, bricks, concrete, synthetic materials.
Toothing execution	straight-set	straight-set	straight-set	straight-set	straight-set	-
Teeth pitch mm	6,3	2,5	4,2	4,2	4,2	4,2
Useful length mm	130	130	130	280	130	130
Corresponding to model	AEG-Bosch-B + D-Metabo	AEG 318-127-Bosch S811 H-B + D 40103-Metabo 31123	AEG 318-126-Bosch S 644 D-B + D 40109-Metabo 31120	AEG 318-125-Bosch S 1344 D-B + D 40099-Metabo 31122	AEG 318-131-Bosch S 828 D-B + D 40127-Metabo 31136	Bosch S 641 HM
Steel	chrome-vanadium	chrome-vanadium	chrome-vanadium	chrome-vanadium	chrome-vanadium	hard metal
Per pack	10,10	10,50	11,80	15,40	14,10	39,40

Prices in EURO - VAT not included

Art.	1710G 16	1710G 20	1710G 22	1710G 24	1710G 26	1710G 28
Application:	For synthetic and abrasive materials, fibreglass, reinforced plastics. For aerated concrete, bricks, concrete, synthetic materials.	For tinplates from 1,5 to 3 mm of iron, metals, trimmed and pipes until mm 12	For tinplates from 1,5 to 3 mm of iron, metals, trimmed and pipes until mm 12	For tinplates from 1,5 to 3 mm of iron, metals, trimmed and pipes until mm 12	For tinplates until mm 1 of iron, metals, subtitle trimmed and pipes of small thickness	For tinplates until from 1 to 1,5 of iron, metals, subtitle trimmed and pipes of small thickness
Toothing execution	-	milled and straight-set	milled and straight-set	milled and straight-set	milled and straight-set	milled and straight-set
Teeth pitch	mm 8,5	1,4	1,4	1,4	0,8	1
Useful length	mm 280	80	130	210	80	80
Corresponding to model	Bosch 1241 HM	Bosch S522 EF- B + D 40115 - Metabo 31128	AEG 318-129-Bosch S922EF- B + D 40116 - Metabo 31132	Bosch S1122EF- Metabo 31133	Bosch S522GF- B + D 40118	Bosch S522AF
Steel	hard metal	bimetallic	bimetallic	bimetallic	bimetallic	bimetallic
<b>Per pack</b>	<b>51,10</b>	<b>11,90</b>	<b>14,50</b>	<b>21,10</b>	<b>11,90</b>	<b>11,90</b>

Art.	1710G 30	1710G 34	1710G 36	1710G 38	1710G 40	1710G 42
Application:	For tinplates until from 1 to 1,5 of iron, metals, subtitle trimmed and pipes of small thickness	For materials with thickness from mm 2 to 8 of iron, metals, soft metals, aluminium, trimmed and pipes	For materials with thickness from mm 2 to 8 of iron, metals, soft metals, aluminium, trimmed and pipes	For all kind of woods, even with nails, metals, soft metals, tinplates, aluminium, trimmed and pipes	For all kind of woods, even with nails, metals, soft metals, tinplates, aluminium, trimmed and pipes	Universal use, iron, metals, woods (even with nails) and plastic.
Toothing execution	milled and straight-set	milled and straight-set	milled and straight-set	milled and straight-set	milled and straight-set	milled and straight-set
Teeth pitch	mm 1	1,8	1,8	2,5	2,5	variable 1,8 to 2,5
Useful length	mm 130	130	210	130	280	130
Corresponding to model	AEG 318-128-Bosch S922AF-B + D 40125-Metabo 31129	AEG 318-130-Bosch S922BF-B + D 40113-Metabo 31134	Bosch S1122BF- Metabo 31135	Bosch S922HF- Metabo 31131	Bosch S1211H- Metabo 31125	Bosc S922VF
Steel	bimetallic	bimetallic	bimetallic	bimetallic	bimetallic	bimetallic
<b>Per pack</b>	<b>14,50</b>	<b>14,50</b>	<b>21,10</b>	<b>14,50</b>	<b>25,60</b>	<b>14,70</b>

**PORTABLE ELECTRIC SAWS**

**Prod. SCU - SKIL**

Pad type.

Sturdy, handy and easy to use. Motor manufactured according to European safety standards, V 230/240 monophas. 6-position speed adjustment. With front alternative movement and blade rapid release system. Complete with 3 blades.

Wood/aluminium/steel cutting	mm	180/30/20
Absorbed power	W	1050
No-load speed	colpi/min	800-2700
Stroke length	mm	28
Weight	Kg	3,7

<b>1712GA</b>	<b>Each</b>	<b>212,00</b>
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For spare pad saw blades see Art. 1710 G. Model with orbital blade movement can be supplied on request.



**1712GA**

**7**

**Prod. SCU - SKIL**

High quality model. Includes device for adjusting the depth and the cutting angle. Saw plane notch provided to help with following the cutting line. Lifting lever to provide interior protection for the plunge cut blade guards. Safety switch. Double safety insulation and shield protection for radio/TV, which complies with European standards Single engine phase 230 Volt.

Supplied with circular blade Ø 130mm with HARD METAL facings, adjustable parallel guide, cutting line guide with patented viewer and adapter for vacuum cleaner.

Cutting capacity 90°/45°	mm	40/26
Circ. blade bore Ø	mm	16
Absorbed power	W	700
No-load speed	rev/min	4300
Weight	Kg	2,4

<b>1712GC</b>	<b>Each</b>	<b>140,00</b>
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For spare blades see Art. 4840 Gx130 A-B.



**1712GC**

**1712GE** **SCU**


Product description as Art. 1712GC

Supplied with circular blade Ø 184mm with HARD METAL facings, adjustable parallel guide, cutting line guide with patented viewer and adapter for vacuum cleaner.

Cutting capacity 90°/45°	mm	65/42
Circ. blade bore Ø	mm	16
Absorbed power	W	1250
No-load speed	rev/min	5000
Weight	Kg	3,9

<b>1712GE</b>	<b>Each</b>	<b>237,00</b>
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For spare blades see Art. 4840 Gx184 A-B.

**CUT-OFF MACHINES**
**1712GL** **SCU**


**Prod. SCU**

Workbench type. To be used with sanding disks for cutting profiles, pipes and steel bars. Powerful, sturdy, handy, easy to use. Motor manufactured according to European safety regulations, V 220/50 Hz. monophase. Screw-formed clamping vice with quick opening and fastening facility. Safety switch, disk protection cap. For disks Ø 355x3mm and hole Ø 25.4mm. Linear speed 80m/s.

Cutting capacity for round section: 115mm (at 90°), 100mm (at 45°).  
 Cutting capacity for square section: 115mm (at 90°), 102mm (at 45°).  
 Cutting capacity for rectangular section: 75x200mm (at 90°), 85x100mm (at 45°).  
 Cutting capacity for profiles 139mm (at 90°), 100mm (at 45°).

Motor power	W	2300
Speed	rev/min	3500
Weight	Kg	16,7

<b>1712GL</b>	<b>Each</b>	<b>411,00</b>
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For spare sanding disks see Art. 7145 G 355mm.

**ELECTRIC DISK SAWS**
**1712GP** **SCU**


**Prod. SCU**

Workbench type to be used with disk saws. Suitable for dry cutting of 90°/45° pipes, steel profiles, stainless steel, non-ferrous metals, aluminium, plastic materials and composites. Motor built according to European safety standards, V 230/50 Hz mono-phase.

Particularly powerful and steady. Sturdy screw clamping with release device for rapid opening/closure. Safety switch, blade protection cap and a compartment to collect shavings.

Equipped with circular blade Ø 355mm with 90 hard-metal teeth, hole Ø 25.4mm.  
 Cutting capacity for round section: 140mm (at 90°), 102mm (at 45°).  
 Cutting capacity for square section: 120mm (at 90°), 85mm (at 45°).  
 Cutting capacity for rectangular section: 155mmx105 (at 90°), 110mmx75 (at 45°).

Motor power	W	2000
Speed	rev/min	1600
Weight	Kg	23,5

<b>1712GP</b>	<b>Each</b>	<b>1.160,00</b>
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Spare blades for saws Art. 1712 GP.

<b>O1712GP</b>	<b>Each</b>	<b>271,00</b>
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**1712GPA** **SCU**


example

Support for saw 1712 GP with demountable legs. For comfortable, eye-level work. Particularly steady and sturdy, equipped with graduated spacer for series cutting .

Weight	Kg	15
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<b>1712GPA</b>	<b>Each</b>	<b>257,00</b>
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Special device for fixing U profiles with inside width 15 to 130mm. Mounted on the vice of the saw Art. 1712 GP, it allows fast and safe profile fixing.

**1712GPB** Each **99,30**


**1712GPB**


### ELECTRIC BAND SAW MACHINES

#### Prod. SCU

Multi-purpose portable belt saw, dry operated or with spray lubricants. For 90°/45° cutouts, profiles and pipes. Very powerful induction motor, double safety insulation, radio/TV interference shielding device, V 230/50-60 Hz monophasic motor (with commutator). Practical stretching system of the automatic belt, blade speed adjustment. Precision clamp with steel inserts and steady aluminium base. Safety switch with recovery system. Equipped with 1 bimetal blade M 42 1335x13x0.65mm. 8/12 teeth. Dimensions when closed mm640x300x400h.

Motor power	W	1010
Speed	m/min	30 to 80
Cutting capacity 90°/45°	mm	100/70
Weight	Kg	18

**1712R** Each **743,00**

Available on request: electric band saws, cutting capacity Ø 125/85mm (at 90°/45°). Blade length 1440mm, weight 21 kg, particularly suitable for plumbers and installators.

Ring 1335x13x0.65mm. For Art. 1712 R.

Teeth	No	8/12 (variable)
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**O1712R** Each **29,60**


**1712R**


### MIXERS

#### Prod. SCU - SKIL

Powerful and handy mixer for all types of materials such as mortars, paints, adhesives, varnishes etc.

Switch with continuous speed control for precise start-up and mixing at speeds suitable for different types of material. Double handle for a comfortable and safe control.

Double safety insulation and radio/TV interference shielding according to European regulations. 220/240 volt single-phase motor.

Equipped with a universal mixing tool Ø 120 mm Art. O1712 T 1.

Absorbed power	W	1200
No-load speed	rev/min	0-800
Drive for whips	M.	14
Mx mixing capacity	Kg	35
Maximum torque	Nm	50
Weight	Kg	3

**1712T** Each **208,00**

Spare mixing tool for Art. 1712 T, for universal use up to 15 kg of dense materials.

Ø	mm	120
Length	mm	59
Drive	M.	14

**O1712T 1** Each **51,70**

Additional mixing tool for Art. 1712 T, for universal use up to 30 kg of dense materials.

Ø	mm	140
Length	mm	59
Drive	M.	14

**O1712T 2** Each **61,40**

Product running out of stock.


**1712T**  
*new*
**7**


1712V

SCU



Powerful and handy mixer for all kinds of materials, such as mortars, paints, adhesives, enamels, etc.

Switch with speed control for precise start-up and mixing at suitable speed according to the type of material. With auxiliary handle for comfortable and safe control and support for placing or picking up the tool when needed.

Double safety insulation and radio/TV interference shielding according to European standards. 230/240 Volt mono-phase motor.

Equipped with 1 universal mixing whisk Ø 140mm Art. O1712 V 1.

Absorbed power	W	1200
No-load speed	rev/min	0-700
Drive for whips	M.	14
Mx mixing capacity	Kg	35
Maximum torque	Nm	50
Weight	Kg	3,4

**1712V** Each **208,00**

Product running out of stock.

Spare mixing whisk for Art. 1712 V, for universal use up to 35 kg.

Ø	mm	140
Length	mm	590
Drive	M.	14

**O1712V 1** Each **72,70**

Product running out of stock.

### AIR IMPACT WRENCHES

1712ZG




Prod. Pneutec - Art. UT 8020 B

Straight type.

High torque/air consumption performance. Supplied with power regulator. Right - left directional changes. Very handy type due to light alloy casing and reduced dimensions. Protective front rubber cap.

Drive for bushes	inches	3/8
Max working torque	Nm	95/135
For bolts up to	M.	10
Air consumption	l/sec	2,9
No-load speed	rev/min	10000
Length	mm	170
Noise level	dB	85
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	1,1

**1712ZG** Each **187,00**

Operating pressure: Atm 6,3

1713GA

new




Prod. Pneutec - Art. UT 8022

Pistol model.

For high-performance regarding torque/air consumption ratio.

Comes with additional handle.

With 3 adjustable screw strengths. Switch for left and right rotation.

High comfort due to the handle coated in dual-component material and to its low weight.

Exhaust air from the handle downwards.

Drive for bushes	inches	3/8
Max working torque	Nm	160/240
For bolts up to	M.	16
Air consumption	l/sec	1,1
No-load speed	rev/min	8000
Length	mm	160
Noise level	dB	85,5
Vibrations	m/s <sup>2</sup>	3
Air drive	inches	1/4
Weight	Kg	1,1

**1713GA** Each **187,00**

Operating pressure Atm 6,3.



**Prod. Pneutec - Art. UT 8055 R**

Pistol-grip type, professional model.

High performance model provided with percussion-rotation mechanism (ratio 1-1). Equipped with three regulations to control screwing power. Right - left directional changes with dead point to avoid accidental rotation. Mechanical parts easily accessible. Handy light alloy casing. Air exhaust through the insulated handle, downwards.

Drive for bushes	inches	3/8
Max working torque	Nm	170/240
For bolts up to	M.	18
Air consumption	l/sec	5,1
No-load speed	rev/min	8000
Length	mm	160
Noise level	dB	87,8
Vibrations	m/s <sup>2</sup>	3
Air drive	inches	1/4
Weight	Kg	1,6

**1713GC** Each **243,00**

Operating pressure: Atm 6,3. Product running out of stock.


**PNEUTEC**  
 DRUCKLUFTWERKZEUGE

**1713GC**



**Prod. Pneutec - Art. UT 8110**

Pistol model.

Powerful and VERY COMPACT, professional with big swing.

With 3 settings for screwing power and a switch for right and left rotation, usable WITH ONE HAND ONLY. High manoeuvrability, thanks to the body in composite material and its light weight. Air can be extracted from the handle, downward motion.

Drive for bushes	inches	1/2
Max working torque	Nm	420/695
For bolts up to	M.	14
Air consumption	l/sec	2
No-load speed	rev/min	9000
Length	mm	109
Noise level	dB	95
Vibrations	m/s <sup>2</sup>	2,5
Air drive	inches	1/4
Weight	Kg	1,3

**1714GB** Each **337,00**

Operating pressure Atm 6,3.


**PNEUTEC**  
 DRUCKLUFTWERKZEUGE

**1714GB**
*new*



**7**
**Prod. Pneutec - Art. UT 8121**

Pistol-grip type.

Provided with percussion-rotation mechanism (ratio 1-1). Supplied with power regulator. Right - left directional changes with dead point to avoid accidental rotation. Mechanical parts easily accessible. Handy light alloy casing. Protective front rubber cap.

Drive for bushes	inches	1/2
Max working torque	Nm	320/350
For bolts up to	M.	20
Air consumption	l/sec	5,3
No-load speed	rev/min	8000
Length	mm	180
Noise level	dB	92,5
Vibrations	m/s <sup>2</sup>	4,2
Air drive	inches	1/4
Weight	Kg	2,4

**1714GC** Each **155,00**

Operating pressure: Atm 6,3. Product running out of stock.


**PNEUTEC**  
 DRUCKLUFTWERKZEUGE

**1714GC**



**Prod. Pneutec - Art. UT 8145 RE**

Pistol-grip type, professional model.

High performance model provided with percussion-rotation mechanism (ratio 1-1). Supplied with three regulations to control screwing power. Right - left directional changes with dead point to avoid accidental rotation. Mechanical parts easily accessible. Handy light alloy casing. Air exhaust through the handle, downwards. Insulated handle. Protective front rubber cap.

Drive for bushes	inches	1/2
Max working torque	Nm	495/600
For bolts up to	M.	22
Air consumption	l/sec	6,9
No-load speed	rev/min	7500
Length	mm	190
Noise level	dB	90,3
Vibrations	m/s <sup>2</sup>	2,6
Air drive	inches	1/4
Weight	Kg	2,4

**1714GE** Each **216,00**

Operating pressure: Atm 6,3.


**PNEUTEC**  
 DRUCKLUFTWERKZEUGE

**1714GE**




**1714GL** **PNEUTEC**  
 DRUCKLUFTWERKZEUGE


1/2"


**Prod. Pneutec - Art. UT 81452 RE**

Product description as Art. 1714GE

Prolonged pin, 50mm, particularly suited to truck coupled wheels.

Drive for bushes	inches	1/2 lungo
Max working torque	Nm	495/600
For bolts up to	M.	22
Air consumption	l/sec	6,9
No-load speed	rev/min	7500
Length	mm	230
Noise level	dB	90,3
Vibrations	m/s <sup>2</sup>	2,6
Air drive	inches	1/4
Weight	Kg	2,7

**1714GL** Each **292,00**

Operating pressure: Atm 6,3.

**1714GM** **PNEUTEC**  
 DRUCKLUFTWERKZEUGE  
 new


1/2"


**Prod. Pneutec - Art. UT 8137**

Pistol model, professional.

High performance with a percussion for each rotation. With three levels of screwing power. Switch for left and right rotation, while a deadlock prevents any accidental rotation, can be used WITH ONE HAND ONLY. Easy accessible mechanical parts. High comfort thanks to the handle covered in dual-component material. Air can be extracted from the handle, downward motion.

Drive for bushes	inches	1/2
Max working torque	Nm	400/600
For bolts up to	M.	24
Air consumption	l/sec	2,9
No-load speed	rev/min	6500
Length	mm	200
Noise level	dB	85
Vibrations	m/s <sup>2</sup>	6,7
Air drive	inches	1/4
Weight	Kg	2,1

**1714GM** Each **262,00**

Operating pressure Atm 6,3.

**1714GP** **PNEUTEC**  
 DRUCKLUFTWERKZEUGE


1/2"


**Prod. Pneutec - Art. UT 8125 R**

Pistol-grip type, professional model.

Very high performance model. Supplied with four regulations to control screwing power and quick acceleration. Particularly suited to tyre-repair shops and vehicle service and repair shops. Right - left directional change with dead point to avoid accidental rotation. Mechanical parts easily accessible. Handy light alloy casing. Air exhaust through the handle, downwards. Protective front rubber cap.

Drive for bushes	inches	1/2
Max working torque	Nm	465/580
For bolts up to	M.	22
Air consumption	l/sec	5,5
No-load speed	rev/min	7800
Length	mm	200
Noise level	dB	86,1
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	2,4

**1714GP** Each **273,00**

Operating pressure: Atm 6,3.

**1714GPA** **PNEUTEC**  
 DRUCKLUFTWERKZEUGE


1/2"


**Prod. Pneutec - Art. UT 8157**

Professional, pistol-grip type, double hammer.

Very high torque, particularly low noise level and long-lasting operation. With three screwing force settings. Switch for right and left rotation. Extremely high comfort thanks to the handle coated with bi-component material. Air exhaust through the handle, downwards.

Drive for bushes	inches	1/2
Max working torque	Nm	700/950
For bolts up to	M.	24
Air consumption	l/sec	2,5
No-load speed	rev/min	6000
Length	mm	192
Noise level	dB	85,0
Vibrations	m/s <sup>2</sup>	6,7
Air drive	inches	1/4
Weight	Kg	2

**1714GPA** Each **375,00**

Operating pressure: Atm 6,3.

**Prod. Pneutec - Art. UT 8150**

Professional, pistol-grip type, double hammer.

Very high torque, very low air consumption and long-lasting operation. With three screwing force settings and rapid acceleration. Switch for right and left rotation. Extremely comfortable and easy to handle, thanks to the very sturdy, light-weight body made from composite material. Air exhaust through the handle, downwards.

Drive for bushes	inches	1/2
Max working torque	Nm	830/950
For bolts up to	M.	24
Air consumption	l/sec	1,9
No-load speed	rev/min	7000
Length	mm	190
Noise level	dB	83,0
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	1,8

**1714GR** Each **443,00**

Operating pressure: Atm 6,3.

**PNEUTEC**  
DRUCKLUFTWERKZEUGE

**1714GR**



1/2"



**Prod. Pneutec - Art. UT 8181**

Pistol model, extremely powerful and compact, professional with double swing.

Maximum torque movement comparable to 3/4" screwdrivers, very low air consumption and high durability. With 3 levels of screwing power and diverter for left and right rotation usable WITH ONE HAND. Adaptable to right or left handed users. High manoeuvrability, body in composite material. Air can be extracted from the handle, downward motion.

Drive for bushes	inches	1/2
Max working torque	Nm	810/1290
For bolts up to	M.	24
Air consumption	l/sec	1,8
No-load speed	rev/min	8000
Length	mm	171
Noise level	dB	89,0
Vibrations	m/s <sup>2</sup>	5,3
Air drive	inches	1/4
Weight	Kg	1,9

**1714GRE** Each **469,00**

Operating pressure Atm 6,3.

**PNEUTEC**  
DRUCKLUFTWERKZEUGE

**1714GRE**

*new*



1/2"



**7**

**Prod. Ewo**

Pistol model, professional with double swing.

Maximum torque movement, very low air consumption and high durability. With 3 levels of screwing power and fast acceleration. Diverter for left and right rotation. High manoeuvrability and comfort, body made of composite material, very sturdy and lightweight. Air can be extracted from the handle, downward motion.

Art.		<b>1714GRL</b>	<b>1714GRM</b>	<b>1714GRP</b>
Drive for bushes	inches	3/8	1/2	1/2
Max working torque	Nm	407	407	1054
For bolts up to	M.	20	20	24
Air consumption	l/sec	1,9	1,9	1,9
No-load speed	rev/min	11000	11000	7000
Length	mm	150	150	190
Noise level	dB	83,0	83,0	83,0
Vibrations	m/s <sup>2</sup>	< 2,5	< 2,5	< 2,5
Air drive	inches	1/4	1/4	1/4
Weight	Kg	1,2	1,2	1,9
Supplier code		741.130	741.160	741.180

**1714GRL** Each **312,00**   **1714GRM** Each **317,00**   **1714GRP** Each **337,00**

Operating pressure Atm 6,3.

**ewo**

**1714GRL**

*new*

**1714GRM**

*new*

**1714GRP**

*new*



3/8"

1/2"



**SET OF AIR IMPACT WRENCHES**

**Prod. Pneutec - Art. UT 8145 RES**

Professional high performance model for heavy-duty applications. Practical tool kit supplied in case.

Each set contains:

1 x air impact wrench Art. 1714 GE

5 x 14 - 16 - 17 - 19 - 21mm hexagonal sockets for above mentioned.

**1714GT** Each **281,00**

**PNEUTEC**  
DRUCKLUFTWERKZEUGE

**1714GT**



1/2"



**AIR IMPACT WRENCHES**
**1715GB** 


3/4"


**Prod. Pneutec - Art. UT 83156 RE**

Pistol-grip type, professional model.

High performance model provided with percussion-rotation mechanism (ratio 1-1).

Supplied with power regulator.

Right - left directional changes with dead point to avoid accidental rotation. Mechanical parts easily accessible. Handy light alloy casing. Air exhaust through the handle, downwards. Insulated handle. Protective front rubber cap.

Prolonged pin 150mm particularly suitable to couple truck wheels.

Drive for bushes	inches	3/4 long
Max working torque	Nm	1000/1140
For bolts up to	M.	33
Air consumption	l/sec	8
No-load speed	rev/min	4000
Length	mm	400
Noise level	dB	90,8
Vibrations	m/s <sup>2</sup>	2,7
Air drive	inches	1/4
Weight	Kg	6

<b>1715GB</b>	<b>Each</b>	<b>949,00</b>
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Operating pressure: Atm 6,3. Product running out of stock.

**1715GC** 


3/4"


**Prod. Pneutec - Art. UT 8322**

Professional, pistol-grip type, particularly compact, double hammer.

Extremely high performance, with 3 screwing force settings.

Switch for right and left rotation. High comfort due to the handle covered in two-component material. Exhaust air from the handle down.

Drive for bushes	inches	3/4
Max working torque	Nm	1350
For bolts up to	M.	38
Air consumption	l/sec	4,5
No-load speed	rev/min	4200
Length	mm	245
Noise level	dB	89
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	3/8
Weight	Kg	4,8

<b>1715GC</b>	<b>Each</b>	<b>526,00</b>
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Operating pressure: Atm 6,3.

**1715GE** 


3/4"


**Prod. Pneutec - Art. UT 83176**

Pistol model, professional, and very compact.

Allows high-performance with impact tools used during any rotation.

3 adjustable screw strengths.

Switch between left and right movements, while a deadlock prevents any accidental rotation. Easy accessible mechanical parts. Handy light alloy bodywork. Air can be extracted from the handle, insulated, downward motion. Front rubber cap for protection.

Extended pin 150mm, particularly suitable for paired truck wheels.

Drive for bushes	inches	3/4 long
Max working torque	Nm	1050/1350
For bolts up to	M.	38
Air consumption	l/sec	9
No-load speed	rev/min	5500
Length	mm	330
Noise level	dB	89
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	3/8
Weight	Kg	5,6

<b>1715GE</b>	<b>Each</b>	<b>940,00</b>
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Operating pressure: Atm 6,3. Product running out of stock.

**Prod. Pneutec - Art. UT 8455RE**

Professional, pistol-grip type, double hammer.

Particularly light and easy to handle for prolonged use in difficult positions. Also recommended for tyre-repair shops and vehicle service and repair workshops.

With additional handle.

With 3 screwing force settings. Switch for right and left rotation with dead point to avoid accidental rotation. Easy access to mechanical components. Easy to handle light-weight alloy body. Air exhaust through the handle, downwards.

Drive for bushes	inches	1
Max working torque	Nm	1558/1900
For bolts up to	M.	42
Air consumption	l/sec	9,5
No-load speed	rev/min	4000
Length	mm	260
Noise level	dB	96,7
Vibrations	m/s <sup>2</sup>	6,3
Air drive	inches	1/2
Weight	Kg	6,7

<b>1715GP</b>	<b>Each</b>	<b>1.360,00</b>
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Operating pressure: 6,3 Atm. On request available with prolonged pin.


**Prod. Pneutec - Art. UT 8487 RE**

Pistol model.

For high-performance during heavy work.

Comes with additional handle.

With 3 adjustable screw strengths. Switch between left and right movements, while a deadlock prevents any accidental rotation. Easy accessible mechanical parts. Handy light alloy bodywork.

Drive for bushes	inches	1
Max working torque	Nm	1900/2500
For bolts up to	M.	48
Air consumption	l/sec	11
No-load speed	rev/min	3900
Length	mm	293
Noise level	dB	96,2
Vibrations	m/s <sup>2</sup>	6,3
Air drive	inches	1/2
Weight	Kg	11,4

<b>1715GSA</b>	<b>Each</b>	<b>996,00</b>
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Operating pressure: Atm 6,3.


**7**
**Prod. Pneutec - Art. UT 8411 B**

Straight type.

High performance for heavy-duty operations.

Closed handle. With additional handle.

Screwing force adjusted by means of a knurled wheel. Switch for right and left rotation with dead point to avoid accidental rotation. Easy access to mechanical components. Easy to handle light-weight alloy body.

Drive for bushes	inches	1
Max working torque	Nm	2025/2500
For bolts up to	M.	45
Air consumption	l/sec	10,8
No-load speed	rev/min	3600
Length	mm	380
Noise level	dB	92,8
Vibrations	m/s <sup>2</sup>	4,4
Air drive	inches	1/2
Weight	Kg	11

<b>1715GT</b>	<b>Each</b>	<b>1.460,00</b>
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Operating pressure: Atm 6,3.



**1715GZ** **PNEUTEC**  
 DRUCKLUFTWERKZEUGE
**Prod. Pneutec - Art. UT 8465**

Straight type.

High performance for heavy-duty and lengthy operations.

Closed handle. With additional handle. With three screwing force settings. Switch for right and left rotation. Particularly light-weight and easy to handle thanks to the special light alloy body. Air exhaust through the handle, downwards.

Drive for bushes	inches	1
Max working torque	Nm	2170/1850
For bolts up to	M.	38
Air consumption	l/sec	9,5
No-load speed	rev/min	5000
Length	mm	355
Noise level	dB	104,0
Vibrations	m/s <sup>2</sup>	8,5
Air drive	inches	1/2
Weight	Kg	6,9

<b>1715GZ</b>	<b>Each</b>	<b>1.420,00</b>
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Operating pressure: Atm 6,3. Product running out of stock.

**AIR RATCHES**
**1716GA** **PNEUTEC**  
 DRUCKLUFTWERKZEUGE
**Prod. Pneutec - Art. UT 8001 A**

Professional type.

High performance model for continuous screwing operation

With lever change for clockwise and counter-clockwise operation.

Practical and insulated aluminium housing sheathed in rubber.

Very light and handy.

Drive for bushes	inches	1/4
Max torque	Nm	40
For bolts up to	M.	6
Air consumption	l/sec	2,4
No-load speed	rev/min	250
Length	mm	203
Noise level	dB	85
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	0,6

<b>1716GA</b>	<b>Each</b>	<b>187,00</b>
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Operating pressure: Atm 6,3.

**1716GA 2** **PNEUTEC**  
 DRUCKLUFTWERKZEUGE
**Prod. Pneutec - Art. UT 8000 AG**

Product description as Art. 1716GA

Low noise level.

Air outlet on the rear side.

360° rotating air hose connection.

Drive for bushes	inches	1/4
Max torque	Nm	40
For bolts up to	M.	6
Air consumption	l/sec	1,9
No-load speed	rev/min	270
Length	mm	196
Noise level	dB	85
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	0,5

<b>1716GA 2</b>	<b>Each</b>	<b>225,00</b>
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Operating pressure: Atm 6,3.

**1716GA 3** **PNEUTEC**  
 DRUCKLUFTWERKZEUGE
**Prod. Pneutec - Art. UT 8001 B**

Product description as Art. 1716GA

Drive for bushes	inches	3/8
Max torque	Nm	40
For bolts up to	M.	6
Air consumption	l/sec	2,4
No-load speed	rev/min	250
Length	mm	203
Noise level	dB	85
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	0,6

<b>1716GA 3</b>	<b>Each</b>	<b>187,00</b>
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Operating pressure: Atm 6,3.

**Prod. Pneutec - Art. UT 8000 BG**

Product description as Art. 1716GA

Low noise level.

Air outlet on the rear side.

360° rotating air hose connection.

Drive for bushes	inches	3/8
Max torque	Nm	40
For bolts up to	M.	6
Air consumption	l/sec	1,9
No-load speed	rev/min	270
Length	mm	196
Noise level	dB	85
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	0,5

<b>1716GA 8</b>	<b>Each</b>	<b>225,00</b>
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Operating pressure: Atm 6,3.


**PNEUTEC**  
 DRUCKLUFTWERKZEUGE

**1716GA 8**

**Prod. Pneutec - Art. UT 5015 D**

Professional type.

High performance model for continuous screwing operation. With lever change for clockwise and counter-clockwise operation. Aluminium housing sheathed in rubber.

With air outlet orientable through a rotating ferrule situated in the middle of the handle.

Drive for bushes	inches	1/2
Max torque	Nm	80
For bolts up to	M.	6
Air consumption	l/sec	1,9
No-load speed	rev/min	180
Length	mm	285
Noise level	dB	85
Vibrations	m/s <sup>2</sup>	<2,5
Air drive	inches	1/4
Weight	Kg	1,2

<b>1716GBA</b>	<b>Each</b>	<b>206,00</b>
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Operating pressure: Atm 6,3.


**PNEUTEC**  
 DRUCKLUFTWERKZEUGE

**1716GBA**

**Prod. Pneutec - Art. UT 8015 G**

Professional type.

High performance model for continuous screwing operation. With lever change for clockwise and counter-clockwise operation. Aluminium housing sheathed in rubber. Air outlet adjustable through rotating ferrule at the back of the handle.

Drive for bushes	inches	1/2
Max torque	Nm	70
For bolts up to	M.	8
Air consumption	l/sec	1,9
No-load speed	rev/min	150
Length	mm	256
Noise level	dB	85
Vibrations	m/s <sup>2</sup>	2,6
Air drive	inches	1/4
Weight	Kg	1,2

<b>1716GC</b>	<b>Each</b>	<b>281,00</b>
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Operating pressure: Atm 6,3.


**PNEUTEC**  
 DRUCKLUFTWERKZEUGE

**1716GC**

**Prod. Pneutec - Art. UT 8014 A**

Professional type.

High performance model with a high ratio between dimension, weight and torque value. For continuous screwing operation. With lever change for clockwise and counter-clockwise operation. Aluminium housing sheathed in rubber.

Drive for bushes	inches	1/2
Max torque	Nm	95
For bolts up to	M.	10
Air consumption	l/sec	3
No-load speed	rev/min	160
Length	mm	270
Noise level	dB	88
Vibrations	m/s <sup>2</sup>	8,1
Air drive	inches	1/4
Weight	Kg	1,2

<b>1716GDA</b>	<b>Each</b>	<b>262,00</b>
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Operating pressure: Atm 6,3.


**PNEUTEC**  
 DRUCKLUFTWERKZEUGE

**1716GDA**


**1716GE** **PNEUTEC**  
 DRUCKLUFTWERKZEUGE


1/2"


**Prod. Pneutec - Art. UT 8018**

Professional type.

Very high performance model for continuous screwing operation. With lever change for clockwise and counter clockwise one-hand operation. Aluminium housing.

Drive for bushes	inches	1/2
Max torque	Nm	130
For bolts up to	M.	16
Air consumption	l/sec	6
No-load speed	rev/min	170
Length	mm	370
Noise level	dB	94,7
Vibrations	m/s <sup>2</sup>	8,8
Air drive	inches	1/4
Weight	Kg	1,6

<b>1716GE</b>	<b>Each</b>	<b>432,00</b>
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Operating pressure: Atm 6,3.

**AIR DRILLS**
**1717GE** **PNEUTEC**  
 DRUCKLUFTWERKZEUGE

**Prod. Pneutec - Art. UT 8831**

Pistol grip handle.

Made of composite material and bi-component handle. Air discharge in the handle bottom end.

Standard type with left-right rotation for light-duty works, three-jaw chuck shank 3/8"x 24 threads (Art. 1495 G 10).

Chuck opening and bores steel	mm	10
Air consumption	l/sec	2,6
No-load speed	rev/min	2200
Length	mm	160
Noise level	dB	84
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	1

<b>1717GE</b>	<b>Each</b>	<b>206,00</b>
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Operating pressure Atm 6,3.

A drill with the same performance levels but with a quick opening spindle.

**1717GL** **PNEUTEC**  
 DRUCKLUFTWERKZEUGE

**Prod. Pneutec - Art. UT 8844 RE**

Pistol grip handle.

Light alloy manufacture, particularly handy. Air discharge in the handle bottom end, rubber-coated.

Type with RIGHT/LEFT rotation, quick closing chuck, shank 3/8"x 24 threads (Art. 1513 G 10).

Chuck opening and bores steel	mm	10
Air consumption	l/sec	7
No-load speed	rev/min	2000
Length	mm	160
Noise level	dB	96
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	1,8

<b>1717GL</b>	<b>Each</b>	<b>243,00</b>
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Operating pressure: Atm 6,3.

**1718GB** **PNEUTEC**  
 DRUCKLUFTWERKZEUGE


Auxiliary handle


**Prod. Pneutec - Art. UT 8855 RE**

Product description as Art. 1717GL

Professional type with RIGHT/LEFT rotation, high-performance for heavy-duty works, quick closing chuck, shank 1/2"x 20 threads (Art. 1513 G 13A). With additional handle.

Chuck opening and bores steel	mm	13
Air consumption	l/sec	7
No-load speed	rev/min	450
Length	mm	184
Noise level	dB	84
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	1,4

<b>1718GB</b>	<b>Each</b>	<b>273,00</b>
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Operating pressure: Atm 6,3.



**Prod. Pneutec - Art. UT 8807 C**

Angular type.

Particularly suitable for 90° angle drilling. Light alloy manufacture, air discharge in the handle end.

Right/left rotation.

Three-jaw chuck, shank 3/8"x 24 threads (Art. 1512GE 10).

Chuck opening and bores steel	mm	10
Air consumption	l/sec	1,8
No-load speed	rev/min	1800
Overall height with chuck	mm	190
Noise level	dB	85
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	1,1

<b>1718GC</b>	<b>Each</b>	<b>262,00</b>
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Operating pressure: Atm 6,3.


**PNEUTEC**  
 DRUCKLUFTWERKZEUGE

**1718GC**

**AIR SHEARING MACHINES**
**Prod. Pneutec - Art. UT 8900 B / UT 8901**

For removing the material by using punches. For perfect cutting of flat and corrugated steel plate and very narrow bending radius. High feed speed.

HSS punching knife, for oblique and side cutting.

For cutting steel fine	mm	1,5
Air consumption	l/sec	1,5
Length	mm	185 / 235
Minimum bending radius	mm	7
Noise level	dB	85
Vibrations	m/s <sup>2</sup>	5,3
Air drive	inches	1/4
Weight	Kg	1

<b>1718GD</b>	<b>Each</b>	<b>225,00</b>
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Operating pressure Atm 6,3.

When the mod. UT 8900 B will run out of stock, mod. UT 8901 will be supplied.


**PNEUTEC**  
 DRUCKLUFTWERKZEUGE

**1718GD**

**AIR SAWING MACHINES**
**Prod. Pneutec - Art. UT 8922**

For steel plate, aluminium, plastic, wood, rubber, etc. Particularly suitable for cutting and profiling vehicle frames, without deformation. Safety start lever.

Complete with 1 blade.

For cutting sheets with thickness up to	mm	1,2
Minimum bending radius	mm	16
No. of excursions per minute		10000
Blade excursions	mm	10
Air consumption	l/sec	6
Noise level	dB	72
Vibrations	m/s <sup>2</sup>	26
Air drive	inches	1/4
Weight	Kg	1

<b>1718GP</b>	<b>Each</b>	<b>319,00</b>
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Operating pressure: Atm 6,3.

Spare blades for curved cutting of sheet metal and plastic up to thickness=1mm.

For Art. 1718 GP.

<b>O1718GR</b>	<b>Each</b>	<b>4,72</b>
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Spare blades for cutting of iron and aluminium thickness=5mm. For Art. 1718 GP.

<b>O1718GS</b>	<b>Each</b>	<b>4,72</b>
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Spare blades for cutting of wood up to thickness=40mm. For Art. 1718 GP.

<b>O1718GT</b>	<b>Each</b>	<b>4,72</b>
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Spare blades for cutting of rubber and synthetic materials thickness= 40mm. For Art. 1718 GP.

<b>O1718GV</b>	<b>Each</b>	<b>4,34</b>
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Art. O1718GV running out of stock.


**PNEUTEC**  
 DRUCKLUFTWERKZEUGE

**1718GP**

**7**

### AIR CUT-OFF MACHINES

**1718GR** **PNEUTEC**  
DRUCKLUFTWERKZEUGE  
*new*



**Prod. Pneutec - Art. UT 5760 B**

Grinder model, to cut iron, metal and alloy steel. Continuous adjustment of the speed of rotation. High manoeuvrability and comfort, body made of composite material, very sturdy. Air outlet on the back.

Transparent start lever for the safety and protection of the grinder. Comes with 1 cutting disc.

For cutting wheels	mm	76x2x10
Working torque	Nm	0,3
Air consumption	l/sec	3
No-load speed	rev/min	20000
Length	mm	175
Noise level	dB	84
Vibrations	m/s <sup>2</sup>	<2,5
Air drive	inches	1/4
Weight	Kg	0,7

**1718GR** Each **179,00**

Operating pressure Atm 6,3.

Spare cutting discs Ø 76 mm, 2 mm thick, 10 mm hole.

For Art. 1718 GR.

**O1718GRA** Each **5,00**

### AIR ROTARY DIE GRINDERS

**1718GT** **PNEUTEC**  
DRUCKLUFTWERKZEUGE



**Prod. Pneutec - Art. UT 8742 R**

Stylus type.

Particularly suitable for use with tyre tools.

Aluminium body, thermally insulated for heavy-duty works. Big and spaced unloading device.

Collet chuck. 6 bar power: KW 0.4.

For tools with shaft Ø	mm	6
Air consumption	l/sec	8
No-load speed	rev/min	4000
Length	mm	190
Noise level	dB	89
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	1

**1718GT** Each **300,00**

Operating pressure: Atm 6,3

**1718GZ** **PNEUTEC**  
DRUCKLUFTWERKZEUGE  
*new*



**Prod. Pneutec - Art. UT 5710**

Stylus model, low air consumption.

High frequency rotation with little fall in the number of revolutions, even under pressure. High manoeuvrability and comfort, body made from extremely sturdy composite material.

Air outlet on the back.

Collet chuck. Power at 6 bar: KW 0.2

For tools with shaft Ø	mm	6
Air consumption	l/sec	2
No-load speed	rev/min	20000
Length	mm	170
Noise level	dB	79
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	0,6

**1718GZ** Each **149,00**

Operating pressure Atm 6,3.

For spare pliers see Art. O1719 G.

**1719G** **PNEUTEC**  
DRUCKLUFTWERKZEUGE



**Prod. Pneutec - Art. UT 5720**

Stylus type.

High-frequency rotation with limited rpm reduction, even under strong pressure. Particularly handy for use of light alloys.

Air discharge in the rear part.

Collet chuck. 6 bar power: KW 0.2

For tools with shaft Ø	mm	6
Air consumption	l/sec	8,5
No-load speed	rev/min	22000
Length	mm	176
Noise level	dB	86,8
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	0,6

**1719G** Each **149,00**

Operating pressure Atm 6,3.

Spare collets Ø 6mm, for Art. 1718 GZ and 1719 G.

**O1719G** Each **36,80**

**Prod. Pneutec - Art. UT 8721**

Stylus type.

Big and spaced unloading device, SILENCED, for lowering acoustic pressure to dB 77. Aluminium body, synthetic material coated.

High-frequency rotation with limited rpm reduction, even under strong pressure. Collet chuck. 6 bar power: KW 0.4.

For tools with shaft Ø	mm	6
Air consumption	l/sec	8
No-load speed	rev/min	22000
Length	mm	175
Noise level	dB	77
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	0,6

<b>1719G 2</b>	Each	<b>217,00</b>
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For tools with shank Ø mm 3 - see Art. 8148 A - G. Operating pressure: Atm 6,3

Spare collets Ø 6mm, for Art. 1719 G/2.

<b>O1719G 2</b>	Each	<b>28,90</b>
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**PNEUTEC**  
 DRUCKLUFTWERKZEUGE

**1719G 2**

**Prod. Pneutec - Art. UT8710 D**

Stylus type, professional use.

High-frequency rotation with limited rpm reduction, even under strong pressure.

Particularly handy for use of light alloys. Collet chuck.

6 bar power: KW 0.2.

For tools with shaft Ø	mm	6
Air consumption	l/sec	4,6
No-load speed	rev/min	25000
Length	mm	165
Noise level	dB	79
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	0,5

<b>1719GC</b>	Each	<b>187,00</b>
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Operating pressure: Atm 6,3.

Spare collets Ø 6mm, for Art. 1719 GC.

<b>O1719GC 1</b>	Each	<b>36,80</b>
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Additional collets Ø 3mm, for Art. 1719 GC.

<b>O1719GC 2</b>	Each	<b>33,10</b>
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**PNEUTEC**  
 DRUCKLUFTWERKZEUGE

**1719GC**

**7**
**Prod. Pneutec - Art. UT 8712 A**

Stylus type.

Small, for industrial use. Big and spaced unloading device.

Very high-frequency rotation with limited rpm reduction, even under strong pressure. Particularly handy. Collet chuck.

For tools with shaft Ø	mm	3
Air consumption	l/sec	0,6
No-load speed	rev/min	54000
Length	mm	150
Noise level	dB	72
Vibrations	m/s <sup>2</sup>	< 2,5
Weight	Kg	0,2

<b>1719GF</b>	Each	<b>319,00</b>
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Operating pressure: Atm 6,3

Spare collets Ø 3mm, for Art. 1719 GF.

<b>O1719GF</b>	Each	<b>18,60</b>
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**PNEUTEC**  
 DRUCKLUFTWERKZEUGE

**1719GF**


## AIR ROTARY DIE GRINDERS

### 1719GP **PNEUTEC** DRUCKLUFTWERKZEUGE

new



#### Prod. Pneutec - Art. UT 5715

Corner model.

Low air consumption.

High manoeuvrability and comfort, body made from extremely sturdy composite material. Air outlet on the side/back which can be rotated 360°.

Collet chuck.

For tools with shaft Ø	mm	6
Air consumption	l/sec	2,3
No-load speed	rev/min	20000
Length	mm	165
Noise level	dB	79
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	0,5

<b>1719GP</b>	<b>Each</b>	<b>187,00</b>
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Operating pressure Atm 6,3.

For spare pliers see Art. O1719 GS.

### 1719GS **PNEUTEC** DRUCKLUFTWERKZEUGE



#### Prod. Pneutec - Art. UT 8723

Angular type.

Big and spaced unloading device, SILENCED, for lowering the acoustic pressure to dB 77. Aluminium body, synthetic material coated. Collet chuck.

For tools with shaft Ø	mm	6
Air consumption	l/sec	8
No-load speed	rev/min	22000
Length	mm	165
Noise level	dB	77
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	0,6

<b>1719GS</b>	<b>Each</b>	<b>198,00</b>
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Operating pressure: Atm 6,3.

Spare collets Ø 6mm. For Art. 1719 GP and 1719 GS.

<b>O1719GS</b>	<b>Each</b>	<b>28,90</b>
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### 1719GT **PNEUTEC** DRUCKLUFTWERKZEUGE



#### Prod. Pneutec - Art. UT 8713

Angular type.

Restricted size, industrial type, ideal when working in confined spaces. Extremely high frequency rotation with low rev loss, even when the tool is under considerable pressure. Particularly easy to handle. Collet chuck.

Head width 20mm, head height 44mm, Ø body 19mm.

For tools with shaft Ø	mm	3
Air consumption	l/sec	0,4
No-load speed	rev/min	70000
Length	mm	150
Noise level	dB	77
Vibrations	m/s <sup>2</sup>	< 2,5
Weight	Kg	0,2

<b>1719GT</b>	<b>Each</b>	<b>243,00</b>
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Operating pressure Atm 6,3.

### 1720GA **PNEUTEC** DRUCKLUFTWERKZEUGE



#### Prod. Pneutec - Art. UT 8750 M

Angular type.

With horizontal disk and protection. For cutting and grinding metals. Light alloy body with double handle for perfect balancing. Silenced side air discharge. Switch with safety lever.

M14 threaded pin with flange for holes Ø 22mm.

For wheels Ø/bore	mm	115-125/22
Air consumption	l/sec	10,8
No-load speed	rev/min	12000
Noise level	dB	82,9
Vibrations	m/s <sup>2</sup>	5,1
Air drive	inches	1/4
Weight	Kg	2

<b>1720GA</b>	<b>Each</b>	<b>469,00</b>
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For spare grinding wheels and sanding disks hole 22mm, see SONNENFLEX program. For steel brushes, M14 hole see from art. 1819 S to 1822 L. Operating pressure: Atm 6,3.

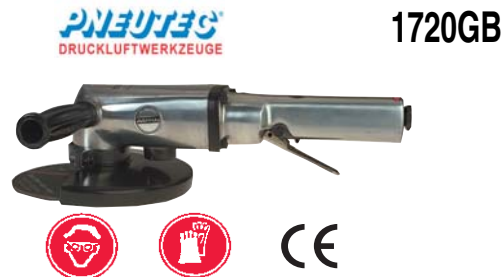
**Prod. Pneutec - Art. UT 8754 A**

Product description as Art. 1720GA

5/8 threaded pin with flange for holes Ø 22mm.

For wheels Ø/bore	mm	178/22
Air consumption	l/sec	19
No-load speed	rev/min	7000
Noise level	dB	90
Vibrations	m/s <sup>2</sup>	6,2
Air drive	inches	1/4
Weight	Kg	3

**1720GB** Each **556,00**



For spare grinding wheels and sanding disks hole 22mm, see SONNENFLEX program. Operating pressure: Atm 6,3.

**ANGULAR AIR POLISHERS**

**Prod. Pneutec - Art. UT 5752 M**

For dry cleaning and polishing metals, wood, plastic, etc. With synthetic pad Ø 178mm and M14 threaded shank. Light alloy body and double handle for perfect balancing. Silenced side air discharge.

For hoods Ø	mm	178
Air consumption	l/sec	9
No-load speed	rev/min	2400
Noise level	dB	94,5
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	2,3

**1724G** Each **271,00**



Operating pressure: Atm 6,3. Product running out of stock.

Synthetic leather caps Ø 178mm, for Art. 1724 G.

**O1724GA** Each **40,50**

Product running out of stock.

Sponge polishing buffer Ø 160mm, for Art. 1724 G.

**O1724GB** Each **39,40**

Product running out of stock.

**AIR BELT SANDERS**

**Prod. Pneutec - Art. UT 8765 A**

For dry smoothing metals, wood, plastic, etc. in difficult to access areas.

360° rotating arm with lock for easy and safe belt changing. Pistol grip handle. Particularly handy for use of light alloys.

Belt dimensions	mm	520x20
Air consumption	l/sec	4
No-load speed	rev/min	11000
Belt speed	m/min	1895
Noise level	dB	87,2
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	0,8

**1725G** Each **526,00**



Operating pressure: Atm 6,3.

Sanding belts Size 60, for Art. 1725 G.

**O1725GA** Each **4,34**

Spare sanding belts Size 80, for Art. 1725 G.

**O1725GB** Each **4,34**

Spare sanding belts Size 100, for Art. 1725 G.

**O1725GC** Each **4,34**

**ASSORTMENT OF AIR CHIPPING HAMMERS**

**Prod. Pneutec - Art. UT 8613 S**

For light-duty works.

With continuous adjustment of stroke frequency according to the thickness of the different materials, Maximum reliability for its few moving parts.

Hammer with 3 chisels Art. 2948 G/A-B-C. In case.

Hexagon drive for tools	mm	10
Air consumption	l/sec	2,5
Strikes per minute		3300
Length	mm	203
Noise level	dB	96,3
Vibrations	m/s <sup>2</sup>	13,8
Air drive	inches	1/4
Weight	Kg	3,5

**1727G** Each **206,00**



For chisels see from Art. 2948 GA to M. Operating pressure: Atm 6,3

### AIR CHIPPING HAMMERS

#### 1727GM **PNEUTEC** DRUCKLUFTWERKZEUGE



#### Prod. Pneutec - Art. UT 8613 B

Product description as Art. 1727G

Percussion hammer only, with hexagonal shank.

Hexagon drive for tools	mm	10
Air consumption	l/sec	2,5
Strikes per minute		3300
Length	mm	203
Noise level	dB	96,3
Vibrations	m/s <sup>2</sup>	13,8
Air drive	inches	1/4
Weight	Kg	1,6

**1727GM** Each **161,00**

For chisels see from Art. 2948 GA to M. Operating pressure: Atm 6,3.

#### 1727GP **PNEUTEC** DRUCKLUFTWERKZEUGE



#### Prod. Pneutec - Art. UT 13 FHM

For heavy-duty and non-stop works.

Hexagon drive for tools	mm	10,5
Air consumption	l/sec	4
Strikes per minute		4400
Length	mm	200
Noise level	dB	103,6
Vibrations	m/s <sup>2</sup>	14,3
Air drive	inches	1/4
Weight	Kg	1,3

**1727GP** Each **733,00**

For chisels see from Art. 2948 GP to Z. Operating pressure: Atm 6,3.

### AIR CHIPPING NEEDLES HAMMERS

#### 1728G **PNEUTEC** DRUCKLUFTWERKZEUGE



#### Prod. Pneutec - Art. UT 8610

Stylus type, reinforced.

Suitable for rapid scraping of rusty, painted surfaces, etc.

Chipping hammer with needle set, with terminal with a chisel.

Number of needles		12
Needle Ø	mm	3
Air consumption	l/sec	1,4
Strokes/minute		3800
Length	mm	343
Noise level	dB	97,4
Vibrations	m/s <sup>2</sup>	3,7
Air drive	inches	3/8
Weight	Kg	1,6

**1728G** Each **424,00**

Operating pressure: Atm 6,3.

Set of spare needles for Art. 1728 G (12 pcs).

Cylindrical shape with chisel-shaped end.

**O1728G** Per set **19,20**

Product description as Art. O1728G

Cylindrical shape with pointed end.

**O1728G 1** Per set **19,20**

#### 1728GE **PNEUTEC** DRUCKLUFTWERKZEUGE



#### Prod. Pneutec - Art. 2BPG

Pistol type, reinforced.

Suitable for rapid scraping of rusty, painted surfaces, etc.

Chipping hammer with needle set, with terminal with a chisel.

Number of needles		19
Needle Ø	mm	3
Air consumption	l/sec	2,6
Strokes/minute		3000
Length	mm	315
Noise level	dB	100,3
Vibrations	m/s <sup>2</sup>	10,2
Air drive	inches	3/8
Weight	Kg	2,6

**1728GE** Each **499,00**

Operating pressure: Atm 6,3.

Set of spare needles for Art. 1728 GE (19 pcs.).

Cylindrical shape with chisel fitting

**O1728GE** Per set **30,40**

Product description as Art. O1728GE

Cylindrical shape with pointed end.

**O1728GE 1** Per set **30,40**

**Prod. Pneutec - Art. 3BPG**

Pistol type, reinforced.  
Suitable for rapid scraping of rusty, painted surfaces, etc.  
Chipping hammer with needle set, with terminal with a chisel.

Number of needles		28
Needle Ø	mm	3
Air consumption	l/sec	3,8
Strokes/minute		2200
Length	mm	342
Noise level	dB	101,5
Vibrations	m/s <sup>2</sup>	19,2
Air drive	inches	3/8
Weight	Kg	3,7
<b>1728GL</b>	<b>Each</b>	<b>537,00</b>

Operating pressure: Atm 6,3.

Set of spare needles for Art. 1728 GL (28 pcs.).  
Cylindric shape with chisel fitting

<b>O1728GL</b>	<b>Per set</b>	<b>44,90</b>
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Product description as Art. O1728GL  
Cylindrical shape with pointed end.

<b>O1728GL 1</b>	<b>Per set</b>	<b>44,90</b>
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Supplied on request, set of cylindrical needles with flat terminals for descalers Art. 1728 G - 1728 GE - 1728 GL.



**1728GL**



**AIR HAMMERS**

**Prod. Pneutec - Art. UT 3 DSHP**

Small hand-held model, sturdy, practical, easy to handle.  
Suitable for removing rods, shafts, hinges, screws blocked by rust. Particularly used for repairing vehicles, mechanical workshops, carpentry, etc.  
HARDENED STEEL hammer, metal body.

Hammer Ø	mm	30
Air consumption	l/sec	4
Strokes/minute		0-1000
Length	mm	95
Noise level	dB	83,4
Vibrations	m/s <sup>2</sup>	20
Air drive	inches	1/4
Weight	Kg	0,8
<b>1728GT</b>	<b>Each</b>	<b>319,00</b>

Operating pressure Atm 6,3.



**1728GT**  
*new*



**7**

**Prod. Pneutec - Art. UT 3 DAHP**

Small hand-held model, sturdy, practical, easy to handle.  
Suitable for repairing dents in metal sheets. Particularly used for car frames, carpentry, etc.  
Hammer made of HARD PLASTIC, metal body.

Hammer Ø	mm	30
Air consumption	l/sec	4
Strokes/minute		0-1000
Length	mm	95
Noise level	dB	83,4
Vibrations	m/s <sup>2</sup>	20
Air drive	inches	1/4
Weight	Kg	0,8
<b>1728GV</b>	<b>Each</b>	<b>281,00</b>

Operating pressure Atm 6,3.



**1728GV**  
*new*



**AIR SCREW DRIVERS**

**Prod. Pneutec - Art. UT 8955 A**

Straight type with torque control.  
Adjustable clutch. Reversible operation. 1/4" hex inserts drive. Light alloy construction with steel working parts. Lightweighted and reduced dimensions to be very handy. Blast pipe at the grip lower extremity.

Max torque	Nm	6
Air consumption	l/sec	2
No-load speed	rev/min	1800
Noise level	dB	83,3
Vibrations	m/s <sup>2</sup>	11,8
Air drive	inches	1/4
Weight	Kg	1
<b>1729G 2</b>	<b>Each</b>	<b>243,00</b>

For inserts see Art. 1994 GH to Z. Operating pressure: Atm 6,3.



**1729G 2**



**1729G 2E** **PNEUTEC**  
 DRUCKLUFTWERKZEUGE

1/4"

**Prod. Pneutec - Art. UT 8960**

Straight type with step adjustment of the tightening force by means of the external locking ring installed on the device front side.

Reversible operation. Quick coupling for 1/4" hex inserts drive. Light alloy construction, coating in synthetic material and steel working parts. Lightweighted and reduced dimensions to be very handy. Blast pipe at the grip lower extremity.

Torque	Nm	0,6 to 6
Air consumption	l/sec	1
No-load speed	rev/min	1700
Noise level	dB	77
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	0,8

**1729G 2E** Each **349,00**

For inserts see Art. 1994 GH to Z. Operating pressure: Atm 6,3.

**1729G 2L** **PNEUTEC**  
 DRUCKLUFTWERKZEUGE

1/4"

**Prod. Pneutec - Art. UT 5935**

Pistol-grip type.

Reversible operation. 1/4" hex inserts drive. Light alloy construction with steel working parts.

Lightweighted and reduced dimensions to be very handy. Blast pipe at the grip lower extremity.

Max torque	Nm	6
Air consumption	l/sec	2
No-load speed	rev/min	1800
Noise level	dB	86,8
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	1,2

**1729G 2L** Each **225,00**

For inserts see Art. 1994 GH to Z. Operating pressure: Atm 6,3.

**1729G 3** **PNEUTEC**  
 DRUCKLUFTWERKZEUGE

1/4"

**Prod. Pneutec - Art. UT 5964**

Pistol grip with torque control.

Adjustable clutch. Reversible operation. 1/4" hex inserts drive. Light alloy construction with steel working parts. Lightweighted and reduced dimensions to be very handy. Blast pipe at the grip lower extremity.

Max torque	Nm	6
Air consumption	l/sec	2
No-load speed	rev/min	1800
Noise level	dB	87,1
Vibrations	m/s <sup>2</sup>	3,7
Air drive	inches	1/4
Weight	Kg	1,6

**1729G 3** Each **243,00**

For inserts see Art. 1994 GH to Z. Operating pressure: Atm 6,3.

**1729G 3F** **PNEUTEC**  
 DRUCKLUFTWERKZEUGE

1/4"

**Prod. Pneutec - Art. UT 8963**

Pistol-grip type with step adjustment of the tightening force by means of the external locking ring installed on the device front side.

Reversible operation. Quick coupling for 1/4" hex inserts drive. Light alloy construction, coating in synthetic material and steel working parts. Lightweighted and reduced dimensions to be very handy. Blast pipe at the grip lower extremity.

Torque	Nm	1 to 9
Air consumption	l/sec	1
No-load speed	rev/min	750
Noise level	dB	76
Vibrations	m/s <sup>2</sup>	< 2,5
Air drive	inches	1/4
Weight	Kg	0,9

**1729G 3F** Each **443,00**

For inserts see Art. 1994 GH to Z. Operating pressure: Atm 6,3.

**OILS FOR AIR TOOLS**
**1730G** **ewo**
**Orig. Ewo - Art. 583**

Special synthetic oil for compressed air lubricators of pneumatic tools. While protecting tools it increases their lifetime and performances even in difficult conditions such as high/low temperatures, dirt, etc. It is biological. It does not contain poisonous substances, easy to be disposed of. Supplied in handy 1l bottles, transfer pipe included.

**1730G** Each **15,80**
Viscosity category VG 32 - ISO 3448 (Viscosity 40°C - 32 mm<sup>2</sup>/s).



**COMPRESSED AIR HOSES**

**Prod. SCU**

Coil type made from elastomeric PA 12, particularly flexible and elastic. Maximum pressure 15 atm. Supplied with 1/4" cylindrical thread, male and female.

Ø 8x6mm.

Overall length	m	5	7.5	10	15
<b>1732</b>	Each	9,96	13,50	16,80	24,10

SCU



**1732**

Product description as Art. 1732

Ø 10x8mm.

Overall length	m	7.5	10	15
<b>1732A</b>	Each	17,20	21,80	31,10

SCU



**1732A**

Coil type made from elastomeric PA 12, particularly flexible and elastic. Working pressure 15 bar. Supplied without connectors.

Ø 8x6mm.

Overall length	m	5	7.5	10	15
<b>1733</b>	Each	7,00	10,50	14,00	21,10

SCU



**1733**

Product description as Art. 1733

Ø 10x8mm.

Overall length	m	7.5	10	15
<b>1733 1</b>	Each	14,00	18,70	28,10

SCU



**1733 1**

**COMPRESSED AIR ACCESSORIES FOR HOSES**

**Prod. SCU**

With bayonet coupling.

For pipes Ø 8x6mm.

<b>1733A</b>	Each	1,72
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SCU



**1733A**

Product description as Art. 1733A

For pipes Ø 10x8mm.

<b>1733A 1</b>	Each	1,80
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SCU



**1733A 1**

With quick release coupling.

For pipes Ø 8x6mm.

<b>1733B</b>	Each	1,82
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SCU



**1733B**

Product description as Art. 1733B

For pipes Ø 10x86mm.

<b>1733B 1</b>	Each	1,90
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SCU



**1733B 1**

**COMPRESSED AIR HOSES**

**Prod. SCU**

Coil-type in POLYURETHANE, high quality and high tightness. Abrasion resistant and oil-proof. Undeformable, long lasting. Straight ends make it easier to use. Operating pressure 10 bar.

Max overall length: 8m. Without couplings.

Pipe Ø	mm	10x6.5	12x8	16x11
<b>1733E</b>	Each	38,90	47,50	82,40

SCU



**1733E**

**COMPRESSED AIR ACCESSORIES FOR POLYURETHANE HOSES**

**Prod. SCU**

Quick cocks for polyurethane pipe (non Rilsan), in high quality heavy nickel-plated brass for high performances. Compatible with the most common European couplings. Pipe blocking through conical shank and locking nut.

For pipes Ø	mm	10x6.5	12x8	16x11
<b>1733F</b>	Each	42,30	43,20	47,40

SCU



**1733F**

Quick couplings for polyurethane pipe (non Rilsan), in high quality heavy nickel-plated brass for high performances. Compatible with the most common European couplings. Pipe blocking through conical shank and locking nut.

For pipes Ø	mm	10x6.5	12x8	16x11
<b>1733G</b>	Each	15,70	18,20	26,90

SCU



**1733G**

**BALANCERS FOR TOOLS**
**1733S SCU**

**Prod. SCU**

Light and compact model. Housing in sturdy unbreakable glass fibers. Steel cable, hole and hook. Cable grasp tension adjusting grip knob.

Size		<b>1</b>
Balanceble min weight	Kg	1
Balanceble max weight	Kg	3
Cable length	m	1,1
<b>1733S</b>	<b>Each</b>	<b>40,90</b>

**1733T SCU**


With optimized weights. Housing in sturdy unbreakable metal body. Steel cable, hole and hook. Cable grasp tension adjusting grip knob.

Size		<b>0,5</b>	<b>1</b>	<b>2,5</b>
Balanceble min weight	Kg	0,5	1	2,5
Balanceble max weight	Kg	1,5	3	5
Cable length	m	1	1,3	1,3
<b>1733T</b>	<b>Each</b>	<b>59,20</b>	<b>79,30</b>	<b>91,20</b>

The body of size 0.5 is in plastic.  
Product running out of stock.

**7 1734 SCU**


1734-Gr. 00 - 0 - 1 - 1A: professional type. Housing in sturdy unbreakable NYLON.  
1734-Gr. 1P - 2 - 3 - 3A - 4 - 5: industrial type. Housing in robust aluminium alloy.  
STAINLESS steel cable, hole and snap ring. Cable grasp tension adjusting grip knob.

Size		<b>00</b>	<b>0</b>	<b>1</b>	<b>1A</b>	<b>1P</b>	<b>2</b>	<b>3</b>
Balanceble min weight	Kg	0,2	0,4	1	2	1	2	4
Balanceble max weight	Kg	0,5	1	2	3	2,5	4	6
Cable length	m	1,6	1,6	1,6	1,6	2	2	2
<b>1734</b>	<b>Each</b>	<b>51,70</b>	<b>52,80</b>	<b>57,20</b>	<b>61,60</b>	<b>129,00</b>	<b>146,00</b>	<b>169,00</b>

Size		<b>3A</b>	<b>4</b>	<b>5</b>
Balanceble min weight	Kg	6	8	10
Balanceble max weight	Kg	8	10	14
Cable length	m	2,5	2,5	2,5
<b>1734</b>	<b>Each</b>	<b>200,00</b>	<b>225,00</b>	<b>254,00</b>

Balances with locking devices and ATEX approved balancers are available on request.

**1735 SCU**


Type with polyurethane feeding tube, internal Ø 6mm, for compressed air tools. Body made of sturdy aluminum alloy. Stroke: 1350mm - Max operating pressure: 8 bar.

Max. operational temperature: 50°C - 1/4 Gas.

Cable grasp tension adjusting grip knob and safety suspension.

Size		<b>0</b>	<b>1</b>	<b>2</b>
Balanceble min weight	Kg	0,4	0,75	1,2
Balanceble max weight	Kg	0,8	1,5	2,5
<b>1735</b>	<b>Each</b>	<b>178,00</b>	<b>185,00</b>	<b>188,00</b>

**AIR HOSES**
**Prod. SCU**

Type in flexible wire polyurethane, 90 shore.  
 Industrial use with any compressor and pneumatic tool.  
 100m rolls approx., non-cuttable. Operating pressure: 20bar.  
 Int Ø for ext. mm

		6,5x10	8x12	11x16
<b>1736A</b>	Per meter	2,34	3,26	5,36

**SCU**

**1736A**

Rubber type with black reinforcement and cover.  
 Operational temperature: -15°C +60°C. Applications: any compressors and pneumatic tools.  
 Precut length: 100m rolls approx Operating pressure: 20bar.

		6x14	8x17
<b>1736B</b>	Per meter	2,18	3,02

**SCU**

**1736B**

Very flexible type in transparent PVC reinforced with high resistance polyester insert. Non-toxic version in conformity with the Italian Min. Dec. of 21/3/73 and further amendments.  
 Operating temperature -15 °C +60 °C. To be used with any compressor and pneumatic tool, even in food industry.

Int Ø for ext.	mm	6x12	8x14	10x15	13x18
Indivisible rolls length approx.	m	200	100	100	100
Operating pressure:	bar	20	20	15	12
<b>1736F</b>	Per meter	1,32	1,70	1,80	1,98

**SCU**

**1736F**
**7**
**COMPRESSOR HOSE DRUMS**
**Prod. SCU**

Type with 20m of hose Ø 6/12mm in PVC reinforced with synthetic fibers. Operating pressure up to 15bar. Metallic support, transport handle and drum in special plastic material, unbreakable. With two outlets.

<b>1736G</b>	Each	62,50
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**SCU**

**1736G**

Professional type, wall-fixing and axial connection for easy rolling/unrolling also while working. Supplied with 20m of hose Ø 9/15mm in PVC reinforced with synthetic fibers, working pressure up to 15 bar. Steel pipe support, with hooks and drum in special plastic material, unbreakable. Metal quick couplings.

<b>1737G</b>	Each	97,10
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**SCU**


also wall hanging

**1737G**

**AUTOMATIC HOSE REELS**
**1739** **SCU**  
*new*

**Prod. SCU**

Universal model, closed, for cold air and water, made from strong plastic. Automatic winding of the tube with the chance to stop at the desired length. Swivel wall support for optimal orientation. Polyurethane hose, compression resistant and highly flexible for operating pressures up to 12 bar. Air inlet/outlet G 1/4.

Pipe length	mm	<b>6</b>	<b>10</b>
Int./ext. pipe Ø	mm	8/12	8/12
<b>1739</b>	<b>Each</b>	<b>78,90</b>	<b>112,00</b>

**1740** **SCU**


Professional type, closed, for air only, in stamped sheet steel with epoxy paint coating for highest protection. Automatic rolling-up of the hose and possibility to stop at the desired length. Rotating wall bracket assures change of direction. Reinforced polyurethane hose with texture braids for operating pressures up to 20bar, length: 5m, Ø 8/11mm. Provided with air inlet hose fitting, air outlet G. 1/4 M. Weight: 3Kg.

<b>1740</b>	<b>Each</b>	<b>210,00</b>
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**1742** **SCU**


Industrial type, closed, for air only, in stamped sheet steel with epoxy paint coating for highest protection. Automatic rolling-up of the hose and possibility to stop at the desired length. Rotating wall bracket assures change of direction. Reinforced polyurethane hose with texture braids for operating pressures up to 20bar, length: 10m, Ø 8/12mm. Air inlet G 3/8 F, air outlet G. 1/4 M. Weight: 8Kg.

<b>1742</b>	<b>Each</b>	<b>302,00</b>
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**1744** **SCU**


Industrial type, open, for air and water, in stamped sheet steel with epoxy paint coating for highest protection. Automatic rolling-up of the hose and possibility to stop at the desired length. Fixed wall bracket. Special rubber hose for operating pressures up to 18bar, length: 15m, Ø 8/14mm. Air inlet G 3/8 F, air outlet G. 3/8 M. Weight: 8Kg. Without revolving support.

<b>1744</b>	<b>Each</b>	<b>594,00</b>
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Adjustable support for hose reels Art. 1744.

<b>O1744A</b>	<b>Each</b>	<b>50,70</b>
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**TOOLMAKERS BRUSHES**
**1798A** **SCU**

**Prod. SCU**

Corrugated steel wire with a diameter of 0.10 mm. Shank with a diameter of 3.17 mm. Particularly suitable for moulding devices, fine mechanics, etc max. speed of 2,000 rev/min. Disk shaped.

Ø	mm	<b>19</b>	<b>25</b>	<b>28</b>	<b>38</b>
<b>1798A</b>	<b>Each</b>	<b>0,82</b>	<b>0,94</b>	<b>0,94</b>	<b>1,14</b>

Corrugated steel wire with a diameter of 0.10 mm. Shank with a diameter of 3.17 mm (only size 5 shank has diameter of 3 mm)

Particularly suitable for moulding devices, fine mechanics, etc max. speed of 2,000 rev/min.

Pen shaped.

Ø	mm	5	6	8
<b>1798B</b>	Each	0,82	0,82	0,82

SCU



**1798B**

Corrugated steel wire with a diameter of 0.10 mm. Shank with a diameter of 3 mm.

Particularly suitable for moulding devices, fine mechanics, etc max. speed of 2,000 rev/min.

Cup shaped.

Ø	mm	12
<b>1798E</b>	Each	0,82

SCU



**1798E**

**STEEL AND BRASS BRUSHES**

**Prod. SCU**

Type with steel hardened and twisted wire Ø 0.40mm, with cylindrical shaft Ø 6mm.

Ø	mm	75	100
Thickness	mm	10	12
<b>1800A</b>	Each	12,80	13,40

SCU



**1800A**

Wheel brushes in high resistance HSS ondulated steel wire, with cylindrical shaft Ø 6mm.

Ø and thickness	mm	30x6	30x10	40x6	40x10	50x6	50x10	60x10
wires Ø	mm	0,20	0,20	0,20	0,20	0,20	0,20	0,30
<b>1800G</b>	Each	3,24	4,56	3,94	4,74	3,06	4,96	4,34

Ø and thickness	mm	70x10	80x15
wires Ø	mm	0,30	0,30
<b>1800G</b>	Each	5,14	7,36

SCU



**HSS 1800G**

7

Wheel brushes in STAINLESS steel wire, with cylindrical shaft Ø 6mm.

Ø and thickness	mm	30x10	40x10	50x10	60x10	70x10	80x15
wires Ø	mm	0,20	0,20	0,20	0,30	0,30	0,30
<b>1802G</b>	Each	5,20	5,92	6,24	6,28	6,64	10,30

SCU



**INOX 1802G**

Wheel brushes in ondulated brass wire, with cylindrical shaft Ø 6mm.

Ø and thickness	mm	30x10	40x10	50x10	60x10	70x10	80x15
wires Ø	mm	0,20	0,20	0,20	0,30	0,30	0,30
<b>1803G</b>	Each	5,34	6,72	6,72	6,64	8,08	12,60

SCU



**BRASS 1803G**

Narrow brushes in high resistance HSS ondulated steel wire Ø 0.30mm, with cylindrical shaft Ø 6mm,

Ø	mm	11	16	22	28
Overall length	mm	65	70	70	75
<b>1804G</b>	Each	3,24	3,78	5,02	7,54

SCU



**HSS 1804G**

## 1806G SCU



INOX

Narrow brushes in STAINLESS steel wire Ø 0.30mm with cylindrical shaft Ø 6mm.

Ø	mm	11	16	22	28
Overall length	mm	65	70	70	75
<b>1806G</b>	Each	<b>3,42</b>	<b>4,66</b>	<b>5,74</b>	<b>8,98</b>



## 1807G SCU



BRASS

Narrow brushes in ondulated brass wire Ø 0.30mm, with cylindrical shaft Ø 6mm.

Ø	mm	11	16	22	28
Overall length	mm	65	70	70	75
<b>1807G</b>	Each	<b>3,60</b>	<b>4,30</b>	<b>7,00</b>	<b>9,86</b>



## 1808G SCU



HSS

Mushroom-shaped brushes in high resistance HSS ondulated steel wire Ø 0.30mm, with cylindrical shaft Ø 6mm.

Ext. Ø	mm	50	70
Body Ø	mm	22	28
<b>1808G</b>	Each	<b>8,44</b>	<b>10,80</b>



## 1809G SCU



BRASS

Mushroom-shaped brushes in ondulated brass wire Ø 0.30mm, with cylindrical shaft Ø 6mm.

Ext. Ø	mm	50	70
Body Ø	mm	22	28
<b>1809G</b>	Each	<b>10,40</b>	<b>13,90</b>



## 1810G SCU



HSS

Cap brushes in high resistance HSS ondulated steel wire Ø 0.30mm, with cylindrical shaft Ø 6mm.

Ext. Ø	mm	50	75
<b>1810G</b>	Each	<b>4,30</b>	<b>5,38</b>



## 1812G SCU



INOX

Cap brushes in STAINLESS steel wire Ø 0.30mm, with cylindrical shaft Ø 6mm.

Ext. Ø	mm	50	75
<b>1812G</b>	Each	<b>7,10</b>	<b>9,32</b>



## 1813G SCU



BRASS

Cap brushes in ondulated brass wire Ø 0.30mm, with cylindrical shaft Ø 6mm.

Ext. Ø	mm	50	75
<b>1813G</b>	Each	<b>7,54</b>	<b>12,20</b>



**STEEL BRUSHES**
**Prod. SCU**

Disc model with brass-plated steel wire, corrugated and centre hole. Wires Ø 0.30mm.

Ø and thickness	mm	120x20	150x20	200x20	200x28
Bore Ø	mm	16	16	20	20
<b>1814A</b>	<b>Each</b>	<b>9,32</b>	<b>12,30</b>	<b>14,60</b>	<b>19,20</b>

**SCU**

**1814A**  
*new*


Wheel brushes in high resistance HSS ondulated steel wire Ø 0.30mm, with central hole.

Ø and thickness	mm	80x18	100x17	100x24	125x25	150x25	150x30	200x30
Bore Ø	mm	13	16	16	16	16	16	20
<b>1814G</b>	<b>Each</b>	<b>10,30</b>	<b>11,10</b>	<b>15,50</b>	<b>15,50</b>	<b>20,10</b>	<b>27,50</b>	<b>28,40</b>

Ø and thickness	mm	200x50	250x30	250x60	300x45	300x60
Bore Ø	mm	20	25	25	30	30
<b>1814G</b>	<b>Each</b>	<b>51,10</b>	<b>58,90</b>	<b>108,00</b>	<b>86,50</b>	<b>115,00</b>

**SCU**

**HSS 1814G**


Wheel brushes in STAINLESS steel wire, with hole.

Ø and thickness	mm	150x25	150x30	200x30	200x40	250x30	250x40
Bore Ø	mm	16	16	20	20	25	25
<b>1816G</b>	<b>Each</b>	<b>32,10</b>	<b>43,10</b>	<b>43,10</b>	<b>63,20</b>	<b>93,10</b>	<b>134,00</b>

**SCU**

**INOX 1816G**


Wheel brushes with steel hardened and twisted wire Ø 0.50mm, with hole.

Ø	mm	150	200	250	300
Bore Ø	mm	16	20	25	30
Thickness	mm	18	30	30	30
<b>1818</b>	<b>Each</b>	<b>53,20</b>	<b>67,90</b>	<b>119,00</b>	<b>133,00</b>

**SCU**

**1818**


Wheel brushes with steel hardened and twisted wire Ø 0.40mm. With threaded hole M14.

Ø	mm	115
Thickness	mm	11
<b>1819A</b>	<b>Each</b>	<b>18,20</b>

**SCU**

**1819A**


## 1819E

SCU



Wheel brushes with steel hardened and twisted wire Ø 0.50mm. With hole 22,2mm.

Ø	mm	115	150	180
Thickness	mm	11	11	11
<b>1819E</b>	<b>Each</b>	<b>19,80</b>	<b>26,50</b>	<b>36,70</b>

## 1819S

SCU



Brushes, conic-disc type with brass plated steel (only Ø 150mm in phosphate steel) ondulted wire Ø 0.30mm. With threaded hole M14.

Ø	mm	95	120	150
<b>1819S</b>	<b>Each</b>	<b>6,40</b>	<b>7,28</b>	<b>12,80</b>

## 1819T

SCU



Brushes, conic-disc type with brass plated steel (only Ø 150mm in phosphate steel) ondulted wire Ø 0.30mm. With threaded hole M14.

Ø	mm	95	120	150
<b>1819T</b>	<b>Each</b>	<b>11,10</b>	<b>12,40</b>	<b>21,90</b>

Alternatively, it can be supplied in bronzed steel.

## 1820GA

SCU



Cup brushes in HSS ondulated steel wire Ø 0.30mm. With threaded hole M14.

Ø	mm	65	100	150
<b>1820GA</b>	<b>Each</b>	<b>7,72</b>	<b>25,10</b>	<b>45,60</b>

HSS

## 1820GE

SCU



Cup brushes in STAINLESS steel ondulated wire Ø 0.30mm. With threaded hole M14.

Ø	mm	65	100	150
<b>1820GE</b>	<b>Each</b>	<b>12,10</b>	<b>31,60</b>	<b>58,50</b>

INOX

## 1820L

SCU



Brushes, conic-disc type with brass plated steel (only Ø 150mm in phosphate steel) ondulted wire. With threaded hole M14.

Ø	mm	70	100	120	150
wires Ø	mm	0,30	0,30	0,40	0,40
<b>1820L</b>	<b>Each</b>	<b>5,24</b>	<b>9,62</b>	<b>14,10</b>	<b>20,40</b>



Brushes, conic-disc type with brass plated steel (only Ø 150mm in phosphate steel) ondulted wire. With hole 22.2mm.

Ø	mm	80	100	120	150
wires Ø	mm	0,30	0,30	0,40	0,40
<b>1820P</b>	<b>Each</b>	<b>8,44</b>	<b>8,66</b>	<b>12,50</b>	<b>18,70</b>


**1820P**


Cup brushes with HSS steel twisted wire Ø 0.50mm. With threaded hole M14.

Ø	mm	65	90	120
<b>1822G</b>	<b>Each</b>	<b>13,70</b>	<b>40,70</b>	<b>52,40</b>


**HSS 1822G**


Cup brushes with phosphate steel twisted wire, Ø 0.50mm (Ø 75mm with wire Ø 0.40). With threaded hole M14.

Ø	mm	75	100	120
<b>1822L</b>	<b>Each</b>	<b>9,60</b>	<b>23,30</b>	<b>26,20</b>


**1822L**

Alternatively, it can be supplied in bronzed steel.



Cup brushes with phosphate steel twisted wire Ø 0.50mm. With hole 22.2mm.

Ø	mm	80	100	120
<b>1823L</b>	<b>Each</b>	<b>20,10</b>	<b>21,90</b>	<b>24,80</b>


**1823L**

Alternatively, it can be supplied in bronzed steel.



### STEEL BRUSHES WITH SYNTHETIC BINDER

**Prod. SCU**

Brushes with HSS steel wire Ø 0.30mm, with synthetic binder increasing brush performances. Treatment aiming at avoiding steel wire breaking and assuring to the operator safer working conditions.

Wheel brushes, with cylindrical shaft Ø 6mm. Speed: 15000 r.p.m.

Ø	mm	40	50	60	70
Thickness	mm	6	10	10	10
<b>1830G</b>	<b>Each</b>	<b>11,90</b>	<b>19,40</b>	<b>19,40</b>	<b>20,70</b>


**HSS 1830G**


Brushes with HSS steel wire Ø 0.30mm, with synthetic binder increasing brush performances. Treatment aiming at avoiding steel wire breaking and assuring to the operator safer working conditions.

Narrow brushes, with cylindrical shaft Ø 6mm. Speed: 15000 r.p.m.

Ø	mm	22	28
Overall length	mm	70	75
<b>1832G</b>	<b>Each</b>	<b>13,10</b>	<b>13,70</b>


**HSS 1832G**


**ABRASIVE NYLON BRUSHES**
**1832GA SCU**

**Prod. SCU**

Abrasive grit covering resistant nylon filaments allows deburring, cleaning, polishing, non metallic and metallic surface finishing. Grade 80 (red) with more aggressive abrasive for deburring. Grade 150 (grey) with less aggressive abrasive for cleaning and polishing operations. Speed: 4500 r.p.m. Wheel brush, with cylinder shaft Ø 6mm.

Grade 80.

Ø	mm	75	100
Thickness	mm	10	10
<b>1832GA</b>	<b>Each</b>	<b>7,54</b>	<b>9,14</b>

**1832GB SCU**


Product description as Art. 1832GA

Wheel brush, with cylinder shaft Ø 6mm.

Grade 150.

Ø	mm	75	100
Thickness	mm	10	10
<b>1832GB</b>	<b>Each</b>	<b>7,54</b>	<b>9,14</b>

**1832GC SCU**


Abrasive grit covering resistant nylon filaments allows deburring, cleaning, polishing, non metallic and metallic surface finishing. Grade 80 (red) with more aggressive abrasive for deburring. Grade 150 (grey) with less aggressive abrasive for cleaning and polishing operations. Speed: 18000 r.p.m.

Narrow brush, with cylinder shaft Ø 6mm.

Grade 80.

Ø	mm	22
<b>1832GC</b>	<b>Each</b>	<b>7,18</b>

**1832GD SCU**


Product description as Art. 1832GC

Narrow brush, with cylinder shaft Ø 6mm.

Grade 150.

Ø	mm	22
<b>1832GD</b>	<b>Each</b>	<b>7,18</b>

**1832GE SCU**


Abrasive grit covering resistant nylon filaments allows deburring, cleaning, polishing, non metallic and metallic surface finishing. Grade 80 (red) with more aggressive abrasive for deburring. Grade 150 (grey) with less aggressive abrasive for cleaning and polishing operations. Speed: 4500 r.p.m. Cap brush, with cylinder shaft Ø 6mm.

Grade 80.

Ø	mm	50	75
Thickness	mm	6	6
<b>1832GE</b>	<b>Each</b>	<b>7,00</b>	<b>10,80</b>

**1832GF SCU**


Product description as Art. 1832GE

Cap brush, with cylinder shaft Ø 6mm.

Grade 150.

Ø	mm	50	75
Thickness	mm	6	6
<b>1832GF</b>	<b>Each</b>	<b>7,00</b>	<b>10,80</b>

Abrasive grit coated resistant nylon filaments. For deburring, cleaning, polishing of metallic and non-metallic surfaces. Reinforced hub allowing coupling for a larger machining surface.

Grade 80 with very aggressive abrasive for heavy deburring.

Grade 120 with aggressive abrasive for deburring.

Grade 180 with less aggressive abrasive for cleaning.

Grade 320 with polishing abrasive.

Wheel brush, with hole.

Grade 80.

Ø and thickness	mm	125x13	150x15	200x15
Bore	mm	16	16	20
Speed revolutions/min.	No	8000	6000	4500
<b>1833GA</b>	<b>Each</b>	<b>23,50</b>	<b>30,10</b>	<b>53,80</b>

Product description as Art. 1833GA

Wheel brush, with hole.

Grade 120.

Ø and thickness	mm	125x13	150x15	200x15
Bore	mm	16	16	20
Speed revolutions/min.	No	8000	6000	4500
<b>1833GB</b>	<b>Each</b>	<b>23,50</b>	<b>31,60</b>	<b>51,50</b>

Product description as Art. 1833GA

Wheel brush, with hole.

Grade 180.

Ø and thickness	mm	125x13	150x15	200x15
Bore	mm	16	16	20
Speed revolutions/min.	No	8000	6000	4500
<b>1833GC</b>	<b>Each</b>	<b>23,10</b>	<b>30,10</b>	<b>51,70</b>

Product description as Art. 1833GA

Wheel brush, with hole.

Grade 320.

Ø and thickness	mm	125x13	150x15	200x15
Bore	mm	16	16	20
Speed revolutions/min.	No	8000	6000	4500
<b>1833GE</b>	<b>Each</b>	<b>22,80</b>	<b>30,30</b>	<b>46,70</b>



**1833GA**  
**1833GB**  
**1833GC**  
**1833GE**



**125**



**150**



**200**



**CLOTH BRUSHES**

**Prod. SCU**

Wheel brushes made from strong, soft cotton cloth. For polishing. To be used in combination with abrasive pastes Art. 1834 - 1834 A - 1834 B.

Wheel brush, with cylinder shaft Ø 6mm.

Ø and thickness	mm	80x10
<b>1833P</b>	<b>Each</b>	<b>7,44</b>



**1833P**



Product description as Art. 1833P

Wheel brush, with hole.

Ø	mm	150	200	250
Bore Ø	mm	16	20	25
Thickness	mm	12	12	12
<b>1833S</b>	<b>Each</b>	<b>11,70</b>	<b>21,20</b>	<b>41,30</b>



**1833S**



**COTTON WHEELS**

**Prod. SCU**

Port hole with diameter of 19.1 mm, and keyway. Suitable for the most common types of scouring, polishing, and satin finishes. In robust sisal and cotton. Can brush marks on metal and non-abrasive surface, therefore preparing the polish using a soft cotton or felt. Can be used alongside polishing agents (Art. 1834 - 1834 A - 1834 B). You will require a 7 mm disc when shaping 100 x 100 mm sized brushes.

Ø and thickness	mm	100x14
<b>1833T</b>	<b>Each</b>	<b>7,82</b>



**1833T**



For electric finishing machines see Art. 1691 GE.

**1833V SCU**

With connection hole Ø 19.1mm and key slot. Suitable for the most common brands of sanding, polishing and finishing machine. Made of strong, soft cotton. Suitable to polish metals, copper, brass, aluminium, stainless steel, etc.. To be used in combination with abrasive pastes (Art. 1834 - 1834 A - 1834 B). 10 disks are required to form a brush 100x100mm in size.

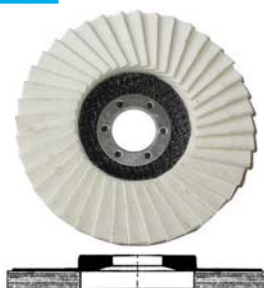
Ø and thickness	mm	100x10	
<b>1833V</b>	Each	<b>4,92</b>	

For electric finishing machines see Art. 1691 GE.

**COTTON WHEELS****1833Z SCU****Prod. SCU**

With M 14 threaded hole. Suitable for the most common brands of sanding machine, polishing machine, etc.. Made of wool felt. Suitable to clean and mirror polish metals, copper, brass, aluminium, stainless steel, etc.. To be used in combination with abrasive pastes (Art. 1834 - 1834 A - 1834 B). Speed 12500 rpm.

Ø	mm	<b>100</b>	<b>115</b>
Thickness	mm	12	12
<b>1833Z</b>	Each	<b>14,40</b>	<b>16,70</b>

**FELT FLAP DISKS****1833ZE SCU****Prod. SCU**

With 22 mm hole. Suitable for the most common types of grinders, polishers, etc... Wool felt with flexible strips to provide a more convenient working shape and to prevent any overheating. For cleaning and polishing metals, copper, brass, aluminium, stainless steel, etc. Can be used alongside polishing agents (Art. 1834 - 1834 A - 1834 B).

Flat profile and fibreglass support.  
Ø 115mm.

<b>1833ZE</b>	Each	<b>6,70</b>
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**FELT FLAP WHEELS****1833ZF SCU****Prod. SCU**

Shank with 6 mm diameter. Wool felt with flexible strips to provide a more convenient working shape and to prevent any overheating. For cleaning and polishing metals, copper, brass, aluminium, stainless steel, etc. Can be used alongside polishing agents (Art. 1834 - 1834 A - 1834 B).

Thickness for all sizes 30mm.

Ø	mm	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>80</b>
<b>1833ZF</b>	Each	<b>3,80</b>	<b>4,28</b>	<b>4,78</b>	<b>5,32</b>	<b>7,32</b>

**GRINDING PASTES****1834 SCU****Prod. SCU**

Supplied in blocks, for machining of non-ferrous metals. To be used with cloth, cotton, sisal, felt, nylon and steel wire brushes, disks and wheels.

Brown/pink paste used for roughing and cleaning of non-ferrous metals.

Weight approx.	grams	800
<b>1834</b>	Each	<b>8,28</b>

**1834A SCU**

Supplied in blocks, for machining of metals, copper, brass, aluminium, stainless steel, etc.. To be used with cloth, cotton, sisal, felt, nylon and steel wire brushes, disks and wheels.

White paste used to metal roughing and pre-cleaning.

Weight approx.	grams	800
<b>1834A</b>	Each	<b>6,44</b>

**1834B SCU**

Product description as Art. 1834A

Light blue paste used to perform metal polishing and brightening.

Weight approx.	grams	800
<b>1834B</b>	Each	<b>8,50</b>

**ABRASIVE NYLON INTERIOR BRUSHES**

**Prod. SCU**

For industrial use, in resistant nylon filament covered with abrasive grit, with steel handle.  
Necessary to debur and clean holes in metal or non-metal materials. Handy or machine application.  
Grade 80.

**SCU**

**1834E  
1834G**

Ø	mm	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>15</b>	<b>20</b>	<b>25</b>
Overall length	mm	125	125	125	125	125	125	125
Useful length	mm	50	50	50	65	65	65	65
Shank Ø	mm	3,5	3,5	3,5	5	5	5	5
<b>1834E</b>	<b>Each</b>	<b>10,40</b>	<b>10,40</b>	<b>9,48</b>	<b>10,40</b>	<b>11,10</b>	<b>12,20</b>	<b>12,20</b>

Ø	mm	<b>30</b>	<b>35</b>	<b>40</b>
Overall length	mm	125	125	125
Useful length	mm	65	65	65
Shank Ø	mm	5	5	5
<b>1834E</b>	<b>Each</b>	<b>12,20</b>	<b>12,20</b>	<b>12,20</b>



Product description as Art. 1834E

Grade 120.

Ø	mm	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>15</b>	<b>20</b>	<b>25</b>
Overall length	mm	125	125	125	125	125	125	125
Useful length	mm	50	50	50	65	65	65	65
Shank Ø	mm	3,5	3,5	3,5	5	5	5	5
<b>1834G</b>	<b>Each</b>	<b>8,98</b>	<b>8,62</b>	<b>7,00</b>	<b>8,44</b>	<b>9,68</b>	<b>12,20</b>	<b>12,20</b>

Ø	mm	<b>30</b>	<b>35</b>	<b>40</b>
Overall length	mm	125	125	125
Useful length	mm	65	65	65
Shank Ø	mm	5	5	5
<b>1834G</b>	<b>Each</b>	<b>12,20</b>	<b>12,20</b>	<b>12,20</b>

**STEEL, BRASS AND NYLON TUBE INTERIOR BRUSHES**

**Prod. SCU**

HSS high resistance steel wire for cleaning holes, tubes, etc. Comes with wooden handle and shaft with double braided wire.

**SCU**

**1834L**

Ø	mm	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>
Brush length	mm	100	100	100	100
Overall length	mm	300	300	300	300
<b>1834L</b>	<b>Each</b>	<b>9,50</b>	<b>9,32</b>	<b>10,40</b>	<b>10,80</b>



**HSS**



**7**

With steel wire to clean holes, pipes, etc. Handle with eyelet.

**SCU**

**1834R**

Ø	mm	<b>10</b>	<b>12</b>	<b>16</b>	<b>20</b>	<b>24</b>	<b>30</b>
Brush length	mm	100	100	100	100	100	100
Overall length	mm	300	300	300	300	300	300
<b>1834R</b>	<b>Each</b>	<b>2,40</b>	<b>2,40</b>	<b>2,40</b>	<b>2,40</b>	<b>2,40</b>	<b>2,40</b>



In brass wire to clean holes, pipes, etc. Handle with eyelet.

**SCU**

**1834S**

Ø	mm	<b>10</b>	<b>12</b>	<b>16</b>	<b>20</b>	<b>24</b>	<b>30</b>
Brush length	mm	100	100	100	100	100	100
Overall length	mm	300	300	300	300	300	300
<b>1834S</b>	<b>Each</b>	<b>2,56</b>	<b>2,56</b>	<b>2,56</b>	<b>2,56</b>	<b>2,56</b>	<b>2,56</b>



**BRASS**



With steel wire to clean holes, pipes, etc. Threaded drive M6.

**SCU**

**1834T**

Ø	mm	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>18</b>
Brush length	mm	100	100	100	100	100
<b>1834T</b>	<b>Each</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>



In brass wire to clean holes, pipes, etc. Threaded drive M6.

**SCU**

**1834V**

Ø	mm	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>18</b>
Brush length	mm	100	100	100	100	100
<b>1834V</b>	<b>Each</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>



**BRASS**



1835

SCU



With brass coating steel wire (only Ø mm 120 - 140 - 150 in steel) to remove pipe and heater deposits, etc.

Threaded drive M12. Length of the brush 100 mm.

Ø	mm	20	25	30	35	40	45	50
1835	Each	4,36	4,36	4,36	4,36	4,36	4,36	4,36
Ø	mm	55	60	65	70	75	80	90
1835	Each	4,36	4,36	4,36	4,36	4,36	4,36	4,96
Ø	mm	100	120	140	150			
1835	Each	4,96	5,68	6,12	6,70			

1835B

SCU



Rigid handle M6, length: 1000mm. For Art. 1834 T.

1835B	Each	5,24
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1835E

SCU



Rigid handle M12, length: 1000mm. For Art. 1835.

1835E	Each	6,04
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1835F

SCU



Flexible handle M12, length: 1000mm. For Art. 1835.

1835F	Each	11,10
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1835H



Flexible handle M12, length: 1000mm. For Art. 1835.

1835H	Each	15,10
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1836G

SCU



Double spiral type.

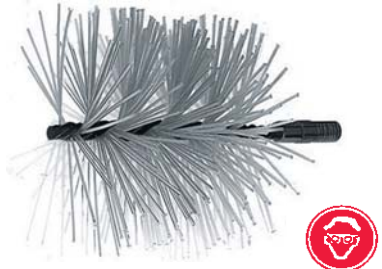
With high resistance steel wire to remove pipe and heater deposits, etc. Suitable to be used in combination with drain cleaners tools Art. 775 GB (Art. 1836G 20-25 excluded).

Ø	mm	20	25	32	38	44	50	57
Brush length	mm	80	80	100	100	100	100	100
Thread drive	inches	3/8	3/8	1/2	1/2	1/2	1/2	1/2
1836G	Each	15,10	17,10	13,70	14,10	14,40	15,10	15,50
Ø	mm	63	69	75	82	88	94	101
Brush length	mm	100	100	100	100	100	100	100
Thread drive	inches	1/2	1/2	1/2	1/2	1/2	1/2	1/2
1836G	Each	14,90	16,20	16,20	17,60	20,10	20,80	19,60

**ABRASIVE NYLON INTERIOR BRUSHES**

1837G

SCU



Prod. SCU

With resistant nylon wire, steel handle.

Suitable to clean pipes, heaters, etc.

Particularly suitable to be used in combination with drain cleaners tools Art. 775 GB.

Ø	mm	80	100	125	150	200	250
Thread drive	inches	1/2	1/2	1/2	1/2	1/2	1/2
1837G	Each	16,40	17,60	19,10	21,10	39,60	47,70

**FLUE BRUSHES HANDLES**

1839G

SCU



Prod. SCU

Flexible handles 3/8 inch, length: 1000mm. For Art. 1836 G 20 - 25.

1839G	Each	15,30
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1840G



Flexible handles 1/2 inch, length: 1000mm. For Art. 1836 G 32 to 101 and Art. 1837 G (all dimensions).

1840G	Each	14,70
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1840GP

SCU



Flexible extensions, length: 1000mm. For handles 3/8 inch. For Art. 1839 G.

1840GP	Each	24,80
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1841G



Flexible extensions, length: 1000mm. For handles 1/2 inch. For Art. 1840 G.

1841G	Each	28,10
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**BRUSH AND GRINDING WHEELS SHAFT**

1841T

SCU



Prod. SCU

Brush and grinding wheel shafts with nut and flange.

Shank Ø	mm	6	8
For rot. tools with bore Ø	mm	10	13
Flange Ø	mm	40	40
1841T	Each	5,48	5,84

**BRUSH SHAFT**

**Prod. SCU**

Brush shafts with nut and washers.

Type		<b>1</b>	<b>3</b>
Shank Ø	mm	6	10
For rot. tools with bore Ø	mm	6	13
<b>1842</b>	Each	<b>12,30</b>	<b>19,60</b>

Product running out of stock.

**SCU**

**1842**



With female drive M14 and flanged pin Ø 13mm.

<b>1842A</b>	Each	<b>19,60</b>
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Product running out of stock.

**SCU**

**1842A**



**INDUSTRIAL BRUSHES**

**Prod. SCU**

270 x 45 mm sized plastic body model with hole for inserting the handle. Black bristles made from synthetic material. Suitable for large areas both indoors and outdoors. Handle not included.

<b>1842P</b>	Each	<b>4,36</b>
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Wooden handles with diameter of 23 mm.

Total length 1,300 m

Suitable for brushes in accordance with Art. 1842 P.

<b>O1842P</b>	Each	<b>3,26</b>
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**SCU**

**1842P**



**PVC WIRE BRUSHES**

**Prod. SCU**

Model with plastic handle.

In feathered PVC wire - Overall length: approx. 280mm

<b>1843P</b>	Each	<b>4,72</b>
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Product description as Art. 1843P

With rigid PVC wire. Overall length: approx. 260mm

<b>1843R</b>	Each	<b>5,28</b>
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**SCU**

**1843P**



**SCU**

**1843R**



**HORSEHAIR BRUSHES**

**Prod. SCU**

Wooden body model. With soft wire in PVC/animal hair brush which is suitable for work benches, selling, drafting machines, etc.

5 rows. Size of brush with handle approx. 350x35mm.

<b>1843S</b>	Each	<b>6,70</b>
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Product description as Art. 1843S

5 rows. Size of brush with handle approx. 500x35mm.

<b>1843T</b>	Each	<b>13,40</b>
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**SCU**

**1843S**



**1843S**



**1843T**

**BRASS WIRE BRUSHES**

**Prod. SCU**

Universal model with plastic handle. Wire Ø 0.30mm.

With undulated brass wire. Overall length: approx. 260mm.

<b>1843Z</b>	Each	<b>5,96</b>
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Curved model. Wooden body. Wire Ø 0.25mm. Overall length 260mm.

4 rows. Ondulated brass wire.

<b>1843ZE</b>	Each	<b>4,66</b>
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**SCU**

**BRASS**

**1843Z**



**SCU**

**BRASS**

**1843ZE**



**STEEL WIRE BRUSHES**

**Prod. SCU**

Universal model with plastic handle. Wire Ø 0.30mm.

With ondulated brass plated steel wire. Overall length: approx. 260mm.

<b>1844A</b>	Each	<b>1,72</b>
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**SCU**

**1844A**





Product description as Art. 1844A  
With ondulated STAINLESS steel wire. Overall length: approx. 260mm.

**1844B** Each **5,68**



Product description as Art. 1844A  
With ondulated brass plated steel wire. Long pattern. Overall length: approx. 360mm.

**1844C** Each **4,96**



Type for round parts with ondulated brass plated steel. Overall length: approx. 290mm.

**1844D** Each **1,46**

Product running out of stock.



Welding model combined with striking points. Plastic bodywork with hole. Smooth steel wire with diameter of 0.40 mm. Total length 240 mm. 2 rows.

**1844T** Each **2,86**



Curved type for foundry and welding use. Wooden body. Smooth steel wire Ø 0.40mm. Total length approx. 290mm.

4 rows.  
**1845A** Each **2,40**



Product description as Art. 1845A  
5 rows.

**1845B** Each **2,62**



Curved type for foundry and welding use. Wooden body. Wavy stainless steel wire Ø 0.30mm. Total length approx. 270mm.

4 rows.  
**1845C** Each **4,66**



Straight cookie-shaped type approx. 190x55mm. Wooden body. Smooth steel wire Ø 0.40mm. 5 rows.

**1845M** Each **3,36**



Shoe-shaped type approx. 210x55mm. Wooden body. Smooth steel wire Ø 0.40mm. 6 rows.

**1845P** Each **3,78**



Rectangular trowel model, with connection for handle, measures 270 x 77 mm. Aluminium body. Corrugated steel wire, brass, diameter of 0.40 mm. 7 rows. Without handle.

**1845R** Each **11,50**

Wooden handles with diameter of 25 mm.  
Total length 1500mm.  
Suitable for scrubbing brush Art. 1845 R.

**Ø1845R** Each **6,30**



Type to clean files and rasps. Brush dimensions handle included: approx. 250x40mm.

**1845S** Each **3,20**

SCU

**1845S**



Professional model which is particularly suitable for cleaning calliper disc brakes. With raised handle, dual-component, narrow brush for areas which are difficult to access. With hook for suspension. 2 rows. Total length 220 mm.

Steel wire, smooth Ø 0.40x25mm, for roughing.

**1845SG** Each **7,18**

SCU

**1845SG**



Product description as Art. 1845SG

Steel wire, smooth Ø 0.35x25mm, for cleaning.

**1845SH** Each **7,18**

SCU

**1845SH**



Universal type with raised handle for small elements and confined spaces. Plastic body. 3 rows. Steel wire Ø 0.35mm. Dimensions of brush with handle 220x20mm.

**1845SL** Each **1,90**

SCU

**1845SL**



Professional model for universal use with raised handle, dual-component large dimensions to provide a stronger and more secure grip. With hook for suspension. 4 rows. Total length 220 mm. Steel wire, smooth Ø 0.35x25mm.

**1845SLE** Each **8,80**

SCU

**1845SLE**



Universal model with raise handle for small bodywork and tight spaces. Aluminium body. 3 rows. Steel wire Ø 0.35mm. Dimensions of brush with handle 220x20mm.

**1845SM** Each **2,48**

SCU

INOX

**1845SM**



Professional model for universal use with raised handle, dual-component large dimensions to provide a stronger and more secure grip. With hook for suspension. 4 rows. Total length 220 mm. Stainless steel wire, wavy Ø 0.35x25mm.

**1845SP** Each **10,10**

SCU

INOX

**1845SP**



Universal model which works well when particularly close to small bodywork and in spaces which are difficult to access. Cast steel body.

1 row. Wavy steel wire. Size of brush with handle approx. 210x6mm.

**1845SPA** Each **4,20**

SCU

**1845SPA**



Product description as Art. 1845SPA

1 row. Wavy stainless steel wire. Size of brush with handle approx. 210x6mm.

**1845SPE** Each **6,46**

SCU

INOX

**1845SPE**



**BRASS WIRE BRUSHES**

Prod. SCU

Type for spark plugs approx. 145x20mm. Plastic body. Brass wire Ø 0.20mm. 3 rows.

**1845T** Each **1,38**

SCU

BRASS

**1845T**



Universal model with raised handle. Aluminium body. 3 rows.

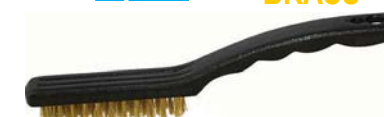
Brass wire Ø 0.20mm. Dimensions of brush with handle 220x20mm.

**1845Z** Each **2,48**

SCU

BRASS

**1845Z**



**1845Z 4**  
*new*

SCU

BRASS



Professional model for universal use with raised handle, dual-component large dimensions to provide a stronger and more secure grip. With hook for suspension. With 4 rows.  
Total length 280 mm.

Brass wire, corrugated  $\varnothing$  0.30x25 mm.

<b>1845Z 4</b>	Each	<b>11,20</b>
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**1845ZA**

SCU

BRASS



Universal model which works well when particularly close to small bodywork and in spaces which are difficult to access. Cast steel body. 1 row.

Brass wire, wavy. Size of brush with handle approx. 210x6mm.

<b>1845ZA</b>	Each	<b>6,46</b>
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### NYLON WIRE BRUSHES

**1845ZL**

SCU

NYLON



Prod. SCU

Product description as Art. 1845ZA

Nylon wire. Size of brush with handle approx. 210x6mm.

<b>1845ZL</b>	Each	<b>4,20</b>
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### BRUSHES FOR BATTERY

**1846**

SCU



Prod. SCU

Combined model to clean terminal batteries.

It consists of a conic flue brush on one extremity and, on the other, a inside wire brush. Plastic handle with cover.

<b>1846</b>	Each	<b>12,20</b>
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### MAGNETIC METAL PICKERS

**7**
**1847A**

SCU



Prod. SCU

Model with round magnetic rod  $\varnothing$  12mm and rubber hand. Provided with a collection tube, removable. Overall length: 290mm. Weight: 0.130Kg, ideal to collect ferrous scrap of small, medium and large size, small items (screws, nails, etc) and to remove ferrous scraps or file dust from machine tools, working benches, vices and tools in general.

<b>1847A</b>	Each	<b>43,90</b>
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Product running out of stock.

**1847B**

SCU



Model with rectangular magnetic rod 20x10mm and rubber hand. Rear knob to move magnets inside the rod to demagnetize materials. Ideal to collect ferrous material of small, medium and large size, small items (screws, nails, etc) and to remove ferrous scraps or file dust from machine tools, working benches, vices and tools in general.

Overall length	mm	<b>270</b>
Magnet force	N	3
Weight	Kg	0,170
<b>1847B</b>	Each	<b>31,30</b>

Product running out of stock.

**1847E**

SCU



Type with 500x100x50h mm magnetic broom, rod and handle length: 1450mm. Weight: 1.5Kg. Knob at the handle extremity to move magnets placed inside the broom to demagnetize debris. 4 wheels installed at the extremities allow easy moving. Ideal to collect ferrous materials on wide areas, large working benches, any kind of floors, etc.

<b>1847E</b>	Each	<b>105,00</b>
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Product running out of stock.

**Orig. Pneutec - Art. ZT 10**

Brush model with 400 mm high durability permanent magnet, with telescopic pole adjustable from 750 to 1050 mm. 2 large wheels at the end allow for easy movement even on particularly dirty surfaces. Ideal for the collection of ferrous materials, of various sizes, on large surfaces, on large workbenches, on all types of flooring etc.

**1847G** Each **130,00**

**PNEUTEC**  
DRUCKLUFTWERKZEUGE



**1847G**  
*new*



**DRESSING TOOLS**

**Prod. SCU**

Set of spare rollers for Art. 1849 G. Hole: Ø 8 mm.

**1849GA** Per set **3,62**

**SCU**



**1849GA**

Steel model.

Complete with set of bushed rollers Ø 30mm.

**1850** Each **18,90**

**SCU**



**1850**



Set of spare rollers, bushed for Art. 1850. Hole Ø 6.5 mm.

**1850 1** Per set **3,10**

**SCU**



**1850 1**

**7**

Set of spare rollers, non-bushed for Art. 1850. Hole Ø 6.5 mm.

**1850A** Per set **1,76**

**SCU**



**1850A**

**DRESSING TOOLS**

**Prod. SCU**

Suitable to grind, profile and dress grinding wheels. With very hard silicon carbide abrasive. Gross grade. Complete with abrasive.

Overall length mm 250  
Abrasive max/min Ø mm 53-44  
**1854** Each **165,00**

**SCU**



**1854**



Spare abrasives for Art. 1854.

**1854A** Each **8,94**

**SCU**



**1854A**

Suitable to grind, profile and dress grinding wheels. With hard silicon carbide grinding wheel. Gross grade. Complete with grinding wheel, 22mm hole.

Wheel Ø mm 90  
Wheel width mm 40  
**1862** Each **220,00**

**SCU**



**1862**



Spare grinding wheels for Art. 1862.

**1862A** Each **16,30**

**SCU**



**1862A**

**DRESSING ROD TOOLS**

1870




Prod. SCU

Suitable to grind, profile and dress grinding wheels.  
Silicon carbide abrasives. Gross grade.

Abrasive Ø	mm	20
Overall length	mm	370
Useful length	mm	200

<b>1870</b>	Each	<b>12,50</b>
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1870R




Spare abrasive, round shape, for Art. 1870 or for manual use.

<b>1870R</b>	Each	<b>5,52</b>
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1871




Abrasive, square shape, can be used manually.

Square side	mm	20
Overall length	mm	200

<b>1871</b>	Each	<b>6,68</b>
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**INDUSTRIAL DIAMONDS**

1872




Prod. SCU

Suitable to grind, profile and dress grinding wheels. First choice diamond. Perfect coupling. Morse taper shank 1.

Size	carati	0,20	0,25	0,30	0,40	0,50	0,60	0,75
<b>1872</b>	Each	<b>61,10</b>	<b>64,60</b>	<b>68,20</b>	<b>75,40</b>	<b>82,50</b>	<b>89,70</b>	<b>112,00</b>
Size	carati	0,80	1	1,25	1,5	1,75	2	2,5
<b>1872</b>	Each	<b>115,00</b>	<b>126,00</b>	<b>151,00</b>	<b>198,00</b>	<b>234,00</b>	<b>262,00</b>	<b>323,00</b>
Size	carati	3	3,5					
<b>1872</b>	Each	<b>377,00</b>	<b>431,00</b>					

# Servizi Web Sicutool

Il catalogo su  
carta, flip-book, PDF e web

**RICHIEDERE COPIE DEL CATALOGO SICUTOOL**

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*All items are in sequence. It's very easy to find them!*

<p>Screwdrivers Mirrors Endoscopes Stethoscopes Bits Blades</p>		<p>From <b>1876GP</b> To <b>2040G</b></p>
<p>Safety and protection accessories</p>		<p>From <b>2050</b> To <b>2071Z 3</b></p>
<p>Tool vests Tool cases Tool boxes Tool holders Padlocks</p>		<p>From <b>2071ZL</b> To <b>2093</b></p>
<p>Taps seat reamers</p>		<p>From <b>2098</b> To <b>2101</b></p>
<p>Carbine-hooks Lifting tools</p>		<p>From <b>2119</b> To <b>2134GR</b></p>
<p>Stretchers Rope fasteners Redances and eyebolts Split pins</p>		<p>From <b>2140G</b> To <b>2165F</b></p>
<p>Hydraulic garage jacks Scissor jacks Workshop stools Hydraulic cranes Jacks</p>		<p>From <b>2200A</b> To <b>2240G</b></p>
<p>Diamond files Files File holders Accessories for files Rasps</p>		<p>From <b>2300G</b> To <b>2451G</b></p>
<p>Hack saws</p>		<p>From <b>2599</b> To <b>2650G</b></p>

**SCREW HOLDING TOOLS**

1876GP


**Prod. SCU**

To place screws in hard-to-access positions. Reinforced slot that can be handled from the base of the blade. Handle in unbreakable plastic and tips in CHROME VANADIUM steel.

Flat tip type.

Blade length	mm	75	100	125	150
Cutting edge width	mm	2,5	3	4	5
<b>1876GP</b>	<b>Each</b>	<b>12,30</b>	<b>12,80</b>	<b>15,70</b>	<b>18,10</b>

1876GR




Product description as Art. 1876GP

PHILLIPS tip type.

Size		0	1	2
Blade length	mm	125	150	175
For screws	M.	2	2-3	3,5-5
<b>1876GR</b>	<b>Each</b>	<b>16,20</b>	<b>18,60</b>	<b>21,60</b>

**VDE SCREW HOLDING TOOLS**

1877GA


**Orig. Witte**

To place screws in hard-to-access positions. Reinforced slot that can be handled from the base of the blade. Model with anatomic handle in unbreakable plastic, cadmium-free. Tips in CHROME VANADIUM steel, insulated according to VDE rules 0680 up to 1000 V. (Individually tested at 5000 V).

Flat tip type.

Blade length	mm	75	100	150
Blade Ø	mm	2,5	3	5
Cutting edge	mm	2,5x0,4	3x0,5	5x1
Handle		75x21	85x24	100x30
Supplier code		87500	87501	87503
<b>1877GA</b>	<b>Each</b>	<b>20,10</b>	<b>21,40</b>	<b>30,30</b>

Product running out of stock.

1877GE




Product description as Art. 1877GA

POZIDRIV tip type.

Size		0	1	2
Blade length	mm	125	150	175
Blade Ø	mm	4	5	6
For screws	M.	2	2,6-3	3,5-5
Handle		90x28	100x30	100x30
Supplier code		87701	87702	87703
<b>1877GE</b>	<b>Each</b>	<b>28,20</b>	<b>33,10</b>	<b>37,90</b>

Product running out of stock.

**GRIPPING TOOLS WITH CLIP**

1880E


**Prod. SCU**

Flexible model, button control, and 4 jaw pliers, with max. grip diameter of 16 mm. Suitable for retrieving small non-metallic components which are also partly inaccessible. Total length 345mm.

<b>1880E</b>	<b>Each</b>	<b>14,80</b>
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1880G




Product description as Art. 1880E

Total length 600mm.

<b>1880G</b>	<b>Each</b>	<b>17,10</b>
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**MAGNET LIFTERS**

1880GP


**Orig. Carolus - Art. 4178.50**

Socket with 1/4" square female drive.

Brass body.

Particularly suitable to be used in combination with magnetic grip for bits Maximus® XXL Art. 984 GZB 1 and adapter Art. 1991 GR.

Overall length 260mm.

Max lifting	grams	700
<b>1880GP</b>	<b>Each</b>	<b>4,86</b>

**Orig. Gedore - Art. 640**

MINI type, flexible with plastic handle.

Permanent magnet end fitting.

Suitable to recover very small objects in confined areas.

Head Ø	mm	4	5
Overall length	mm	400	400
Max lifting	grams	120	270
<b>1880GR</b>	<b>Each</b>	<b>9,44</b>	<b>9,32</b>



Flexible type with plastic handle. Permanent magnet end fitting.

Suitable to recover small objects in confined areas.

Head Ø	mm	9	15	19
Overall length	mm	460	520	520
Max lifting	grams	500	1800	3000
<b>1880GT</b>	<b>Each</b>	<b>49,20</b>	<b>62,50</b>	<b>90,30</b>



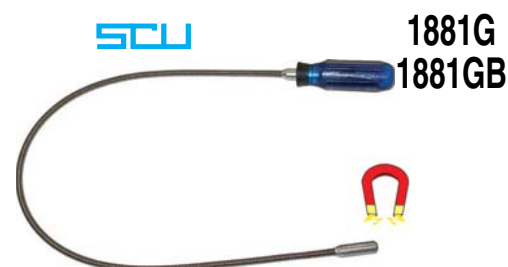
**Prod. SCU**

Flexible type with plastic handle.

Permanent magnet end fitting.

Suitable to recover small items in particularly hard-to-access positions.

Art.		<b>1881G</b>	<b>1881GB</b>
Overall length	mm	520	540
Flexible length	mm	425	355
Head Ø	mm	8	14
Max lifting	grams	700	2250
	<b>Each</b>	<b>19,10</b>	<b>28,50</b>



**Orig. Peddinghaus - Art. 9601300001**

Product description as Art. 1881G

Head Ø	mm	18
Overall length	mm	500
Max lifting	grams	3000
<b>1881GE</b>	<b>Each</b>	<b>21,20</b>



**Orig. Peddinghaus - Art. 9601070001**

Telescopic model, pocket size, with fixed clip and magnet, entirely made of metal.

Length closed/open 125/630 mm.

Head Ø	mm	8
Max lifting	grams	700
<b>1881GLC</b>	<b>Each</b>	<b>5,92</b>



**Prod. SCU**

Telescopic pocket model, with clip and magnetic fitting, all-metal construction.

Closed/open length 142/650 mm.

Head Ø	mm	11
Max lifting	grams	900
<b>1881GLE</b>	<b>Each</b>	<b>20,90</b>



Telescopic model, pocket execution, with jointed magnet and non-slipping handle.

Length (closed/open): 140/645mm.

Head Ø	mm	12
Max lifting	grams	1000
<b>1882GP</b>	<b>Each</b>	<b>20,10</b>



## 1882GPA



with powerful LED



Telescopic model with jointed magnet and non-slipping handle. Permanent magnet end fitting and white LED light (it lights up by turning the end part of the black ring nut). Operation with button batteries.

Suitable to recover small objects in very confined and dark areas.

Open/closed length: 170/830mm.

Head Ø	mm	15
Max lifting	grams	3400
<b>1882GPA</b>	<b>Each</b>	<b>51,30</b>

## 1882GPA 5 new



Orig. Peddinghaus - Art. 9604030LED

Telescopic model with a magnet on the bottom of the handle for an optimal positioning of light. Knurled metal body.

Terminal articulated with permanent magnet and 3 white LEDs that light up via push-button switch. With clips.

Operation with four LR 44 alkaline batteries (Art. SCU 3600 A), supplied.

Suitable for the recovery of small objects in particularly inaccessible and dark places.

Length closed/open 180/560 mm.

Head Ø	mm	21
Max lifting	grams	2000
<b>1882GPA 5</b>	<b>Each</b>	<b>22,10</b>

### MAGNETIC SCREW FINDERS WITH MIRROR

## 1882GPB



Prod. SCU

Telescopic model with large sized fixed magnet, non-slip handle, combined with large articulated retractable mirror with a diameter of 56 mm. Open/closed length without mirror 215/770 mm. Total length 220 mm.

Head Ø	mm	20
Max lifting	grams	7250
<b>1882GPB</b>	<b>Each</b>	<b>61,30</b>

### MINI-SUPPORTS FOR BOLTS

## 1882GPC



Orig. Gedore - Art. 637

Spring-supports with magnet to be applied to fixed or combination wrenches with 10 to 19mm opening.

Ideal to hold bolts in hard-to-access places while screwing.

Overall length 78mm.

<b>1882GPC</b>	<b>Each</b>	<b>9,30</b>
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## 1882GPE



Orig. Gedore - Art. 639

Ideal to hold bolts from M3 to M8 and possible washers in hard-to-access places while screwing. In synthetic material, length: 110mm.

<b>1882GPE</b>	<b>Each</b>	<b>9,10</b>
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### MIRRORS WITH MAGNET

## 1882GRE



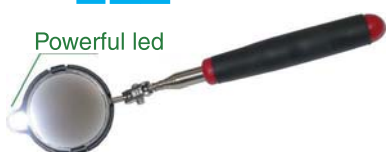
Prod. SCU

Fixed model with jointed mirror Ø 32mm and magnet Ø 5mm (lifting capacity 500g) placed at the handle extremity. Length (closed/open): 190/695mm. Completely made of metal.

<b>1882GRE</b>	<b>Each</b>	<b>25,20</b>
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### TELESCOPIC MIRRORS

## 1882GRF



Powerful led

Prod. SCU

Telescopic model with jointed mirror Ø 56mm, white light LED (the on/off-switch is on the back of the mirror), non-slipping, bicomponent handle. Operation with button batteries.

Length open/closed: 160/940mm.

<b>1882GRF</b>	<b>Each</b>	<b>44,70</b>
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## 1882GS



Telescopic model, pocket execution, with clip and jointed mirror Ø 32mm.

Length (closed/open): 165/485mm. Full metal finish.

<b>1882GS</b>	<b>Each</b>	<b>11,40</b>
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**Orig. Peddinghaus - Art. 9602300001**

Telescopic model, with clips and articulated mirror Ø 30 mm, non-slip handle.  
Length closed/open 120/480 mm.

**1882GV** Each **5,92**



**Prod. SCU**

Telescopic model, with clip and jointed mirror Ø 32mm. Non-slipping handle. Length (closed/open): 210/885mm.

**1883G** Each **28,50**



Telescopic model with jointed mirror Ø 56mm and plastic handle.  
Open/closed length: 265/370mm.

**1883GB** Each **15,20**



Telescopic model with 87x53 mm articulated rectangular mirror and plastic handle.  
Open/closed length 285/400 mm.

**1883GC** Each **21,40**



Telescopic model, plastic handle.  
Rectangular jointed model 87x53mm. Length (closed/open): 435/690mm.

**1883GD** Each **31,40**



Flexible model with mirror Ø 56mm and anti-slip handle.

Total length: 810mm.

**1883GP** Each **33,30**



**ENDOSCOPES**

**Prod. SCU**

Professional portable video monitoring system for visually inspecting mechanical parts for cars and machinery, plumbing, drains, pipes, electrical conduit, etc. Has the ability to record video material and take pictures during inspections, can amplify tool potential and increase the versatility of its range.

3.2" TFT liquid crystal display.  
image resolution of 7680 pixels (320x240).  
probe length of 1 metre.  
Object diameter of 17 mm.  
Viewing angle range from 0° to 180°.  
Max. card capacity of 8GB.  
Powered by one 3.7 V / 2,000 mA lithium battery.  
High brightness and 10 adjustable LED light settings. USB port, connection to TV-OUT.  
Dimensions: 240x160x100 mm. Weight 584 Kg.

**1884GZE** Each **581,00**



**STETHOSCOPES FOR MECHANICS**

**Orig. Klann - Art. KL-0140-95**

Professional, especially suitable for garages, for listening to noises, hisses, etc. in engines, transmissions, gears, bearings, etc.  
Length approx. 1100 mm.

**1885A** Each **33,70**



**ELECTRICIAN SCREWDRIVERS - EXTRA LONG PATTERN**

1885G

SCU



**Prod. SCU - Orig. Plasdammit**

Especially suited to radio-TV-electric service.  
CHROME-VANADIUM blade.  
Plastic handle.

With insulated blade.

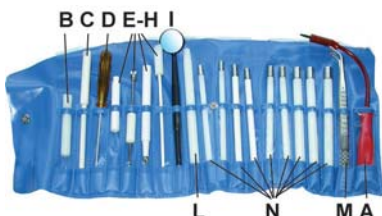
Blade length	mm	200	250	300
Cutting edge width	mm	4	4	4
<b>1885G</b>	<b>Each</b>	<b>11,40</b>	<b>12,10</b>	<b>12,80</b>

Product running out of stock.

**SETS FOR RADIO-TELE-ELECTRONICS**

1889G

SCU



**Prod. SCU - Orig. Plasdammit**

20-tools set supplied in handy bag. Tools in special plastic material, semi-flexible, high-resistance.

Each set consists of:

- A - flexible screwdriver with 2.8mm blade
  - B - Allen head wrench for 6x60mm nuts
  - C - Double-side screwdriver 3.5mm and 2mm slotted
  - D - screwdriver with steel blade, 2.8mm cutting edge
  - E F G H - 4-pcs sets of special Saba tools
  - I - Angular mirror>L - Plastic handle for mirror I
  - M - Bent tipped pliers
  - N - set of 9 hexagonal socket wrenches. One side in plastic, the other in metal.
- Openings: 2.5 - 3 - 3.6 - 4 - 4.2 - 4.5 - 5 - 5.5 - 6mm.  
Assorted set of 20 pieces supplied in wallet.

<b>1889G</b>	<b>Each</b>	<b>146,00</b>
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Product running out of stock.

**FIBER OPTICS TOOLS SETS**

1891G

SCU



**Prod. SCU - Orig. Plasdammit**

4-tools set supplied in handy bag. Through fiber optics transmission, allow to operate in very confined areas. Suitable to electrotechnics, repairers as well as to electronics, fine mechanics, etc.

Each set consists of:

- 1x torch with lamp and threaded drive for rods.
  - Operated with 2 x 1.5 V batteries.
  - 1 x rod bent at 114°.
  - 1 x straight rod with magnet.
  - 1 x straight rod with magnified mirror Ø 24mm
- Assorted set of 4 pieces supplied in wallet.

<b>1891G</b>	<b>Each</b>	<b>44,10</b>
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Product running out of stock.

**SCREWDRIVERS FOR WATCHMAKERS AND FINE MECHANICS**

1895G

SCU



**Prod. SCU**

Professional model.

Body made from synthetic resin. CHROME VANDIUM steel blade, hardened.

With flat tip. Total length 104mm.

Cutting edge width	mm	1	1,4	1,8	2,5	3
Blade thickness	mm	0,20	0,25	0,30	0,40	0,50
<b>1895G</b>	<b>Each</b>	<b>3,88</b>	<b>3,88</b>	<b>3,88</b>	<b>3,88</b>	<b>3,88</b>

1895GE

SCU



Product description as Art. 1895G

With cross-slotted tip. Total length 104mm.

Tip Ø	mm	2	2,5	3
Ph size	mm	000	00	0
<b>1895GE</b>	<b>Each</b>	<b>3,88</b>	<b>3,88</b>	<b>3,88</b>

1896G

SCU



5 piece screwdriver set as per Art. 1895 G 1 - 1.4 - 1.8 - 2.5 - 3 mm.  
In plastic casing.

<b>1896G</b>	<b>Per set</b>	<b>25,70</b>
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3 piece screwdriver set as per Art. 1895 GE 2 - 2.5 - 3 mm.  
In plastic casing.

**1896GE** Per set **18,10**

SCU

**1896GE**



Professional type.  
Metal body. Hardened CHROME-VANADIUM steel blade.  
Flat-tipped.

Cutting edge width	mm	0,6	0,8	1	1,2	1,5	1,8	2
Body Ø	mm	4	4	4	4	4	6	6
<b>1900G</b>	Each	2,30	2,30	2,30	2,30	2,30	2,56	2,56

Cutting edge width	mm	2,3	2,5	2,9	3	3,5	3,6
Body Ø	mm	6	6	8	8	8	8
<b>1900G</b>	Each	2,56	2,56	2,96	2,96	2,96	2,88

Size mm 3,6 running out of stock.

SCU

**1900G**



Product description as Art. 1900G  
Cross-tipped.

Tip Ø	mm	2	2,5	3
Ph size		000	00	0
<b>1900GE</b>	Each	2,36	2,62	3,04

SCU

**1900GE**



Assortment of 6 screwdrivers Art. 1900 G size 1 - 1.5 - 2 - 2.5 - 3 - 3.5mm.  
In wooden case.

**1901GA** Per set **39,36**

SCU

**1901GA**



Product description as Art. 1901GA  
In enamelled sheet case.

**1901GB** Per set **34,90**

SCU

**1901GB**



Product description as Art. 1901GA  
In plastic case.

**1901GF** Per set **22,60**

SCU

**1901GF**



Assorted set of 4 screwdrivers Art. 1900 G , flat-tipped. Sizes: 1 - 1.5 - 1.8 - 2.3  
2 x 2 - 2.5mm screwdrivers Art. 1900 GE, cross-tipped.  
Supplied in wooden case.

**1901GH** Per set **38,50**

SCU

**1901GH**



1901GM

SCU



Assorted set of 6 screwdrivers Art. 1900 G. Size: 0.6 - 0.8 - 1 - 1.5 - 1.8 - 2.3. Supplied in plastic bag.

1901GM Per set 20,70

1901GP

SCU



3 piece screwdriver set as per Art. 1900 GE 2 - 2.5 - 3 mm. Supplied in a plastic bag.

1901GP Per set 14,60

1901GR

SCU



4 piece screwdriver set as per Art. 1900 GE 1.5 - 2 - 2.5 - 3 mm. Supplied in wood case.

1901GR Per set 24,80

SCREWDRIVERS WITH INTERCHANGEABLE BLADE

1902G

SCU



Prod. SCU

Made of aluminium. 4 x 1.5 - 2 - 2.5 - 3mm flat blades made from hardened CHROME-VANADIUM steel. Length: 115mm.

1902G Each 7,10

Spare cutting blades for Art. 1902 G - 1902 GA - 1902 GE.

Cutting edge width	mm	1,5	1,8	2	2,5	3	3,5
O1902G	Each	1,04	1,04	1,04	1,04	1,04	1,04

1902GA

SCU



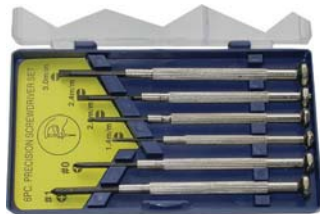
In unbreakable plastic material. Nickel-plated brass clamp. 5 x 1.5 - 2 - 2.5 - 3 mm flat blades in hardened special steel. Length: 135mm.

1902GA Each 9,34

PRECISION TOOLS SETS

1903GC

SCU



Prod. SCU

In metal. Suitable for electronics, watchmaking and optics. 6-pcs. sets. Available in the following assortment: 2 x cross blade screwdriver size 0 - 1 4 x 1.4 - 2 - 2.4 - 3mm straight blade screwdriver. Supplied in plastic wallet.

1903GC Per set 1,66

1903GM

SCU



Product description as Art. 1903GC 16-pcs. sets. Available in the following assortment: 1 set of 4 cross blade screwdrivers size 000-00-0-1 1 set of 3 screwdrivers for Allen screws size 1.5 - 2 - 2.5mm 1 set of 3 screwdrivers (shrouded blade) size 3 - 4 - 5mm 1 set of 6 flat blade screwdrivers size 0.8 - 1.4 - 2 - 2.4 - 2.9 - 3.5mm. Supplied in plastic wallet.

1903GM Per set 7,30

**MAIN TESTER**

**Prod. SCU**

With light indicator. Blade in special steel, nickel plated.  
Handle in insulated plastic material.  
Voltage 6 to 24 Volts.

Overall length mm 120  
Blade length mm 45  
Cutting edge width mm 3

**1905G** Each **1,06**

**SCU**

**1905G**



**CAR LIGHT TESTER**

**Prod. SCU**

With light indicator. Blade in special steel, nickel plated.  
Handle in insulated plastic material.  
Used to test light circuits, voltage 6 to 24 Volts.  
Supplied with cable and clamp.

Overall length mm 110  
Blade length mm 45  
Cutting edge width mm 3

**1906G** Each **1,70**

**SCU**

**1906G**



For tester for scar see Art. 4482 GR-T.

**CAR LIGHT TESTER**

**Prod. SCU**

2 screwdrivers with light indicator.  
Blade in special steel. Handle in insulated plastic material.  
Each set consists of:  
1 x screwdriver for car spark plug  
1 x phase-detecting screwdriver with clip for all voltage between 6-24 Volts.

**1906GS** Each **3,14**

**SCU**

**1906GS**



**VOLTAGE TESTERS**

**Prod. SCU**

With light indicator.  
Handle in insulated plastic material. Blade in nickel-plated special steel, insulated.  
For all voltages between 100-500 V.  
With clip.

Overall length mm 120  
Cutting edge width mm 3

**1907G** Each **0,92**

**SCU**

**1907G**



Product description as Art. 1907G

With clip.  
Overall length mm 140  
Cutting edge width mm 3

**1907GA** Each **0,96**

**SCU**

**1907GA**



Product description as Art. 1907G

Overall length mm 190  
Cutting edge width mm 4

**1907GB** Each **1,48**

**SCU**

**1907GB**



Highly insulated model. With light indicator. Handle in insulated plastic material. Blade in nickel-plated special steel, insulated. For all voltages between 120-250 V.  
With clip.

Overall length mm 140  
Cutting edge width mm 3

**1907GL** Each **1,04**

**SCU**

**1907GL**



Product description as Art. 1907GL

Overall length mm 190  
Cutting edge width mm 3,5

**1907GP** Each **1,58**

**SCU**

**1907GP**



## 1907GT

SCU



Highly insulated model according to VDE norms. With light indicator.  
Blade in nickel-coated special steel.  
For all voltages between 125-250 V and frequencies between 50-500 Hz.  
With clip.

Overall length	mm	150
Cutting edge width	mm	3
<b>1907GT</b>	<b>Each</b>	<b>2,12</b>

## 1907GV

SCU



Product description as Art. 1907GT  
With clip.

Overall length	mm	190
Cutting edge width	mm	3
<b>1907GV</b>	<b>Each</b>	<b>2,62</b>

## 1908GE

SCU



Digital model. Dial direct reading of 5 different voltages.  
Suitable for voltages between 0-250 V.

Overall length	mm	160
Blade length	mm	15
Cutting edge width	mm	3
<b>1908GE</b>	<b>Each</b>	<b>10,70</b>

## 1908GL

new

SCU



With multiple functions and LED light. Comes with 3 alkaline button cells, interchangeable, allowing for use independent from the mains. Suitable for research without contact of cables with AC voltage from 70 to 250 V. Evaluation of external conductors, neutral conductors and ground conductors in the outlets. Continuity check from 0-5 MOhm, for example in fuses, bulbs, etc. Polarity check for example in batteries, DC from 3 to 36 V. Can also be used as a torch thanks to the extra-bright LED.

Overall length	mm	145
Blade length	mm	15
Cutting edge width	mm	3
<b>1908GL</b>	<b>Each</b>	<b>18,80</b>

## REVERSIBLE SCREWDRIVERS

## 1910GA

WITTE  
WERKZEUGE

Orig. Witte - Art. 84301

Model with bayonet connector. Handle in unbreakable plastic material.  
Combination blades in CHROME VANADIUM steel, zinc finish. Blade dimensions: 60x6mm.  
Handle: 90x21mm.  
6mm flat blade and PH 2 blade.

<b>1910GA</b>	<b>Each</b>	<b>4,20</b>
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Supplied in 10-pcs packing.  
Product running out of stock.

## 1910GB

WITTE  
WERKZEUGE

Orig. Witte - Art. 84304

Product description as Art. 1910GA  
6mm flat blade and PH 2 blade.

<b>1910GB</b>	<b>Each</b>	<b>6,50</b>
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Supplied in 10-pcs packing.  
Product running out of stock.

## 1910GE

WITTE  
WERKZEUGE

Orig. Witte - Art. 84302

Product description as Art. 1910GA  
PH 1 and PH 2 blades.

<b>1910GE</b>	<b>Each</b>	<b>4,36</b>
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Supplied in 10-pcs packing.  
Product running out of stock.

**Orig. Witte - Art. 84305**

Product description as Art. 1910GA

PH 1 and PH 2 blades.

<b>1910GF</b>	Each	<b>6,66</b>
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Supplied in 10-pcs packing.  
Product running out of stock.



**WITTRON SCREWDRIVERS**

**Orig. Witte**

Blade in special steel. Chrome plated, matt finish, high precision black blade tips. Ergonomic handle in soft and resistant plastic material, length: 100mm. Performance advantages: antislip, fast turning section, rotating head for screw centering and recess for finger tips.

Flat-tipped model.

Type		40	40A	40B	40C	60	60A	75
Blade length	mm	40	40	40	40	60	60	75
Cutting edge	mm	0,8x0,16	1x0,18	1,2x0,25	1,5x0,3	1,8x0,3	2x0,4	2,5x0,4
Supplier code		89711	89712	89713	89714	89715	89716	89717
<b>1912GA</b>	Each	<b>8,44</b>	<b>8,44</b>	<b>7,22</b>	<b>6,52</b>	<b>5,74</b>	<b>5,74</b>	<b>5,88</b>

Type		75A	100	100A	150	150A	150B	200
Blade length	mm	75	100	100	150	150	150	200
Cutting edge	mm	3x0,5	3,5x0,6	4x0,8	3x0,5	3,5x0,6	4x0,8	4x0,8
Supplier code		89718	89720	89722	89719	89721	89723	89724
<b>1912GA</b>	Each	<b>6,02</b>	<b>6,32</b>	<b>7,12</b>	<b>6,64</b>	<b>7,40</b>	<b>8,90</b>	<b>9,50</b>

Supplied in 10-pcs packing.



Product description as Art. 1912GA

PHILLIPS-tipped model.

Size		000	00	0	1	1A
Blade	mm	40x2	40x2,5	60x3	80x4,5	150x4,5
For screws	M.	-	-	2	2-3	2-3
Supplier code		89731	89732	89733	89734	89735
<b>1912GB</b>	Each	<b>9,40</b>	<b>8,14</b>	<b>6,02</b>	<b>6,64</b>	<b>8,00</b>

Supplied in 10-pcs packing.



Product description as Art. 1912GA

POZIDRIV-tipped model.

Size		0	1
Blade	mm	60x3	80x4,5
For screws	M.	2	2,6-3
Supplier code		89741	89742
<b>1912GC</b>	Each	<b>8,44</b>	<b>9,20</b>

Supplied in 10-pcs packing.



Product description as Art. 1912GA

TORX-tipped model..

TORX size	T	5	6	7	8	9	10	15	20
Blade length	mm	50	50	50	60	60	80	80	100
For screws	M.	1,6-2	1,6-2	1,6-2	2,5	3	3	3,5	4
Seal	mm	1,42	1,70	1,99	2,31	2,5	2,74	3,27	3,86
Supplier code		89751	89752	89753	89754	89755	89756	89757	89758
<b>1912GD</b>	Each	<b>9,08</b>	<b>9,08</b>	<b>9,08</b>	<b>9,08</b>	<b>9,08</b>	<b>9,08</b>	<b>9,40</b>	<b>9,40</b>

Supplied in 10-pcs packing.



Product description as Art. 1912GA

Hexagonal head model.

Hexagon	mm	0,7	0,9	1,3	1,5	2	2,5	3
Blade length	mm	40	40	40	50	50	60	60
Supplier code		89761	89762	89763	89764	89765	89766	89767
<b>1912GE</b>	Each	<b>7,50</b>	<b>7,22</b>	<b>6,32</b>	<b>6,02</b>	<b>5,48</b>	<b>5,48</b>	<b>5,30</b>

Supplied in 10-pcs packing.

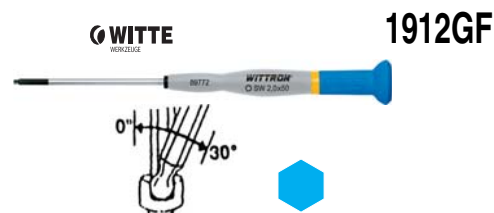


Product description as Art. 1912GA

Hexagonal ball head model.

Hexagon	mm	1,5	2	2,5	3
Blade length	mm	50	50	60	60
Supplier code		89771	89772	89773	89774
<b>1912GF</b>	Each	<b>9,08</b>	<b>8,12</b>	<b>7,50</b>	<b>7,22</b>

Supplied in 10-pcs packing.



## 1912GH




Product description as Art. 1912GA

Type with hexagonal socket. Blade length: 60mm.

Hexagon	mm	1,5	1,8	2	2,5	3	3,2	3,5
Supplier code		89781	89782	89783	89784	89785	89786	89787
<b>1912GH</b>	<b>Each</b>	<b>13,10</b>	<b>13,10</b>	<b>12,80</b>	<b>12,80</b>	<b>12,10</b>	<b>12,10</b>	<b>12,90</b>
Hexagon	mm	4	4,5	5	5,5	6		
Supplier code		89788	89789	89790	89791	89792		
<b>1912GH</b>	<b>Each</b>	<b>12,90</b>	<b>12,80</b>	<b>12,80</b>	<b>13,50</b>	<b>13,50</b>		

Supplied in 10-pcs packing.

**1912GM**  
**1912GO**  
**1912GR**  
**1912GT**  
**1912GZ**

**Orig. Witte - Art. 89321**

Blade in special steel. Chrome plated, matt finish, high precision black blade tips. Ergonomic handle in soft and resistant plastic material, length: 100mm. Performance advantages: antislip, fast turning section, rotating head for screw centering and recess for finger tips.

Assorted set of 7 screwdrivers.

The set contains:

1 pcs. x each Art. 1912 GA x 40A - 40B - 40C - 60 - 60 A - 75 - 75A.

Supplied in case.

<b>1912GM</b>	<b>Each</b>	<b>61,30</b>
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**Orig. Witte - Art. 89322**

Product description as Art. 1912GM

The set contains:

1 pcs. X each Art. 1912 GA x 40C - 60 A - 75 - 75A

1 pcs. x each Art. 1912 GB x 00 - 0 - 1.

Supplied in case.

<b>1912GO</b>	<b>Each</b>	<b>60,70</b>
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**Orig. Witte - Art. 89323**

Product description as Art. 1912GM

The set contains:

1 pcs. x each Art. 1912 GD x T5 - 6 - 7 - 8 - 9 - 10 - 15.

Supplied in case.

<b>1912GR</b>	<b>Each</b>	<b>79,50</b>
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**Orig. Witte - Art. 89324**

Product description as Art. 1912GM

The set contains:

1 pcs. X each Art. 1912 GE x 0.7 - 0.9 - 1.3 - 1.5 - 2 - 2.5 - 3.

Supplied in case.

<b>1912GT</b>	<b>Each</b>	<b>59,10</b>
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**Orig. Witte - Art. 89325**

Product description as Art. 1912GM

The set contains:

1 pcs. X each Art. 1912 GH x 2.5 - 3 - 3.2 - 3.5 - 4 - 5 - 5.5.

Supplied in case.

<b>1912GZ</b>	<b>Each</b>	<b>104,00</b>
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**WITTRON VDE SCREWDRIVERS**

## 1913GA


**Orig. Witte**

High insulated model according to VDE 0680, IEC 900 norms up to 1000 V (individually tested at 10.000 V at manufacturer's).

Blade in special steel, non-reflective. Ergonomic handle in soft and resistant plastic material, length: 100mm. Performance advantages: antislip, fast turning section, rotating head for screw centering and recess for finger tip.

Flat-tipped model.

Type		40	60	60A	75	75A
Blade length	mm	40	60	60	75	75
Cutting edge	mm	1,5x0,3	1,8x0,3	2x0,4	2,5x0,4	3x0,5
Supplier code		89935	89931	89932	89933	89934
<b>1913GA</b>	<b>Each</b>	<b>9,20</b>	<b>8,44</b>	<b>8,58</b>	<b>8,58</b>	<b>8,74</b>

Supplied in 10-pcs packing.

## 1913GB




Product description as Art. 1913GA

PHILLIPS-tipped model.

Size		00	0
Blade	mm	40x2,5	60x3
For screws	M.	-	2
Supplier code		89942	89941
<b>1913GB</b>	<b>Each</b>	<b>10,90</b>	<b>8,74</b>

Supplied in 10-pcs packing.



Product description as Art. 1913GA

TORX-tipped model..

TORX size	T	5	6	7	8	9	10	15
Blade length	mm	40	40	40	60	60	60	75
For screws	M.	1,6	2	2,5	2,5	3	3	3,5
Seal	mm	1,42	1,70	1,99	2,31	2,5	2,74	3,27
Supplier code		89921	89922	89923	89924	89925	89926	89927
<b>1913GD</b>	Each	<b>11,80</b>	<b>11,80</b>	<b>11,80</b>	<b>11,80</b>	<b>11,80</b>	<b>11,80</b>	<b>12,20</b>

Supplied in 10-pcs packing.



**1913GD**

**Orig. Witte - Art. 89367**

High insulated model according to VDE 0680, IEC 900 norms up to 1000 V (individually tested at 10.000 V at manufacturer's).

Blade in special steel, non-reflective. Ergonomic handle in soft and resistant plastic material, length: 100mm. Performance advantages: antislip, fast turning section, rotating head for screw centering and recess for finger tip.

Assorted set of 7 screwdrivers.

The set contains:

1 pcs. X each Art. 1913 GA x 40 - 60 - 60A - 75 - 75A

1 pcs. x each Art. 1913 GB x 00 - 0.

Supplied in case.

<b>1913GF</b>	Each	<b>78,80</b>
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**Orig. Witte - Art. 89368**

Product description as Art. 1913GF

The set contains:

1 pcs. X each Art. 1913 GD x 5 - 6 - 7 - 8 - 9 - 10 - 15.

Supplied in case.

<b>1913GH</b>	Each	<b>98,50</b>
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**1913GF**  
**1913GH**

**ESD CONDUCTIVE SCREWDRIVERS**

**Orig. Witte**

Blade in special steel, non-reflective. Ergonomic handle in plastic material highly resistant to normal and residual current, length: 100mm. Performance advantages: antislip, fast turning section, rotating head for screw centering and recess for finger tip. Particularly suitable for electronic circuits.

Flat-tipped model.

Type		40	40B	60	60A	75	75A
Cutting edge	mm	1x0,18	1,5x0,3	1,8x0,3	2x0,4	2,5x0,4	3x0,5
Blade length	mm	40	40	60	60	75	75
Supplier code		89412	89414	89415	89416	89417	89418
<b>1915GA</b>	Each	<b>9,94</b>	<b>7,56</b>	<b>6,84</b>	<b>6,84</b>	<b>7,04</b>	<b>7,16</b>

Supplied in 10-pcs packing.  
Product running out of stock.



**1915GA**

Product description as Art. 1915GA

PHILLIPS-tipped model.

Size		00	0	1
Blade length	mm	40	60	80
For screws	M.	-	2	2-3
Supplier code		89432	89433	89434
<b>1915GB</b>	Each	<b>9,62</b>	<b>7,16</b>	<b>7,74</b>

Supplied in 10-pcs packing.  
Product running out of stock.



**1915GB**

Product description as Art. 1915GA

TORX-tipped model..

TORX size	T	5	6	7	8	9	10	15
Blade length	mm	50	50	50	60	60	80	80
For screws	M.	1,6-2	1,6-2	1,6-2	2,5	3	3	3,5
Seal	mm	1,42	1,70	1,99	2,31	2,5	2,74	3,27
Supplier code		89451	89452	89453	89454	89455	89456	89457
<b>1915GE</b>	Each	<b>10,80</b>	<b>10,80</b>	<b>10,80</b>	<b>10,80</b>	<b>10,80</b>	<b>10,80</b>	<b>11,10</b>

Supplied in 10-pcs packing.  
Product running out of stock.



**1915GE**

**SETS OF ESD CONDUCTIVE SCREWDRIVERS**

**1916G**



**WITTE**  
HERZLIG



**Orig. Witte - Art. 89313**

Blade in special steel, non-reflective. Ergonomic handle in plastic material highly resistant to normal and residual current, length: 100mm. Performance advantages: antislip, fast turning section, rotating head for screw centering and recess for finger tip. Particularly suitable for electronic circuits.

Assorted set of 7 screwdrivers.

Each set contains:

4 x flat-tipped screwdrivers Art. 1915 GA x 40B - 60A - 75 - 75A

3 x cross-tipped screwdrivers Art. 1915 GB x 00 - 0 - 1.

Supplied in unbreakable case.

**1916G** Each **69,50**

Product running out of stock.

**VDE "MAXXPRO" SCREWDRIVERS**

**1921GA**

**WITTE**  
HERZLIG



**Orig. Witte**

Professional line for high performance screwdrivers. Anatomic, triangle shape, antislip handle obtained combining rigid and soft plastic materials. Finest high alloy special steel blades with strong insulation according to DIN EN 60900 norms up to 1000 V (individually tested at 10.000 V at manufacturer's).

Tested up to a temperature of -40° C (mark C), VDE MAXXPRO screwdrivers resist extreme changes in temperature.

Flat-tipped model (DIN 7437 and ISO 2380).

Type		75	100	100A	100B	125	150	175	200
Blade	mm	75x2,5	100x3	100x3,5	100x4	125x5,5	150x6,5	175x8	200x10
Cutting edge	mm	2,5x0,4	3x0,5	3,5x0,6	4x0,8	5,5x1	6,5x1,2	8x1,2	10x1,6
Handle	mm	103x23	103x23	103x23	107x32	107x32	117x37	127x39	127x39
Supplier code		53701	53702	53703	53704	53705	53706	53707	53708
<b>1921GA</b>	Each	<b>5,66</b>	<b>5,82</b>	<b>6,10</b>	<b>6,40</b>	<b>7,50</b>	<b>9,42</b>	<b>12,90</b>	<b>17,40</b>

Supplied in 10-pcs packing.

**1921GB**

**WITTE**  
HERZLIG



Product description as Art. 1921GA

PHILLIPS-tipped model (DIN 7438).

Size		0	1	2	3	4
Blade	mm	60x3	80x4,5	100x6	150x8	200x10
For screws	M.	2	2-3	3,5-5	5,5-7	8-10
Handle	mm	103x23	107x32	117x37	127x39	127x39
Supplier code		53710	53711	53712	53713	53714
<b>1921GB</b>	Each	<b>5,86</b>	<b>6,92</b>	<b>8,84</b>	<b>13,10</b>	<b>19,30</b>

Supplied in 10-pcs packing.

**1921GC**

**WITTE**  
HERZLIG



Product description as Art. 1921GA

PHILLIPS-tipped and flat-tipped combined model (MODUL).

Size		1	2
Blade	mm	80x4,5	100x6
For screws	M.	2-3	3,5-5
Handle	mm	107x32	117x37
Supplier code		53741	53742
<b>1921GC</b>	Each	<b>7,70</b>	<b>9,38</b>

Supplied in 10-pcs packing.

**1921GE**

**WITTE**  
HERZLIG



Product description as Art. 1921GA

POZIDRIV-tipped model (ISO 8764).

Size		0	1	2	3	4
Blade	mm	60x3	80x4,5	100x6	150x8	200x10
For screws	M.	2	2-3	3,5-5	5,5-7	8-10
Handle	mm	103x23	107x32	117x37	127x39	127x39
Supplier code		53720	53721	53722	53723	53724
<b>1921GE</b>	Each	<b>7,12</b>	<b>8,52</b>	<b>10,70</b>	<b>14,20</b>	<b>23,80</b>

Supplied in 10-pcs packing.

**1921GEM**

**WITTE**  
HERZLIG



Product description as Art. 1921GA

POZIDRIV-tipped and flat-tipped combined model (MODUL).

Size		1	2
Blade	mm	80x4,5	100x6
For screws	M.	2,6-3	3,5-5
Handle	mm	107x32	117x37
Supplier code		53761	53762
<b>1921GEM</b>	Each	<b>9,12</b>	<b>11,40</b>

Supplied in 10-pcs packing.

Prices in EURO - VAT not included

Product description as Art. 1921GA

TORX-tipped model..

TORX size	T	10	15	20	25	30	40	45
Blade	mm	60x3	75x3,5	100x4	100x4,5	100x6	150x8	150x8
For screws	M.	3	3,5	4	5	6	8	8-10
Seal	mm	2,74	3,27	3,86	4,43	5,52	6,65	7,82
Handle	mm	103x23	103x23	107x32	107x32	117x37	127x39	127x39
Supplier code		53731	53732	53733	53734	53735	53736	53737
<b>1921GF</b>	<b>Each</b>	<b>8,90</b>	<b>8,90</b>	<b>9,70</b>	<b>10,70</b>	<b>11,80</b>	<b>12,90</b>	<b>15,90</b>

Supplied in 10-pcs packing.



Product description as Art. 1921GA

Type with hexagonal socket. (DIN 7445).

Hexagon	mm	6	7	8	9	10	11	12	13
Blade	mm	125x5	125x6	125x6	125x6	125x6	125x8	125x8	125x8
Handle	mm	117x37	117x37	117x37	117x37	117x37	127x39	127x39	127x39
Supplier code		53750	53751	53752	53753	53754	53755	53756	53757
<b>1921GP</b>	<b>Each</b>	<b>18,90</b>	<b>20,90</b>	<b>21,70</b>	<b>22,80</b>	<b>24,10</b>	<b>28,80</b>	<b>30,80</b>	<b>32,90</b>

Supplied in 10-pcs packing.



**VDE "PROTOP SLIM" SCREWDRIVERS**

**Orig. Witte**

Screwdrivers, professional for high-performance, anatomic antislip handle, obtained by the combination of hard and soft plastic. Special high-alloy steel blades with strong insulation according to DIN EN 60900 up to 1000 V (with a single production test to 10,000 V).

TYPE WITH WIRE BLADE INSULATION FOR OPERATIONS IN POSITIONS OF DIFFICULT ACCESS

With flat tip (DIN 7437 and ISO 2380).

Type		100	100A	125	150
Blade	mm	100x3	100x4	125x5,5	150x6,5
Cutting edge	mm	3x0,5	4x0,8	5,5x1	6,5x1,2
Handle	mm	105x25	105x25	115x34	115x34
Supplier code		76012	76014	76015	76016
<b>1922GB</b>	<b>Each</b>	<b>8,24</b>	<b>9,10</b>	<b>11,30</b>	<b>14,10</b>

In boxes of 10 pieces.



Product description as Art. 1922GB

TYPE WITH WIRE BLADE INSULATION FOR OPERATIONS IN POSITIONS OF DIFFICULT ACCESS

With PHILLIPS tip (DIN 7438 and ISO 8764).

Size		1	2
Blade	mm	80x4,5	100x6
For screws	M.	2-3	3,5-5
Handle	mm	105x25	115x34
Supplier code		76022	76023
<b>1922GC</b>	<b>Each</b>	<b>9,94</b>	<b>12,50</b>

In boxes of 10 pieces.



Product description as Art. 1922GB

TYPE WITH WIRE BLADE INSULATION FOR OPERATIONS IN POSITIONS OF DIFFICULT ACCESS

With PHILLIPS tip combined with straight cut (MODUL).

Size		1	2
Blade	mm	80x4,5	100x6
For screws	M.	2-3	3,5-5
Handle	mm	105x25	115x34
Supplier code		76025	76026
<b>1922GD</b>	<b>Each</b>	<b>11,10</b>	<b>13,90</b>

In boxes of 10 pieces.



Product description as Art. 1922GB

TYPE WITH WIRE BLADE INSULATION FOR OPERATIONS IN POSITIONS OF DIFFICULT ACCESS

With POZIDRIV tip (ISO 8764).

Size		1	2
Blade	mm	80x4,5	100x6
For screws	M.	2-3	3,5-5
Handle	mm	105x25	115x34
Supplier code		76032	76033
<b>1922GF</b>	<b>Each</b>	<b>11,60</b>	<b>14,40</b>

In boxes of 10 pieces.



**1922GH**  
*new*



Product description as Art. 1922GB  
TYPE WITH WIRE BLADE INSULATION FOR OPERATIONS IN POSITIONS OF DIFFICULT ACCESS

With POZIDRIV tip combined with straight cut (MODUL).

Size		1	2
Blade	mm	80x4,5	100x6
For screws	M.	2-3	3,5-5
Handle	mm	105x25	115x34
Supplier code		76035	76036
<b>1922GH</b>	<b>Each</b>	<b>12,90</b>	<b>15,10</b>

In boxes of 10 pieces.

**SCREWDRIVERS CONTROLLED UNDER VOLTAGE 1000V**

**1923GA**



**Prod. SCU**

Model with ergonomic handle in unbreakable plastic material and blade in special steel insulated up to 1000 V.

Flat-tipped model (DIN 7437).

Blade length	mm	75	100	125	150	175
Blade Ø	mm	2,5	4	5,5	6,5	8
Cutting edge	mm	2,5x0,4	4x0,8	5,5x1	6,5x1,2	8x1,2
Handle	mm	80x21	90x24	90x24	100x27	110x29
<b>1923GA</b>	<b>Each</b>	<b>2,80</b>	<b>3,20</b>	<b>3,88</b>	<b>4,46</b>	<b>5,64</b>

Supplied in 12-pcs packing.

**1923GE**



Model with ergonomic handle in unbreakable plastic material and blade in special steel insulated according to the norms up to 1000 V.

PHILLIPS-tipped model (DIN 7438).

Size		0	1	2	3
Blade length	mm	60	80	100	150
For screws	M.	2	2-3	3,5-5	5,5-7
Handle	mm	80x21	90x24	100x27	110x29
<b>1923GE</b>	<b>Each</b>	<b>2,98</b>	<b>3,26</b>	<b>3,92</b>	<b>5,16</b>

Supplied in 12-pcs packing.

**SCREWDRIVERS LINE "MAXXPRO"**

**1932GA**



**Orig. Witte**

Professional line for high performance screwdrivers. Anatomic, triangle shape, antislip handle obtained combining rigid and soft plastic materials. Blades in EXTRA CHROME VANADIUM silicon steel, graduation marks. Chrome plated matt finish, high precision black blade tip. With hang up hole.

SCREWDRIVERS FOR ELECTRICIANS (DIN 5264 and ISO 2380)

Type		75	100	125	150	200	300	300A
Blade length	mm	75	100	125	150	200	300	300
Cutting edge width	mm	3	3,5	4	5,5	5,5	4	5,5
Cutting edge thickness	mm	0,5	0,6	0,8	1	1	0,6	1
Handle	mm	103x23	103x23	103x23	107x32	107x32	103x23	107x32
Supplier code		53021	53022	53024	53025	53026	53023	53027
<b>1932GA</b>	<b>Each</b>	<b>4,56</b>	<b>5,04</b>	<b>5,56</b>	<b>7,44</b>	<b>8,52</b>	<b>9,14</b>	<b>11,60</b>

Supplied in 10-pcs packing.

**1932GB**



Product description as Art. 1932GA

PHILLIPS-TIPPED SCREWDRIVERS (DIN 5260/5261 and ISO 8764)

Size		0	1	1L	2	2L	3	4
Blade length	mm	60	80	300	100	300	150	200
Blade Ø	mm	3	4,5	4,5	6	6	8	10
For screws	M.	1,6-2	2-3	2-3	3,5-5	3,5-5	5,5-7	8-10
Handle	mm	103x23	107x32	107x32	117x37	117x37	127x39	127x39
Supplier code		53031	53032	53034	53035	53037	53038	53039
<b>1932GB</b>	<b>Each</b>	<b>4,42</b>	<b>5,56</b>	<b>6,68</b>	<b>7,36</b>	<b>13,10</b>	<b>11,90</b>	<b>19,80</b>

Supplied in 10-pcs packing.

**1932GE**



Product description as Art. 1932GA

PHILLIPS-TIPPED SCREWDRIVERS WITH HEXAGON RECEPTACLE (DIN 5260/5261 and ISO 8764)

Size		1	2	3
Blade length	mm	80	100	150
Blade Ø	mm	4,5	6	8
Hexagon	mm	7	10	13
For screws	M.	2-3	3,5-5	5,5-7
Handle	mm	107x32	117x37	127x39
Supplier code		53501	53502	53503
<b>1932GE</b>	<b>Each</b>	<b>8,26</b>	<b>10,60</b>	<b>15,10</b>

Supplied in 10-pcs packing.

Product description as Art. 1932GA  
POZIDRIV-TIPPED SCREWDRIVERS (ISO 8764)

Size		0	1	1L	2	2L	3	4
Blade length	mm	60	80	300	100	300	150	200
Blade Ø	mm	3	4,5	4,5	6	6	8	10
For screws	M.	2	2-3	2-3	3,5-5	3,5-5	5,5-7	8-10
Handle	mm	103x23	107x32	107x32	117x37	117x37	127x39	127x39
Supplier code		53041	53042	53044	53045	53047	53048	53049
<b>1932GF</b>	<b>Each</b>	<b>5,72</b>	<b>7,88</b>	<b>13,90</b>	<b>9,14</b>	<b>16,10</b>	<b>13,50</b>	<b>23,80</b>

Supplied in 10-pcs packing.


**1932GF**

Product description as Art. 1932GA  
POZIDRIV-TIPPED SCREWDRIVERS WITH HEXAGON RECEPTACLE (ISO 8764)

Size		1	2	3
Blade length	mm	80	100	150
Blade Ø	mm	4,5	6	8
Hexagon	mm	6	10	13
For screws	M.	2-3	3,5-5	5,5-7
Handle	mm	107x32	117x37	127x39
Supplier code		53601	53602	53603
<b>1932GH</b>	<b>Each</b>	<b>10,90</b>	<b>12,40</b>	<b>16,90</b>

Supplied in 10-pcs packing.


**1932GH**

Product description as Art. 1932GA  
ROUND BLADE - FLAT TIP SCREWDRIVERS (DIN 5263/5264 and ISO 2380)

Type		75	75A	100	100A	100B	125	125A
Blade length	mm	75	75	100	100	100	125	125
Blade Ø	mm	3,5	4	3,5	4	5	5	6
Cutting edge	mm	3,5x0,6	4x0,8	3,5x0,6	4x0,8	5,5x1	5,5x1	6,5x1,2
Handle	mm	103x23	103x23	103x23	103x23	107x32	107x32	117x37
Supplier code		53101	53103	53102	53104	53105	53106	53107
<b>1932GL</b>	<b>Each</b>	<b>4,60</b>	<b>4,76</b>	<b>4,72</b>	<b>5,14</b>	<b>7,88</b>	<b>8,12</b>	<b>8,74</b>

Type		150	150A	175	200
Blade length	mm	150	150	175	200
Blade Ø	mm	6	7	7	8
Cutting edge	mm	6,5x1,2	8x1,2	8x1,6	10x1,6
Handle	mm	117x37	127x39	127x39	127x39
Supplier code		53108	53109	53110	53111
<b>1932GL</b>	<b>Each</b>	<b>9,14</b>	<b>11,80</b>	<b>12,30</b>	<b>15,30</b>

Supplied in 10-pcs packing.


**1932GL**

Product description as Art. 1932GA  
ROUND BLADE - FLAT TIP SCREWDRIVERS WITH HEXAGON RECEPTACLE (DIN 5263/5264 and ISO 2380)

Blade length	mm	100	125	150	175
Blade Ø	mm	5,5	6	8	8
Hexagon	mm	8	10	13	13
Cutting edge	mm	5,5x1	6,5x1,2	8x1,2	10x1,6
Handle	mm	107x32	117x37	127x39	127x39
Supplier code		53011	53012	53013	53014
<b>1932GM</b>	<b>Each</b>	<b>8,90</b>	<b>11,30</b>	<b>15,40</b>	<b>16,70</b>

Supplied in 10-pcs packing.


**1932GM**

Product description as Art. 1932GA  
SCREWDRIVERS FOR "TORX" SCREWS

TORX size	T	5	6	7	8	9	10	15
Blade length	mm	60	60	60	60	60	80	80
For screws	M.	1,6-2	1,6-2	1,6-2	2,5	3	3	3,5
Seal	mm	1,42	1,7	1,99	2,31	2,5	2,74	3,27
Handle	mm	103x23	103x23	103x23	103x23	103x23	103x23	103x23
Supplier code		53201	53202	53203	53204	53205	53206	53207
<b>1932GP</b>	<b>Each</b>	<b>6,50</b>	<b>6,50</b>	<b>6,50</b>	<b>6,50</b>	<b>6,50</b>	<b>6,68</b>	<b>6,72</b>

TORX size	T	20	25	27	30	40	45
Blade length	mm	100	100	115	115	115	130
For screws	M.	4	5	5	6	8	8-10
Seal	mm	3,86	4,43	4,99	5,52	6,65	7,82
Handle	mm	107x32	107x32	117x37	117x37	127x39	127x39
Supplier code		53208	53209	53210	53211	53212	53213
<b>1932GP</b>	<b>Each</b>	<b>7,16</b>	<b>7,70</b>	<b>8,04</b>	<b>8,64</b>	<b>9,34</b>	<b>11,80</b>

Supplied in 10-pcs packing.


**1932GP**

## 1932GQ




Product description as Art. 1932GA  
SCREWDRIVERS FOR "TORX" SCREWS, WITH HANG-UP HOLE

TORX size	T	7	8	9	10	15	20	25
Blade length	mm	60	60	60	80	80	100	100
For screws	M.	1,6-2	2,5	3	3	3,5	4	5
Seal	mm	1,99	2,31	2,5	2,74	3,27	3,86	4,43
Handle	mm	103x23	103x23	103x23	103x23	103x23	107x32	107x32
Supplier code		53303	53304	53305	53306	53307	53308	53309
<b>1932GQ</b>	<b>Each</b>	<b>8,28</b>	<b>8,28</b>	<b>8,28</b>	<b>8,52</b>	<b>8,52</b>	<b>8,66</b>	<b>9,28</b>

TORX size	T	27	30	40	45
Blade length	mm	115	115	115	130
For screws	M.	5	6	8	8-10
Seal	mm	4,99	5,52	6,65	7,82
Handle	mm	117x37	117x37	127x39	127x39
Supplier code		53310	53311	53312	53313
<b>1932GQ</b>	<b>Each</b>	<b>9,46</b>	<b>10,20</b>	<b>11,90</b>	<b>13,10</b>

Supplied in 10-pcs packing.

## 1932GR




Product description as Art. 1932GA  
SCREWDRIVERS WITH HEXAGONAL SOCKET  
Blade length 125mm.

Hexagon	mm	3,5	4	4,5	5	5,5	6	7	8
Handle	mm	107x32	107x32	107x32	107x32	107x32	117x37	117x37	117x37
Supplier code		53401	53402	53403	53404	53405	53406	53407	53408
<b>1932GR</b>	<b>Each</b>	<b>11,40</b>	<b>11,40</b>	<b>11,40</b>	<b>11,40</b>	<b>11,40</b>	<b>11,90</b>	<b>12,50</b>	<b>12,80</b>

Hexagon	mm	9	10	11	12	13	14	17
Handle	mm	117x37	117x37	127x39	127x39	127x39	127x39	127x39
Supplier code		53409	53410	53411	53412	53413	53414	53415
<b>1932GR</b>	<b>Each</b>	<b>13,20</b>	<b>14,00</b>	<b>15,60</b>	<b>16,30</b>	<b>17,10</b>	<b>19,50</b>	<b>21,10</b>

Supplied in 10-pcs packing.

## 1932GS

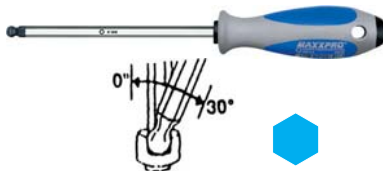



Product description as Art. 1932GA  
SCREWDRIVERS WITH HEXAGONAL SOCKET  
Blade length 200mm.

Hexagon	mm	5	5,5	6	7	8
Handle	mm	117x37	117x37	117x37	117x37	117x37
Supplier code		53081	53082	53083	53084	53085
<b>1932GS</b>	<b>Each</b>	<b>23,50</b>	<b>23,50</b>	<b>23,50</b>	<b>24,10</b>	<b>24,80</b>

Supplied in 10-pcs packing.

## 1932GT

Product description as Art. 1932GA  
BALL SCREWDRIVERS FOR ALLEN SCREWS

Hexagon	mm	3	4	5	6	8
Blade length	mm	100	100	100	125	150
Handle	mm	103x23	103x23	107x32	117x37	127x39
Supplier code		53051	53052	53053	53054	53055
<b>1932GT</b>	<b>Each</b>	<b>5,92</b>	<b>6,82</b>	<b>7,50</b>	<b>8,28</b>	<b>11,80</b>

Supplied in 10-pcs packing.

## 1932GV




Product description as Art. 1932GA  
SCREWDRIVERS FOR SCREWS WITH INNER SQUARE DRIVE

Size		1	2	3
Blade length	mm	100	125	150
Handle	mm	107x32	107x32	117x37
Blade Ø	mm	4,5	5	6
Supplier code		53061	53062	53063
<b>1932GV</b>	<b>Each</b>	<b>5,52</b>	<b>7,36</b>	<b>8,84</b>

Supplied in 10-pcs packing.

## 1932GZ




Product description as Art. 1932GA  
SCREWDRIVERS FOR TRI-WING SCREWS

Tri-Wing Size		2	3	4	5
Blade length	mm	80	100	100	100
Handle	mm	107x32	107x32	107x32	107x32
Supplier code		53071	53072	53073	53074
<b>1932GZ</b>	<b>Each</b>	<b>18,80</b>	<b>18,80</b>	<b>18,80</b>	<b>18,80</b>

Supplied in 10-pcs packing.

**INOX SCREWDRIVERS LINE "MAXXPRO"**

**Orig. Witte**

Screwdrivers, professional line for high performances. Stainless steel blades, antistatic, long lasting, high torsion values.

Anatomic, triangle shape, antislip handle obtained combining rigid and soft plastic materials. Hang-up hole. Suitable to manufacture and maintain any kind of product requiring the tightening of stainless steel screws. Thus to avoid metal scrap contaminations that could cause the formation of rust on screws. In questo modo si possono evitare contaminazioni di scorie metalliche che potrebbero causare formazioni di ruggine nelle viti.

**ROUND BLADE - FLAT TIP SCREWDRIVERS**

Blade length	mm	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>
Blade Ø	mm	3	4	5,5	6,5
Cutting edge	mm	3	4	5,5	6,5
Handle	mm	103x23	103x23	107x32	117x37
Supplier code		73021	73023	73024	73025
<b>1932GZA</b>	<b>Each</b>	<b>7,16</b>	<b>8,74</b>	<b>12,40</b>	<b>15,10</b>

Supplied in 10-pcs packing.

**WITTE**  
WERKZEUGE

**1932GZA**



Product description as Art. 1932GZA

**PHILLIPS TIP SCREWDRIVERS**

Size		<b>1</b>	<b>2</b>	<b>3</b>
Blade length	mm	80	100	150
Blade Ø	mm	4,5	6	8
Handle	mm	107x32	117x37	117x37
Supplier code		73032	73035	73038
<b>1932GZB</b>	<b>Each</b>	<b>8,52</b>	<b>11,70</b>	<b>17,90</b>

Supplied in 10-pcs packing.

**WITTE**  
WERKZEUGE

**1932GZB**



Product description as Art. 1932GZA

**POZIDRIV TIP SCREWDRIVERS**

Size		<b>1</b>	<b>2</b>	<b>3</b>
Blade length	mm	80	100	150
Blade Ø	mm	4,5	6	8
Handle	mm	107x32	117x37	117x37
Supplier code		73042	73045	73048
<b>1932GZF</b>	<b>Each</b>	<b>11,40</b>	<b>14,70</b>	<b>20,20</b>

Supplied in 10-pcs packing.

**WITTE**  
WERKZEUGE

**1932GZF**



Product description as Art. 1932GZA

**SCREWDRIVERS FOR "TORX" SCREWS**

TORX size	T	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>40</b>
Blade length	mm	80	80	100	100	115	115
For screws	M.	3	3,5	4	5	6	8
Seal	mm	2,74	3,27	3,86	4,43	5,52	6,65
Handle	mm	103x23	103x23	107x32	107x32	117x37	117x37
Supplier code		73206	73207	73208	73209	73211	73212
<b>1932GZP</b>	<b>Each</b>	<b>10,30</b>	<b>10,30</b>	<b>10,50</b>	<b>11,20</b>	<b>12,70</b>	<b>14,20</b>

Supplied in 10-pcs packing.

**WITTE**  
WERKZEUGE

**1932GZP**



**8**

**SCREWDRIVERS LINE "MAXXPRO"**

**Orig. Witte**

Blade in CHROME VANADIUM steel. Chrome plated matt finish, black blade tips.

Anatomic handle in high resistance plastic material. With hang-up hole.

**FLAT-TIPPED SCREWDRIVERS, SHORT PATTERN**

Size		<b>1</b>	<b>2</b>	<b>3</b>
Blade	mm	25x4,5	25x6	25x8
Cutting edge	mm	4,5x0,8	6x1	8x1,2
Handle	mm	55x29	55x29	55x29
Supplier code		86991	86992	86993
<b>1933GA</b>	<b>Each</b>	<b>6,18</b>	<b>6,72</b>	<b>7,34</b>

Supplied in 10-pcs packing.

**WITTE**  
WERKZEUGE

**1933GA**



Product description as Art. 1933GA

**PHILLIPS-TIPPED SCREWDRIVERS, SHORT PATTERN**

Size		<b>1</b>	<b>2</b>
Blade	mm	25x4,5	25x6
For screws	M.	2-3	3,5-5
Handle	mm	55x29	55x29
Supplier code		94261	94262
<b>1933GB</b>	<b>Each</b>	<b>6,48</b>	<b>6,96</b>

Supplied in 10-pcs packing.

**WITTE**  
WERKZEUGE

**1933GB**



**1933GE**



Product description as Art. 1933GA  
POZIDRIV-TIPPED SCREWDRIVERS, SHORT PATTERN

Size		1	2
Blade	mm	25x4,5	25x6
For screws	M.	2-3	3,5-5
Handle	mm	55x29	55x29
Supplier code		95351	95352
<b>1933GE</b>	<b>Each</b>	<b>7,96</b>	<b>8,06</b>

Supplied in 10-pcs packing.

**T-HANDLE WRENCHES****1933GZA**

**Orig. Witte**

Professional line for high performance wrenches. T-shaped antislip handle obtained combining rigid and soft plastic materials. Finest high alloy special steel blades, graduation marks. Chrome plated matt finish, high precision black blade tip. With hang up hole.

T-ALLEN HEAD WRENCHES

Single-blade model.

Hexagon	mm	2	2,5	3	4	5	6	8	10
Blade length	mm	100	100	150	150	200	200	200	200
Grip length	mm	95	95	95	95	95	95	120	120
Supplier code		81602	81625	81603	81604	81605	81606	81608	81610
<b>1933GZA</b>	<b>Each</b>	<b>5,72</b>	<b>5,86</b>	<b>5,86</b>	<b>6,06</b>	<b>6,48</b>	<b>7,08</b>	<b>10,30</b>	<b>11,60</b>

Supplied in 10-pcs packing.

**1933GZB**



Product description as Art. 1933GZA

T-ALLEN HEAD WRENCHES

Double-blade model.

Hexagon	mm	2	2,5	3	4	5	6	8	10
Blade length	mm	100	100	150	150	200	200	200	200
Grip length	mm	95	95	95	95	95	95	120	120
Lateral blade length	mm	10	10	15	15	15	15	20	25
Supplier code		81102	81125	81103	81104	81105	81106	81108	81110
<b>1933GZB</b>	<b>Each</b>	<b>10,10</b>	<b>10,40</b>	<b>10,80</b>	<b>11,60</b>	<b>12,70</b>	<b>14,10</b>	<b>19,10</b>	<b>23,00</b>

Supplied in 10-pcs packing.

**1933GZE**



Product description as Art. 1933GZA

T-HEXAGONAL NUT DRIVER

Single-blade model.

Hexagon	mm	4	4,5	5	5,5	6	7	8
Blade length	mm	200	200	200	200	200	200	200
Grip length	mm	95	95	95	95	95	120	120
Supplier code		81204	81245	81205	81255	81206	81207	81208
<b>1933GZE</b>	<b>Each</b>	<b>12,20</b>	<b>12,20</b>	<b>12,20</b>	<b>12,60</b>	<b>12,90</b>	<b>16,10</b>	<b>16,50</b>

Hexagon	mm	9	10	11	12	13	17
Blade length	mm	200	200	200	200	200	200
Grip length	mm	120	120	120	120	120	120
Supplier code		81209	81210	81211	81212	81213	81217
<b>1933GZE</b>	<b>Each</b>	<b>16,90</b>	<b>17,20</b>	<b>19,30</b>	<b>19,70</b>	<b>20,80</b>	<b>26,10</b>

Supplied in 10-pcs packing.

**1933GZL**



Product description as Art. 1933GZA

T-WRENCHES FOR TORX SCREWS

Single-blade model.

TORX size	T	9	10	15	20	25	27	30
Blade length	mm	100	100	100	100	110	110	130
For screws/seal M/mm		3/2,5	3/2,74	3,5/3,27	4/3,86	5/4,43	5/4,99	6/5,52
Grip length	mm	95	95	95	95	95	95	95
Supplier code		81709	81710	81715	81720	81725	81727	81730
<b>1933GZL</b>	<b>Each</b>	<b>11,70</b>	<b>12,60</b>	<b>13,10</b>	<b>14,10</b>	<b>15,10</b>	<b>15,20</b>	<b>15,70</b>

TORX size	T	40	50
Blade length	mm	130	130
For screws/seal M/mm		8/6,65	10/7,82
Grip length	mm	120	120
Supplier code		81740	81750
<b>1933GZL</b>	<b>Each</b>	<b>16,90</b>	<b>23,40</b>

Supplied in 10-pcs packing.



Product description as Art. 1933GZA  
T-WRENCHES FOR TORX SCREWS

Double-blade model.

TORX size	T	9	10	15	20	25	27	30
Blade length	mm	100	100	100	100	110	110	130
Lateral blade length	mm	15	15	15	15	15	15	15
For screws/seal M/mm		3/2,5	3/2,74	3,5/3,27	4/3,86	5/4,43	5/4,99	6/5,52
Grip length	mm	95	95	95	95	95	95	95
Supplier code		81409	81410	81415	81420	81425	81427	81430
<b>1933GZP</b>	<b>Each</b>	<b>16,50</b>	<b>17,60</b>	<b>18,10</b>	<b>19,60</b>	<b>20,80</b>	<b>21,10</b>	<b>21,90</b>

TORX size	T	40	50
Blade length	mm	130	130
Lateral blade length	mm	20	25
For screws/seal M/mm		8/6,65	10/7,82
Grip length	mm	120	120
Supplier code		81440	81450
<b>1933GZP</b>	<b>Each</b>	<b>23,70</b>	<b>32,70</b>

Supplied in 10-pcs packing.



Product description as Art. 1933GZA  
T" WRENCH FOR "XZN" BI-HEXAGONAL SCREWS

Single-blade model.

For screws	M.	4	5	6	8	10
Blade length	mm	110	110	130	130	130
Grip length	mm	95	95	95	120	120
Supplier code		81804	81805	81806	81808	81810
<b>1933GZR</b>	<b>Each</b>	<b>6,84</b>	<b>7,28</b>	<b>8,64</b>	<b>10,70</b>	<b>12,30</b>

Supplied in 10-pcs packing.  
Product running out of stock.



Product description as Art. 1933GZA  
T" WRENCH FOR "XZN" BI-HEXAGONAL SCREWS

Double-blade model.

For screws	M.	4	5	6	8	10
Blade length	mm	110	110	130	130	130
Lateral blade length	mm	15	15	15	20	25
Grip length	mm	95	95	95	120	120
Supplier code		81504	81505	81506	81508	81510
<b>1933GZS</b>	<b>Each</b>	<b>9,30</b>	<b>9,56</b>	<b>10,40</b>	<b>14,10</b>	<b>15,30</b>

Supplied in 10-pcs packing.  
Product running out of stock.



### SCREWDRIVERS LINE "MAXXPRO PLUS"

#### Orig. Witte

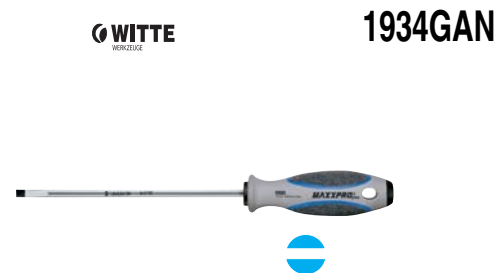
Professional line for high performance screwdrivers. Anatomic, triangle shape, antislip handle obtained by combining rigid and soft plastic materials. Equipped with a patented, slip-resistant flocked surface ideal for working also in oily or wet conditions. Blades in EXTRA CHROME VANADIUM silicon steel, graduation marks. Chrome plated matt finish, high precision black blade tip.

With hang up hole.

SCREWDRIVERS FOR ELECTRICIANS (DIN 5264 and ISO 2380)

Type		75	100	125	150	200	300	300A
Blade length	mm	75	100	125	150	200	300	300
Cutting edge width	mm	3	3,5	4	5,5	5,5	4	5,5
Cutting edge thickness	mm	0,5	0,6	0,8	1	1	0,6	1
Handle	mm	103x23	103x23	103x23	107x32	107x32	103x23	107x32
Supplier code		63021	63022	63024	63025	63026	63023	63027
<b>1934GAN</b>	<b>Each</b>	<b>6,68</b>	<b>7,40</b>	<b>7,98</b>	<b>9,04</b>	<b>11,10</b>	<b>12,80</b>	<b>14,30</b>

Supplied in 10-pcs packing.



Product description as Art. 1934GAN  
POZIDRIV-TIPPED SCREWDRIVERS (DIN 5260/5261 and ISO 8764)

Size		0	1	1L	2	2L	3	4
Blade length	mm	60	80	300	100	300	150	200
Blade Ø	mm	3	4,5	4,5	6	6	8	10
For screws	M.	1,6-2	2,5-3	2,5-3	3,5-5	3,5-5	5,5-6,3	8-10
Handle	mm	103x23	107x32	107x32	117x37	117x37	127x39	127x39
Supplier code		63041	63042	63044	63045	63047	63048	63049
<b>1934GCN</b>	<b>Each</b>	<b>7,50</b>	<b>9,46</b>	<b>15,80</b>	<b>12,30</b>	<b>20,20</b>	<b>17,10</b>	<b>26,90</b>

Supplied in 10-pcs packing.



**1934GCR**

**WITTE**  
WERKZEUGE


Product description as Art. 1934GAN

POZIDRIV-TIPPED SCREWDRIVERS WITH HEXAGON RECEPTACLE (ISO 8764)

Size		1	2	3
Blade length	mm	80	100	150
Blade Ø	mm	4,5	6	8
Hexagon	mm	6	10	13
For screws	M.	2-3	3,5-5	5,5-7
Handle	mm	107x32	117x37	127x39
Supplier code		63601	63602	63603
<b>1934GCR</b>	<b>Each</b>	<b>11,70</b>	<b>15,10</b>	<b>19,80</b>

Supplied in 10-pcs packing.

**1934GDN**

**WITTE**  
WERKZEUGE


Product description as Art. 1934GAN

PHILLIPS-TIPPED SCREWDRIVERS (DIN 5260/5261 and ISO 8764)

Size		0	1	1L	2	2L	3	4
Blade length	mm	60	80	300	100	300	150	200
Blade Ø	mm	3	4,5	4,5	6	6	8	10
For screws	M.	1,6-2	2-3	2-3	3,5-5	3,5-5	5,5-7	8-10
Handle	mm	103x23	107x32	107x32	117x37	117x37	127x39	127x39
Supplier code		63031	63032	63034	63035	63037	63038	63039
<b>1934GDN</b>	<b>Each</b>	<b>6,50</b>	<b>8,18</b>	<b>13,90</b>	<b>10,40</b>	<b>19,00</b>	<b>15,50</b>	<b>24,10</b>

Supplied in 10-pcs packing.

**1934GEP**

**WITTE**  
WERKZEUGE


Product description as Art. 1934GAN

PHILLIPS-TIPPED SCREWDRIVERS WITH HEXAGON RECEPTACLE (DIN 5260/5261 and ISO 8764)

Size		1	2	3
Blade length	mm	80	100	150
Blade Ø	mm	4,5	6	8
Hexagon	mm	6	10	13
For screws	M.	2-3	3,5-5	5,5-7
Handle	mm	107x32	117x37	127x39
Supplier code		63501	63502	63503
<b>1934GEP</b>	<b>Each</b>	<b>10,30</b>	<b>13,50</b>	<b>18,70</b>

Supplied in 10-pcs packing.

**1934GFN**

**WITTE**  
WERKZEUGE


Product description as Art. 1934GAN

SCREWDRIVERS, ROUND BLADE - FLAT-TIP (DIN 5264 and ISO 2380)

Type		75	75A	100	100A	100B	125	125A
Blade length	mm	75	75	100	100	100	125	125
Blade Ø	mm	3,5	4	3,5	4	5	5	6
Cutting edge	mm	3,5x0,6	4x0,8	3,5x0,6	4x0,8	5,5x1	5,5x1	6,5x1,2
Handle	mm	103x23	103x23	103x23	103x23	107x32	107x32	117x37
Supplier code		63101	63103	63102	63104	63105	63106	63107
<b>1934GFN</b>	<b>Each</b>	<b>7,20</b>	<b>7,70</b>	<b>7,64</b>	<b>8,12</b>	<b>10,70</b>	<b>11,10</b>	<b>12,10</b>

Type		150	150A	175	200
Blade length	mm	150	150	175	200
Blade Ø	mm	6	7	7	8
Cutting edge	mm	6,5x1,2	8x1,2	8x1,6	10x1,6
Handle	mm	117x37	127x39	127x39	127x39
Supplier code		63108	63109	63110	63111
<b>1934GFN</b>	<b>Each</b>	<b>13,30</b>	<b>15,40</b>	<b>15,80</b>	<b>19,40</b>

Supplied in 10-pcs packing.

**1934GLN**

**WITTE**  
WERKZEUGE


Product description as Art. 1934GAN

SCREWDRIVERS WITH FLAT-TIP AND HEXAGON RECEPTACLE (DIN 5264 and ISO 2380)

Blade length	mm	100	125	150	175
Blade Ø	mm	5,5	6	8	8
Hexagon	mm	8	10	13	13
Cutting edge	mm	5,5x1	6,5x1,2	8x1,2	10x1,6
Handle	mm	107x32	117x37	127x39	127x39
Supplier code		63011	63012	63013	63014
<b>1934GLN</b>	<b>Each</b>	<b>11,90</b>	<b>15,10</b>	<b>17,30</b>	<b>18,60</b>

Supplied in 10-pcs packing.

Product description as Art. 1934GAN  
 SCREWDRIVERS FOR TORX SCREWS

TORX size	T	5	6	7	8	9	10	15
Blade length	mm	60	60	60	60	60	80	80
For screws	M.	1,6-2	1,6-2	1,6-2	2,5	3	3	3,5
Seal	mm	1,42	1,7	1,99	2,31	2,5	2,74	3,27
Handle	mm	103x23	103x23	103x23	103x23	103x23	103x23	103x23
Supplier code		63201	63202	63203	63204	63205	63206	63207
<b>1934GMN</b>	<b>Each</b>	<b>8,22</b>	<b>8,22</b>	<b>8,22</b>	<b>8,22</b>	<b>8,36</b>	<b>8,70</b>	<b>8,76</b>

TORX size	T	20	25	27	30	40	45
Blade length	mm	100	100	115	115	115	130
For screws	M.	4	5	5	6	8	8-10
Seal	mm	3,86	4,43	4,99	5,52	6,65	8,83
Handle	mm	107x32	107x32	117x37	117x37	127x39	127x39
Supplier code		63208	63209	63210	63211	63212	63213
<b>1934GMN</b>	<b>Each</b>	<b>9,32</b>	<b>9,72</b>	<b>11,10</b>	<b>11,40</b>	<b>12,50</b>	<b>13,70</b>

Supplied in 10-pcs packing.


 Product description as Art. 1934GAN  
 SCREWDRIVERS FOR TORX SCREWS WITH HANG-UP HOLE

TORX size	T	7	8	9	10	15	20	25
Blade length	mm	60	60	60	80	80	100	100
For screws	M.	1,6-2	2,5	3	3,5	3,5	4	5
Seal	mm	1,99	2,31	2,5	2,74	3,27	3,86	4,43
Handle	mm	103x23	103x23	103x23	103x23	103x23	107x32	107x32
Supplier code		63303	63304	63305	63306	63307	63308	63309
<b>1934GON</b>	<b>Each</b>	<b>9,28</b>	<b>9,28</b>	<b>9,38</b>	<b>11,30</b>	<b>11,60</b>	<b>11,70</b>	<b>12,10</b>

TORX size	T	27	30	40	45
Blade length	mm	115	115	115	130
For screws	M.	5	6	8	8-10
Seal	mm	4,99	5,52	6,65	7,82
Handle	mm	117x37	117x37	127x39	127x39
Supplier code		63310	63311	63312	63313
<b>1934GON</b>	<b>Each</b>	<b>12,40</b>	<b>13,70</b>	<b>14,70</b>	<b>15,70</b>

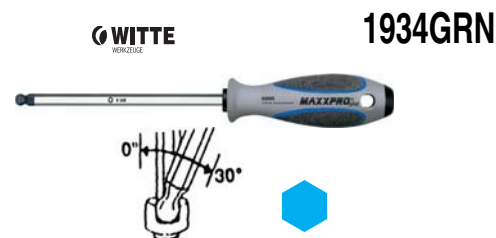
Supplied in 10-pcs packing.


 Product description as Art. 1934GAN  
 SCREWDRIVERS FOR ALLEN HEAD SCREWS

Model with a spherical head giving a working angle up to 30°; for Allen screws.

Hexagon	mm	3	4	5	6	8
Blade length	mm	100	100	100	125	150
Handle	mm	103x23	103x23	107x32	117x37	127x39
Supplier code		63051	63052	63053	63054	63055
<b>1934GRN</b>	<b>Each</b>	<b>7,22</b>	<b>7,50</b>	<b>8,76</b>	<b>10,70</b>	<b>15,10</b>

Supplied in 10-pcs packing.



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 Product description as Art. 1934GAN  
 HEXAGONAL NUT DRIVERS

Blade length: 125mm.

Hexagon opening	mm	3,5	4	4,5	5	5,5	6	7
Handle	mm	107x32	107x32	107x32	107x32	107x32	117x37	117x37
Supplier code		63401	63402	63403	63404	63405	63406	63407
<b>1936GA</b>	<b>Each</b>	<b>12,90</b>	<b>12,90</b>	<b>12,90</b>	<b>12,90</b>	<b>12,90</b>	<b>13,70</b>	<b>14,30</b>

Hexagon opening	mm	8	9	10	11	12	13	14
Handle	mm	117x37	117x37	117x37	127x39	127x39	127x39	127x39
Supplier code		63408	63409	63410	63411	63412	63413	63414
<b>1936GA</b>	<b>Each</b>	<b>14,70</b>	<b>15,30</b>	<b>16,30</b>	<b>17,40</b>	<b>18,30</b>	<b>18,50</b>	<b>20,10</b>

Hexagon opening	mm	17
Handle	mm	127x39
Supplier code		63415
<b>1936GA</b>	<b>Each</b>	<b>21,60</b>

Supplied in 10-pcs packing.


 Product description as Art. 1934GAN  
 FLEXIBLE HEXAGONAL NUT DRIVERS

Blade length: 200mm.

Hexagon opening	mm	5	5,5	6	7	8
Handle	mm	117x37	117x37	117x37	117x37	117x37
Supplier code		63081	63082	63083	63084	63085
<b>1936GB</b>	<b>Each</b>	<b>24,60</b>	<b>24,60</b>	<b>24,60</b>	<b>25,10</b>	<b>25,70</b>

Supplied in 10-pcs packing.



## SCREWDRIVERS LINE "PROTOP II IMPACT"

1936GL


**Orig. Witte**

Professional line for high performance screwdrivers. Anatomic antislip handle obtained by combining rigid and soft plastic materials, and hand impact end cap made of steel for use with hammer. Blade tanged through the handle, in special steel, with hexagon bolster and graduation marks.

Chrome plated matt finish, high precision black blade tip.

SCREWDRIVERS FLAT TIPPED WITH HEXAGON AND STEEL PERCUSSION CALOTTE (DIN 5264 - ISO 2380 - DIN 475)

		75	90	100	125	150	175
Blade length	mm	75	90	100	125	150	175
Blade Ø	mm	4,5	4,5	6	7	8	9
Hexagon	mm	6	6	8	10	13	13
Cutting edge	mm	3,5x0,6	4x0,8	5,5x1	6,5x1,2	8x1,2	10x1,6
Handle	mm	105x25	105x25	115x34	115x34	125x37	125x37
Supplier code		83801	83802	83803	83804	83805	83806
<b>1936GL</b>	<b>Each</b>	<b>9,66</b>	<b>10,50</b>	<b>12,50</b>	<b>16,50</b>	<b>19,50</b>	<b>21,10</b>

1936GM




Product description as Art. 1936GL

SCREWDRIVERS PHILLIPS TIPPED WITH HEXAGON AND STEEL PERCUSSION CALOTTE (DIN 5260 - ISO 8764 - DIN 475)

		1	2	3
Size		1	2	3
Blade length	mm	85	100	150
Blade Ø	mm	4,5	6	8
Hexagon	mm	6	10	13
For screws	M	2-3	3,5-5	5,5-7
Handle	mm	105x25	115x34	125x37
Supplier code		83901	83902	83903
<b>1936GM</b>	<b>Each</b>	<b>11,20</b>	<b>15,10</b>	<b>20,90</b>

1936GP




Product description as Art. 1936GL

SCREWDRIVERS POZIDRIV TIPPED WITH HEXAGON AND STEEL PERCUSSION CALOTTE (ISO 8764 - DIN 475)

		1	2	3
Size		1	2	3
Blade length	mm	85	100	150
Blade Ø	mm	4,5	6	8
Hexagon	mm	6	10	13
For screws	M	2-3	3,5-5	5,5-7
Handle	mm	105x25	115x34	125x37
Supplier code		84001	84002	84003
<b>1936GP</b>	<b>Each</b>	<b>14,30</b>	<b>17,10</b>	<b>22,90</b>

## HEXAGONAL SCREWDRIVERS

1937GA


**Prod. SCU**

Blade tanged through the handle, in special steel, chrome plated, with hexagon bolster. Wooden handle with leather end cap.

Flat-tipped model.

		75	100	125	150	200
Blade length	mm	75	100	125	150	200
Cutting edge width	mm	3,5	5,5	7	9	12
Hexagon	mm	6	8	10	12	13
<b>1937GA</b>	<b>Each</b>	<b>4,24</b>	<b>4,88</b>	<b>5,82</b>	<b>7,00</b>	<b>11,30</b>

1937GE




Product description as Art. 1937GA

PHILLIPS-tipped model.

		1	2	3
Size		1	2	3
Blade length	mm	85	100	150
Hexagon	mm	8	10	12
<b>1937GE</b>	<b>Each</b>	<b>4,82</b>	<b>5,06</b>	<b>7,10</b>

1938GD


**Orig. Witte**

Blade tanged through the handle, riveted, in CHROME VANADIUM steel, polished nickel finish, with hexagon bolster.

Hardwood handle with leather end cap.

Flat-tipped model.

		75	90	100	125	150	175	200	250
Blade length	mm	75	90	100	125	150	175	200	250
Blade Ø	mm	4,5	4,5	5,5	7	8	9	9	11
Cutting edge width	mm	3,5	4,5	5,5	7	9	10	12	13
Hexagon	mm	6	6	8	10	13	13	16	16
Supplier code		96101	96102	96103	96104	96105	96106	96107	96108
<b>1938GD</b>	<b>Each</b>	<b>8,40</b>	<b>8,72</b>	<b>9,32</b>	<b>12,30</b>	<b>15,90</b>	<b>18,20</b>	<b>22,10</b>	<b>30,20</b>

Supplied in 10-pcs packing.

Product description as Art. 1938GD

PHILLIPS-tipped model.

Size		1	2	3	4
Blade length	mm	85	100	150	200
Blade Ø	mm	4,5	6	8	10
Hexagon	mm	6	10	13	16
Supplier code		96301	96302	96303	96304
<b>1938GF</b>	Each	<b>10,80</b>	<b>11,80</b>	<b>16,70</b>	<b>23,80</b>

Supplied in 10-pcs packing.



**1938GF**

Blade tanged through the handle, riveted, in CHROME VANADIUM steel, matt chrome finish, with hexagon bolster.

Hardwood handle with leather end cap.

POZIDRIV-tipped model.

Size		1	2	3	4
Blade length	mm	85	100	150	200
Blade Ø	mm	4,5	6	8	10
Hexagon	mm	6	10	13	16
Supplier code		96701	96702	96703	96704
<b>1938GP</b>	Each	<b>12,50</b>	<b>14,60</b>	<b>19,80</b>	<b>27,60</b>

Supplied in 10-pcs packing.



**1938GP**

**SCREWDRIVERS FOR SLOTTED SCREWS**

Orig. Gedore - Art. 148

Exagonal blade in CHROME VANADIUM steel. Sturdy execution with blade tanged through the handle. Polished hardwood handle with leather end cap.

Heavy duty.

	mm	100	125	150	175	200	250
Blade length	mm	100	125	150	175	200	250
Cutting edge	mm	5,5x0,8	7x1	8x1,2	10x1,6	12x2	14x2,5
Blade section	mm	5,5	7	8	10	12	14
Handle	mm	95x23	100x25	120x30	125x32	130x33	140x35
<b>1940G</b>	Each	<b>19,90</b>	<b>24,80</b>	<b>33,40</b>	<b>41,10</b>	<b>52,10</b>	<b>56,40</b>



**1940G**

Orig. Gedore

Set of 5 screwdrivers Art. 1940 G.

Blade length: 125 - 150 - 175 - 200 - 250mm.

Painted wooden base.

<b>1940GS</b>	Per set	<b>240,40</b>
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**1940GS**

8

**VDE "MAXXPRO" SCREWDRIVERS SETS**
**1943GB**

**WITTE**
**Orig. Witte - Art. 653741**

Professional line for high performance screwdrivers. Anatomic, triangle shape, antislip handle obtained combining rigid and soft plastic materials. Finest high alloy special steel blades with strong insulation according to DIN EN 60900 norms up to 1000 V (individually tested at 10.000 V at manufacturer's).

Tested up to a temperature of -40° C (mark C), VDE MAXXPRO screwdrivers resist extreme changes in temperature.

Each set consists of 5 items:

- 1 x flat-tip screwdriver Art. 1921 GAx75
- 1 x flat-tip screwdriver Art. 1921 GAx100 B
- 1 x flat-tip screwdriver Art. 1921 GAx125
- 1 x Phillips-tip screwdriver Art. 1921 GBx1
- 1 x Phillips-tip screwdriver Art. 1921 GBx2.

Supplied in cardboard packing.

Sold as assorted set.

<b>1943GB</b>	Each	<b>37,30</b>
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**1943GC**

**WITTE**
**Orig. Witte**

Product description as Art. 1943GB

Each set consists of 5 items:

- 1 x Phillips-tip screwdriver Art. 1921 GBx0
- 1 x Phillips-tip screwdriver Art. 1921 GBx1.
- 1 x Phillips-tip screwdriver Art. 1921 GBx2.
- 1 x Phillips-tip screwdriver Art. 1921 GBx3.
- 1 x Phillips-tip + straight tip screwdriver Art. 1921 GCx2.

Supplied in cardboard packing.

Sold as assorted set.

<b>1943GC</b>	Each	<b>51,20</b>
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**1943GE**

**WITTE**
**Orig. Witte - Art. 653742**

Product description as Art. 1943GB

Each set consists of 6 items:

- 1 x flat-tip screwdriver Art. 1921 GAx75
- 1 x flat-tip screwdriver Art. 1921 GAx100 B
- 1 x flat-tip screwdriver Art. 1921 GAx125
- 1 x flat-tip screwdriver Art. 1921 GAx150
- 1 x Phillips-tip screwdriver Art. 1921 GBx1
- 1 x Phillips-tip screwdriver Art. 1921 GBx2.

Supplied in cardboard packing

Sold as assorted set.

<b>1943GE</b>	Each	<b>43,60</b>
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**1943GF**

**WITTE**
**Orig. Witte - Art. 653747**

Product description as Art. 1943GB

Each set consists of 7 items:

- 1 x flat-tip screwdriver Art. 1921 GAx75
- 1 x flat-tip screwdriver Art. 1921 GAx100 B
- 1 x flat-tip screwdriver Art. 1921 GAx125
- 1 x flat-tip screwdriver Art. 1921 GAx150
- 1 x Phillips-tip screwdriver Art. 1921 GBx1
- 1 x Phillips-tip screwdriver Art. 1921 GBx2
- 1 x phase detecting screwdriver 220-250 V.

Supplied in cardboard packing.

Sold as assorted set.

<b>1943GF</b>	Each	<b>48,80</b>
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**1943GL**

**WITTE**
**Orig. Witte**

Product description as Art. 1943GB

Each set consists of 7 items:

- 1 x flat-tip screwdriver Art. 1921 GAx75
- 1 x flat-tip screwdriver Art. 1921 GAx100
- 1 x flat-tip screwdriver Art. 1921 GAx100 A
- 1 x flat-tip screwdriver Art. 1921 GAx100 B
- 1 x flat-tip screwdriver Art. 1921 GAx125
- 1 x flat-tip screwdriver Art. 1921 GAx150
- 1 x flat-tip screwdriver Art. 1921 GAx175

Supplied in cardboard packing.

Sold as assorted set.

<b>1943GL</b>	Each	<b>62,70</b>
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**SLIM VDE "PROTOP" SCREWDRIVERS SETS**

**Orig. Witte - Art. 670080**

Screwdrivers, professional for high-performance, anatomic antislip handle, obtained by the combination of hard and soft plastic. Special high-alloy steel blades with strong insulation according to DIN EN 60900 up to 1000 V (with a single production test to 10,000 V). TYPE WITH WIRE BLADE INSULATION FOR OPERATIONS IN POSITIONS OF DIFFICULT ACCESS

Set of 5 items:

- 1 flat tip screwdriver Art. 1922 GBx100
  - 1 flat tip screwdriver Art. 1922 GBx100 A
  - 1 flat tip screwdriver Art. 1922 GBx125
  - 1 PHILLIPS screwdriver Art. 1922 GCx1
  - 1 PHILLIPS screwdriver Art. 1922 GCx2.
- in cardboard box.

The set

**1943GLA** Each **53,80**



**Orig. Witte - Art. 670082**

Product description as Art. 1943GLA

TYPE WITH WIRE BLADE INSULATION FOR OPERATIONS IN POSITIONS OF DIFFICULT ACCESS

Set of 6 items:

- 1 flat tip screwdriver Art. 1922 GBx100
  - 1 flat tip screwdriver Art. 1922 GBx100 A
  - 1 flat tip screwdriver Art. 1922 GBx125
  - 1 flat tip screwdriver Art. 1922 GBx150
  - 1 PHILLIPS screwdriver Art. 1922 GCx1
  - 1 PHILLIPS screwdriver Art. 1922 GCx2.
- in cardboard box.

The set

**1943GM** Each **68,60**



**Orig. Witte - Art. 670083**

Product description as Art. 1943GLA

TYPE WITH WIRE BLADE INSULATION FOR OPERATIONS IN POSITIONS OF DIFFICULT ACCESS

Set of 6 items:

- 1 flat tip screwdriver Art. 1922 GBx100
  - 1 flat tip screwdriver Art. 1922 GBx100 A
  - 1 flat tip screwdriver Art. 1922 GBx125
  - 1 flat tip screwdriver Art. 1922 GBx150
  - 1 PZD screwdriver Art. 1922 GFx1
  - 1 PZD screwdriver Art. 1922 GCx2.
- in cardboard box.

The set

**1943GP** Each **74,00**



**8**

**SETS OF VDE INSULATED SCREWDRIVERS**

**Prod. SCU**

Model with ergonomic handle in unbreakable plastic material and blade in special steel insulated according to VDE 0680 norms up to 1000 V.

Each set consists of 7 items:

- 1 x flat-tip screwdriver Art. 1923 GAx75
- 1 x flat-tip screwdriver Art. 1923 GAx100
- 1 x flat-tip screwdriver Art. 1923 GAx125
- 1 x flat-tip screwdriver Art. 1923 GAx150
- 1 x Phillips-tip screwdriver Art. 1923 GEx1
- 1 x Phillips-tip screwdriver Art. 1923 GEx2
- 1 x phase detecting screwdriver 220-250 V.

Supplied in case

Sold as assorted set.

**1943GT** Each **21,20**



**SCREWDRIVERS' LINE "MAXXPRO" SETS**
**1948GA**

**WITTE**  
HERZLIG
**Orig. Witte - Art. 653865**

Professional line for high performance screwdrivers. Anatomic, triangle shape, antislip handle obtained combining rigid and soft plastic materials. Blades in EXTRA CHROME VANADIUM silicon steel, graduation marks. Chrome plated matt finish, high precision black blade tip. With hang up hole.

Each set consists of 5 items:

- 1 x flat-tip screwdriver Art. 1932 GLx75A
- 1 x flat-tip screwdriver Art. 1932 GLx100B
- 1 x flat-tip screwdriver Art. 1932 GLx125A
- 1 x Phillips-tip screwdriver Art. 1932 GBx1
- 1 x Phillips-tip screwdriver Art. 1932 GBx2.

Supplied in cardboard packing

Sold as assorted set.

<b>1948GA</b>	Each	<b>37,70</b>
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**1948GE**

**WITTE**  
HERZLIG
**Orig. Witte - Art. 653866**

Product description as Art. 1948GA

Each set consists of 5 items:

- 1 x flat-tip screwdriver Art. 1932 GLx75A
- 1 x flat-tip screwdriver Art. 1932 GLx100B
- 1 x flat-tip screwdriver Art. 1932 GLx125A
- 1 x Pozidriv-tip screwdriver Art. 1932 GFx1
- 1 x Pozidriv-tip screwdriver Art. 1932 GFx2.

Supplied in cardboard packing

Sold as assorted set.

<b>1948GE</b>	Each	<b>41,60</b>
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**1948GF**

**WITTE**  
HERZLIG
**Orig. Witte - Art. 653725**

Product description as Art. 1948GA

Each set consists of 5 items:

- 1 x hexagonal nut driver Art. 1932 GRx5
- 1 x hexagonal nut driver Art. 1932 GRx5.5
- 1 x hexagonal nut driver Art. 1932 GRx6
- 1 x hexagonal nut driver Art. 1932 GRx7
- 1 x hexagonal nut driver Art. 1932 GRx8

Supplied in cardboard packing

Sold as assorted set.

<b>1948GF</b>	Each	<b>59,10</b>
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**1948GH**

**WITTE**  
HERZLIG
**Orig. Witte - Art. 653754**

Product description as Art. 1948GA

Each set consists of 6 items:

- 1 x flat-tip screwdriver Art. 1932 GLx100B
- 1 x flat-tip screwdriver Art. 1932 GLx125A
- 1 x Phillips-tip screwdriver Art. 1932 GBx1
- 1 x Phillips-tip screwdriver Art. 1932 GBx2
- 1 x Pozidriv-tip screwdriver PZ Art. 1932 GFx1
- 1 x Pozidriv-tip screwdriver Art. 1932 GFx2.

Supplied in cardboard packing

Sold as assorted set.

<b>1948GH</b>	Each	<b>51,50</b>
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**1948GL**

**WITTE**  
HERZLIG
**Orig. Witte - Art. 653864**

Product description as Art. 1948GA

Each set consists of 6 items:

- 1 x flat-tip screwdriver Art. 1932 GLx75A
- 1 x flat-tip screwdriver Art. 1932 GLx100B
- 1 x flat-tip screwdriver Art. 1932 GLx125A
- 1 x flat-tip screwdriver Art. 1932 GLx150A
- 1 x Phillips-tip screwdriver Art. 1932 GBx1
- 1 x Phillips-tip screwdriver Art. 1932 GBx2.

Supplied in cardboard packing

Sold as assorted set.

<b>1948GL</b>	Each	<b>47,60</b>
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**Orig. Witte**

Product description as Art. 1948GA

Each set consists of 6 items:

- 1 x Phillips-tip screwdriver Art. 1932 GBx0
- 1 x Phillips-tip screwdriver Art. 1932 GBx1
- 1 x Phillips-tip screwdrivers Art. 1932 GBx2
- 1 x Phillips-tip screwdriver Art. 1932 GBx3
- 1 x Phillips-tip screwdriver Art. 1933 GBx1, short pattern
- 1 x Phillips-tip screwdriver Art. 1933 GBx2, short pattern

Supplied in cardboard packing.

Sold as assorted set.

**1948GM** Each **49,60**



**Orig. Witte - Art. 653863**

Product description as Art. 1948GA

Each set consists of 6 items:

- 1 x flat-tip screwdriver Art. 1932 GLx75A
- 1 x flat-tip screwdriver Art. 1932 GLx100B
- 1 x flat-tip screwdriver Art. 1932 GLx125A
- 1 x flat-tip screwdriver Art. 1932 GLx150A
- 1 x Pozidriv-tip screwdriver Art. 1932 GFx1
- 1 x Pozidriv-tip screwdriver Art. 1932 GFx2.

Supplied in cardboard packing

Sold as assorted set.

**1948GR** Each **51,50**



**Orig. Witte**

Product description as Art. 1948GA

Each set consists of 6 items:

- 1 x flat-tip screwdriver Art. 1932 GAx75
- 1 x flat-tip screwdriver Art. 1932 GLx75
- 1 x flat-tip screwdriver Art. 1932 GLx100A
- 1 x flat-tip screwdriver Art. 1932 GLx125
- 1 x flat-tip screwdriver Art. 1932 GLx150
- 1 x flat-tip screwdriver Art. 1932 GLx150A

Supplied in cardboard packing

Sold as assorted set.

**1948GS** Each **50,90**



**Orig. Witte - Art. 653980**

Product description as Art. 1948GA

Each set consists of 6 items:

- 1 x TORX screwdriver Art. 1932 GPxT10
- 1 x TORX screwdriver Art. 1932 GPxT15
- 1 x TORX screwdriver Art. 1932 GPxT20
- 1 x TORX screwdriver Art. 1932 GPxT25
- 1 x TORX screwdriver Art. 1932 GPxT30
- 1 x TORX screwdriver Art. 1932 GPxT40.

Supplied in cardboard packing

Sold as assorted set.

**1948GT** Each **50,30**



**Orig. Witte - Art. 653726**

Product description as Art. 1948GA

Each set consists of 6 items:

- 1 x TORX screwdriver with hole Art. 1932 GQxT10
- 1 x TORX screwdriver with hole Art. 1932 GQxT15
- 1 x TORX screwdriver with hole Art. 1932 GQxT20
- 1 x TORX screwdriver with hole Art. 1932 GQxT25
- 1 x TORX screwdriver with hole Art. 1932 GQxT30
- 1 x TORX screwdriver with hole Art. 1932 GQxT40.

Supplied in cardboard packing

Sold as assorted set.

**1948GV** Each **57,50**



8

**INOX SCREWDRIVERS' LINE "MAXXPRO" SETS**
**1949GA**

**WITTE**  
WERKZEUGE
**Orig. Witte - Art. 67002**

Screwdrivers, professional line for high performances. Stainless steel blades, antistatic, long lasting, high torsion values.

Anatomic, triangle shape, antislip handle obtained combining rigid and soft plastic materials. Hang-up hole. Suitable to manufacture and maintain any kind of product requiring the tightening of stainless steel screws. Thus to avoid metal scrap contaminations that could cause the formation of rust on screws.

Each set consists of 5 items:

- 1 x flat-tip screwdriver Art. 1932 GZAx75
- 1 x flat-tip screwdriver Art. 1932 GZAx100
- 1 x flat-tip screwdriver Art. 1932 GZAx125
- 1 x Phillips-tip screwdriver Art. 1932 GZBx1
- 1 x Phillips-tip screwdriver Art. 1932 GZBx2

Supplied in cardboard packing.

Sold as assorted set.

<b>1949GA</b>	Each	<b>57,20</b>
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**1949GE**

**WITTE**  
WERKZEUGE
**Orig. Witte - Art. 67001**

Product description as Art. 1949GA

Each set consists of 5 items:

- 1 x flat-tip screwdriver Art. 1932 GZAx75
- 1 x flat-tip screwdriver Art. 1932 GZAx100
- 1 x flat-tip screwdriver Art. 1932 GZAx125
- 1 x Pozidriv-tip screwdriver Art. 1932 GZFx1
- 1 x Pozidriv-tip screwdriver Art. 1932 GZFx2

Supplied in cardboard packing.

Sold as assorted set.

<b>1949GE</b>	Each	<b>63,10</b>
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**1949GH**

**WITTE**  
WERKZEUGE
**Orig. Witte - Art. 67007**

Product description as Art. 1949GA

Each set consists of 6 items:

- 1 x flat-tip screwdriver Art. 1932 GZAx75
- 1 x flat-tip screwdriver Art. 1932 GZAx100
- 1 x flat-tip screwdriver Art. 1932 GZAx125
- 1 x flat-tip screwdriver Art. 1932 GZAx150
- 1 x Phillips-tip screwdriver Art. 1932 GZBx1
- 1 x Phillips-tip screwdriver Art. 1932 GZBx2

Supplied in cardboard packing.

Sold as assorted set.

<b>1949GH</b>	Each	<b>74,30</b>
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**1949GL**

**WITTE**  
WERKZEUGE
**Orig. Witte - Art. 67006**

Product description as Art. 1949GA

Each set consists of 6 items:

- 1 x flat-tip screwdriver Art. 1932 GZAx75
- 1 x flat-tip screwdriver Art. 1932 GZAx100
- 1 x flat-tip screwdriver Art. 1932 GZAx125
- 1 x flat-tip screwdriver Art. 1932 GZAx150
- 1 x Pozidriv-tip screwdriver Art. 1932 GZFx1
- 1 x Pozidriv-tip screwdriver Art. 1932 GZFx2

Supplied in cardboard packing.

Sold as assorted set.

<b>1949GL</b>	Each	<b>80,30</b>
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**1949GV**

**WITTE**  
WERKZEUGE
**Orig. Witte - Art. 67008**

Product description as Art. 1949GA

Each set consists of 6 items:

- 1 x screwdriver for TORX SCREWS Art. 1932 GZP 10
- 1 x screwdriver for TORX SCREWS Art. 1932 GZP 15
- 1 x screwdriver for TORX SCREWS Art. 1932 GZP 20
- 1 x screwdriver for TORX SCREWS Art. 1932 GZP 25
- 1 x screwdriver for TORX SCREWS Art. 1932 GZP 30
- 1 x screwdriver for TORX SCREWS Art. 1932 GZP 40

Supplied in cardboard packing.

+H63.

<b>1949GV</b>	Each	<b>71,70</b>
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**SCREWDRIVERS' LINE "MAXXPRO PLUS" SETS**
**Orig. Witte - Art. 663865**

Professional line for high performance screwdrivers. Anatomic, triangle shape, antislip handle obtained by combining rigid and soft plastic materials. Equipped with a patented, slip-resistant flocked surface ideal for working also in oily or wet conditions. Blades in EXTRA CHROME VANADIUM silicon steel, graduation marks. Chrome plated matt finish, high precision black blade tip.

With hang up hole.

Each set consists of 5 items:

- 1 x flat-tip screwdriver Art. 1934 GFNx75A
- 1 x flat-tip screwdriver Art. 1934 GFNx100B
- 1 x flat-tip screwdriver Art. 1934 GFNx125A
- 1 x Phillips-tip screwdriver Art. 1934 GDNx1
- 1 x Phillips-tip screwdriver Art. 1934 GDNx2.

Supplied in cardboard packing

Sold as assorted set.

**1950GA** Each **51,40**


**1950GA**

**Orig. Witte - Art. 663866**

Product description as Art. 1950GA

Each set consists of 5 items:

- 1 x flat-tip screwdriver Art. 1934 GFNx75A
- 1 x flat-tip screwdriver Art. 1934 GFNx100B
- 1 x flat-tip screwdriver Art. 1934 GFNx125A
- 1 x Pozidriv -tip screwdriver Art. 1934 GCNx1
- 1 x Pozidriv-tip screwdriver Art. 1934 GCNx2.

Supplied in cardboard packing

Sold as assorted set.

**1950GE** Each **55,30**


**1950GE**

**Orig. Witte - Art. 663864**

Product description as Art. 1950GA

Each set consists of 6 items:

- 1 x flat-tip screwdriver Art. 1934 GFNx75A
- 1 x flat-tip screwdriver Art. 1934 GFNx100B
- 1 x flat-tip screwdriver Art. 1934 GFNx125A
- 1 x flat-tip screwdriver Art. 1934 GFNx150A
- 1 x Phillips-tip screwdriver Art. 1934 GDNx1
- 1 x Phillips-tip screwdriver Art. 1934 GDNx2.

Supplied in cardboard packing

Sold as assorted set.

**1950GL** Each **65,40**


**1950GL**

**8**
**Orig. Witte - Art. 663870**

Product description as Art. 1950GA

Each set consists of 6 items:

- 1 x flat-tip screwdriver with hexagon receptacle Art. 1934 GLNx100
- 1 x flat-tip screwdriver with hexagon receptacle Art. 1934 GLNx125
- 1 x flat-tip screwdriver with hexagon receptacle Art. 1934 GLNx150
- 1 x Phillips-tip screwdriver with hexagon receptacle Art. 1934 GEPx1
- 1 x Phillips-tip screwdriver and hexagon receptacle Art. 1934 GEPx2.
- 1 x Phillips-tip screwdriver and hexagon receptacle Art. 1934 GEPx3.

Supplied in cardboard packing

Sold as assorted set.

**1950GPA** Each **87,20**


**1950GPA**

**Orig. Witte - Art. 663863**

Product description as Art. 1950GA

Each set consists of 6 items:

- 1 x flat-tip screwdriver Art. 1934 GFNx75A
- 1 x flat-tip screwdriver Art. 1934 GFNx100B
- 1 x flat-tip screwdriver Art. 1934 GFNx125A
- 1 x flat-tip screwdriver Art. 1934 GFNx150A
- 1 x Pozdran-tip screwdriver Art. 1934 GCNx1
- 1 x Pozdran-tip screwdriver Art. 1934 GCNx2.

Supplied in cardboard packing.

Sold as assorted set.

**1950GR** Each **68,20**


**1950GR**


**1950GV**

**WITTE**  
WERKZEUGE
**Orig. Witte - Art. 663980**

Product description as Art. 1950GA

Each set consists of 6 items:

- 1 x TORX screwdriver Art. 1934 GMNxT10
- 1 x TORX screwdriver Art. 1934 GMNxT15
- 1 x TORX screwdriver Art. 1934 GMNxT20
- 1 x TORX screwdriver Art. 1934 GMNxT25
- 1 x TORX screwdriver Art. 1934 GMNxT30
- 1 x TORX screwdriver Art. 1934 GMNxT40.

Supplied in cardboard packing

Sold as assorted set.

<b>1950GV</b>	Each	<b>63,40</b>
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**1950GZ**

**WITTE**  
WERKZEUGE
**Orig. Witte - Art. 663723**

Product description as Art. 1950GA

Each set consists of 6 items:

- 1 x TORX screwdriver with hole Art. 1934 GONxT10
- 1 x TORX screwdriver with hole Art. 1934 GONxT15
- 1 x TORX screwdriver with hole Art. 1934 GONxT20
- 1 x TORX screwdriver with hole Art. 1934 GONxT25
- 1 x TORX screwdriver with hole Art. 1934 GONxT30
- 1 x TORX screwdriver with hole Art. 1934 GONxT40.

Supplied in cardboard packing

Sold as assorted set.

<b>1950GZ</b>	Each	<b>75,10</b>
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**SCREWDRIVERS' LINE "PROTOP II IMPACT" SETS****1951GE**

**WITTE**  
WERKZEUGE
**Orig. Witte - Art. 670090**

Professional line for high performance screwdrivers. Anatomic antislip handle obtained by combining rigid and soft plastic materials, and hand impact end cap made of steel for use with hammer. Blade tanged through the handle, in special steel, with hexagon bolster and graduation marks.

Chrome plated matt finish, high precision black blade tip.

Each set consists of 6 items:

- 1 x flat-tip screwdriver Art. 1936 GLx75
- 1 x flat-tip screwdriver Art. 1936 GLx90
- 1 x flat-tip screwdriver Art. 1936 GLx100
- 1 x flat-tip screwdriver Art. 1936 GLx125
- 1 x Phillips-tip screwdriver PH Art. 1936 GMx1
- 1 x Phillips-tip screwdriver PH Art. 1936 GMx2

Supplied in cardboard packing

Sold as assorted set.

<b>1951GE</b>	Each	<b>77,90</b>
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**1951GF**

**WITTE**  
WERKZEUGE
**Orig. Witte - Art. 670091**

Product description as Art. 1951GE

Each set consists of 6 items:

- 1 x flat-tip screwdriver Art. 1936 GLx75
- 1 x flat-tip screwdriver Art. 1936 GLx90
- 1 x flat-tip screwdriver Art. 1936 GLx100
- 1 x flat-tip screwdriver Art. 1936 GLx125
- 1 x Phillips-tip screwdriver PZ Art. 1936 GPx1
- 1 x Phillips-tip screwdriver PZ Art. 1936 GPx2

Supplied in cardboard packing

Sold as assorted set.

<b>1951GF</b>	Each	<b>82,90</b>
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**WOODEN GRIP SCREWDRIVERS SETS****1951GR**

**WITTE**  
WERKZEUGE
**Orig. Witte - Art. 620306**

Screwdrivers with blade tanged through the handle, riveted, in CHROME VANADIUM steel, polished nickel finish, with hexagon bolster. Hardwood handle with leather end cap.

Each set consists of 5 items:

- 1 x flat-tip screwdriver Art. 1938 GDx90
- 1 x flat-tip screwdriver Art. 1938 GDx100
- 1 x flat-tip screwdriver Art. 1938 GDx125
- 1 x Phillips-tip screwdriver Art. 1938 GFx1
- 1 x Phillips-tip screwdriver Art. 1938 GFx2.

Supplied in cardboard packing

Sold as assorted set.

<b>1951GR</b>	Each	<b>56,40</b>
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**Orig. Witte - Art. 620303**

Product description as Art. 1951GR

Each set consists of 5 items:

- 1 x flat-tip screwdriver Art. 1938 GDx90
- 1 x flat-tip screwdriver Art. 1938 GDx100
- 1 x flat-tip screwdriver Art. 1938 GDx125
- 1 x Pozidriv-tip screwdriver Art. 1938 GPx1
- 1 x Pozidriv-tip screwdriver Art. 1938 GPx2.

Supplied in cardboard packing

Sold as assorted set.

**1951GT** Each **60,90**



**1951GT**

**Orig. Witte - Art. 620302**

Product description as Art. 1951GR

Each set consists of 6 items:

- 1 x flat-tip screwdriver Art. 1938 GDx90
- 1 x flat-tip screwdriver Art. 1938 GDx100
- 1 x flat-tip screwdriver Art. 1938 GDx125
- 1 x flat-tip screwdriver Art. 1938 GDx150
- 1 Phillips-tip screwdriver Art. 1938 GFx1
- 1 x Phillips-tip screwdriver Art. 1938 GFx2.

Supplied in cardboard packing

Sold as assorted set.

**1952G** Each **72,30**



**1952G**

**PLASTIC HANDLE SCREWDRIVERS**

**Prod. SCU**

Blade in CHROME - VANADIUM - MOLYBDENUM, nickel finish. Handle in unbreakable plastic material.

Flat-tipped model, for electricians

Blade length	mm	75	100	125	150	200
Blade Ø	mm	3	3,5	4	5	5
Cutting edge	mm	3	3,5	4	5	5
<b>1970GA</b>	<b>Each</b>	<b>2,48</b>	<b>2,62</b>	<b>2,84</b>	<b>3,34</b>	<b>3,78</b>

Supplied in 12-pcs packing.



**1970GA**

Product description as Art. 1970GA

Flat-tipped model, for mechanics

Blade length	mm	75	100	125	150	175	200
Blade Ø	mm	4	5	6	7	7	8
Cutting edge width	mm	4	5	6	7	8	10
<b>1970GE</b>	<b>Each</b>	<b>2,84</b>	<b>3,08</b>	<b>3,44</b>	<b>4,46</b>	<b>5,68</b>	<b>6,74</b>

Supplied in 12-pcs packing.



**1970GE**

Product description as Art. 1970GA

PHILLIPS-tipped model..

Size		0	1	2	3	4
Blade length	mm	60	80	100	150	200
Blade Ø	mm	3	4,5	6	8	10
<b>1970GP</b>	<b>Each</b>	<b>2,58</b>	<b>2,90</b>	<b>3,70</b>	<b>5,16</b>	<b>7,86</b>

Supplied in 12-pcs packing.



**1970GP**

Product description as Art. 1970GA

POZIDRIV-tipped model

Size		0	1	2	3
Blade length	mm	60	80	100	150
Blade Ø	mm	3	4,5	6	8
<b>1970GPZ</b>	<b>Each</b>	<b>2,66</b>	<b>3,02</b>	<b>4,06</b>	<b>6,00</b>



**1970GPZ**

Product description as Art. 1970GA

Model for TORX screws.

TORX size	T	5	6	7	8	9	10	15
Blade length	mm	50	50	50	60	60	80	80
For screws	M.	1,6-2	1,6-2	1,6-2	2,5	3	3	3,5
Seal	mm	1,42	1,7	1,99	2,31	2,5	2,74	3,27
<b>1970GR</b>	<b>Each</b>	<b>3,98</b>	<b>3,26</b>	<b>3,26</b>	<b>3,26</b>	<b>3,26</b>	<b>3,44</b>	<b>3,60</b>

TORX size	T	20	25	27	30	40	45	50
Blade length	mm	100	100	115	115	130	130	150
For screws	M.	4	5	5	6	8	8-10	10
Seal	mm	3,86	4,43	4,99	5,52	6,65	7,82	8,83
<b>1970GR</b>	<b>Each</b>	<b>3,88</b>	<b>4,10</b>	<b>4,52</b>	<b>4,78</b>	<b>5,32</b>	<b>5,82</b>	<b>6,38</b>



**1970GR**



**1970GRE**

SCU



Product description as Art. 1970GA

Shortened model with round blade and flat tip.

Size		1	2	3
Blade	mm	30x4	30x5,5	30x8
Cutting edge	mm	4x0,8	5,5x1	8x1,2
<b>1970GRE</b>	<b>Each</b>	<b>2,88</b>	<b>3,12</b>	<b>3,52</b>

**1970GRL**

SCU



Product description as Art. 1970GA

Shortened patter with round blade and PHILLIPS tip.

Size		1	2	3
Blade	mm	30x4,5	30x6	30x8
For screws	M	2-3	3,5-5	5,5-6,3
<b>1970GRL</b>	<b>Each</b>	<b>3,12</b>	<b>3,24</b>	<b>3,66</b>

**1970GRM**

SCU



Product description as Art. 1970GA

Shortened patter with round blade and POZIDRIV tip.

Size		1	2
Blade	mm	30x4,5	30x6
For screws	M	2-3	3,5-5
<b>1970GRM</b>	<b>Each</b>	<b>3,12</b>	<b>3,24</b>

**1970GRV**

SCU



Product description as Art. 1970GA

Shortened model for TORX screws.

TORX size	T	5	6	7	8	9	10	15
Blade	mm	305x3,5	30x3,5	30x3,5	30x3,5	30x4	30x4	30x4
For screws	M.	1,6-2	1,6-2	1,6-2	2,5	3	3	3,5
<b>1970GRV</b>	<b>Each</b>	<b>3,12</b>	<b>2,48</b>	<b>2,48</b>	<b>2,48</b>	<b>2,48</b>	<b>2,52</b>	<b>2,58</b>

TORX size	T	20	25	27	30	40
Blade	mm	30x4	30x4,5	30x6	30x6	30x7
For screws	M.	4	5	5	6	8
<b>1970GRV</b>	<b>Each</b>	<b>2,76</b>	<b>2,94</b>	<b>3,20</b>	<b>3,42</b>	<b>3,80</b>

When the art. 1970 GRE to 1970 GRV will run out of stock, they will be supplied with bi-component handles.

**1970GS**

SCU



Product description as Art. 1970GA

Assorted set of 6 screwdrivers supplied in cardboard packing.

1 flat-tip screwdriver Art. 1970 GAx100

3 flat-tip screwdrivers Art. 1970 GE 100 - 125 - 150

2 x Phillips-tip screwdrivers Art. 1970 GP 1 - 2.

Sold as assorted set.

<b>1970GS</b>	<b>Each</b>	<b>20,90</b>
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**1971G**

SCU



Product description as Art. 1970GA

Assorted set of 5 screwdrivers supplied in cardboard packing.

5 x TORX screwdrivers Art. 1970 GR T10 - T15 - T20 - T25 - T30

Sold as assorted set.

<b>1971G</b>	<b>Each</b>	<b>19,70</b>
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**AUTOMATIC SPIRAL SCREWDRIVERS****1980GA**

schröder

**Orig. Schröder**

Professional model.

Inside spring for automatic return. Clockwise, counter-clockwise and fixed operation.

Wooden handle. With 3 bits for straight and cross-slotted screws.

(Only Art. 1980 GA x 250, plastic magazine-handle, 4 bits + 1 pointed bit).

Overall length as open with blade	mm	<b>250</b>	<b>330</b>	<b>480</b>
Blade Ø	mm	5,5	5,5	7
Blades screws with straight cutting	mm	4,5-5,5	4,5-5,5	5,5-6,5
Blades screws with cross cutting	Gr	1-2	2	2
Supplier code		1.004.4	1.032.4	1.062.4
<b>1980GA</b>	<b>Each</b>	<b>38,90</b>	<b>48,10</b>	<b>64,80</b>

Spare bits and accessories: see Art. 1980 GD to 1980 GL.

**FLAT-TIPPED SPARE BITS**

Screwdrivers: see Art. 1980 GA.

Size	1	2	3	4	5	6
Blades screws with straight cutting	3	4,5	5,5	5,5	6	6,5
For screwdrivers overall length	250e330	250e330	250e330	480	480	480
<b>1980GD</b>	<b>Each</b>	<b>2,34</b>	<b>2,34</b>	<b>2,34</b>	<b>3,16</b>	<b>3,16</b>



**1980GD**



**PHILLIPS-TIPPED SPARE BITS**

Screwdrivers: see Art. 1980 GA.

Size	0	1	2	3	4	4A
Blades screws with cross cutting	0	1	2	1	2	3
For screwdrivers overall length	250e330	250e330	250e330	480	480	480
<b>1980GF</b>	<b>Each</b>	<b>3,56</b>	<b>2,60</b>	<b>2,60</b>	<b>3,40</b>	<b>3,40</b>



**1980GF**



**POZIDRIV/SUPADRIV-TIPPED SPARE BITS**

Screwdrivers: see Art. 1980 GA.

Size	1	2	3	4	4A
Blades screws with cross cutting	1	2	1	2	3
For screwdrivers overall length	250e330	250e330	480	480	480
<b>1980GL</b>	<b>Each</b>	<b>3,02</b>	<b>3,02</b>	<b>3,74</b>	<b>3,74</b>



**1980GL**



**AUTOMATIC SPIRAL SCREWDRIVERS FOR 1/4 BITS**

**Orig. Schröder**

Professional model. Inside spring for automatic return. Clockwise, counter-clockwise and fixed operation. Wooden handle. (Only Art. 1981 Gx255, plastic magazine-handle). Combination of 3 bits x 4.5-5.5-7mm straight-slotted screws and Phillips-slotted screws Size: 1-2-3.

Overall length as open with blade	mm	255	335	480
Supplier code		1.024.6	1.052.6	1.082.6
<b>1981G</b>	<b>Each</b>	<b>38,40</b>	<b>51,90</b>	<b>66,10</b>

Bits: see from Art. 1993 GA to 1993 GV.



**1981G**



**LEVER SCREWDRIVERS**

**Prod. SCU**

In CHROME VANADIUM steel. S-shaped type. Sturdy execution. Nickel-plated. Suitable for straight-slotted screws.

Overall length	mm	90	100	125	150	175	200
Cutting edge width	mm	3,5	4	5,5	8	10	12
<b>1985GA</b>	<b>Each</b>	<b>3,44</b>	<b>3,52</b>	<b>3,60</b>	<b>5,60</b>	<b>8,62</b>	<b>10,20</b>



**1985GA**



Product description as Art. 1985GA

Suitable for Phillips-slotted screws.

Overall length	mm	100	200
For screws	Gr	1-2	3-4
<b>1985GB</b>	<b>Each</b>	<b>4,60</b>	<b>8,68</b>



**1985GB**



**HAND IMPACT DRIVERS**

**Prod. SCU**

To unscrew or screw tightly seated screws difficult to remove with common screwdrivers. To be used with hammer. Max. torque kgm 12 (120 Nm). Right and left operated. Supplied in case.

Each set consists of:

- 1 x 1/2" square drive percussor 140mm length
- 1 x bits-holder (1/2" square drive and 5/16" hex. drive)
- 2 x 5/16" hex drive bits for 6-8 mm straight-slotted screws
- 2 x 5/16" hex drive bits for 2 - 3 Phillips-slotted screws
- 2 x 5/16" long inserts hex drive for 8mm straight slotted and cross PH3 screws. Complete assorted set.

<b>1986A</b>	<b>Each</b>	<b>13,20</b>
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Bits: see Art. 2000 GA to 2000 GT.



**1986A**



**1986GB**



**Orig. Gedore - Art. K 1900-018**

Professional type to lock or unfasten large screws, even if rusty or tightly seated. To be used with 500g hammers. Right and left operated. Suitable for straight-slotted screws, cross-slotted screws and Allen screws. 5/16" hex drive bits. Burnished finish. Max. torque 16 kgm (160 Nm).

Plastic case containing:  
 1 x 1/2" square drive hammer drill, length 120mm  
 1 bits holder (1/2" square drive and 5/16" hex. drive)  
 16 bits (5/16" hex. drive) as follows:  
 4 straight slotted bits Art. 983 GB 5.5-6.5-8-12  
 3 PH cross-slotted bits Art. 983 GD 1-2-3  
 5 hex. screw bits Art. 983 GM 4-5-6-8-10  
 4 TORX screw bits Art. 984 GD 27-30-40-45  
 Complete set.

**1986GB** Each **165,00**

For other bits see Art. 983 GB-D-H-M-R - 984 GB-D.

5/16" 1/2"

**1986GP**



**Orig. Gedore - Art. K 1900-013**

Percussion part only, for Art. 1986 GB.

**1986GP** Each **76,10**

1/2"

**BITS WITH 1/4" HEXAGONAL SHANK, DIN 3126 C 6.3 FOR SCREWDRIVERS AND DRILLS**

**1991GA**



**Prod. SCU**

Obtained through a particular lathe copying procedure for higher precision and more accurate finish. A particular hardening procedure enables to obtain the maximum hardness, strength and long lasting with perfect transmission of the turning moment.

Straight head. Total length 25mm.

Type		<b>3</b>	<b>4</b>	<b>4,5</b>	<b>5,5</b>	<b>06</b>	<b>6</b>	<b>6,5</b>
Cutting width	mm	3	4	4,5	5,5	6	6	6,5
Cutting thickness	mm	0,5	0,5	0,6	0,8	0,8	1	1,2
<b>1991GA</b>	<b>Each</b>	<b>0,68</b>	<b>0,68</b>	<b>0,68</b>	<b>0,68</b>	<b>0,68</b>	<b>0,68</b>	<b>0,68</b>

Type		<b>08</b>	<b>8</b>	<b>10</b>
Cutting width	mm	8	8	10
Cutting thickness	mm	1,2	1,6	1,6
<b>1991GA</b>	<b>Each</b>	<b>0,96</b>	<b>0,96</b>	<b>1,14</b>

1/4"

**1991GAT**



**Orig. Witte**

Product description as Art. 1991GA

Straight head. Yellow tin coated for longer lasting. Total length 25mm.

Cutting width	mm	<b>4,5</b>	<b>5,5</b>	<b>6,5</b>
Cutting thickness	mm	0,6	0,8	1,2
Supplier code		26431	26432	26434
<b>1991GAT</b>	<b>Each</b>	<b>4,52</b>	<b>4,52</b>	<b>4,52</b>

TIN 1/4"

**1991GB**



Product description as Art. 1991GA

PHILLIPS cross head.

Type		<b>0</b>	<b>1</b>	<b>1A</b>	<b>1B</b>	<b>1C</b>	<b>1F</b>	<b>2</b>	<b>2A</b>
For cross	Gr	0	1	1	1	1	1	2	2
Overall length	mm	25	25	32	39	50	100	25	32
Supplier code		-	27020	-	-	-	-	27021	27012
<b>1991GB</b>	<b>Each</b>	<b>0,68</b>	<b>0,38</b>	<b>1,40</b>	<b>1,74</b>	<b>1,82</b>	<b>4,78</b>	<b>0,38</b>	<b>2,48</b>

Type		<b>2B</b>	<b>2C</b>	<b>2F</b>	<b>3</b>	<b>3A</b>	<b>3C</b>	<b>3F</b>	<b>4</b>
For cross	Gr	2	2	2	3	3	3	3	4
Overall length	mm	39	50	100	25	32	50	100	25
Supplier code		-	-	-	27022	27013	-	-	-
<b>1991GB</b>	<b>Each</b>	<b>1,68</b>	<b>1,82</b>	<b>4,78</b>	<b>0,38</b>	<b>2,78</b>	<b>1,82</b>	<b>4,78</b>	<b>0,86</b>

Bits measures without Art. Witte are SCU manufactured. Sizes 1A-1B-1F-2B-2F-3F running out of stock.

1/4"

**1991GBA**



Product description as Art. 1991GA

PHILLIPS cross head. Special hardening assuring HRC 62-64 hardness for higher turning moments and long-lasting bit. Total length: 25mm.

For cross	Gr	<b>1</b>	<b>2</b>	<b>3</b>
Supplier code		27120	27121	27122
<b>1991GBA</b>	<b>Each</b>	<b>0,44</b>	<b>0,44</b>	<b>0,44</b>

1/4"



Product description as Art. 1991GA

PHILLIPS cross head. Yellow TIN coated for longer lasting. Total lenght 25mm.

For cross	Gr	1	2	3
Supplier code		27320	27321	27322
<b>1991GBE</b>	Each	1,28	1,28	1,28


**TIN**

**1991GBE**

Product description as Art. 1991GA

PHILLIPS cross head. Diamond tip for longer lasting, high precision, screw tightening. Particularly suitable for set of tools including screwdrivers. Total lenght 25mm.

For cross	Gr	1	2	3
Supplier code		27391	27392	27393
<b>1991GBF</b>	Each	3,88	3,88	3,88



DIAMONDED


**1991GBF**

Product description as Art. 1991GA

PHILLIPS cross head. In antistati STAINLESS steel. Suitable for manufacturing and maintaining all those products fit with stainless steel screws so that metal slag contamination is avoided that might generate oxidation and rust on the screws. Total length: 25mm.

For cross	Gr	1	2	3
Supplier code		28501	28502	28503
<b>1991GBL</b>	Each	2,94	2,94	2,94


**INOX**

**1991GBL**
**Orig. Witte - Art. 27036**

Product description as Art. 1991GA

Phillips cross head, size 2. Thinned tip for easy introduction into screw head. Total length 25mm.

<b>1991GBR</b>	Each	0,80
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**1991GBR**
**Orig. Witte - Art. 27123**

Product description as Art. 1991GA

Phillips cross head, size 2. Thinned tip for easy introduction into screw head. Special quenching for reaching a hardness of HRC 62 - 64, for higher torque and longer lasting. Total lenght 25mm.

<b>1991GBS</b>	Each	0,90
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**1991GBS**
**Orig. Witte**

Product description as Art. 1991GA

Pozidriv cross head.

Type		0	1	1A	1B	1C	1E	1F	2	2A
For cross	Gr	0	1	1	1	1	1	1	2	2
Overall length	mm	25	25	32	39	50	70	100	25	32
Supplier code		-	27045	-	-	-	-	-	27046	27052
<b>1991GC</b>	Each	0,68	0,38	1,44	1,10	1,82	2,94	4,78	0,38	2,64

Type		2B	2C	2E	2F	3	3A	3C	3F	4
For cross	Gr	2	2	2	2	3	3	3	3	4
Overall length	mm	39	50	70	100	25	32	50	100	25
Supplier code		-	-	-	-	27047	27053	-	-	-
<b>1991GC</b>	Each	1,02	1,82	2,94	4,78	0,38	2,94	1,82	4,78	0,68


**1991GC**

 Bits measures without Art.Witte are SCU manufactured.  
 Sizes 1A-1B-1E-1F-2B-2E-2F-3F running out of stock.

Product description as Art. 1991GA

Pozidriv cross head. Special hardening assuring HRC 62-64 hardness for higher turning moments and long-lasting bit. Total length: 25mm.

For cross	Gr	1	2	3
Supplier code		27245	27246	27247
<b>1991GCA</b>	Each	0,44	0,44	0,44


**1991GCA**

Product description as Art. 1991GA

Pozidriv cross head. Yellow TIN coated for longer lasting. Total lenght 25mm.

For cross	Gr	1	2	3
Supplier code		27345	27346	27347
<b>1991GCE</b>	Each	1,28	1,28	1,28


**TIN**

**1991GCE**

### 1991GCF



Product description as Art. 1991GA  
 Pozidriv cross head. Diamond tip for longer lasting, high precision, screw tightening. Particularly suitable for set of tools including screwdrivers. Total length 25mm.

For cross	Gr	1	2	3
Supplier code		27611	27612	27613
<b>1991GCF</b>	Each	<b>3,88</b>	<b>3,88</b>	<b>3,88</b>

### 1991GCL



Product description as Art. 1991GA  
 Pozidriv cross head. In antistati STAINLESS steel. Suitable for manufacturing and maintaining all those products fit with stainless steel screws so that metal slag contamination is avoided that might generate oxidation and rust on the screws. Total length: 25mm.

For cross	Gr	1	2	3
Supplier code		28511	28512	28513
<b>1991GCL</b>	Each	<b>2,94</b>	<b>2,94</b>	<b>2,94</b>

### 1991GCR



**Orig. Witte - Art. 27057**  
 Product description as Art. 1991GA  
 Pozidriv cross head, Size 2. Thinned tip for easy introduction into screw head. Total length 25mm.

<b>1991GCR</b>	Each	<b>2,00</b>
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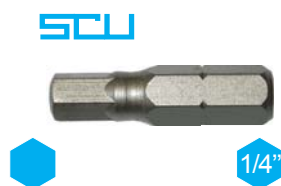
### 1991GCS



**Orig. Witte - Art. 27248**  
 Product description as Art. 1991GA  
 Pozidriv cross head, Size 2. Thinned tip for easy introduction into screw head. Special quenching for reaching a hardness of HRC 62 - 64, for higher torque and longer lasting. Total length 25mm.

<b>1991GCS</b>	Each	<b>2,00</b>
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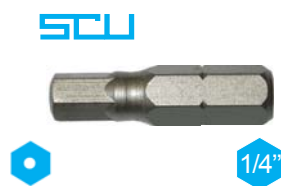
### 1991GE



**Prod. SCU**  
 Product description as Art. 1991GA  
 Hexagonal head. Total length 25mm.

Hexagon	mm	1,5	2	2,5	3	4	5	6	
<b>1991GE</b>	Each	<b>0,68</b>	<b>0,68</b>	<b>0,68</b>	<b>0,68</b>	<b>0,68</b>	<b>0,68</b>	<b>0,68</b>	
Hexagon	mm	8	10						
<b>1991GE</b>	Each	<b>0,96</b>	<b>1,14</b>						

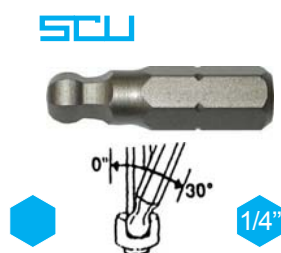
### 1991GF



Product description as Art. 1991GA  
 Hexagonal head, with hole. Total length 25mm.

Hexagon	mm	2	2,5	3	4	5	6	8	
<b>1991GF</b>	Each	<b>1,24</b>	<b>1,24</b>	<b>1,24</b>	<b>1,24</b>	<b>1,24</b>	<b>1,24</b>	<b>1,44</b>	
Hexagon	mm	10							
<b>1991GF</b>	Each	<b>1,62</b>							

### 1991GH



Product description as Art. 1991GA  
 Ball bits for embedded hexagons. Total length 25mm.

Hexagon	mm	2,5	3	4	5	6
<b>1991GH</b>	Each	<b>0,76</b>	<b>0,76</b>	<b>0,76</b>	<b>0,76</b>	<b>0,76</b>

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**Orig. Witte**

Product description as Art. 1991GA

TORX head.

Type		4	5	6	7	8	9	10
TORX size	T	4	5	6	7	8	9	10
Overall length	mm	25	25	25	25	25	25	25
Supplier code		29459	29460	29490	29495	29501	29502	29503
<b>1991GL</b>	<b>Each</b>	<b>0,82</b>	<b>0,82</b>	<b>0,82</b>	<b>0,82</b>	<b>0,82</b>	<b>0,82</b>	<b>0,82</b>

Type		10A	15	15A	20	20A	25	25A
TORX size	T	10	15	15	20	20	25	25
Overall length	mm	50	25	50	25	50	25	50
Supplier code		-	29504	-	29505	-	29506	-
<b>1991GL</b>	<b>Each</b>	<b>3,08</b>	<b>0,82</b>	<b>3,08</b>	<b>0,82</b>	<b>3,08</b>	<b>0,82</b>	<b>3,08</b>

Type		27	27A	30	30A	40
TORX size	T	27	27	30	30	40
Overall length	mm	25	50	25	50	25
Supplier code		29507	-	29508	-	29509
<b>1991GL</b>	<b>Each</b>	<b>0,82</b>	<b>3,08</b>	<b>0,82</b>	<b>3,08</b>	<b>0,82</b>

Bits measures without Art.Witte are SCU manufactured.

**1991GL**


Product description as Art. 1991GA

TORX head. Yellow TIN coated for longer lasting. Total length 25mm.

TORX size	T	10	15	20	25	27	30	40
Supplier code		29513	29514	29515	29516	29517	29518	29519
<b>1991GLT</b>	<b>Each</b>	<b>1,62</b>	<b>1,62</b>	<b>1,62</b>	<b>1,62</b>	<b>1,62</b>	<b>1,62</b>	<b>1,62</b>

**1991GLT**


Product description as Art. 1991GA

TORX head. In antistati STAINLESS steel. Suitable for manufacturing and maintaining all those products fit with stainless steel screws so that metal slag contamination is avoided that might generate oxidation and rust on the screws. Total length: 25mm.

TORX size	T	10	15	20	25	27	30	40
Supplier code		28530	28531	28532	28533	28534	28535	28536
<b>1991GLV</b>	<b>Each</b>	<b>3,66</b>	<b>3,66</b>	<b>3,66</b>	<b>3,66</b>	<b>3,66</b>	<b>3,66</b>	<b>3,66</b>

**INOX 1991GLV**


Product description as Art. 1991GA

TORX head, with hole. Total length 25mm.

TORX size	T	7	8	9	10	15	20	25
Supplier code		29477	29478	29479	29480	29481	29482	29483
<b>1991GN</b>	<b>Each</b>	<b>1,14</b>	<b>1,14</b>	<b>1,14</b>	<b>1,14</b>	<b>1,14</b>	<b>1,14</b>	<b>1,14</b>

**1991GN**


TORX size	T	27	30	40
Supplier code		29484	29485	29486
<b>1991GN</b>	<b>Each</b>	<b>1,14</b>	<b>1,14</b>	<b>1,14</b>

Product description as Art. 1991GA

TORX head, with hole. Yellow TIN coated for longer lasting. Total length 25mm.

TORX size	T	10	15	20	25	27	30	40
Supplier code		29593	29594	29595	29596	29597	29598	29599
<b>1991GNA</b>	<b>Each</b>	<b>1,92</b>	<b>1,92</b>	<b>1,92</b>	<b>1,92</b>	<b>1,92</b>	<b>1,92</b>	<b>1,92</b>

**1991GNA**


Product description as Art. 1991GA

5-point head, with hole. Total length 25mm.

IPR size		10	15	20	25	27	30	40
Supplier code		26870	26871	26872	26873	26874	26875	26876
<b>1991GNB</b>	<b>Each</b>	<b>5,58</b>	<b>5,58</b>	<b>5,58</b>	<b>5,58</b>	<b>5,58</b>	<b>5,58</b>	<b>5,58</b>

**1991GNB**

**Prod. SCU**

Product description as Art. 1991GA

RIBE head. Total length 25mm.

For RIBE-CV screws	M.	5	6	8	10
<b>1991GNC</b>	<b>Each</b>	<b>0,68</b>	<b>0,68</b>	<b>0,86</b>	<b>1,06</b>

**1991GNC**


### 1991GND

SCU



Product description as Art. 1991GA  
XZN bi-hexagonal head. Total length 25mm.

For screws with XZN polygon	M.	4	5	6	8
<b>1991GND</b>	Each	0,68	0,68	0,68	0,96

### 1991GNE

WITTE



Orig. Witte  
Product description as Art. 1991GA  
Torq – Set® head. Particularly used in the aeronautics industry. Total length 25mm.

Torq-Set size	0	1	2	3	4	5	6	8	10
Supplier code	27330	27331	27332	27333	-	-	-	-	-
<b>1991GNE</b>	Each	8,10	8,10	8,10	8,10	0,68	0,68	0,68	0,68

Bits measures without Art.Witte are SCU manufactured.

### 1991GNF

SCU



Prod. SCU  
Product description as Art. 1991GA  
Tri – Wing® head. Particularly used in the aeronautics industry. Total length 25mm.

Tri-Wing Size	0	1	2	3	4	5
<b>1991GNF</b>	Each	0,68	0,68	0,68	0,68	0,68

### 1991GNH

SCU



Product description as Art. 1991GA  
Square head. Total length 25mm.

For screws with square	No	0	1	2	3
<b>1991GNH</b>	Each	0,68	0,68	0,68	0,68

### 1991GNL

SCU



Product description as Art. 1991GA  
2-hole head. Total length 25mm.

For screws with two bores	No	6	8	10
<b>1991GNL</b>	Each	0,68	0,68	0,68

### 1991GP

SCU



Product description as Art. 1991GA  
Flexible extension with male/female 1/4" hexagonal shank.

Overall length	mm	190
<b>1991GP</b>	Each	7,52

### 1991GR

carolus



Orig. Carolus - Art. 7080.00  
Product description as Art. 1991GA  
Male adapters for 1/4" sockets.

Overall length	mm	25
<b>1991GR</b>	Each	1,24

## SOCKET REDUCERS FOR INSERT BITS

### 1991GS

SCU



Prod. SCU  
Hand use. Chrome-plated finish.  
(Art. 1991 GS 1 - Orig. Carolus Art. 4178.60)

Size	1	2
Square drive	inches 1/4	3/8
Hexagonal inserts drive	inches 1/4	5/16
<b>1991GS</b>	Each	2,78
		3,72

For reductions from square connection 1/2 to hexagonal connection 1/4 see Art. 984 GF 4.  
For reductions from square connection 1/2 to hexagonal connection 5/16 see Art. 971 RI and reductions from square connection 3/8 to hexagonal connection 1/4 see Art. 956 RI.

**BITS WITH BITFLEX 1/4" HEXAGONAL SHANK, FOR SCREWDRIVERS AND DRILLS**
**Orig. Witte**

"FLEX" type, long lasting, lathed area between shank and head acts as a cushion and absorbs superfluous energy traditionally causing wear-out and breakage. The particular hardening procedure enables to obtain the maximum hardness and strength.

Phillips head. Total length 25mm.

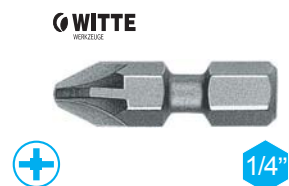
For cross	Gr	1	2	3
Supplier code		28021	28022	28023
<b>1992GN</b>	<b>Each</b>	<b>1,82</b>	<b>1,82</b>	<b>1,82</b>


**1992GN**

Product description as Art. 1992GN

Pozidriv cross head. Total length 25mm.

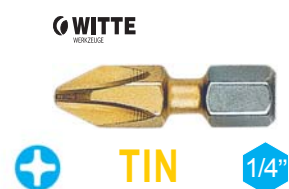
For cross	Gr	1	2	3
Supplier code		28045	28046	28047
<b>1992GP</b>	<b>Each</b>	<b>1,82</b>	<b>1,82</b>	<b>1,82</b>


**1992GP**

Product description as Art. 1992GN

PHILLIPS cross head. Yellow TIN coated for longer lasting. Total length 25mm.

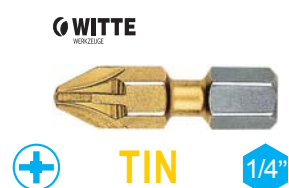
For cross	Gr	1	2	3
Supplier code		28421	28422	28423
<b>1992GR</b>	<b>Each</b>	<b>1,88</b>	<b>1,88</b>	<b>1,88</b>


**1992GR**

Product description as Art. 1992GN

Pozidriv cross head. Yellow TIN coated for longer lasting. Total length 25mm.

For cross	Gr	1	2	3
Supplier code		28445	28446	28447
<b>1992GS</b>	<b>Each</b>	<b>1,88</b>	<b>1,88</b>	<b>1,88</b>


**1992GS**

"FLEX" type, long lasting, lathed area between shank and head acts as a cushion and absorbs superfluous energy traditionally causing wear-out and breakage. The particular hardening procedure enables to obtain the maximum hardness and strength.

PHILLIPS cross head. Diamond tip for longer lasting, high precision, screw tightening. Particularly suitable for set of tools including screwdrivers. Total length 25mm.

For cross	Gr	1	2	3
Supplier code		27971	27972	27973
<b>1992GT</b>	<b>Each</b>	<b>4,62</b>	<b>4,62</b>	<b>4,62</b>


**1992GT**

Product description as Art. 1992GT

Pozidriv cross head. Diamond tip for longer lasting, high precision, screw tightening. Particularly suitable for set of tools including screwdrivers. Total length 25mm.

For cross	Gr	1	2	3
Supplier code		28011	28012	28013
<b>1992GZA</b>	<b>Each</b>	<b>4,62</b>	<b>4,62</b>	<b>4,62</b>


**1992GZA**
**HEXAGONAL COMBINED INSERT BITS FOR ELECTRIC DRILLS**
**Orig. Witte - Art. 29007**

Milled bits for direct mounting. In alloy steel. The accurate finish and a particular hardening procedure enable perfect transmission of the turning moment and long lasting.

Straight head. Total length 60mm.

Cut 1	mm	3x0,5
Cut 2	mm	4,5x0,6
Drive		1/4
<b>1993GA</b>	<b>Each</b>	<b>3,18</b>


**1993GA**
**Orig. Witte - Art. 29008**

Product description as Art. 1993GA

Straight head. Total length 60mm.

Cut 1	mm	5,5x0,8
Cut 2	mm	6x1
Drive		1/4
<b>1993GB</b>	<b>Each</b>	<b>3,18</b>


**1993GB**

**1993GC****Orig. Witte - Art. 29009**

Product description as Art. 1993GA

Straight head. Total length 60mm.

Cut 1	mm	6,5x1,2
Cut 2	mm	8x1,6
Drive		1/4

**1993GC** Each **3,18****1993GD****Orig. Witte - Art. 29010**

Product description as Art. 1993GA

Phillips + Pozidrov cross head. Total length 60mm.

PH-PZD cross	Gr	1
Drive		1/4

**1993GD** Each **3,18****1993GE****Orig. Witte - Art. 29011**

Product description as Art. 1993GA

Phillips + Pozidrov cross head. Total length 60mm.

PH-PZD cross	Gr	2
Drive		1/4

**1993GE** Each **3,18****1993GF****Orig. Witte - Art. 29012**

Product description as Art. 1993GA

Phillips + Pozidrov cross head. Total length 60mm.

PH-PZD cross	Gr	3
Drive		1/4

**1993GF** Each **3,18****1993GH****Orig. Witte - Art. 29001**

Product description as Art. 1993GA

Phillips cross head + straight head. Total length 60mm.

PH cross	Gr	1
Straight cutting	mm	4,5x0,6
Drive		1/4

**1993GH** Each **3,18****1993GI****Orig. Witte - Art. 29002**

Product description as Art. 1993GA

Phillips cross head + straight head. Total length 60mm.

PH cross	Gr	2
Straight cutting	mm	5,5x0,8
Drive		1/4

**1993GI** Each **3,18****1993GL****Orig. Witte - Art. 29003**

Product description as Art. 1993GA

Phillips cross head + straight head. Total length 60mm.

PH cross	Gr	3
Straight cutting	mm	6x1
Drive		1/4

**1993GL** Each **3,18****1993GN****Orig. Witte - Art. 29004**

Product description as Art. 1993GA

Pozidriv cross head + straight head. Total length 60mm.

PZD cross	Gr	1
Straight cutting	mm	4,5x0,6
Drive		1/4

**1993GN** Each **3,18****1993GP****Orig. Witte - Art. 29005**

Product description as Art. 1993GA

Pozidriv cross head + straight head. Total length 60mm.

PZD cross	Gr	2
Straight cutting	mm	5,5x0,8
Drive		1/4

**1993GP** Each **3,18**

**Orig. Witte - Art. 29006**

Product description as Art. 1993GA  
 Pozidriv cross head + straight head. Total length 60mm.  
 PZD cross Gr 3  
 Straight cutting mm 6x1  
 Drive 1/4

<b>1993GR</b>	Each	<b>3,18</b>
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**1993GR**

**Orig. Witte - Art. 29016**

Product description as Art. 1993GA  
 Double TORX head. Total length 60mm.  
 Seal 1 TORX 10  
 Seal 2 TORX 15  
 Drive 1/4

<b>1993GS</b>	Each	<b>4,36</b>
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**1993GS**

**Orig. Witte - Art. 29017**

Product description as Art. 1993GA  
 Double TORX head. Total length 60mm.  
 Seal 1 TORX 20  
 Seal 2 TORX 25  
 Drive 1/4

<b>1993GT</b>	Each	<b>4,36</b>
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**1993GT**

**Orig. Witte - Art. 29018**

Product description as Art. 1993GA  
 Double TORX head. Total length 60mm.  
 Seal 1 TORX 30  
 Seal 2 TORX 40  
 Drive 1/4

<b>1993GV</b>	Each	<b>4,36</b>
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**1993GV**

**INSERT BITS WITH 1/4" HEXAGONAL SHANK, DIN 3126 E 6.3, UNIVERSAL MODEL, FOR ELECTRIC AND BATTERY SCREWDRIVERS AND DRILLS**

**Orig. Witte**

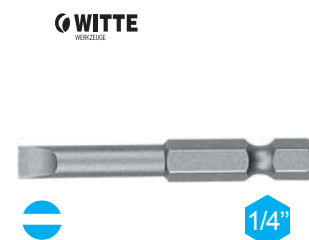
Milled bits for direct mounting into screwdrivers such as: Pneutec, Bosch, B+D, Skil, Makita, Atlas Copco, Ingersoll, etc. In alloy steel. The accurate finish and a particular hardening procedure enable perfect transmission of the turning moment and long lasting.

Straight head. Total length 50mm.

Cutting width	mm	<b>3</b>	<b>3,5</b>	<b>4</b>	<b>4,5</b>	<b>5,5</b>	<b>6</b>	<b>6,5</b>
Cutting thickness	mm	0,5	0,6	0,5	0,6	0,8	1	1,2
Supplier code		-	-	-	-	-	27513	-
<b>1994GH</b>	Each	<b>3,86</b>	<b>3,86</b>	<b>1,06</b>	<b>1,06</b>	<b>1,06</b>	<b>3,08</b>	<b>1,06</b>

Cutting width	mm	<b>8</b>	<b>9</b>	<b>10</b>	<b>12</b>
Cutting thickness	mm	1,6	1,6	1,6	2
Supplier code		-	27516	-	-
<b>1994GH</b>	Each	<b>1,44</b>	<b>4,84</b>	<b>2,00</b>	<b>5,70</b>

Bits measures without Art.Witte are SCU manufactured.  
 Size mm 12 running out of stock.



**1994GH**

Milled bits for direct mounting into screwdrivers such as: Pneutec, Bosch, B+D, Skil, Makita, Atlas Copco, Ingersoll, etc. In alloy steel. The accurate finish and a particular hardening procedure enable perfect transmission of the turning moment and long lasting.

Straight head. Yellow tin coated for longer lasting. Total length 50mm

Cutting width	mm	<b>4,5</b>	<b>5,5</b>	<b>6,5</b>
Cutting thickness	mm	0,6	0,8	1,2
Supplier code		27531	27532	27534
<b>1994GHT</b>	Each	<b>6,00</b>	<b>6,00</b>	<b>6,00</b>



**1994GHT**

**Prod. SCU**

Product description as Art. 1994GHT

Phillips cross head.

Type		<b>0</b>	<b>1</b>	<b>1A</b>	<b>1B</b>	<b>1E</b>	<b>2</b>	<b>2A</b>
For cross	Gr	0	1	1	1	1	2	2
Overall length	mm	50	50	75	100	150	50	75
<b>1994GL</b>	Each	<b>1,06</b>	<b>1,06</b>	<b>1,82</b>	<b>2,76</b>	<b>4,66</b>	<b>1,06</b>	<b>1,82</b>

Type		<b>2B</b>	<b>2E</b>	<b>3</b>	<b>3A</b>	<b>3B</b>	<b>3E</b>	<b>4</b>
For cross	Gr	2	2	3	3	3	3	4
Overall length	mm	100	150	50	75	100	150	50
<b>1994GL</b>	Each	<b>2,76</b>	<b>4,66</b>	<b>1,06</b>	<b>1,82</b>	<b>2,76</b>	<b>4,66</b>	<b>1,44</b>



**1994GL**

### 1994GLT



Product description as Art. 1994GHT  
Phillips cross head. ZIRCONIUM coated for longer lasting.  
Total length 50mm.

For cross	Gr	1	2	3
<b>1994GLT</b>	Each	3,14	3,14	3,14

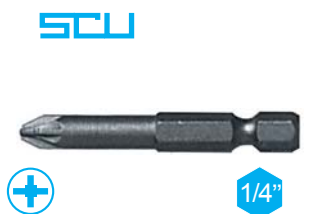
### 1994GLV



**Orig. Witte**  
Product description as Art. 1994GHT  
Phillips cross head + straight head (MODUL). Total length 70mm.

For cross	Gr	1	2
Supplier code		26461	26462
<b>1994GLV</b>	Each	6,10	6,40

### 1994GM



**Prod. SCU**  
Product description as Art. 1994GHT  
Poqidriv cross head.

Type		0	1	1A	1B	1E	2	2A
For cross	Gr	0	1	1	1	1	2	2
Overall length	mm	50	50	75	100	150	50	75
<b>1994GM</b>	Each	1,06	1,06	1,82	2,76	4,66	1,06	1,82
Type		2B	2E	3	3A	3B	3E	4
For cross	Gr	2	2	3	3	3	3	4
Overall length	mm	100	150	50	75	100	150	50
<b>1994GM</b>	Each	2,76	4,66	1,06	1,82	2,76	4,66	1,44

### 1994GMT



Product description as Art. 1994GHT  
Poqidriv cross head. ZIRCONIUM coated for longer lasting.  
Total length 50mm.

For cross	Gr	1	2	3
<b>1994GMT</b>	Each	3,14	3,14	3,14

### 1994GMV



**Orig. Witte**  
Product description as Art. 1994GHT  
Poqidriv cross head + straight head (MODUL). Total length 70mm.

For cross	Gr	1	2
Supplier code		26471	26472
<b>1994GMV</b>	Each	6,10	6,40

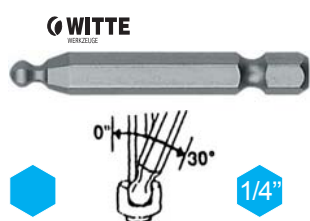
### 1994GO



**Prod. SCU**  
Product description as Art. 1994GHT  
Hexagonal head.

Type		2	2B	2,5	2,5B	3	3B	4	4B
Hexagon	mm	2	2	2,5	2,5	3	3	4	4
Overall length	mm	50	75	50	75	50	75	50	75
<b>1994GO</b>	Each	1,06	1,82	1,06	1,82	1,06	1,82	1,06	1,82
Type		5	5B	6	6B	8	8B	10	10B
Hexagon	mm	5	5	6	6	8	8	10	10
Overall length	mm	50	75	50	75	50	75	50	75
<b>1994GO</b>	Each	1,06	1,82	1,06	1,82	1,52	2,10	2,20	2,28

### 1994GP



**Orig. Witte**  
Product description as Art. 1994GHT  
Ball head for embedded hexagons. Total length 50mm.

Hexagon	mm	2	2,5	3	4	5	6	8
Supplier code		-	-	27183	27184	27185	27186	-
<b>1994GP</b>	Each	5,40	5,40	3,06	3,06	3,06	3,06	5,74

Bits measures without Art.Witte are SCU manufactured.

### 1994GT



**Prod. SCU**  
Product description as Art. 1994GHT  
TORX head. Total length 50mm.

TORX size	T	8	9	10	15	20	25	27
<b>1994GT</b>	Each	1,34	1,34	1,34	1,34	1,34	1,34	1,34
TORX size	T	30	40	45	50	55		
<b>1994GT</b>	Each	1,34	1,34	1,62	2,28	2,48		



**Orig. Witte**

Product description as Art. 1994GHT

TORX head. Yellow TIN coated for longer lasting. Total length 50mm.

TORX size	T	10	15	20	25	27	30	40
Supplier code		29613	29614	29615	29616	29617	29618	29619
<b>1994GTA</b>	Each	6,02	6,02	6,02	6,02	6,02	6,02	6,02



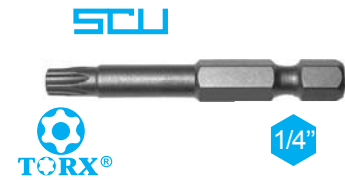
**1994GTA**

**Prod. SCU**

Product description as Art. 1994GHT

TORX head, with hole. Total length 50mm.

TORX size	T	8	9	10	15	20	25	27
<b>1994GV</b>	Each	1,90	1,90	1,90	1,90	1,90	1,90	1,90
TORX size	T	30	40	45	50	55		
<b>1994GV</b>	Each	1,90	1,90	2,20	2,86	2,86		



**1994GV**

Product description as Art. 1994GHT

Inside hexagonal model, with magnet.

Opening	mm	4	5	5,5	6	7	8	9
Overall length	mm	42	45	45	45	45	45	45
<b>1994GZ</b>	Each	4,76	4,38	4,38	4,38	4,38	4,38	4,38
Opening	mm	10	11	12	13	14	17	1/4
Overall length	mm	45	45	45	45	45	45	45
<b>1994GZ</b>	Each	4,38	4,38	4,38	4,38	5,70	8,74	4,38
Opening	mm	5/16	3/8	7/16				
Overall length	mm	45	45	45				
<b>1994GZ</b>	Each	4,38	4,38	5,04				



**1994GZ**

**INSERT BITS WITH 1/4" HEXAGONAL SHANK, DIN 3126 E 6.3, UNIVERSAL MODEL, FOR ELECTRIC SCREWDRIVERS AND DRILLS**

**Orig Witte**

Type "IMPACT" is particularly suitable for professional battery screwdrivers and drills.

With long life, with lathed area between the shank and head which acts as a shock absorber, absorbing the superfluous energy that in conventional inserts is causing heavy wear and rupture. The special steel, particularly elastic, and the hardening procedure allow to obtain the maximum hardness and toughness with a considerable torque transmission.

PHILLIPS tip. Overall length 38mm.

For cross	Gr	1	2	3
Supplier code		28520	28521	28522
<b>1994RA</b>	Each	3,26	3,26	3,26



**1994RA**  
*new*

Product description as Art. 1994RA

POZIDRIV tip. Overall length 38mm.

For cross	Gr	1	2	3
Supplier code		28523	28524	28525
<b>1994RB</b>	Each	3,26	3,26	3,26



**1994RB**  
*new*

**Orig. Witte**

Product description as Art. 1994RA

TORX tip. Overall length 38mm.

TORX size	T	15	20	25	30	40
Supplier code		28490	28491	28492	28493	28494
<b>1994RE</b>	Each	3,26	3,26	3,26	3,26	3,26



**1994RE**  
*new*

For insert sets like "IMPACT" see. Art. 2018 G.

**MAGNETIC ADAPTERS FOR 1/4" BITS, DIN 3126 C 6.3**

**Prod. SCU**

Strong traction, magnetic type without retaining ring. High precision centring. For power drills up to 1000 Watt.

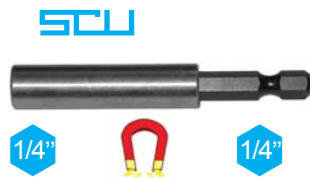
For drills: brass Universal E 6.3.

Overall length	mm	60
Drive	inches	1/4"
<b>1995GA</b>	Each	3,62



**1995GA**

### 1995GB



Strong traction, magnetic type with retaining ring. High-precision centring. For drills with power up to 1000 Watt.

For drills: steel Universal E 6.3

Overall length mm 75  
Drive inches 1/4"

**1995GB** Each **6,46**

Connections not suitable for use with bits from Art. 1992 GN to 1992 GZA. For long types see Art. 1996 G.

### 1995GC



**Orig. Witte - Art. 26002**

Product description as Art. 1995GB

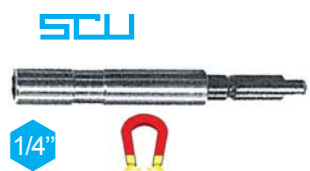
For drills: Bosch – AEG – Metabo.

Overall length mm 79  
Drive mm 5,5

**1995GC** Each **33,40**

Connections not suitable for use with bits from Art. 1992 GN to 1992 GZA.

### 1995GD



**Prod. SCU**

Product description as Art. 1995GB

For drills: Fein – AEG – Baier.

Overall length mm 65  
Drive mm 7

**1995GD** Each **8,56**

Connections not suitable for use with bits from Art. 1992 GN to 1992 GZA.

### 1995GF



**Orig. Witte - Art. 26005**

Product description as Art. 1995GB

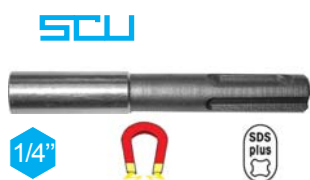
For drills: Bosch – AEG – Fein – Black & Decker – Ingersoll.

Overall length mm 82  
Drive mm 11

**1995GF** Each **28,20**

Connections not suitable for use with bits from Art. 1992 GN to 1992 GZA.

### 1995GL



**Prod. SCU**

Product description as Art. 1995GB

For drills with SDS-PLUS shank.

Overall length mm 75  
Drive mm 10

**1995GL** Each **12,30**

Connections not suitable for use with bits from Art. 1992 GN to 1992 GZA.

### 1995GM



Strong traction, magnetic type without retaining ring. High precision centring. For power drills up to 1000 Watt.

For drills: brass Universal E 6.3. With sliding ring nut and spring for bit quick change. High-precision and long-lasting design.

Overall length mm **65** **75**  
Drive inches 1/4 1/4

**1995GM** Each **13,30** **14,30**

### 1995GP



**Orig. Carolus - Art. 7070.00**

Product description as Art. 1995GM

For drills: Universal E 6.3 with sliding ring and spring for a rapid change of the bits.

Overall length mm 52  
Drive inches 1/4

**1995GP** Each **12,20**

### 1995GR



**Prod. SCU**

With two magnets, one inside for bits and one outside, ring-shaped, to hold screws. Depth adjusting by means of 2 knurled rings.

For drills: brass Universal E 6.3.

Overall length mm 60  
Drive inches 1/4"

**1995GR** Each **9,42**

Professional standard and extended model, with strong magnetic pull. Provides centring precision.

For drills: Universal E 6.3 with sliding ring nut and very powerful spring for rapid changing of bits and all tools with a 1/4" hex shank C 6.3.

Overall length	mm	65	150	300
<b>1995GT</b>	<b>Each</b>	<b>14,10</b>	<b>17,20</b>	<b>21,10</b>

SCU

**1995GT**



**Orig. Witte - Art. 26027**

Magnetic model with strong pull, for use straight or articulated. Provides centring precision.

For drills: Universal E 6.3 steel.

Overall length	mm	100
Drive	inches	1/4
<b>1995GZ</b>	<b>Each</b>	<b>13,60</b>

WITTE

**1995GZ**  
*new*



**Prod. SCU**

LONG, universal type, made from steel, strong traction magnetic with retaining ring, 1/4" hexagonal shank E 6.3.

Overall length	mm	100	150	200	250
<b>1996G</b>	<b>Each</b>	<b>7,14</b>	<b>8,46</b>	<b>8,66</b>	<b>8,84</b>

Connections not suitable for use with bits from Art. 1992 GN to 1992 GZA.

SCU

**1996G**



**MAGNETIC ADAPTERS FOR 5/16" BITS, DIN 3126 C 6.3**

**Prod. SCU**

Strong traction, magnetic type with retaining ring. High precision centring. For power drills up to 1000 Watt.

For drills: steel Universal E 6.3.

Overall length	mm	60
Drive	inches	5/16"
<b>1996GB</b>	<b>Each</b>	<b>5,32</b>

Connections not suitable for use with bits from Art. 1992 GN to 1992 GZA.

SCU

**1996GB**



**SOCKET HOLDER ADAPTERS**

**Prod. SCU - Art. 7080.50**

Male adapter, 1/4" hexagonal shank E 6.3, for sockets 1/4" drive.

For screwdrivers Pnuteuc, Bosch, B+D, Skil, Makita, Atlas Copco, Ingersoll etc.

Overall length	mm	50
<b>1996GE</b>	<b>Each</b>	<b>3,52</b>

For a similar Orig. Carolus adaptor, see Art. 946 GZ.

SCU

**1996GE**



**Prod. SCU**

Product description as Art. 1996GE

Overall length	mm	100
<b>1996GF</b>	<b>Each</b>	<b>12,20</b>

SCU

**1996GF**



Male adapter, 1/4" hexagonal shank E 6.3, for sockets 1/4" drive.

For screwdrivers Pnuteuc, Bosch, B+D, Skil, Makita, Atlas Copco, Ingersoll etc.

Overall length	mm	50
<b>1996GL</b>	<b>Each</b>	<b>4,00</b>

SCU

**1996GL**



Product description as Art. 1996GL

Overall length	mm	100
<b>1996GM</b>	<b>Each</b>	<b>16,20</b>

SCU

**1996GM**



**SOCKET REDUCERS FOR INSERT BITS**

**Prod. SCU**

For impulse screwdrivers. Burnished finish.

Size		1	2
Square drive	inches	1/4	3/8
Hexagonal tools drive	inches	1/4	1/4
<b>1997G</b>	<b>Each</b>	<b>12,50</b>	<b>16,20</b>

For rubber ring and pin see Art. 982 RA-B x 00.

For other measures see Art.984 GF – Orig. Gedore

SCU

**1997G**



**BITS WITH 5/16" HEXAGONAL SHANK, DIN 3126 C 8, FOR SCREWDRIVERS AND ELECTRIC DRILLS**
**2000GA****SCU****Prod. SCU**

Obtained through a particular lathe copying procedure for higher precision and more accurate finish. A particular hardening procedure enables to obtain the maximum hardness, strength and long lasting with perfect transmission of the turning moment.

Straight head. Total length 41mm.

Type		5.5	5.5A	6.5	8	10	12
Cutting width	mm	5,5	5,5	6,5	8	10	12
Cutting thickness	mm	0,8	1	1,2	1,6	1,6	2
<b>2000GA</b>	<b>Each</b>	<b>1,24</b>	<b>1,24</b>	<b>1,24</b>	<b>1,24</b>	<b>1,72</b>	<b>2,10</b>

**2000GB****SCU**

Product description as Art. 2000GA

Phillips cross head.

For cross	Gr	1	2	3	4
Overall length	mm	32	32	32	38
<b>2000GB</b>	<b>Each</b>	<b>1,24</b>	<b>1,24</b>	<b>1,24</b>	<b>1,34</b>

**2000GC****SCU**

Product description as Art. 2000GA

Pozidriv cross head.

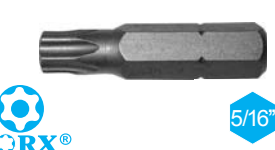
For cross	Gr	1	2	3	4
Overall length	mm	32	32	32	38
<b>2000GC</b>	<b>Each</b>	<b>1,24</b>	<b>1,24</b>	<b>1,24</b>	<b>1,34</b>

**2000GD****SCU**

Product description as Art. 2000GA

"TORX" head. Total length 35mm.

TORX size	T	20	25	27	30	40	45	50
<b>2000GD</b>	<b>Each</b>	<b>1,52</b>	<b>1,52</b>	<b>1,52</b>	<b>1,52</b>	<b>1,52</b>	<b>1,52</b>	<b>1,52</b>
TORX size	T	55						
<b>2000GD</b>	<b>Each</b>	<b>1,72</b>						

**2000GDF****SCU**

Product description as Art. 2000GA

"TORX" head, with hole. Total length 35mm.

TORX size	T	20	25	27	30	40	45	50
<b>2000GDF</b>	<b>Each</b>	<b>1,90</b>	<b>1,90</b>	<b>1,90</b>	<b>1,90</b>	<b>1,90</b>	<b>1,90</b>	<b>1,90</b>
TORX size	T	55						
<b>2000GDF</b>	<b>Each</b>	<b>2,38</b>						

Size T 55 running out of stock.

**2000GE****SCU**

Product description as Art. 2000GA

Hexagonal head. Total length 30mm.

Hexagon	mm	3	4	5	6	7	8	10
<b>2000GE</b>	<b>Each</b>	<b>1,24</b>	<b>1,24</b>	<b>1,24</b>	<b>1,24</b>	<b>4,08</b>	<b>1,24</b>	<b>1,34</b>
Hexagon	mm	12		14				
<b>2000GE</b>	<b>Each</b>	<b>1,90</b>		<b>2,20</b>				

**2000GT****WITTE****Orig. Witte**

Product description as Art. 2000GA

Torq - Set® head. Used in particular in the aeronautical sector. Total length 32mm.

Torq-Set size		8	10	1/4	5/16	3/8
Supplier code		27394	27395	27396	27397	27398
<b>2000GT</b>	<b>Each</b>	<b>9,52</b>	<b>9,52</b>	<b>9,52</b>	<b>9,52</b>	<b>9,52</b>

**2001G****carolus****Orig. Carolus**

Made from special steel, hardened.

Chrome plated.

Male socket adapter.

Size		1	2
Square drive for bushes	inches	3/8	1/2
Hexagonal tools drive	inches	5/16	5/16
Supplier code		6070.00	6070.50
<b>2001G</b>	<b>Each</b>	<b>6,40</b>	<b>4,54</b>

**INSERT BITS WITH HEXAGONAL SHANK 5.5MM, DIN 3126, FOR SCREWDRIVERS**

**Orig. Witte**

Milled bits for direct mounting into screwdrivers such as: Bosch, Metabo, AEG, etc. In alloy steel. The accurate finish and a particular hardening procedure enable perfect transmission of the turning moment and long lasting. Straight head. Total length 50mm.

Cutting width	mm	4	4,5	5,5	6	6,5	8
Cutting thickness	mm	0,5	0,6	0,8	1	1,2	1,6
Supplier code		30680	30681	30682	30683	30684	30685
<b>2003GA</b>	<b>Each</b>	<b>4,84</b>	<b>4,84</b>	<b>4,84</b>	<b>4,84</b>	<b>4,84</b>	<b>7,56</b>



**2003GA**

Product description as Art. 2003GA

Phillips cross head. Total length 50mm.

For cross	Gr	1	2	3
Supplier code		30691	30692	30693
<b>2003GB</b>	<b>Each</b>	<b>4,62</b>	<b>4,62</b>	<b>6,38</b>



**2003GB**

Product description as Art. 2003GA

Pozidriv cross head. Total length 50mm.

For cross	Gr	1	2	3
Supplier code		30701	30702	30703
<b>2003GF</b>	<b>Each</b>	<b>4,84</b>	<b>4,84</b>	<b>6,66</b>

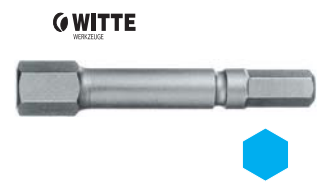


**2003GF**

Product description as Art. 2003GA

Hexagonal head. Total length 50mm.

Hexagon	mm	3	4	5	6	8
Supplier code		30753	30754	30755	30756	30758
<b>2003GL</b>	<b>Each</b>	<b>6,24</b>	<b>6,24</b>	<b>6,24</b>	<b>6,24</b>	<b>6,24</b>



**2003GL**

**INSERT BITS WITH CYLINDRICAL SHANK 7.0MM, DIN 3126 G 7, FOR SCREWDRIVERS**

**Prod. SCU**

Milled bits for direct mounting into screwdrivers such as: AEG, Baier and Fein. In alloy steel. The accurate finish and a particular hardening procedure enable perfect transmission of the turning moment and long lasting.

Phillips cross head. Total length 53mm.

For cross	Gr	1	3
<b>2005GB</b>	<b>Each</b>	<b>1,78</b>	<b>1,72</b>

Product running out of stock.

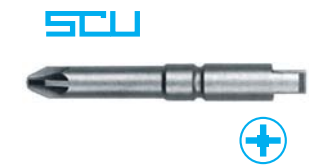


**2005GB**

Product description as Art. 2005GB

Pozidriv cross head. Total length 53mm.

For cross	Gr	1	2	3
<b>2005GF</b>	<b>Each</b>	<b>1,72</b>	<b>1,72</b>	<b>1,72</b>



**2005GF**

**INSERT BITS WITH HEXAGONAL SHANK 10MM FOR SCREWDRIVERS**

**Prod. SCU**

In CHROME-VANADIUM steel, hardened.

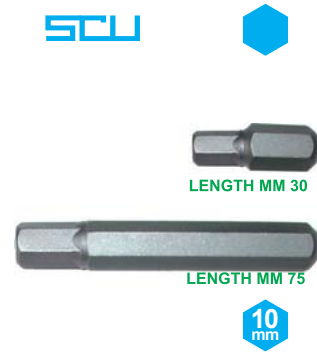
Sandblasted finish.

Hexagonal head.

Type		4	4L	5	5L	6	6L	7
Hexagon	mm	4	4	5	5	6	6	7
Overall length	mm	30	75	30	75	30	75	30
<b>2006GA</b>	<b>Each</b>	<b>2,00</b>	<b>2,96</b>	<b>2,00</b>	<b>2,96</b>	<b>2,00</b>	<b>2,96</b>	<b>2,00</b>

Type		7L	8	8L	10	10L	12	12L
Hexagon	mm	7	8	8	10	10	12	12
Overall length	mm	75	30	75	30	75	30	75
<b>2006GA</b>	<b>Each</b>	<b>2,96</b>	<b>2,00</b>	<b>2,96</b>	<b>2,00</b>	<b>2,96</b>	<b>2,00</b>	<b>2,96</b>

Type		14	14L
Hexagon	mm	14	14
Overall length	mm	30	75
<b>2006GA</b>	<b>Each</b>	<b>2,10</b>	<b>3,34</b>



**2006GA**

### 2006GC



LENGTH MM 30



LENGTH MM 75



Product description as Art. 2006GA  
XZN head.

Type		<b>5</b>	<b>5L</b>	<b>6</b>	<b>6L</b>	<b>8</b>	<b>8L</b>	<b>10</b>
For screws with XZN polygon	M.	5	5	6	6	8	8	10
Overall length	mm	30	75	30	75	30	75	30
<b>2006GC</b>	<b>Each</b>	<b>2,00</b>	<b>2,96</b>	<b>2,00</b>	<b>2,96</b>	<b>2,00</b>	<b>2,96</b>	<b>2,00</b>

Type		<b>10L</b>	<b>12</b>	<b>12L</b>
For screws with XZN polygon	M.	10	12	12
Overall length	mm	75	30	75
<b>2006GC</b>	<b>Each</b>	<b>2,96</b>	<b>2,00</b>	<b>2,96</b>

### 2006GE



LENGTH MM 30



LENGTH MM 75



Product description as Art. 2006GA  
TORX head.

Type		<b>10</b>	<b>10L</b>	<b>15</b>	<b>15L</b>	<b>20</b>	<b>20L</b>	<b>25</b>
TORX size	T	10	10	15	15	20	20	25
Overall length	mm	30	75	30	75	30	75	30
<b>2006GE</b>	<b>Each</b>	<b>2,00</b>	<b>2,96</b>	<b>2,00</b>	<b>2,96</b>	<b>2,00</b>	<b>2,96</b>	<b>2,00</b>

Type		<b>25L</b>	<b>27</b>	<b>27L</b>	<b>30</b>	<b>30L</b>	<b>40</b>	<b>40L</b>
TORX size	T	25	27	27	30	30	40	40
Overall length	mm	75	30	75	30	75	30	75
<b>2006GE</b>	<b>Each</b>	<b>2,96</b>	<b>2,00</b>	<b>2,96</b>	<b>2,00</b>	<b>2,96</b>	<b>2,00</b>	<b>2,96</b>

Type		<b>45</b>	<b>45L</b>	<b>50</b>	<b>50L</b>	<b>55</b>	<b>55L</b>
TORX size	T	45	45	50	50	55	55
Overall length	mm	30	75	30	75	30	75
<b>2006GE</b>	<b>Each</b>	<b>2,00</b>	<b>2,96</b>	<b>2,00</b>	<b>2,96</b>	<b>2,00</b>	<b>2,96</b>

### 2006GF



LENGTH MM 30



LENGTH MM 75



Product description as Art. 2006GA  
TORX head, with hole.

Type		<b>10</b>	<b>10L</b>	<b>15</b>	<b>15L</b>	<b>20</b>	<b>20L</b>	<b>25</b>
TORX size	T	10	10	15	15	20	20	25
Overall length	mm	30	75	30	75	30	75	30
<b>2006GF</b>	<b>Each</b>	<b>2,96</b>	<b>4,00</b>	<b>2,96</b>	<b>4,00</b>	<b>2,96</b>	<b>4,00</b>	<b>2,96</b>

Type		<b>25L</b>	<b>27</b>	<b>27L</b>	<b>30</b>	<b>30L</b>	<b>40</b>	<b>40L</b>
TORX size	T	25	27	27	30	30	40	40
Overall length	mm	75	30	75	30	75	30	75
<b>2006GF</b>	<b>Each</b>	<b>4,00</b>	<b>2,96</b>	<b>4,00</b>	<b>2,96</b>	<b>4,00</b>	<b>2,96</b>	<b>4,00</b>

Type		<b>45</b>	<b>45L</b>	<b>50</b>	<b>50L</b>	<b>55</b>	<b>55L</b>
TORX size	T	45	45	50	50	55	55
Overall length	mm	30	75	30	75	30	75
<b>2006GF</b>	<b>Each</b>	<b>2,96</b>	<b>4,00</b>	<b>2,96</b>	<b>4,00</b>	<b>2,96</b>	<b>4,00</b>

### 2006GP



Product description as Art. 2006GA

Socket reducers for insert bits. Total length 30mm.

Size		<b>1</b>	<b>2</b>
Square drive	inches	3/8	1/2
Hexagonal tools drive	mm	10	10
<b>2006GP</b>	<b>Each</b>	<b>3,34</b>	<b>3,72</b>

## ASSORTMENTS OF 1/4" SHANK BITS, DIN 3126 C 6.3

### 2008GA



Prod. SCU

In practical round plastic see-through container, with rotating cover.

Set of 7 pcs:

2 bits 5.5 - 7mm

2 bits Phillips cross head, Size 1 - 2

2 bits Pozidriv cross head Size 1 - 2

1 universal magnetic adapter.

<b>2008GA</b>	<b>Each</b>	<b>11,40</b>
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Product description as Art. 2008GA

Set of 7 pcs:

6 bits TORX T10-15-20-25-30-40

1 universal magnetic adapter.

**2008GE** Each **12,70**



**2008GE**



1/4"

**ASSORTMENTS OF 1/4" SHANK BITS, COMBIT-BOX**

**Orig. Witte - Art. 27623**

Compact and handy handle in high-resistant plastic material used as container for 1/4" shank bits, ideal for universal use.

Combit-Box7, red, the set contains:

2 bits Art. 1991 GAX5.5-6.5

2 bits Phillips cross head Art. 1991 GBx1-2

2 bits Pozidriv cross head Art. 1991 GCx1-2

1 universal magnetic adapter.

Complete assortment.

**2010GA** Each **19,30**



**2010GA**



1/4"

By ordering 18 pcs. a cardboard box is supplied to be used as bench display.

**Orig. Witte - Art. 27625**

Product description as Art. 2010GA

Combit-Box7, yellow, the set contains:

6 bits Torx with hole Art. 1991 GN 10-15-20-25-30-40

1 universal magnetic adapter.

Complete assortment.

**2010GE** Each **28,10**



**2010GE**



1/4"

By ordering 18 pcs. a cardboard box is supplied to be used as bench display.

**Orig. Witte - Art. 27624**

Product description as Art. 2010GA

Combit-Box7, black TIN, the set contains:

1 bit "Flex TIN" Phillips cross head Art. 1992 GRx1

2 bits "Flex TIN" Phillips cross head Art. 1992 GRx2

1 bit "Flex TIN" Pozidriv cross head Art. 1992 GSx1

2 bits "Flex TIN" Pozidriv cross head Art. 1992 GSx2

1 universal magnetic adapter.

Complete assortment.

**2010GS** Each **36,70**



**2010GS**



**TIN**

1/4"

By ordering 18 pcs. a cardboard box is supplied to be used as bench display.

**Orig. Witte - Art. 27626**

Product description as Art. 2010GA

Combit-Box7, blue, the set contains:

6 bits hexagonal head Art. 1991 GEX2-2.5-3-4-5-6

1 universal magnetic adapter.

Complete assortment.

**2010GV** Each **24,60**



**2010GV**



1/4"

By ordering 18 pcs. a cardboard box is supplied to be used as bench display.

**2014GA**

**WITTE**  
Werkzeuge


1/4"

**Orig. Witte - Art. 27782**

Compact and handy handle in high-resistant transparent plastic material used as container for 1/4" shank bits, ideal for professional use.

Probit-Box, 11 pcs, black, the set contains:

- 1 bit Phillips cross head Art. 1991 GBx1
  - 3 bits Phillips cross head Art. 1991 GBx2
  - 1 bit Phillips cross head Art. 1991 GBx3
  - 1 bit Pozidriv cross head Art. 1991 GCx1
  - 3 bits Pozidriv cross head Art. 1991 GCx2
  - 1 bit Pozidriv cross head Art. 1991 GCx3
  - 1 universal magnetic adapter
- Complete assortment.

<b>2014GA</b>	Each	<b>31,40</b>
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By ordering 12 pcs. a cardboard box is supplied to be used as bench display.  
Product running out of stock.

**2014GB**

**WITTE**  
Werkzeuge
**TIN**

1/4"

**Orig. Witte - Art. 27781**

Product description as Art. 2014GA

Probit-Box, 11 pcs, yellow TIN, the set contains:

- 1 bit "Flex TIN" Phillips cross head Art. 1992 GRx1
  - 3 bits "Flex TIN" Phillips cross head Art. 1992 GRx2
  - 1 bit "Flex TIN" Phillips cross head Art. 1992 GRx3
  - 1 bit "Flex TIN" Pozidriv cross head Art. 1992 GSx1
  - 3 bits "Flex TIN" Pozidriv cross head Art. 1992 GSx2
  - 1 bit "Flex TIN" Pozidriv cross head Art. 1992 GSx3
  - 1 universal magnetic adapter
- Complete assortment.

<b>2014GB</b>	Each	<b>53,90</b>
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By ordering 12 pcs. a cardboard box is supplied to be used as bench display.  
Product running out of stock.

**2014GC**

**WITTE**  
Werkzeuge


1/4"

**Orig. Witte - Art. 27784**

Product description as Art. 2014GA

Probit-Box, 11 pcs, black, the set contains:

- 1 bit "Flex" Phillips cross head Art. 1992 GNx1
  - 2 bits "Flex" Phillips cross head Art. 1992 GNx2
  - 1 bit "Flex" Phillips cross head Art. 1992 GNx3
  - 1 bit "Flex" Pozidriv cross head Art. 1992 GPx1
  - 2 bits "Flex" Pozidriv cross head Art. 1992 GPx2
  - 1 bit "Flex" Pozidriv cross head Art. 1992 GPx3
  - 2 bits Art. 1991 GAx5.5 - 6.5
  - 1 universal magnetic adapter
- Complete assortment.

<b>2014GC</b>	Each	<b>38,30</b>
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By ordering 12 pcs. a cardboard box is supplied to be used as bench display.  
Product running out of stock.

**2014GE**

**WITTE**  
Werkzeuge


1/4"

**Orig. Witte - Art. 27783**

Product description as Art. 2014GA

Probits-Box 11, blue, the set contains:

- 1 bit Phillips cross head Art. 1991 GBx1
  - 1 bit Phillips cross head Art. 1991 GBx2
  - 1 bit Pozidriv cross head Art. 1991 GCx1
  - 1 bit Pozidriv cross head Art. 1991 GCx2
  - 6 bits TORX Art. 1991 GLx10-15-20-25-30-40
  - 1 universal magnetic adapter
- Complete assortment.

<b>2014GE</b>	Each	<b>34,90</b>
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By ordering 12 pcs. a cardboard box is supplied to be used as bench display.  
Product running out of stock.



**Orig. Witte - Art. 27786**

Product description as Art. 2014GA

Probit-Box 21, red, the set contains:

- 2 bits Phillips cross head Art. 1991 GBx1
- 5 bits Phillips cross head Art. 1991 GBx2
- 2 bits Phillips cross head Art. 1991 GBx3
- 2 bits Pozidriv cross head Art. 1991 GCx1
- 5 bits Pozidriv cross head Art. 1991 GCx2
- 2 bits Pozidriv cross head Art. 1991 GCx3
- 2 bits Art. 1991 GAX5.5 - 6,5
- 1 universal magnetic adapter

Complete assortment.

<b>2014GF</b>	<b>Each</b>	<b>45,70</b>
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By ordering 12 pcs. a cardboard box is supplied to be used as bench display.  
Product running out of stock.


**2014GF**

**Orig. Witte - Art. 27785**

Product description as Art. 2014GA

Probit-Box 21, yellow TIN, the set contains:

- 2 bits "Flex TIN" Phillips cross head Art. 1992 GRx1
- 3 bits "Flex TIN" Phillips cross head Art. 1992 GRx2
- 2 bits "Flex TIN" Phillips cross head Art. 1992 GRx3
- 2 bits "Flex TIN" Pozidriv cross head Art. 1992 GSx1
- 3 bits "Flex TIN" Pozidriv cross head Art. 1992 GSx2
- 2 bits "Flex TIN" Pozidriv cross head Art. 1992 GSx3
- 6 bits TORX with hole Art. 1991 GNAX10-15-20-25-30-40
- 1 universal magnetic adapter

Complete assortment.

<b>2014GL</b>	<b>Each</b>	<b>92,60</b>
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By ordering 12 pcs. a cardboard box is supplied to be used as bench display.  
Product running out of stock.


**2014GL**
**TIN**

**Orig. Witte - Art. 27788**

Product description as Art. 2014GA

Probit-Box 21, black, the set contains:

- 2 bits "Flex" Phillips cross head Art. 1992 GNx1
- 3 bits "Flex" Phillips cross head Art. 1992 GNx2
- 2 bits "Flex" Phillips cross head Art. 1992 GNx3
- 2 bits "Flex" Pozidriv cross head Art. 1992 GPx1
- 3 bits "Flex" Pozidriv cross head Art. 1992 GPx2
- 2 bits "Flex" Pozidriv cross head Art. 1992 GPx3
- 6 bits TORX with hole Art. 1991 GNx10-15-20-25-30-40
- 1 universal magnetic adapter

Complete assortment.

<b>2014GM</b>	<b>Each</b>	<b>58,20</b>
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By ordering 12 pcs. a cardboard box is supplied to be used as bench display.  
Product running out of stock.


**2014GM**

**8**
**Orig. Witte - Art. 27787**

Product description as Art. 2014GA

Probit-Box 21, blue, the set contains:

- 2 bits Phillips cross head Art. 1991 GBx1
- 3 bits Phillips cross head Art. 1991 GBx2
- 1 bit Phillips cross head Art. 1991 GBx3
- 2 bits Pozidriv cross head Art. 1991 GCx1
- 3 bits Pozidriv cross head Art. 1991 GCx2
- 1 bit Pozidriv cross head Art. 1991 GCx3
- 6 bits TORX Art. 1991 GLx10-15-20-25-30-40
- 2 bits Art. 1991 GAX5.5 - 6.5
- 1 universal magnetic adapter

Complete assortment.

<b>2014GP</b>	<b>Each</b>	<b>47,30</b>
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By ordering 12 pcs. a cardboard box is supplied to be used as bench display.  
Product running out of stock.


**2014GP**


## ASSORTED BITS, 1/4" RATCHDRIVE CONNECTION

2015GA




Ratchet

1/4"

**Orig. Witte - Art. 251012000**

Reversible ratchet handle with built in D+S movement, handy, made from durable plastic material which acts as a container for 1/4 inch attachments, ideal for all types of professional usage.

Contents:

- 1 ratchet handle
- 3 Phillips cross-slotted bits Art. 1991GBx1-2-3
- 3 Pozidriv cross-slotted bits Art. 1991GCx1-2-3
- 1 universal magnetic coupling with ring nut

Complete set.

2015GA	Each	34,50
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2015GE




Ratchet

1/4"

**Orig. Witte - Art. 251022000**

Product description as Art. 2015GA

Contents:

- 1 ratchet handle
- 6 TORX bits Art. 1991 GL 10-15-20-25-30-40
- 1 universal magnetic coupling with ring nut

Complete set.

2015GE	Each	35,10
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2015GL




Ratchet

TIN

1/4"

**Orig. Witte - Art. 251042000**

Product description as Art. 2015GA

Contents:

- 1 ratchet handle
- 3 Phillips cross-slotted TIN bits Art. 1991GBEx1-2-3
- 3 Pozidriv cross-slotted TIN bits Art. 1991GCEx1-2-3
- 1 universal magnetic coupling with ring nut

Complete set.

2015GL	Each	37,90
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## ASSORTMENTS OF 1/4" SHANK BITS, DIN 3126 BITCAS

2015GR  
*new*



1/4"

1/4"

**Orig. Witte - Art. 31201**

In a practical and robust plastic box, with a transparent cover and belt clip.

Set of 32 pieces:

- 2 Phillips bits Art. 1991GBx1
- 5 Phillips bits Art. 1991GBx2
- 2 Phillips bits Art. 1991GBx3
- 2 Pozidriv bits Art. 1991GCx1
- 5 Pozidriv bits Art. 1991GCx2
- 2 Pozidriv bits Art. 1991GCx3
- 2 TORX impression bits Art. 1991GLx10
- 2 TORX impression bits Art. 1991GLx15
- 2 TORX impression bits Art. 1991GLx20
- 2 TORX impression bits Art. 1991GLx25
- 2 TORX impression bits Art. 1991GLx30
- 2 TORX impression bits Art. 1991GLx40
- 1 male adapter for square connection sockets 1/4"
- 1 universal magnetic connection with ring.

Complete set.

2015GR	Each	20,40
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By ordering 12 pcs. will be provided a cardboard box with the function of counter display.

**Orig. Witte - Art. 31200**

Product description as Art. 2015GR

Set of 24 pieces:

- 1 Phillips bit Art. 1991GBx1
- 3 Phillips bits Art. 1991GBx2
- 1 Phillips bit Art. 1991GBx3
- 1 Pozidriv bit Art. 1991GCx1
- 3 Pozidriv bits Art. 1991GCx2
- 1 Pozidriv bit Art. 1991GCx3
- 1 TORX impression bit Art. 1991GLx10
- 1 TORX impression bit Art. 1991GLx15
- 1 TORX impression bit Art. 1991GLx20
- 1 TORX impression bit Art. 1991GLx25
- 1 TORX impression bit Art. 1991GLx30
- 1 TORX impression bit Art. 1991GLx40
- 1 cutting bit Art. 1991 GAx5.5
- 1 cutting bit Art. 1991 GAx6.5
- 1 hexagonal socket 8 mm
- 1 hexagonal socket 10 mm
- 1 hexagonal socket 13 mm
- 1 male adapter for square connection sockets 1/4"
- 1 universal magnetic connection with locking ring.
- 1 reversible ratchet lever female hexagonal connection 1/4", with magnet.

Complete set.

**2015GT** Each **36,10**

By ordering 12 pcs. will be provided a cardboard box with the function of counter display.

**WITTE**  
WERKZEUGE

**2015GT**  
*new*



1/4"

1/4"

**Prod. SCU**

In convenient metal case.

The set contains 31 pcs:

- 3 x Phillips cross head bits Art. 1991GBx1
- 9 x Phillips cross head bits Art. 1991GBx2
- 3 x Phillips cross head bits Art. 1991GBx3
- 3 x Pozidriv cross head bits Art. 1991GCx1
- 9 x Pozidriv cross head bits Art. 1991GCx2
- 3 x Pozidriv cross head bits Art. 1991GCx3
- 1 x universal magnetic adapter Art. 1995 GA

Complete assortment.

**2016GB** Each **40,10**

**SCU**

**2016GB**



1/4"

8

Product description as Art. 2016GB

The set contains 31 pcs:

- 3 x Phillips cross head bits Art. 1991GBx1
- 6 x Phillips cross head bits Art. 1991GBx2
- 3 x Phillips cross head bits Art. 1991GBx3
- 3 x Pozidriv cross head bits Art. 1991GCx1
- 6 x Pozidriv cross head bits Art. 1991GCx2
- 3 x Pozidriv cross head bits Art. 1991GCx3
- 1 x TORX head bit Art. 1991 GLx10
- 1 x TORX head bit Art. 1991 GLx15
- 1 x TORX head bit Art. 1991 GLx20
- 1 x TORX head bit Art. 1991 GLx25
- 1 x TORX head bit Art. 1991 GLx30
- 1 x TORX head bit Art. 1991 GLx40
- 1 x universal magnetic adapter Art. 1995 GA

Complete assortment.

**2016GE** Each **41,30**

**SCU**

**2016GE**



1/4"

**2018G**

new


**WITTE**


1/4"

**Orig. Witte - Art. 28477**

In a practical and sturdy plastic package.

Set of 10 pieces:

- 1 Phillips bit Art. 1994RAx1
- 1 Phillips bit Art. 1994RAx2
- 1 Phillips bit Art. 1994RAx3
- 1 Pozidriv bit Art. 1994RBx1
- 1 Pozidriv bit Art. 1994RBx2
- 1 Pozidriv bit Art. 1994RBx3
- 1 TORX impression bit Art. 1994REx15
- 1 TORX impression bit Art. 1994REx20
- 1 TORX impression bit Art. 1994REx25
- 1 TORX impression bit Art. 1994REx30

Complete set.

<b>2018G</b>	Each	<b>42,80</b>
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By ordering 12 pcs. will be provided a cardboard box with the function of counter display.

**ASSORTMENT OF INTERCHANGEABLE BLADE SCREWDRIVERS****2021G**

**SCU**


1/4"

**Prod. SCU**

Assortment of interchangeable blades, reversible, length 165mm, 1/4" hexagonal. Handle 117x37mm with 1/4" hexagonal shank. In sturdy case.

The set contains 12 pcs:

- 1 handle
- 1 straight-cut blade 3.5/4mm
- 1 straight-cut blade 5.5/6.5mm
- 1 cross-cut blade PH 1/PZD 1
- 1 cross-cut blade PH 2/PZD 2
- 1 blade for hexagons 3mm/sphere-shaped 3mm
- 1 blade for hexagons 4mm/sphere-shaped 4mm
- 1 blade for hexagons 5mm/sphere-shaped 5mm
- 1 blade for hexagons 6mm/sphere-shaped 6mm
- 1 blade TORX T 10/T 15
- 1 blade TORX T 20/T 25
- 1 blade TORX T 30/T 40

Complete assortment.

<b>2021G</b>	Each	<b>75,70</b>
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Loose blades available on request.

**DISPLAY UNITS FOR 1/4 SHANK BITS, DIN 3126 WITTE - CENTER****2022G**

**WITTE**


1/4"

**Orig. Witte**

With transparent drawers in sturdy synthetic material. For practical storage and easy access to bits, thanks to the clear description on each single drawer.

A perfect solution for a complete assortment in narrow spaces.

Dimensions with advertising sign mm 280x150x340 h.

The set contains 263 pcs in 16 drawers:

- |                        |                       |
|------------------------|-----------------------|
| 10pcs Art. 1991 GAx4   | 10pcs Art. 1991 GEx5  |
| 10pcs Art. 1991 GAx4.5 | 10pcs Art. 1991 GEx6  |
| 10pcs Art. 1991 GAx5.5 | 10pcs Art. 1994 GLx1  |
| 10pcs Art. 1991 GAx6   | 10pcs Art. 1994 GLx2  |
| 10pcs Art. 1991 GAx6.5 | 5pcs Art. 1994 GLx3   |
| 5pcs Art. 1991 GAx8    | 10pcs Art. 1991 GLx9  |
| 5pcs Art. 1991 GBx0    | 10pcs Art. 1991 GLx10 |
| 20pcs Art. 1991 GBx1   | 10pcs Art. 1991 GLx15 |
| 20pcs Art. 1991 GBx2   | 10pcs Art. 1991 GLx20 |
| 10pcs Art. 1991 GBx3   | 5pcs Art. 1991 GLx25  |
| 10pcs Art. 1991 GCx1   | 5pcs Art. 1991 GLx27  |
| 10pcs Art. 1991 GCx2   | 5pcs Art. 1991 GLx30  |
| 5pcs Art. 1991 GEx2.5  | 5pcs Art. 1991 GLx40  |
| 10pcs Art. 1991 GEx3   | 3pcs Art. 1995 GB.    |
| 10pcs Art. 1991 GEx4   | Complete display.     |

<b>2022G</b>	Each	<b>194,48</b>
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With transparent drawers in sturdy synthetic material. For practical storage and easy access to bits, thanks to the clear description on each single drawer.  
A perfect solution for a complete assortment in narrow spaces.  
Dimensions with advertising sign mm 410x150x470 h.  
450 pcs in 42 drawers::

10pcs Art. 1991 GAx4	10pcs Art. 1991 GLx6	10pcs Art. 1994 GLx2
10pcs Art. 1991 GAx4,5	10pcs Art. 1991 GLx7	5pcs Art. 1994 GLx3
10pcs Art. 1991 GAx5,5	10pcs Art. 1991 GLx8	5pcs Art. 1994 GMx1
10pcs Art. 1991 GAx6	10pcs Art. 1991 GLx9	5pcs Art. 1994 GMx2
10pcs Art. 1991 GAx6,5	10pcs Art. 1991 GLx10	3pcs Art. 1994 GMx3
5pcs Art. 1991 GAx8	10pcs Art. 1991 GLx15	5pcs Art. 1994 GPx4
10pcs Art. 1991 GBx0	10pcs Art. 1991 GLx20	5pcs Art. 1994 GPx5
20pcs Art. 1991 GBx1	5pcs Art. 1991 GLx25	5pcs Art. 1994 GPx6
20pcs Art. 1991 GBx2	5pcs Art. 1991 GLx27	5pcs Art. 1994 GTx10
10pcs Art. 1991 GBx3	5pcs Art. 1991 GLx30	5pcs Art. 1994 GTx15
10pcs Art. 1991 GCx0	5pcs Art. 1991 GLx40	3pcs Art. 1994 GTx20
20pcs Art. 1991 GCx1	2pcs Art. 1991 GR	3pcs Art. 1994 GTx25
20pcs Art. 1991 GCx2	10pcs Art. 1994 GHx4	3pcs Art. 1995 GA
10pcs Art. 1991 GCx3	10pcs Art. 1994 GHx4,5	3pcs Art. 1995 GB
5pcs Art. 1991 GEx2,5	10pcs Art. 1994 GHx5,5	2pcs Art. 1995 GC
10pcs Art. 1991 GEx3	10pcs Art. 1994 GHx6	2pcs Art. 1995 GD
10pcs Art. 1991 GEx4	10pcs Art. 1994 GHx6,5	2pcs Art. 1995 GL
10pcs Art. 1991 GEx5	5pcs Art. 1994 GHx8	2pcs Art. 1995 GF.
10pcs Art. 1991 GEx6	10pcs Art. 1994 GLx1	Complete display.

**2023G** Each **580,46**

**WITTE**  
Werkzeuge

**2023G**



1/4"

**SETS OF INSERT BITS WITH HEXAGONAL SHANK 10MM FOR SCREWDRIVERS**

**Prod. SCU**

In CHROME-VANADIUM steel, hardened.  
Sandblasted finish.

Supplied in practical metal case.

Each set contains 40 items:

- 1 pcs. for type Art. 2006 GA x 4-4L-5-5L-6-6L-7-7L-8-8L-10-10L-12-12L
- 1 pcs. for type Art. 2006 GC x 5-5L-6-6L-8-8L-10-10L-12-12L
- 1 pcs. for type Art. 2006 GE x 20-20L-25-25L-30-30L-40-40L-45-45L-50-50L-55-55L
- 1 pcs. for type Art. 2006 GP x 1
- 1 pcs. for type Art. 2006 GP x 2

Sold as complete set.

**2025G** Each **84,80**

**SCU**



**2025G**



**TORX®**



10 mm

**8**

**GAUGES FOR TORX SCREWS**

**Orig. Gedore - Art. 708**

In synthetic material, easy to use for establishing widths of the following screws: TORX - TORX with male hole T10 to T60 and female TORX screws E4 to E16.

**2030G** Each **8,48**

**GEDORE**

**TORX®**

**2030G**



**TORX®**

**APPARATUS FOR MAGNETIZATION AND DEMAGNETIZATION**

**Prod. SCU**

Body made of unbreakable plastic material, without cadmium.  
For magnetizing and demagnetizing screwdriver blades, bits, etc.

**2040G** Each **8,96**

**SCU**

**2040G**



## SAFETY VEST

2050 **SCU****Prod. SCU**

Colour: yellow. In polyester with horizontal reflective stripes.  
 In compliance with AG-02 EN 471 standard.  
 One size fits all XXL.  
 Ideal when it is necessary to be visible.

<b>2050</b>	Each	<b>5,24</b>
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## CLIMBING IRONS

2060G **SCU****Prod. SCU**

Model for wooden poles, made to the highest quality. Arches each have 3 claws, in special forged steel, tested piece by piece as specified by DIN 54130 standards, for use with cracks, material blowholes, or for manufacturing defects.  
 Robust footrests made from sheet steel plating, ribbings, fastening belts, and heavy heels made from genuine leather. Workload of 400 kg. Tensile strength of 800 kg. Galvanised finish.  
 Manufactured according to DIN 48345 standards.

For posts from Ø 150 to 260mm.

<b>2060G</b>	Per pair	<b>634,00</b>
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POST FIXING BRACKETS for cement or steel posts available on request.

## SAFETY BELTS

2062 **SCU****Prod. SCU**

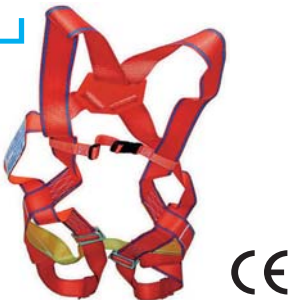
Work positioning type with 2 rings and steel fastening buckle.  
 In polyamide, with strong seams, 3 nylon rings for tools and anatomical back pad for maximum comfort. Adjustable waist size: 85cm-120cm. With safety rope, karabiner and buckle. In compliance with UNI-EN 358 standards.

<b>2062</b>	Each	<b>74,10</b>
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Belts without ropes are supplied on request.

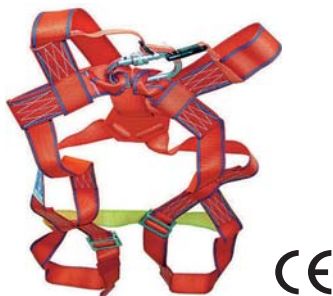
Spare safety rope, length 2m, with spring catch and buckle for Art. 2062.

<b>O2062</b>	Each	<b>36,70</b>
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2063A **SCU**

Fall arrest harness, with dorsal junction and 2 steel buckles. Adjustable, polyamide band with strong seams. In compliance with UNI-EN 361 standards.

<b>2063A</b>	Each	<b>38,80</b>
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2063E **SCU**

Fall arrest harness, with dorsal junction.  
 2 strong buttonholes and karabiner for chest supplementary fastening.  
 Adjustable, polyamide band with strong seams.  
 In compliance with UNI-EN 361 standards.

<b>2063E</b>	Each	<b>62,70</b>
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Combination of harness Art. 2063 A and positioning belt 2062.  
In compliance with UNI-EN 358/361 standards.

**2064A** Each **130,00**

SCU



**2064A**



Combination of harness Art. 2063 E and positioning belt 2062.  
In compliance with UNI-EN 358/361 standards.

**2064E** Each **154,00**

SCU



**2064E**



**SAFETY ACCESSORIES**

**Prod. SCU**

Fall arrest device, made from special steel.  
Supplied with fibre rope and 2 safety snap hooks.  
Rope length: 10m.

**2070F** Each **204,00**

Product description as Art. 2070F  
Rope length: 20m.

**2070L** Each **214,00**

SCU



**2070F**  
**2070L**



Dissipator device that absorbs energy after a fall. Supplied with polyamide rope, strap with high ultimate tensile strength and 2 safety karabiners. Total length: 2m approx. It can be equipped with scaffolding anchor pliers.

**2070P** Each **108,00**

SCU



**2070P**



Scaffolding anchor pliers, opening Ø 100 mm.

**2070S** Each **54,10**

Scaffolding anchor pliers, opening Ø 140 mm.

**2070T** Each **57,30**

SCU



**2070S**  
**2070T**



**INDUSTRIAL SAFETY HELMETS**

**Prod. SCU**

Reinforced helmet in polyethylene with adjustable shell.  
Made in compliance with EN 397 standards.

**2071B** Each **7,16**

For muffs to be mounted on helmets 2071 B see Art. 2071 BE.

SCU



**2071B**



**2071BA****SCU**

Reinforced helmet in polyethylene with adjustable shell.  
Integrated polycarbonate protective goggles that can be lowered.  
Made in compliance with CE/EN 397/440V and EN 166 standards.

**2071BA** Each **131,00**



### EAR PROTECTORS

**2071BC****SCU****Prod. SCU**

Professional model, with electronic control, for both maximum insulation and better communication with other people. Means that an acoustic pressure of 85 dB is never exceeded, either indoors or outdoors. With shells made from plastic shock proof material; ear cushions made from sound absorbing material. Adjustable to give the best position and fit. Can rest on top of the head, behind the neck or under the chin. Manufactured in compliance with EN 352-1:2002-EN 352-4:2001-ANSI S3.19. Headband and rotating ear shells, with extra padding for maximum comfort.

Operates using 2 alkaline batteries (AA type - Art. 3600 E), not provided.

Operating temperature: -6 °C to +40 °C.

**2071BC** Each **56,30**

Product running out of stock.

**2071BE****SCU**

Model for direct helmet application as per Art. 2071 B.

Coupled with impact resistant plastic, sound insulated padding. Adjustments for providing the best positioning and grip. Manufactured according to 2071 standards. Coupled with impact resistant plastic, sound insulated padding as per EN 352-1 standards. Strongly insulated to produce consistent noise levels.

**2071BE** Per pair **33,60**

**2071C****SCU**

With shock-proof plastic shells; ear cushions in sound absorbing material.

Adjustable to obtain optimal positioning and fit. Supported over the head, behind the neck or under the chin.

Made in compliance with EN 352-1 standards.

Maximum insulation type for high noise. Headband and rotating ear shells, with big padding for maximum comfort. With handy case.

**2071C** Each **41,50**

**2071D****SCU**

Product description as Art. 2071C

Strong insulation type for constant noise. Headband and rotating, padded ear shells.

**2071D** Each **32,60**





Product description as Art. 2071C  
 Standard type, with padded rotating ear shells.

**2071E** Each **10,50**

SCU



2071E



**EAR PLUGS**

**Prod. SCU**

In foam, soft and comfortable material.  
 In package unit of 250 pairs.

**2071F** La conf. **122,00**

SCU



2071F

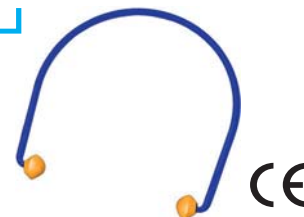


With headband and round-shaped plugs, in soft, washable plastic material. Indicated for high constant noise.

**2071H** Each **10,30**

On request, spare ear plugs.

SCU



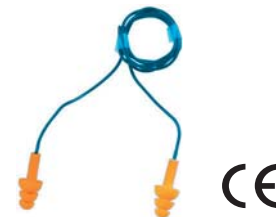
2071H



With cord and cone-shaped plugs in soft, washable plastic material. Indicated for strong discontinuous noises.

**2071M** Each **5,04**

SCU



2071M



**ANTI-DUST MASKS**

**Prod. SCU**

Standard type, fits over the face, made in a material that protects against gross dusts, wood dusts, calcium carbonate, salt, cellulose, smog, fumes, etc.

**2071M 6** Each **0,26**

SCU



2071M 6

8

Professional type with double layer filter, with upper sealing edge, nose clip and heat-sealed elastics.

**2071P** Each **1,60**

SCU



2071P



Professional with double layer filter, with exhalation valve, upper sealing edge, nose clip and heat-sealed elastics.

**2071P 1** Each **2,96**

SCU



2071P 1  
*new*



**2071P 2** SCU  
*new*


CE

Product description as Art. 2071P 1

Professional with double layer filter, with exhalation valve, upper sealing edge, nose clip and heat-sealed elastics.

<b>2071P 2</b>	Each	<b>3,56</b>
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**2071P 3** SCU  
*new*


CE

Product description as Art. 2071P 1

Professional with double layer filter, with exhalation valve, total sealing edge, nose clip and elastic heat-sealed.

<b>2071P 3</b>	Each	<b>6,08</b>
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**2071P 4** SCU  
*new*


CE

Professional with double layer filter, with exhalation valve, total sealing edge, nose clip and adjustable elastics.

<b>2071P 4</b>	Each	<b>10,90</b>
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**2071P 6** SCU


CE

Type with a active carbon layer filter, with upper sealing edge, nose clip and heat-sealed elastics.

<b>2071P 6</b>	Each	<b>3,84</b>
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**2071R** SCU


CE

Industrial type, with active carbon filter and expiratory valve. With upper sealing edge and nose clip.

<b>2071R</b>	Each	<b>5,36</b>
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**2071T** SCU


CE

Industrial type, with active carbon filter and expiratory valve. With upper total sealing edge, nose clip and adjustable elastics.

<b>2071T</b>	Each	<b>10,50</b>
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Foldable industrial type, with double layer filter, expiratory valve and internal nose clip. Perfectly fits over the face.

**2071Z** Each **3,58**

SCU

**2071Z**



Product description as Art. 2071Z

Foldable headband model with double-layer filter, exhalation valve, internal nose clip and heat sealed elastics. Perfectly adaptable to the face.

**2071Z 3** Each **10,30**

SCU

**2071Z 3**

*new*



**TOOL POCKETS**

**Prod. SCU**

Professional type in sturdy polyester. Reinforcement seams and studs.

1 x central space and 8 x compartments (2 external ones). For belts max 50mm high.

Dimensions: 180x90x270h mm.

**2071ZL** Each **12,90**

For pouches Art. 2071 ZL complete with tools see Art. 985 GA 13.

SCU

**2071ZL**



Product description as Art. 2071ZL

2 x central space, 4 x band internal through compartments, 1 x external pocket, 2 x side compartments and hammer holding ring. For belts max 50mm high.

Dimensions: 180x130x260h mm.

**2071ZM** Each **15,70**

For pouches Art. 2071 ZM complete with tools see Art. 359 A - 985 GA 16.

SCU

**2071ZM**



**8**

**UNIVERSAL BAGS**

**Prod. SCU**

Handy box professional type in sturdy polyester. Reinforcement seams and studs.

With large central space, closure and 18 x tool internal compartments. 9 x external pockets for tools and objects (cell phone, pens, etc.). Padded carrying handle. Support through belt for combined use with handy box-trolley Art. 2071 ZT. Weight: 2kg.

Dimensions: 410x250x330h mm.

**2071ZP** Each **75,40**

For bags Art. 2071 ZP complete with tools see Art. 985 GM.

SCU

**2071ZP**



Handy box professional type with incorporated trolley, 2 hard rubber wheels on ball bearings and telescopic handle. Made of sturdy polyester. Reinforcement seams and studs.

With large central space, closure and 16 x tool internal compartments. 7 x external pockets for tools and objects (cell phone, pens, etc.). Lower space with zip and plastic storage case. Padded carrying handle. Weight: 4.3kg.

Dimensions: 410x260x480h mm.

**2071ZT** Each **142,00**

For bags Art. 2071 ZT complete with tools see Art. 359 P - 985 P.

SCU

**2071ZT**



**TOOL RUCKSACKS**

2071ZV


**Prod. SCU**

Professional type in sturdy reinforced polyester. Additional seams, very convenient and resistant. With large central space and zip where a padlock can be used. With several internal spaces and compartments for tools and documents. 6 x front pockets (different size) for tools and small objects (cell phone, pens, etc.). Adjustable padded shoulder straps, carrying handle. Weight: 1.3kg.

Dimensions: 320x120x400h mm.

2071ZV	Each	45,10
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For rucksacks Art. 2071 ZV complete with tools see Art. 985 G 25.

**COMBINED TOOL BAGS**

2072


**Prod. SCU - Orig. Hepco & Becker**

Professional type made from sturdy reinforced polyester, cut and abrasion resistant, particularly suited to carry tools and laptop computers or electrical equipment. All fastenings are with zips. Fitted with large central compartment with partition, 2 large side compartments that open to 90° with tool holders and pocket for documents, 2 small pockets at the front and rear for smaller objects, handle and adjustable carrying strap.

Weight Kg 2.6.

Dimensions

Dimensions	mm	440x330x230 h
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2072	Each	98,30
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Upon sale of all stock, the black bag will be supplied.

**TOOL VESTS**

2072 1


**Orig. Peddinghaus - Art. 9587000001**

Professional model in reinforced polyester, practical and robust for working comfort. Zip closure, with 9 multi-purpose pockets of different dimensions, pen holder pocket, through-hole for coat-holding, 1 x tongue-shaped karabiner hook, 1 x through hole with ring holder for tools. One size fits all with 4 adjusting buckles.

2072 1	Each	30,30
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**SITTING TOOL BAGS**

2072 3


**Prod. SCU - Orig. Hepco & Becker**

Practical combination of capacious tool bag and folding stool with a high load capacity (120 Kg). Made of reinforced polyester, particularly functional and robust. 1 very large compartment with practical bags and pockets and tool holders, removable. All fastenings are with zips. Fitted with 1 side pocket with velcro fastener. Suitable for professional use.

Dimensions mm 350x280x360 h

2072 3	Each	84,30
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**UNIVERSAL BAGS**
2072 4A  
*new*

**Orig. Peddinghaus - Art. 00004200LB**

Made of sturdy polyester reinforced with leather. Reinforced stitching. With multiple pockets for nails, screws, hammer, pliers, pincers, 1 fabric side hook and snap-hook. With wide belt loop also for belt Art. 2072 L. Ideal for carpenters, maintenance operators, builders, etc.

Dimensions mm 150x200

2072 4A	Each	27,70
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**Orig. Peddinghaus - Art. 6443000010**

Made of leather. Reinforced stitches and studs. With multiple pockets for nails, screws, hammer, pliers, pincers, 1 leather side hook and central support. With Nylon belt, adjustable. Ideal for carpenters, maintenance operators, builders, etc.

Dimensions	mm	220x210
<b>2072 6A</b>	Each	<b>24,30</b>



**2072 6A**  
*new*

**Prod. SCU - Orig. Hepco & Becker**

Professional type made of reinforced polyester, cut and abrasion resistant. With multiple pockets for nails, hardware items, hammer, pliers, pincers, side hooks and metal central support for tools with clips. Adjustable belt. Snap fastening. Ideal for carpenters, maintenance technicians, builders, joiners, etc.

Dimensions	mm	550x210
<b>2072 9</b>	Each	<b>33,40</b>



**2072 9**

**Prod. SCU**

In bovine crust leather. Reinforcement seams and studs. With multiple pockets for nails, small parts, hammer, pliers, tongs, 2 lateral leather hooks and centre metal support. With adjustable belt made of fabric. Ideal for carpenters, maintenance personnel, building personnel, joiners etc.

Dimensions	mm	550x210
<b>2072 10</b>	Each	<b>16,90</b>



**2072 10**

In genuine hide, belt with buckle and ring. 3 compartments plus one big pocket.

Dimensions	mm	240x60x350 h
<b>2072A</b>	Each	<b>50,50</b>



**2072A**

**8**

**BELTS**

**Orig. Peddinghaus - Art. 00004100LB**

Entirely made of strong leather, 3 mm thick. Length 1350 mm, can be shortened, width 45 mm. With buckle and loop. Ideal for use with bags Art. 2071 ZL - ZM - 2072 4.

<b>2072L</b>	Each	<b>15,30</b>
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**2072L**  
*new*

**UNIVERSAL BAGS**

**Prod. SCU**

Made of leather reinforced in the front, back and bottom with faesite. Inside tool holder, carrying strap and bottom studs. With 2 buckle locks. Colour: black. Indicated for electricians, aerial fitters, etc.

Dimensions	mm	350x120x250 h
<b>2073B</b>	Each	<b>41,40</b>



**2073B**  
**2073C**  
**2073D**

Panels with elastic bands Art. 2073 B

<b>O2073B</b>	Each	<b>11,70</b>
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Product description as Art. 2073B

Dimensions	mm	400x120x250 h
<b>2073C</b>	Each	<b>44,10</b>

Panels with elastic bands Art. 2073 C

<b>O2073C</b>	Each	<b>12,10</b>
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Product description as Art. 2073B

Dimensions	mm	450x120x250 h
<b>2073D</b>	Each	<b>46,30</b>

Panels with elastic bands Art. 2073 D

<b>O2073D</b>	Each	<b>12,20</b>
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**2073F**  
**2073L**

**SCU**



Made of leather reinforced in the front, back and bottom with faesite. Handle, carrying strap and bottom studs. Lateral edges steel reinforcement. With 2 buckle locks. Colour: black. Indicated for electricians, aerial fitters, etc.

Art.	2073F	2073L
Dimensions	mm 430x180x250 h	450x200x250 h
Each	69,20	71,90

**2074A**  
**2074B**  
**2074C**  
**2074E**

**SCU**



In genuine, natural, heavy-duty leather. Sturdy structure, accurate seams, carrying strap and 2 buckle locks in genuine leather. Colour: black. Indicated for electricians, aerial fitters, etc.

Art.	2074A	2074B	2074C	2074E
Dimensions	mm 300x110x200 h	350x115x220 h	400x140x250 h	500x150x250 h
Each	57,20	64,40	71,10	82,50

**2074P**  
**2074R**  
**2074S**

**SCU**



Made of leather reinforced in the front, back and bottom with faesite. With carrying strap, corner reinforcements and bottom studs. Colour: black. Indicated for plumbers, installers, etc.

Art.	2074P	2074R	2074S
Dimensions	mm 400x180x180 h	450x200x200 h	550x180x180 h
No. of closures	2	2	3
Each	51,10	64,50	56,10

**2074V**  
**2074Z**

**SCU**



Made of leather reinforced in the front, back and bottom with faesite. With carrying strap, corner reinforcements and bottom studs. Lateral edges steel reinforcement. Colour: black.

Art.	2074V	2074Z
Dimensions	mm 450x200x200 h	550x180x180 h
No. of closures	2	3
Each	70,50	58,50

**2075**

**SCU**



In genuine, natural, heavy-duty leather. Sturdy structure, accurate seams, carrying strap and 2 buckle locks in genuine leather. Bottom studs. Colour: black. Indicated for plumbers, installers, etc.

Dimensions	mm 400x180x180 h
<b>2075</b>	Each 79,10

**2075F**  
**2075P**  
**2075S**

**SCU**



Heavy-duty type, maximum stability. In genuine natural leather, accurate outside hand seams allow maximum use of the inside room. With inside masonite reinforcements, corner reinforcements and bottom studs. Carrying strap and 2 buckle locks in genuine leather. Colour: black. Indicated for plumbers, installers, etc.

Art.	2075F	2075P	2075S
Dimensions	mm 350x180x180 h	400x180x180 h	450x180x180 h
Each	91,20	95,40	100,10

For universal bags Art. 2075 S complete with tools see Art. 986 G/8.

Tool roll type. With strap catch and buckle lock. In synthetic fabric and PVC.  
Seams on the contour profiles and between push-in compartments.

With 5 pockets

Dimensions	mm	280x305
<b>2076GA</b>	Each	<b>7,90</b>

Product description as Art. 2076GA

With 8 pockets

Dimensions	mm	400x300
<b>2076GB</b>	Each	<b>8,62</b>

Product description as Art. 2076GA

With 10 pockets

Dimensions	mm	500x325
<b>2076GBB</b>	Each	<b>8,98</b>

Product description as Art. 2076GA

With 12 pockets

Dimensions	mm	560x325
<b>2076GC</b>	Each	<b>9,68</b>

Product description as Art. 2076GA

With 15 pockets

Dimensions	mm	660x330
<b>2076GD</b>	Each	<b>11,90</b>

Product description as Art. 2076GA

With 20 pockets

Dimensions	mm	750x330
<b>2076GE</b>	Each	<b>13,10</b>

For universal bags Art. 2076 GE complete with tools see Art. 985 GL.



**2076GA**  
**2076GB**  
**2076GBB**  
**2076GC**  
**2076GD**  
**2076GE**



**Prod. SCU - Orig. Hepco & Becker**

Professional envelope model, made from sturdy reinforced polyester, which is resistant to punctures and abrasion. Zipper fastener. 7 pocket slots, 31 elastic slots, transparent pocket card holders, and a small storage pocket with a pressure lock. Weight 0.5 kg.

Dimensions	mm	345x255x45 h
<b>2076GL</b>	Each	<b>34,10</b>

Upon sale of all stock, the black bag will be supplied.



**2076GL**



**8**

Bag type with shoulder strap. Made of extra-thick leather.  
Large compartment for tools, adjustable housings, with bottom studs.  
Snap lock with key. Weight 1.2 Kg.

Dimensions	mm	220x140x250 h
<b>2076GP</b>	Each	<b>105,00</b>



**2076GP**



Briefcase model with handle and latches complete with keys.  
Made from thick resistant fabric, which is also resistant to cuts and abrasion.  
Has a reinforced bottom and side edges made from sheet metal. Large central section with pocket slots on the rear exterior, rubber band casing on the front, and a wall which can be opened for easy removal. Slots on the side walls. Exterior pocket for documents.  
Fastenings for belts and straps are included. Weight 3.2 kg.

Dimensions	mm	420x160x250 h
<b>2077GA</b>	Each	<b>96,90</b>



**2077GA**



**2077GD 5** **SCU**


Case type with handle.  
 Made of leather, snap locks with keys.  
 Bottom and side walls reinforced with metal plate. Ample central compartment with adjustable holders.

Front wall opens for easy access. Connections for conveyor belts. Weight 2.2 Kg.

Dimensions	mm	420x155x255 h
<b>2077GD 5</b>	Each	<b>137,00</b>

For bags Art. 2077 GD 5 complete with tools see Art. 986 G 6. For conveyor belts see Art. 2078 GH.

**2077GF 6** **SCU**

**Prod. SCU - Parat**

Case type with handle.  
 In leather reinforced by aluminium profiles, bottom tray and sides in synthetic, unbreakable oil-proof material, quick-action locks with keys. Huge middle compartment and 2 middle walls with holders. Fold-out front wall for easy access and front pocket. Connections for conveyor belts. Weight: 2.6kg

Dimensions	mm	420x160x270 h
<b>2077GF 6</b>	Each	<b>164,00</b>

For carrying straps see Art. 2078 GH.

**2077GH** **SCU**


Case type with handle.  
 In reinforced leather, quick-action locks with keys.  
 Steel bottom tray reinforcement. Middle compartment. Middle wall with push-in compartments. Fold-out, hinged front wall for easy access. Weight: 3.0kg

Dimensions	mm	400x140x280 h
<b>2077GH</b>	Each	<b>177,00</b>

**2077GM** **SCU**


Case type with handle.  
 In reinforced leather, 2 quick-action locks with keys.  
 Huge middle compartment, middle walls with tool holders.  
 Fold-out front wall for easy access. Connections for conveyor belts. Weight: 2.9kg

Dimensions	mm	440x185x300 h
<b>2077GM</b>	Each	<b>205,00</b>

For carrying straps see Art. 2078 GH.



**Prod. SCU - Orig. Hepco & Becker**

Carrying case model with handle. CRMade from leather, snap closure and keys.  
 With bottom and front edges reinforced with metal.  
 Large central compartment, walls with adjustable and fixed housings.  
 Front wall can be opened.  
 Hooks for carrying straps.  
 Weight 3.4 Kg.

Dimensions	mm	470x160x310 h
<b>2077GP</b>	Each	<b>192,00</b>

For conveyor belts see Art. 2078 GH.


**2077GP**  
*new*

**Prod. SCU - Parat**

Case type with handle and drawers.  
 In sturdy skay, artificial leather, with quick-action locks and keys. 5 extractable step drawers of which 1 with dividers for small parts. Bottom studs. Weight. 3.4kg

Dimensions	mm	410x130x310 h
<b>2078G 5</b>	Each	<b>106,00</b>

Product running out of stock.


**2078G 5**


Case type with handle and drawers.

In sturdy skay, artificial leather, with quick-action locks and keys.  
 5 extractable step drawers, of which 1 with dividers for small parts and back compartment.  
 Bottom studs. Weight: 3.7kg

Dimensions	mm	410x170x310 h
<b>2078G 8</b>	Each	<b>160,00</b>

Product running out of stock.


**2078G 8**

**8**

Case type with ergonomic handle and drawers.

In sturdy skay, artificial leather, with aluminium corner reinforcements.  
 With quick-action locks and keys. 4 extractable, very deep drawers, of which 1 with dividers for small parts, portable carrying insert in sturdy synthetic material.  
 Huge back compartment with walls equipped with tool holders. Bottom studs. Weight 4.0kg

Dimensions	mm	410x190x280 h
<b>2078GD</b>	Each	<b>229,00</b>

Product running out of stock.


**2078GD**

**UNIVERSAL BAGS WITH WHEELS**
**Prod. SCU - Parat**

Case type with integrated wheels and telescopic, 4 positions system, total length 1020mm. Sturdy and ergonomic handles. High speed sliding wheels, spaces for maximum stability. In leather with aluminium, corner reinforcements. With special quick-action locks and keys. 3 walls with patented stowage system allow easy and precise tool holding, individually adaptable; for tool with thickness up to 11/15mm and 26mm. 1 wall is equipped with tool holders. Fold-out front wall for easy access. Weight: 4.5kg

Dimensions	mm	450x190x340 h
<b>2078GE</b>	Each	<b>382,00</b>

Product running out of stock.


**2078GE**


**ACCESSORIES FOR UNIVERSAL BAGS**

2078GH




Prod. SCU - Orig. Hepco &amp; Becker

BAG ACCESSORIES

Adjustable carrying straps in fabric with shoulder-protection and 2 snaps.

Dimensions	mm	1130x25h
2078GH	Each	17,60

2078GH 1




Product description as Art. 2078GH

Leather connections with metal ring.

2078GH 1	Per pair	9,32
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**TOOL-CASES IN POLYPROPYLENE**

2078GH 3




Orig. Carolus - Art. 2034.001

Made of shockproof ABS with aluminium frame, with rounded edges and corners. Two locks with keys and jointed handle. Equipped with 1 panel with 2 holder walls, tray with adjustable dividing walls, cover with holders and document pocket.

Weight: 4.8kg.

Dimensions	mm	445x380x180 h
2078GH 3	Each	215,00

**TOOL CASES IN ABS**

2078GH 6




Prod. SCU - Orig. Hepco &amp; Becker

In shock-proof, ABS material, aluminium framed, with rounded edges and corners. 2 padlocks with keys. Sturdy hinged handle. With carrying handle.

Equipped with 1 double panel, 1 carrying insert with adjustable dividers, lid and pocket for documents. Weight: 5.4kg

Dimensions	mm	460x310x180 h
2078GH 6	Each	151,00

2078GH 8




In shock-proof, ABS material, aluminium framed, with rounded edges and corners. 2 padlocks with keys and combination. Sturdy hinged handle. With carrying handle.

Equipped with 1 double panel, 1 carrying insert with adjustable dividers, lid and pocket for documents. Weight: 6.1kg

Dimensions	mm	470x360x200 h
2078GH 8	Each	162,00

For cases Art. 2078 GH 8 complete with tools see Art. 986 GE 3.

In sturdy and lightweight ABS material, shock-proof, reinforced with aluminium frame, with rounded edges and corners. 2 padlocks with keys and combination. Sturdy hinged handle. Equipped with 2 double panels with pockets and rubber bands, 1 carrying insert with adjustable dividers, lid and pocket for documents.

Weight: 4.9kg.

Dimensions	mm	460x310x180 h
<b>2078GH 10</b>	Each	<b>210,00</b>

Product running out of stock.


**2078GH 10**


Made from robust but light ABS material, reinforced with an aluminium frame, with rounded edges and corners. Closes with two secure locks, keys, and combination lock. Robust articulated handle.

Equipped with 1 panel which has 2 slots in the walls for extensions, tray with adjustable separators, cover with slots inside the elastic door panel, and documents, pens, notepads, calculator, etc..

Weight 4.9 kg.

Dimensions	mm	460x310x180 h
<b>2078GH 12</b>	Each	<b>208,00</b>


**2078GH 12**


### ABS TOOL HOLDER SUITCASES, "CARGO" SERIES

#### Prod. SCU - Parat

Industrial type.

High-resistant ABS material, shock-proof, shape retaining, reinforced.

With sturdy, special double frame, in duraluminium. The concealed frame gives the suitcase a particular elegant look. Rounded edges, hermetic closure with two steel locks and keys.

Articulated handle, sturdy and ergonomic.

Complete with 1 double-wall panel with patented storage system, for easy and precise tool location, for tools with thickness up to 11 and 15mm. Carrying insert with adjustable dividers, cover and patented storage system for tools with thickness up to 26mm. Panel for calculator, block-notes, documents and pens.

Weight 4.5kg. Load up to 40kg. Also suitable for air travel.

Dimensions	mm	460x310x140 h
<b>2079GD</b>	Each	<b>347,00</b>

Product running out of stock.


**2079GD**

**8**

### TOOL CASES ON WHEEL

#### Prod. SCU - Orig. Hepco & Becker

With large stowage capacity, integrated rubber-coated wheels and telescopic handle bar.

In ABS material, shock-proof, aluminium framed. Rounded edges and corners, 2 padlocks with keys and rotating discs combination. Sturdy hinged handle.

Equipped with 1 double panel, carrying insert with adjustable dividers and lid, pocket for documents and pens.

Weight: 6,7 kg.

Dimensions	mm	485x370x250 h
<b>2079GE 1</b>	Each	<b>264,00</b>


**2079GE 1**


**2079GE 2** SCU


With large stowage capacity, trolley with rubber-coated wheels and releasable telescopic handle bar.

In sturdy and lightweight ABS material, shock-proof, reinforced with aluminium frame, with rounded edges and corners. 2 padlocks with keys and combination. Sturdy hinged handle. Equipped with 1 double panel with pockets and rubber bands, 1 carrying insert with adjustable dividers, lid and pocket for documents.

Weight: 6.5kg.

Dimensions	mm	470x360x220 h
<b>2079GE 2</b>	Each	<b>393,00</b>

**2079GE 3** SCU

**Prod. SCU - Parat**

Industrial type, with big integrated wheels, rubber-coated and with large track for greater stability. Telescopic bar with 4 positions, in aluminium, large and stable, total length 1050 mm, very sturdy for pushing and pulling the case. In very sturdy ABS material, shock-proof, indeformable, reinforced by a special double frame in duralumin. Rounded edges and corners, airtight closing with 2 padlocks, in steel, keys and 3 quick-action hinges. Sturdy double handle.

Equipped with a 2-walls panel with holders, 1 panel with 1 holder wall, 1 deep carrying insert with adjustable dividers and lid with holders.

Panel for calculator, block-notes, documents and pens.

Weight: 6.8 kg. Load: up to 40 kg. Also suitable for air travel.

Dimensions	mm	470x360x210 h
<b>2079GE 3</b>	Each	<b>592,00</b>

**2079GE 5** SCU

**Prod. SCU - Orig. Hepco & Becker**

Industrial model, with wheels integrated onto ball bearings, made from rubber, very strong. Telescopic system, adjustable, can be towed easily. Made from the latest generation HDPE plastic material making it far more robust and resilient. Shockproof, crushproof, reinforced with a special duralumin double frame. Rounded edges and corners which have been with reinforced metal and protective plates. Airtight with 2 steel locks, keys, combination and 3 hinges. Sturdy ergonomic handle, foldable, and can be screwed on with potential easy replacements.

Comes equipped with 2 panels with 4 walls which include elastic slots and pockets, 1 deep tray with adjustable separators, and a lid which includes elastic slots and pockets.

Panel holder for calculator, notepads, pens and paper.

Weight 7.3 kg. Capacity of up to 40 kg. Also suitable for air transport.

Dimensions	mm	470x360x220 h
<b>2079GE 5</b>	Each	<b>547,00</b>

**TOOL CASES IN ABS "PARATOOL" SERIES WITH WHEELS**
**2079GF** SCU

**Prod. SCU - Parat**

Tool carrying system consisting of a case in very sturdy ABS material, integrated wheels and telescopic system for pulling and support. Possibility to position the capacious case at the desired height. Big wheels for better sliding. Cylinder lock. Double handle, particularly sturdy, one pulling telescopic handle and one lifting fix handle. Colour: antracite. Weight: 6.8 kg. Load: up to 40 kg. Also suitable for air travel.

Empty type with large stowage and possibility to integrate accessories

Art. O2079 GF/1-2-3-5-7-9.

Dimensions	mm	465x355x210 h
<b>2079GF</b>	Each	<b>186,00</b>

Product running out of stock.

**ACCESSORIES FOR CASES ART. 2079 GF**

Panel with patented stowage system. For tools with width up to 11 and 15mm.

<b>O2079GF 1</b>	Each	<b>39,30</b>
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Panel with patented stowage system. For tools with width up to 11 and 26mm.

<b>O2079GF 2</b>	Each	<b>45,50</b>
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Panel with 15 holders and 400 mm pocket.

<b>O2079GF 3</b>	Each	<b>36,70</b>
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Panel with document compartment, dimensions DIN A4. 2 fittings for business cards, credit cards, etc. and 3 loops for pens, pencils, etc.

<b>O2079GF 5</b>	Each	<b>31,20</b>
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Tray with 4 dividers complete with lid.

<b>O2079GF 7</b>	Each	<b>58,50</b>
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Tray with 4 dividers, complete with lid, patented stowage system for tools with width up to 26mm.

<b>O2079GF 9</b>	Each	<b>77,60</b>
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Products running out of stock.



**TOOL CASES IN ALUMINIUM**

**Prod. SCU**

In very sturdy scratch-resistant bushhammered anodized aluminium with satin-finish aluminium angle bars and ABS protection corners.  
 Classic square shape, extremely resistant and lightweight.  
 Closing with 2 padlocks, keys and hooks.  
 Sturdy hinged handle. 8 rubber feet.  
 Equipped with 2 tool-holder panels with rubber bands, 1 large tray with dividers and storage box.  
 Double pocket for documents and other pockets.



**2079GH 1**



Weight: 5.6kg.

Dimensions	mm	440x350x170 h
<b>2079GH 1</b>	<b>Each</b>	<b>397,00</b>

In very sturdy aluminium alloy patented for absolute shock-proofing and endless carrying capacity.  
 With reinforcement aluminium angle bars.  
 Classic square shape. Closing with 2 padlocks, keys and hooks.  
 Sturdy hinged handle with soft grip. 4 rubber feet and 4 metal feet.  
 Equipped with 2 tool-holder panels with rubber bands, 1 large tray with dividers and storage box.  
 Double pocket for documents and other pockets.  
 Weight: 6kg.



**2079GH 5**



Dimensions	mm	450x360x170 h
<b>2079GH 5</b>	<b>Each</b>	<b>566,00</b>

**TOOL CASES IN ALUMINIUM "CLASSIC" SERIES**

**Prod. SCU - Parat**

In very sturdy and stable aluminium alloy. Reinforced by special double frame in duralumin, rounded edges and corners, airtight closing with 2 padlocks in steel, keys and 3 quick-action hinges. Sturdy hinged handle. Equipped with 2 panels with holders, 1 deep carrying insert with adjustable dividers and lid with holders. Panel for calculator, blocknotes, documents and pens.  
 Weight: 5.2 kg. Load: up to 30 kg 30. Also suitable for air travel.



**2079GL 3**



Dimensions	mm	460x310x170 h
<b>2079GL 3</b>	<b>Each</b>	<b>539,00</b>

**8**

**STORAGE CASES IN POLYPROPYLENE**

**Prod. SCU**

In stable steel sheet with resistant epoxy coat, blue colour.  
 With central button closing and 2 side hooking closings for absolute safety during transport.  
 Preset for padlock.  
 Total opening of the internal padded lid. With 23 extractible trays, size: 12 pcs 54x54mm, 6 pcs 54x108mm, 3 pcs 108x108mm, 2 pcs 108x162mm, all 63mm high. Hinged handle. Case dimensions: 440x330x66mm. Weight: 3.4kg.



**2079LA**



<b>2079LA</b>	<b>Each</b>	<b>75,10</b>
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**TOOL BOXES IN STEEL**

**Prod. SCU**

In painted steel. Opening and closing by means of tilting doors provided with eyelet for padlock.  
 Hinged fold-down handgrip.  
 1 compartment type.



**2079LE**  
**2079M**



Art.	<b>2079LE</b>	<b>2079M</b>
Dimensions	mm	430x210x100 h
<b>2079LE</b>	<b>Each</b>	<b>28,50</b>
<b>2079M</b>	<b>Each</b>	<b>31,60</b>

**2079ME**  
**2079P**  
**2079PE**

**SCU**



Product description as Art. 2079LE

3 compartments type.

Art.

Dimensions

	2079ME	2079P	2079PE
mm	430x200x150 h	480x200x150 h	580x200x150 h
Each	36,20	39,30	48,60

For tool boxes Art. 2079 P complete with tools see Art. 987 A.  
For Orig. Gedore tool boxes see Art. 987 E - 987 GF.

**2079PF**  
**2079R**  
**2081B**

**SCU**



Product description as Art. 2079LE

5 compartments type.

Art.

Dimensions

	2079PF	2079R	2081B
mm	430x200x210 h	480x200x210 h	580x200x210 h
Each	54,70	57,10	69,40

For tool boxes Art. 2081 B complete with tools see Art. 987 B.  
For Orig. Gedore tool boxes see Art. 987 E - 987 GF.

### INSTALLATION TOOL BOXES IN STEEL

**2081G**

**GEDORE**



Orig. Gedore - Art. 1370 Z

Professional type.

Handy box in zinc-coated steel with special corrosion protection, carrying strap in nylon fabric.

Removable insert.

Weight: 4.3 kg.

Dimensions

	mm	550x200x210 h
2081G	Each	170,00

### ALL-PURPOSE TOOL BOXES

**2081Z**  
**2082A**  
**2082B**  
**2082C**

**SCU**



Prod. SCU

In sturdy steel. Fire-resistant painting.

Lateral handles, eyelet for padlock, reinforced hinges with lid anti-tilting function.

Art.

Dimensions

	2081Z	2082A	2082B	2082C
mm	600x280x300 h	700x340x350 h	800x400x400 h	950x450x450 h
Each	178,00	270,00	346,00	394,00

**Orig. Gedore**

Industrial type.  
Sturdy box in reinforced steel with extra-resistant epoxy painting.  
Carrying handles, stopper to hold the lid open and lockable through padlock.  
Removable insert for small parts.

Art.	2083G	2083GA	2083GB	2083GC	2083GD
Dimensions mm	640x232x232 h	700x380x310 h	830x430x350 h	910x530x430 h	1000x380x320 h
Weight Kg	8	17	23	33	25
Supplier code ..	1440-64	1440-70	1440-83	1440-91	1440-100
<b>Each</b>	<b>300,00</b>	<b>451,00</b>	<b>489,00</b>	<b>595,00</b>	<b>514,00</b>

**GEDORE**



**2083G  
2083GA  
2083GB  
2083GC  
2083GD**

Transport frame, in steel sheet, with 4 wheels, 2 of them with brake. Delivery dismantled.

Art.	2083GF	2083GH	2083GL	2083GP
For trunks Art.	2083 GA	2083 GB	2083 GC	2083 GD
Supplier code	1441 Z-70	1441 Z-83	1441 Z-91	1441 Z-100
<b>Each</b>	<b>119,00</b>	<b>124,00</b>	<b>125,00</b>	<b>125,00</b>

**GEDORE**



**2083GF  
2083GH  
2083GL  
2083GP**

**STORAGE CASES IN POLYPROPYLENE**

**Prod. SCU**

Made from resistant polypropylene, indeformable, unbreakable, antirust, shock-proof.  
With lid, 2 quick-action locks, stable hinges, foldable handle.

Art. 2083 T 22 - 28 are arranged in 2 layers with double lid.

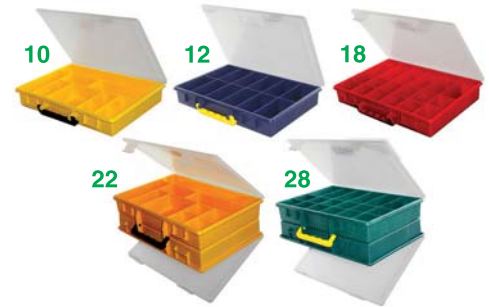
Housings	N	10	12	18	22
Dimensions mm		340x250x55h	340x250x55h	340x250x55h	340x250x110h
<b>2083T</b>	<b>Each</b>	<b>11,60</b>	<b>11,60</b>	<b>11,60</b>	<b>17,10</b>

Housings	N	28
Dimensions mm		340x250x110h
<b>2083T</b>	<b>Each</b>	<b>17,10</b>

Size N 18 running out of stock.

**SCU**



**2083T**

In resistant polypropylene, reinforced, indeformable, unbreakable, antirust, shock-proof.

Transparent lid, 2 quick-action locks, stable hinges, large handle.

With 20 holders with extractible trays.

Dimensions mm	420x350x60h
<b>2083V</b>	<b>Each 18,50</b>

**SCU**



**2083V**

**POLYPROPYLENE STORAGE CASES**

**Orig. Carolus - Art. 2032.00**

In very resistant polypropylene, reinforced, indeformable, unbreakable, shock-proof.

With 4 drawers with storage adjustable compartments.

With large tool-holder compartment and lid, sturdy concealed handle, large snap closure. It can be used as a seat or stool (capacity up to 150kg).

Dimensions mm	420x303x400h
<b>2083Z</b>	<b>Each 152,00</b>

**carolus**



**2083Z**

**TOOL-BOXES IN POLYPROPYLENE**
**2084** **SCU**

**Prod. SCU**

In resistant polypropylene. Indeflexible, unbreakable, antirust, shock-proof. Quick-action lock and stable hinges. Fold-down handle.

One tool compartment and a drawer for small parts, hinged. With one lock.

Dimensions mm 330x150x145 h

<b>2084</b>	Each	<b>8,08</b>
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Supplied without drawers on request (empty compartment).

**2084A** **SCU**


Product description as Art. 2084

One tool compartment and 2 drawers for small parts, hinged. With one lock.

Dimensions mm 380x200x175 h

<b>2084A</b>	Each	<b>11,90</b>
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Supplied without drawers on request (empty compartment).

**2084H** **SCU**


In resistant polypropylene. Indeflexible, unbreakable, antirust, shock-proof. Quick-action lock and stable hinges. Fold-down handle and hole for padlock. One big tool compartment and 4 drawers with dividers, hinged. With 2 locks. Load: up to max 8kg

Dimensions mm 460x260x270 h

<b>2084H</b>	Each	<b>19,90</b>
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Product running out of stock.

**2084M** **SCU**


Professional type, in resistant polypropylene. Indeflexible, unbreakable, anti-rust, shock-proof. Sturdy quick-action locks, stable hinges. Ergonomic, comfortable and sturdy fold-down handle. Big tool compartment and removable insert.

2 compartments for small parts on the lid. With one lock.

Dimensions mm 330x150x145 h

<b>2084M</b>	Each	<b>8,66</b>
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**2084N** **SCU**


Product description as Art. 2084M

With one lock. Hole for padlock.

Dimensions mm 415x210x200 h

<b>2084N</b>	Each	<b>12,10</b>
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For boxes Art. 2084 N complete with tools see Art. 987.



Product description as Art. 2084M

2 compartments for small parts on the lid. With one lock. Hole for padlock.

Dimensions	mm	415x210x200 h
<b>2084P</b>	Each	<b>12,70</b>


**2084P**


**Prod. SCU - Parat**

Professional type, in resistant polypropylene.

Indeformable, unbreakable, anti-rust, shock-proof, , resistant to attack by oils and acids.

Stowage compartment and handy removable insert. Airtight hooked lock for maximum safety and impermeability. Sturdy fold-down handle, that works also as safety lock when it is down, and eyelet for padlock.

With two locks.

Dimensions	mm	440x220x225 h
Weight	Kg	1,3
<b>2085GD</b>	Each	<b>40,30</b>


**2085GD**


Product description as Art. 2085GD

With two locks.

Dimensions	mm	480x240x260 h
Weight	Kg	1,8
<b>2085GE</b>	Each	<b>50,10</b>


**2085GE**


**Prod. SCU**

Professional type, in resistant polypropylene. Indeformable, unbreakable, anti-rust, shock-proof.

Sturdy quick-action locks, stable hinges.

Ergonomic, comfortable and sturdy fold-down handle.

Big tool compartment and removable insert.

2 compartments for small parts on the lid. With two locks. Hole for padlock.

Dimensions	mm	510x290x260 h
<b>2085R</b>	Each	<b>24,10</b>


**2085R**

**8**

Product description as Art. 2085R

2 removable compartments for small parts, drill-holder in the lid. With two locks.

Hole for padlock.

Dimensions	mm	520x290x270 h
<b>2085S</b>	Each	<b>33,10</b>


**2085S**


For boxes Art. 2085 S complete with tools see Art. 987 A 5.

**TOOL-BOXES IN POLYPROPYLENE WITH WHEELS**
**2086F****SCU****Prod. SCU**

Professional type made of resistant polypropylene. Indeformable, unbreakable, antirust, shock-proof, waterproof. Sturdy snap locks, stable hinges. Ergonomic, comfortable and sturdy fold-away handle. Large capacity storage compartment, extractable tray, pull belt and 4 fixed wheels for easy sideways movement. 2 removable compartments for small parts, drill-holder in the lid. With two locks. Hole for padlock.

Dimensions	mm	590x300x285 h
<b>2086F</b>	<b>Each</b>	<b>48,30</b>

**2086FA****SCU****Professional model in resistant polypropylene.**

Indeformable, unbreakable, antirust, shock-proof, waterproof. Carrying fold-down handgrip. Ergonomic fold-down handle. Wide compartment, removable insert, 2 sturdy wheels with metal pins.

2 storage compartments for small parts and 4 fastening hooks. Provided with 2 quick-action locks.

Dimensions	mm	610x375x415 h
<b>2086FA</b>	<b>Each</b>	<b>95,20</b>

**TOOL-BOXES IN POLYPROPYLENE**
**2086G****SCU****Prod. SCU - Parat**

Industrial type, in resistant polypropylene.

Indeformable, unbreakable, anti-rust, shock-proof, resistant to attack by oils and acids. Compartment with large stowage capacity and handy removable insert.

Airtight hooked lock for maximum safety and impermeability.

Sturdy fold-down handle (when the handle is up, the box is automatically locked) and eyelet for padlock.

With two locks.

Dimensions	mm	580x290x280 h
Weight	Kg	3,0
<b>2086G</b>	<b>Each</b>	<b>67,40</b>

**2087G****SCU**

Professional type made of resistant polypropylene.

Indeformable, unbreakable, antirust, shock-proof, oil and acid resistant.

Enormous storage compartment and 2 extractable trays with holders for small elements. 2 hermetic hook seals for maximum safety and waterproofness.

Fixed side handles and connection for padlock.

With two locks.

Dimensions	mm	650x490x420 h
Weight	Kg	4,3
<b>2087G</b>	<b>Each</b>	<b>140,00</b>

Product running out of stock.

**TOOL-BOXES IN POLYPROPYLENE WITH STOOL**

**Prod. SCU**

Sturdy stool, in resistant polypropylene, with compartments for small parts; non-slip upper shelf can be used as an access step, a support or a seat; complete with big hookable tool box, which contains a handy removable insert. Load: up to max 150kg. Large carrying handle and eyelet for padlock.

Dimensions	mm	470x300x300 h		
<b>2087P</b>	Each	<b>47,60</b>		

**SCU**  
open



**2087P**

**TOOL-BOXES IN POLYPROPYLENE WITH WHEELS**

**Prod. SCU**

Professional type, in resistant polypropylene, indeformable, unbreakable, anti-rust, shock-proof. Consisting of: one box with big compartment and 2 sturdy wheel with metal pins; external pocket made of fabric with velcro fasteners. Rotating integrated tray with dividers for small parts. Removable upper box with small parts holders on the lid, hole for padlock and removable insert. Ergonomic, comfortable and sturdy fold-down handle. Carrying fold-down handgrip. Ideal for easy transport of a big quantity of work equipment.

Dimensions	mm	450x270x630 h		
<b>2088</b>	Each	<b>85,30</b>		

**SCU**



**2088**

**TROLLEYS**

**Prod. SCU**

Folding type, in aluminium and plastic material. With extendable, telescopic handle, max height 1000mm. With elastic band and hooks for load fastening. Suitable to carry bags, cases, suitcases, tool-holder cases, etc.

Max capacity approx. 50kg. Wheel diameter: 90mm. Load base dimensions: 345x240mm.

Dimensions of closed trolley: 310x120x470mm.

Weight: 2.15kg.

<b>2089</b>	Each	<b>42,70</b>
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**SCU**



**2089**

**8**

**PADLOCKS**

**Prod. SCU**

Heavy type, brass body, hardened shackle. With keys. Apt for containers, boxes, cabinets, etc. Standard shackle.

Body width	mm	<b>20</b>	<b>30</b>	<b>50</b>	<b>60</b>
<b>2090</b>	Each	<b>1,32</b>	<b>1,78</b>	<b>5,26</b>	<b>6,94</b>

**SCU**



**2090**

Heavy model; brass bodywork, hardened arc. With keys. Suitable for boxes, chests, cabinets, etc. Normal bow.

Body width	mm	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>
<b>2090P</b>	Each	<b>4,20</b>	<b>5,96</b>	<b>13,60</b>	<b>16,80</b>

**SCU**



**2090P**

2091 **SCU**

Product description as Art. 2090P

Long shackle.

Body width	mm	30	40	50
Arc length	mm	45	60	60
<b>2091</b>	<b>Each</b>	<b>4,48</b>	<b>6,52</b>	<b>12,90</b>

2092 **SCU**

Heavy-duty type with horizontal lock; brass body, hardened shackle and hardened steel cylinder. With keys. Suitable for boxes, cases, cabinets, etc.

Body width	mm	70
<b>2092</b>	<b>Each</b>	<b>13,50</b>

Product running out of stock.

2093 **SCU**

ARMOURED model with heavy horizontal closure; coated brass bodywork, very thick steel hardened arc. Cylinder made of hardened steel.

With keys. Suitable for trunks, cabinets, doors, etc.

Body width	mm	70	90
<b>2093</b>	<b>Each</b>	<b>20,40</b>	<b>26,50</b>

### TAPS SEAT REAMERS

2098 **SCU**

Prod. SCU

Cheap type

To cut the taps seat with inside threading.

With 2 cutters of 3/8" and 1/2" inches and two gaskets.

<b>2098</b>	<b>Each</b>	<b>12,90</b>
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2099 **SCU**

Professional type

To cut the taps seat with inside threading

With 4 cutters of 3/8"-1/2"-3/4"-1" inches.

<b>2099</b>	<b>Each</b>	<b>45,10</b>
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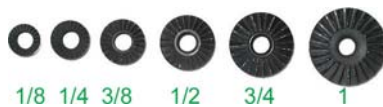
2100 **SCU**

Product description as Art. 2099

To cut the taps seat with inside and outside threading.

With 4 cutters of 3/8"-1/2"-3/4"-1" inches.

<b>2100</b>	<b>Each</b>	<b>45,10</b>
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2101 **SCU**

Spare cutter for Art. 2098 - 2098 E - 2099 - 2100.

Ø	inches	1/8	1/4	3/8	1/2	3/4	1
<b>2101</b>	<b>Each</b>	<b>4,00</b>	<b>4,00</b>	<b>3,84</b>	<b>3,84</b>	<b>4,04</b>	<b>4,38</b>

1/8 1/4 3/8 1/2 3/4 1

### STEEL KARABINERS

2119 **SCU**

Prod. SCU

DIN 5299 C

With internal spring and cross lock. Not to be used for lifting.

GALVANISED STEEL

Overall length	mm	40	50	60	70	80	90	100	120	140	160
Tension rod Ø	mm	4	5	6	7	8	9	10	11	12	13
Working load	Kg	20	20	35	50	75	100	150	200	250	300
Breakage load	kN	0,8	0,8	1,4	2	3	4,5	6	8	10	12
<b>2119</b>	<b>Each</b>	<b>0,38</b>	<b>0,38</b>	<b>0,48</b>	<b>0,58</b>	<b>0,78</b>	<b>1,08</b>	<b>1,28</b>	<b>1,84</b>	<b>2,44</b>	<b>3,44</b>

DIN 5299 C

High quality type, for hauling. With internal spring and interlock. Not to be used for lifting.

**SCU**
**INOX**
**2119E**

STAINLESS STEEL AISI 316

Overall length	mm	40	50	60	70	80	100	120	160
Tension rod Ø	mm	4	5	6	7	8	10	11	13
Working load	Kg	20	20	35	50	75	150	200	300
Breakage load	kN	0,8	0,8	1,4	2	3	6	8	12
<b>2119E</b>	<b>Each</b>	<b>1,74</b>	<b>2,02</b>	<b>2,58</b>	<b>3,34</b>	<b>4,44</b>	<b>7,70</b>	<b>10,90</b>	<b>20,60</b>



Heavy type, for hauling. Tested and marked with breaking strength.

Maximum seal with inside spring and patented safety lock.

ZINC-COATED STEEL

Overall length	mm	50	60	80	100	120
Tension rod Ø	mm	5	6	8	10	11
Working load	Kg	37	37	225	425	550
Breakage load	kN	1,5	1,5	9	17	22
<b>2120</b>	<b>Each</b>	<b>5,94</b>	<b>6,22</b>	<b>7,34</b>	<b>9,96</b>	<b>12,50</b>

**SCU**
**2120**


Product description as Art. 2120

STAINLESS STEEL AISI 316.

Overall length	mm	50	60	80	100	120
Tension rod Ø	mm	5	6	8	10	11
Working load	Kg	37	37	300	500	700
Breakage load	kN	1,5	1,5	15	22	28
<b>2121</b>	<b>Each</b>	<b>7,06</b>	<b>7,60</b>	<b>10,80</b>	<b>17,50</b>	<b>22,20</b>

**SCU**
**INOX**
**2121**

**STEEL KARABINERS WITH LOCKING RING**
**Prod. SCU**

EN 362 B

Heavy traction model. Tested and marked for tensile strength.

Maximum sealing with threaded ring safety device.

GALVANISED STEEL

Overall length	mm	85	100	125
Tension rod Ø	mm	8	10	11
Working load	kN	2,25	4,25	5,50
Breakage load	kN	9	17	22
<b>2122</b>	<b>Each</b>	<b>10,10</b>	<b>12,90</b>	<b>15,20</b>

**SCU**
**2122**


DIN 5299 C

With internal spring, locking pin and threaded safety ring. Not to be used for lifting.

GALVANISED STEEL

Overall length	mm	80	100	120
Tension rod Ø	mm	8	10	11
Working load	Kg	75	150	200
Breakage load	kN	3,75	6	8
<b>2123</b>	<b>Each</b>	<b>1,08</b>	<b>1,78</b>	<b>2,50</b>

**SCU**
**2123**

**QUICK LINKS**
**Prod. SCU**

Locking pin and threaded safety ring. Not to be used for lifting.

Galvanized steel.

Overall length	mm	40	49	57	74	89	105
Tension rod Ø	mm	4	5	6	8	10	12
<b>2126</b>	<b>Each</b>	<b>0,50</b>	<b>0,60</b>	<b>0,66</b>	<b>1,18</b>	<b>2,26</b>	<b>3,50</b>

**SCU**
**2126**


Product description as Art. 2126

STAINLESS STEEL AISI 316.

Overall length	mm	40	49	57	74	89	105
Tension rod Ø	mm	4	5	6	8	10	12
<b>2126E</b>	<b>Each</b>	<b>1,26</b>	<b>1,76</b>	<b>3,20</b>	<b>6,04</b>	<b>10,70</b>	<b>17,10</b>

**SCU**
**INOX**
**2126E**


**PULLEY BLOCKS**
**2130****SCU****Prod. SCU**

Painted finish with 3 brass wheels.  
One pulley block with hook and one with hook and ring.  
Can be sold only in pairs.

wheel Ø	mm	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>
Throat width	mm	9	9	12	12
<b>2130</b>	<b>Per pair</b>	<b>67,60</b>	<b>80,90</b>	<b>93,80</b>	<b>118,00</b>

**2132A****SCU**

For hemp ropes.  
Sturdy finish with hook in forged steel and safety latch.  
Pulleys in high-tensile semisteel cast iron. With ring to work in pairs.  
With 1 wheel.

wheel Ø	mm	<b>60</b>	<b>80</b>	<b>100</b>	<b>120</b>	<b>130</b>	<b>150</b>	<b>175</b>
Throat width	mm	9	12	15	18	20	25	30
Load capacity	Kg	100	150	150	250	250	500	1000
<b>2132A</b>	<b>Each</b>	<b>41,90</b>	<b>44,40</b>	<b>53,10</b>	<b>61,60</b>	<b>67,60</b>	<b>84,10</b>	<b>102,00</b>

**2132B****SCU**

Product description as Art. 2132A

With 2 wheels.

wheel Ø	mm	<b>60</b>	<b>80</b>	<b>100</b>	<b>120</b>	<b>130</b>	<b>150</b>	<b>175</b>
Throat width	mm	9	12	15	18	20	25	30
Load capacity	Kg	100	150	250	500	500	1000	1000
<b>2132B</b>	<b>Each</b>	<b>56,90</b>	<b>60,80</b>	<b>75,20</b>	<b>98,00</b>	<b>106,00</b>	<b>125,00</b>	<b>158,00</b>

**2132C****SCU**

Product description as Art. 2132A

With 3 wheels.

wheel Ø	mm	<b>60</b>	<b>80</b>	<b>100</b>	<b>120</b>	<b>130</b>	<b>150</b>	<b>175</b>
Throat width	mm	9	12	15	18	20	25	30
Load capacity	Kg	150	250	500	1000	1000	1500	2000
<b>2132C</b>	<b>Each</b>	<b>74,40</b>	<b>82,70</b>	<b>99,50</b>	<b>129,00</b>	<b>139,00</b>	<b>169,00</b>	<b>215,00</b>

**2132D****SCU**

For hemp ropes.  
Openable type with 1 wheel. Hook in forged steel and safety latch.

wheel Ø	mm	<b>60</b>	<b>80</b>	<b>100</b>	<b>120</b>
Throat width	mm	9	12	15	18
Load capacity	Kg	100	150	150	250
<b>2132D</b>	<b>Each</b>	<b>68,70</b>	<b>76,60</b>	<b>90,20</b>	<b>97,30</b>

**2133A****SCU**

For steel ropes. - Ball bearing type.  
Sturdy finish with hook in forged steel and safety latch.  
Wheels in solid steel. High-tensile.

1-wheel pulley blocks.

Throat bottom wheel Ø	mm	<b>170</b>	<b>190</b>	<b>280</b>
Rope Ø	mm	9	10	14
Load capacity	Kg	1500	2000	4000
<b>2133A</b>	<b>Each</b>	<b>276,00</b>	<b>344,00</b>	<b>650,00</b>

**2133B****SCU**

Product description as Art. 2133A

2-wheels pulley blocks.

Throat bottom wheel Ø	mm	<b>150</b>	<b>170</b>	<b>230</b>
Rope Ø	mm	8	9	12
Load capacity	Kg	2000	3000	5000
<b>2133B</b>	<b>Each</b>	<b>392,00</b>	<b>508,00</b>	<b>794,00</b>

**2133C****SCU**

Product description as Art. 2133A

3-wheels pulley blocks.

Throat bottom wheel Ø	mm	<b>115</b>	<b>150</b>	<b>190</b>
Rope Ø	mm	6	8	10
Load capacity	Kg	2000	3000	5000
<b>2133C</b>	<b>Each</b>	<b>444,00</b>	<b>573,00</b>	<b>798,00</b>

For steel ropes. Ball bearing type. Openable on one side.

Sturdy finish with hook in forged steel and safety lock.

Pulleys in solid steel. High-tensile.

Opening/closing ratchet operated by hook swiveling.

wheel Ø	mm	<b>105</b>	<b>130</b>	<b>150</b>	<b>180</b>	<b>200</b>
Throat width	mm	15	17	19	21	23
Load capacity	Kg	1000	1500	2000	3000	4000
Weight	Kg	4,3	5	7,5	10,5	16,5
<b>2133F</b>	<b>Each</b>	<b>144,00</b>	<b>167,00</b>	<b>206,00</b>	<b>273,00</b>	<b>385,00</b>


**2133F**


### MANUAL CHAIN HOISTS

**Prod. SCU**

Lever type. Manufactured in compliance with EUROPEAN standards.

In hardened cast steel. Gears in hardened solid steel. Upper and lower swivel hooks in hardened steel, with safety latch. Load chain in special, DIN 5684, zinc-plated steel. Double braking system on the friction. Tested to 50% over the maximum load limit. Supplied with 1.5m long load chain.

Lever with rubber handgrip.

Load capacity	Kg	<b>750</b>	<b>1500</b>	<b>3000</b>
Chain paths	No	1	1	1
Max strain on lever	Kg	14	22	32
Minimum distance between hooks	mm	325	380	480
Weight with chain	Kg	7	11	21
<b>2133H</b>	<b>Each</b>	<b>302,00</b>	<b>362,00</b>	<b>482,00</b>


**2133H**



Chain type. Manufactured in compliance with EUROPEAN standards.

In hardened cast steel. Gears in hardened solid steel. Gearing over roller bearings. Reduction unit in grease-bath sump. Upper and lower swivel hooks in hardened steel, with safety latch. Load and operating chains in special, DIN 5684, zinc-coated steel. Double automatic braking system. Load chain stop device. Tested to 50% over the maximum load limit.

Supplied with 3m long load chain and 3m long operating chain.

Load capacity	Kg	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>3000</b>	<b>5000</b>
Chain paths	No	1	1	1	2	2
Strain on operating chain	Kg	22	30	45	34	38
Minimum distance between hooks	mm	255	306	386	486	616
Weight with chains	Kg	8	10	18	24	36
<b>2133L</b>	<b>Each</b>	<b>201,00</b>	<b>225,00</b>	<b>306,00</b>	<b>430,00</b>	<b>574,00</b>


**2133L**



Loads up to 10000-20000 kg are supplied on request.

### BEAM CLAMPS

**Prod. SCU**

Manufactured in compliance with EUROPEAN standards.

Suitable for fixing lever hoists (Art. 2133 H) and chain hoists (Art. 2133 L) on double-T beams.

In special steel, with threaded screw and bolster for fast and safe adjustment.

Load capacity	Kg	<b>1000</b>	<b>2000</b>	<b>3000</b>
Min/max beam width	mm	75 to 220	75 to 220	80 to 320
Pliers min/max width	mm	180 to 360	180 to 360	235 to 490
Beam thickness	mm	26	26	35
Pliers lateral thickness	mm	64	74	103
Hoist drive Ø	mm	22	22	24
Weight	Kg	4,5	5	10,5
<b>2133M</b>	<b>Each</b>	<b>72,30</b>	<b>81,40</b>	<b>145,00</b>


**2133M**



### TROLLEYS FOR MANUAL COAIN HOISTES

**Prod. SCU**

Manufactured in compliance with EUROPEAN standards.

Pushing movement, apt for manual chain hoists (art. 2133 L), sliding on lower flange f double T-beams, conical and flat. With fall-protection and anti-tilting devices. Possibility to change the distance between wheels. In special steel, with wheels on ball bearings.

Load capacity	Kg	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>3000</b>
Beam lower wing width by	mm	50 to 100	58 to 131	80 to 143	90 to 150
Weight	Kg	5,3	9	16	25
<b>2133P</b>	<b>Each</b>	<b>109,00</b>	<b>157,00</b>	<b>199,00</b>	<b>296,00</b>


**2133P**



**WINCHES**
**2133R****SCU****CE****Prod. SCU**

Hauling and lifting type. Manufactured in compliance with EUROPEAN standards. Sump in aluminium alloy, high resistance. Automatic brake, operation control lever provided with overload device. Grip cheeks in steel, metal rope and hook with safety latch.

Winch without rope and hook.

Lifting load capacity	Kg	<b>800</b>	<b>1600</b>	<b>3200</b>
Traction load capacity	Kg	1200	2500	5000
Weight	Kg	6	11	22
Dimensions	mm	426x235x64	545x280x97	660x325x116
<b>2133R</b>	Each	<b>296,00</b>	<b>379,00</b>	<b>656,00</b>

**2133S 10****SCU****CE****2133S 20****2133S 30****METAL ROPES WITH SAFETY HOOKS FOR ART. 2133 R**

10m long rope with hook for Art. 2133 R x 800.

**2133S 10** Each **75,40**

20m long rope with hook for Art. 2133 R x 800.

**2133S 20** Each **126,00**

30m long rope with hook for Art. 2133 R x 800.

**2133S 30** Each **176,00**

**2133T 10****SCU****CE****2133T 20****2133T 30**

10m long rope with hook for Art. 2133 R x 1600.

**2133T 10** Each **126,00**

20m long rope with hook for Art. 2133 R x 1600.

**2133T 20** Each **212,00**

30m long rope with hook for Art. 2133 R x 1600.

**2133T 30** Each **298,00**

**2133U 10****SCU****CE****2133U 20****2133U 30**

10m long rope with hook for Art. 2133 R x 3200.

**2133U 10** Each **173,00**

20m long rope with hook for Art. 2133 R x 3200.

**2133U 20** Each **312,00**

30m long rope with hook for Art. 2133 R x 3200.

**2133U 30** Each **452,00**



**EYE HOIST HOOKS**

**Prod. SCU**

Fixed type, made from special hardened carbon steel. Safety latch.  
Painted finish. Marked with load limit in tons.

SCU

2133V

Load capacity	Kg	<b>800</b>	<b>1000</b>	<b>1600</b>	<b>2000</b>	<b>3200</b>	<b>5000</b>	<b>7500</b>
Weight	Kg	0,28	0,39	0,62	0,91	1,90	3,70	6,80
Height	mm	110	125	145	162	200	255	316
Eye Ø	mm	19	22	28	32	38	51	63
Max hook opening	mm	23	26	28	31	32	40	51
<b>2133V</b>	<b>Each</b>	<b>3,84</b>	<b>5,18</b>	<b>8,20</b>	<b>12,10</b>	<b>19,20</b>	<b>37,10</b>	<b>66,90</b>



The above-mentioned dimensions may vary at the manufacturer's discretion.

Fixed model, made from GRADE 80 stainless steel, hardened. Safety lock.  
Enamel finish. Provides an indication of flow rate in tonnes.

SCU

2133VE

Load capacity	Kg	<b>1120</b>	<b>2000</b>	<b>3150</b>	<b>5300</b>	<b>8000</b>	<b>12500</b>
Weight	Kg	0,29	0,61	0,91	1,90	3,70	6,80
Height	mm	110	140	162	200	255	316
Eye Ø	mm	15	28	30	39	51	63
Max hook opening	mm	22	25	27	33	40	51
<b>2133VE</b>	<b>Each</b>	<b>5,16</b>	<b>10,50</b>	<b>13,60</b>	<b>28,30</b>	<b>56,20</b>	<b>124,00</b>



The above-mentioned dimensions may vary at the manufacturer's discretion.

Swivel type, made from special hardened carbon steel. Safety latch.  
Painted finish. Marked with load limit in tons.

SCU

2133Z

Load capacity	Kg	<b>800</b>	<b>1000</b>	<b>1600</b>	<b>2000</b>	<b>3200</b>	<b>5000</b>	<b>7500</b>
Weight	Kg	0,69	0,81	1,25	1,45	2,20	4,60	7,40
Height	mm	141	166	200	215	245	312	365
Max hook opening	mm	20	22	26	28	33	43	49
Eye height x width	mm	20x30	32x36	39x43	39x43	40x47	53x64	53x70
<b>2133Z</b>	<b>Each</b>	<b>10,20</b>	<b>12,10</b>	<b>18,40</b>	<b>21,40</b>	<b>26,80</b>	<b>55,40</b>	<b>87,90</b>



The above-mentioned dimensions can vary at the manufacturer's discretion.

Rotary model, made from GRADE 80 stainless steel, hardened. Safety lock.  
Enamel finish. Provides an indication of flow rate in tonnes.

SCU

2133ZE

Load capacity	Kg	<b>1120</b>	<b>2000</b>	<b>3150</b>	<b>5300</b>	<b>8000</b>	<b>12500</b>
Weight	Kg	0,30	1,00	1,20	2,20	4,60	7,40
Height	mm	141	190	208	245	310	360
Max hook opening	mm	22	22	25	35	43	50
Eye height x width	mm	26x32	39x44	39x44	44x50	60x64	64x70
<b>2133ZE</b>	<b>Each</b>	<b>7,24</b>	<b>18,40</b>	<b>20,60</b>	<b>34,20</b>	<b>73,20</b>	<b>138,00</b>



The above-mentioned dimensions may vary at the manufacturer's discretion.

**CABLE CLAMPS**

**Prod. SCU**

Self-clamping type.  
For steel cables, copper cables and steel ropes.  
In forged steel, long hardened anti-sliding cheeks.

SCU

2134E  
2134G  
2134GA  
2134GB  
2134GC

Art.		<b>2134E</b>	<b>2134G</b>	<b>2134GA</b>	<b>2134GB</b>	<b>2134GC</b>
For cable Ø	mm	1-4	3-8	5-10	8-16	12-26
Max Workload	Kg	500	1000	1700	3000	3500
Breakage load	Kg	1000	1700	3000	5500	6000
Weight	Kg	0,25	0,8	1,1	1,8	3,5
<b>Each</b>		<b>73,80</b>	<b>104,00</b>	<b>120,00</b>	<b>169,00</b>	<b>356,00</b>



Self-clamping type.  
For ALUMINIUM cables and ropes.  
In forged steel, long hardened anti-sliding cheeks.

SCU

2134GD  
2134GE  
2134GF

Art.		<b>2134GD</b>	<b>2134GE</b>	<b>2134GF</b>
For cable Ø	mm	5,4-8,5	8,6-12	12,1-16
Max Workload	Kg	1000	1700	3000
Breakage load	Kg	1700	3000	5500
Weight	Kg	0,8	1,1	1,8
<b>Each</b>		<b>108,00</b>	<b>125,00</b>	<b>173,00</b>



Frog-shaped type.  
For steel cables. With hardened knurled cheeks.

SCU

2134GH  
2134GL  
2134GP  
2134GR

Art.		<b>2134GH</b>	<b>2134GL</b>	<b>2134GP</b>	<b>2134GR</b>
For cable Ø	mm	1-4	1-5	1-8	1-12
<b>Each</b>		<b>29,60</b>	<b>34,40</b>	<b>38,40</b>	<b>56,40</b>



**MANUAL TWISTERS**

2140G




Orig. Schröder - Art. 9.002.0

With hook in hardened steel and wooden handle to twist and make the eyelet at the ends of metal wires. Apt for binding round concrete bars and for other works in the building sector, the agricultural sector, etc.

Overall length	mm	200
<b>2140G</b>	<b>Each</b>	<b>8,88</b>

**AUTOMATIC TWISTERS**

2142G




Orig. Schröder - Art. 9.001.4

With hook in hardened steel, plastic-coated handle, with spiral pin and inside spring that automatically rotate the hook. Apt for twisting metal wires and making eyelets at their ends.

Overall length	mm	310
<b>2142G</b>	<b>Each</b>	<b>28,40</b>

**TURNBUCKLES**

2150





Prod. SCU

Galvanised steel type. In compliance with the Machinery Directive 89/392EEC.

With 2 eyelets.

Screw Ø	M.	5	6	8	10	12	14	16
Working load	Ton	0,10	0,15	0,30	0,47	0,65	0,80	1,25
<b>2150</b>	<b>Each</b>	<b>1,30</b>	<b>1,88</b>	<b>2,60</b>	<b>3,74</b>	<b>5,48</b>	<b>7,46</b>	<b>11,30</b>
Screw Ø	M.	18	20	22	24			
Working load	Ton	1,5	1,8	2,25	2,8			
<b>2150</b>	<b>Each</b>	<b>18,90</b>	<b>19,20</b>	<b>25,90</b>	<b>36,00</b>			

Size M 5 not marked "CE" for small dimension.

2151





Product description as Art. 2150

With 1 eyelet and 1 hook.

Screw Ø	M.	5	6	8	10	12	14	16
Working load	Ton	0,025	0,045	0,075	0,115	0,15	0,21	0,34
<b>2151</b>	<b>Each</b>	<b>1,30</b>	<b>1,88</b>	<b>2,60</b>	<b>3,74</b>	<b>5,48</b>	<b>7,46</b>	<b>11,30</b>
Screw Ø	M.	18	20	22	24			
Working load	Ton	0,45	0,65	0,9	1,2			
<b>2151</b>	<b>Each</b>	<b>18,90</b>	<b>19,20</b>	<b>25,90</b>	<b>36,00</b>			

Size M 5 not marked "CE" for small dimension.

2151E





Product description as Art. 2150

With 2 hooks.

Screw Ø	M.	5	6	8	10	12	14	16
Working load	Ton	0,025	0,045	0,075	0,115	0,15	0,21	0,34
<b>2151E</b>	<b>Each</b>	<b>1,30</b>	<b>1,88</b>	<b>2,60</b>	<b>3,74</b>	<b>5,48</b>	<b>7,46</b>	<b>11,30</b>
Screw Ø	M.	18	20	22	24			
Working load	Ton	0,45	0,65	0,9	1,2			
<b>2151E</b>	<b>Each</b>	<b>18,90</b>	<b>19,20</b>	<b>25,90</b>	<b>36,00</b>			

Size M 5 not marked "CE" for small dimension.

2151T





Product description as Art. 2150

With 2 forks.

Screw Ø	M.	10	12	14	16	20	22	24
Working load	Ton	0,45	0,65	0,75	1	1,40	1,80	2
<b>2151T</b>	<b>Each</b>	<b>8,96</b>	<b>12,40</b>	<b>25,60</b>	<b>28,50</b>	<b>45,80</b>	<b>61,10</b>	<b>66,40</b>

2152





Stainless steel type AISI 316.

With 2 eyelets.

Screw Ø	M.	5	6	8	10	12
Working load	Ton	0,035	0,07	0,135	0,175	0,275
<b>2152</b>	<b>Each</b>	<b>4,72</b>	<b>6,38</b>	<b>10,50</b>	<b>18,40</b>	<b>32,20</b>

2153





Product description as Art. 2152

With 1 eyelet and 1 hook.

Screw Ø	M.	5	6	8	10	12
Working load	Ton	0,02	0,035	0,05	0,085	0,11
<b>2153</b>	<b>Each</b>	<b>4,72</b>	<b>6,38</b>	<b>10,50</b>	<b>18,40</b>	<b>32,20</b>

For the dimensions of turnbuckles see technical tables at the end of the catalogue.

**THIMBLES, ROPE CLIPS AND SCREW PIN SHACKLES**

**Prod. SCU**

Galvanised steel type.  
Zinc-coated thimbles.

**SCU**



**2155**



For ropes Ø	mm	3	4	5	6	8	10	12
<b>2155</b>	<b>Each</b>	0,12	0,14	0,16	0,20	0,28	0,34	0,46

For ropes Ø	mm	14	16	20	22	25
<b>2155</b>	<b>Each</b>	0,54	0,72	1,64	1,78	2,46

Fully forged and galvanised steel type. In compliance with the Machinery Directive 89/392EEC.

Zinc-coated rope clips.

**SCU**



**2156**



For ropes Ø	mm	3	5	6	8	10	11	12
<b>2156</b>	<b>Each</b>	0,34	0,42	0,54	0,60	0,86	0,92	1,36

For ropes Ø	mm	14	16	20	22	24
<b>2156</b>	<b>Each</b>	1,56	1,88	2,86	3,10	3,68

Size mm 3 not marked "CE" for small dimension.

Product description as Art. 2156

Zinc-coated screw pin shackles, with marked displacement.

**SCU**



**2157**



Pivot Ø	mm	5	6	8	10	11	12	14
Working load	Ton	0,10	0,16	0,25	0,40	0,50	0,63	0,8
<b>2157</b>	<b>Each</b>	0,46	0,66	1,10	1,30	1,56	1,88	2,54

Pivot Ø	mm	16	20	22	25
Working load	Ton	1	1,6	2	2,5
<b>2157</b>	<b>Each</b>	3,76	6,52	8,82	12,10

Sizes mm 5 and 6 not marked "CE" for small dimension.

Stainless steel type AISI 316.

Stainless steel thimbles.

**SCU**

**INOX**

**2158A**



For ropes Ø	mm	3	4	5	6	8	10	12
<b>2158A</b>	<b>Each</b>	0,42	0,48	0,52	0,78	1,32	2,30	2,96

For ropes Ø	mm	14	16	20
<b>2158A</b>	<b>Each</b>	5,28	7,70	11,80

Product description as Art. 2158A

Stainless steel rope clips.

**SCU**

**INOX**

**2158B**



For ropes Ø	mm	3	5	6	8	10	12	14
<b>2158B</b>	<b>Each</b>	1,12	1,40	1,56	2,36	3,66	5,90	6,66

For ropes Ø	mm	16	20	22	26
<b>2158B</b>	<b>Each</b>	9,06	12,90	17,40	20,70

AISI 316 stainless steel type. Not to be used for lifting.

Stainless steel screw pin shackles.

**SCU**

**INOX**

**2158E**



Pivot Ø	mm	4	5	6	8	10	12	14
Working load	Ton	0,03	0,06	0,10	0,20	0,30	0,50	0,60
<b>2158E</b>	<b>Each</b>	1,48	1,56	2,06	3,64	6,24	10,80	16,10

Pivot Ø	mm	16	20
Working load	Ton	0,80	1
<b>2158E</b>	<b>Each</b>	23,20	38,20

AISI 316 stainless steel model.

Conforms with 89/392 CEE Machinery Directive.

Stainless steel clips.

**SCU**

**INOX**

**2158F**



Pivot Ø	mm	8	10	12	14	16	20
Working load	Ton	0,25	0,40	0,63	0,80	1	1,60
<b>2158F</b>	<b>Each</b>	4,02	6,80	11,90	17,70	25,60	42,10

For the dimensions of redances - shackles - clips see technical tables at the end of the catalogue.

**MALE AND FEMALE EYEBOLTS**
**2159T SCU**

**Prod. SCU**

Forged steel type. With round eye, in compliance with DIN 580.

Male eyebolts, black finish.

Metric pitch thread	M.	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>18</b>
Vertical workload	Kg	75	140	230	340	500	700	930
Oblique workload	Kg	50	100	170	240	320	500	590
<b>2159T</b>	<b>Each</b>	<b>0,78</b>	<b>0,78</b>	<b>1,16</b>	<b>1,64</b>	<b>2,44</b>	<b>2,50</b>	<b>3,72</b>
Metric pitch thread	M.	<b>20</b>	<b>22</b>	<b>24</b>	<b>27</b>	<b>30</b>	<b>36</b>	<b>42</b>
Vertical workload	Kg	1200	1450	1800	2700	3200	4600	6300
Oblique workload	Kg	860	1000	1290	1750	2300	3300	4500
<b>2159T</b>	<b>Each</b>	<b>3,78</b>	<b>7,60</b>	<b>7,74</b>	<b>15,70</b>	<b>16,20</b>	<b>29,10</b>	<b>45,10</b>

**2160 SCU**


Product description as Art. 2159T

Male eyebolts, galvanized.

Metric pitch thread	M.	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>18</b>
Vertical workload	Kg	75	140	230	340	500	700	930
Oblique workload	Kg	50	100	170	240	320	500	590
<b>2160</b>	<b>Each</b>	<b>0,80</b>	<b>0,82</b>	<b>1,22</b>	<b>1,72</b>	<b>2,54</b>	<b>2,62</b>	<b>3,88</b>
Metric pitch thread	M.	<b>20</b>	<b>22</b>	<b>24</b>	<b>27</b>	<b>30</b>	<b>36</b>	<b>42</b>
Vertical workload	Kg	1200	1450	1800	2700	3200	4600	6300
Oblique workload	Kg	860	1000	1290	1750	2300	3300	4500
<b>2160</b>	<b>Each</b>	<b>3,94</b>	<b>7,88</b>	<b>8,08</b>	<b>16,50</b>	<b>17,10</b>	<b>29,70</b>	<b>46,50</b>
Metric pitch thread	M.	<b>48x3</b>	<b>48x5</b>					
Vertical workload	Kg	8600	8600					
Oblique workload	Kg	6100	6100					
<b>2160</b>	<b>Each</b>	<b>71,40</b>	<b>71,40</b>					

The measurement MF 48x3 is fine pitch.

**2160F SCU**

**INOX**

INOX AISI 316 steel type. With round eye, like DIN 580.

Stainless steel male eyebolts.

Metric pitch thread	M.	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>16</b>	<b>20</b>
Vertical workload	Kg	75	140	230	340	700	1200
Oblique workload	Kg	50	100	170	240	500	860
<b>2160F</b>	<b>Each</b>	<b>4,30</b>	<b>4,44</b>	<b>7,88</b>	<b>12,40</b>	<b>20,90</b>	<b>31,30</b>

**2160T SCU**


Forged steel type. With round eye, similar to DIN 582.

Female eyebolts, black finish.

Metric pitch thread	M.	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>18</b>
Vertical workload	Kg	50	140	230	340	500	700	930
Oblique workload	Kg	35	100	170	240	320	500	590
<b>2160T</b>	<b>Each</b>	<b>0,78</b>	<b>0,78</b>	<b>1,16</b>	<b>1,64</b>	<b>2,44</b>	<b>2,50</b>	<b>3,72</b>
Metric pitch thread	M.	<b>20</b>	<b>22</b>	<b>24</b>	<b>27</b>	<b>30</b>	<b>36</b>	<b>42</b>
Vertical workload	Kg	1200	1450	1800	2700	3200	4600	6300
Oblique workload	Kg	860	1000	1290	1750	2300	3300	4500
<b>2160T</b>	<b>Each</b>	<b>3,78</b>	<b>7,60</b>	<b>7,74</b>	<b>15,70</b>	<b>16,20</b>	<b>29,10</b>	<b>45,10</b>

**2161 SCU**


Product description as Art. 2160T

Female eyebolts, galvanized.

Metric pitch thread	M.	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>18</b>
Vertical workload	Kg	50	140	230	340	500	700	930
Oblique workload	Kg	35	100	170	240	320	500	590
<b>2161</b>	<b>Each</b>	<b>0,80</b>	<b>0,82</b>	<b>1,22</b>	<b>1,72</b>	<b>2,54</b>	<b>2,62</b>	<b>3,88</b>
Metric pitch thread	M.	<b>20</b>	<b>22</b>	<b>24</b>	<b>27</b>	<b>30</b>	<b>36</b>	<b>42</b>
Vertical workload	Kg	1200	1450	1800	2700	3200	4600	6300
Oblique workload	Kg	860	1000	1290	1750	2300	3300	4500
<b>2161</b>	<b>Each</b>	<b>3,94</b>	<b>7,88</b>	<b>8,08</b>	<b>16,50</b>	<b>17,10</b>	<b>29,70</b>	<b>46,50</b>

**2161F SCU**

**INOX**

AISI 316 stainless steel type. With round eye, similar to DIN 582.

Stainless steel female eyebolts.

Metric pitch thread	M.	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>16</b>	<b>20</b>
Vertical workload	Kg	50	140	230	340	700	1200
Oblique workload	Kg	35	100	170	240	500	860
<b>2161F</b>	<b>Each</b>	<b>4,30</b>	<b>4,44</b>	<b>7,88</b>	<b>12,40</b>	<b>20,90</b>	<b>31,30</b>

For the dimensions of male and female eyebolts see technical tables at the end of the catalogue.

**MULTI DIRECTIONAL USING LIFTING SWIVELS**
**Prod. SCU**

360° swivel and 180° swinging model, for optimal working angle.  
 Made of alloy steel, GRADE 80, hardened.  
 Painted red.

Metric pitch thread	M.	8	10	12	16	20	24
Vertical workload	Kg	600	900	1000	2000	4000	6300
Oblique workload	Kg	300	450	500	1120	2000	3150
<b>2162</b>	<b>Each</b>	<b>30,80</b>	<b>32,20</b>	<b>33,90</b>	<b>35,60</b>	<b>55,50</b>	<b>83,20</b>

SCU


**2162**  
*new*

**BETA COTTER PINS**
**Prod. SCU**

Galvanised steel model.

Tension rod Ø	mm	2	3	3,5	4	5	6
<b>2165</b>	<b>Each</b>	<b>0,10</b>	<b>0,16</b>	<b>0,20</b>	<b>0,24</b>	<b>0,50</b>	<b>0,80</b>

SCU

**2165**


AISI 304 stainless steel model.

Tension rod Ø	mm	2	3	4	5	6
<b>2165F</b>	<b>Each</b>	<b>0,32</b>	<b>0,64</b>	<b>1,18</b>	<b>2,34</b>	<b>3,66</b>

SCU

**2165F**


INOX

**TROLLEYS FOR RADIATORS**
**Prod. SCU**

For transport of different object and with a specific hook for transport and precise positioning of radiators. In sturdy steel square section, rubber handgrips, lifting crank mechanism, 2 big rubber wheels and 2 couples of small wheels for trolley transverse movement.

Maximum height: 930mm. Width: 550mm. Weight: 18kg. Maximum load: 250kg.

**2200A** Each **653,00**

SCU

**2200A**

**8**
**MULTI-PURPOSE STAIR CLIMBING TROLLEYS**
**Prod. SCU**

With 10 wheels for transport over steps of different objects and with a specific hook for transport and precise positioning of radiators. In sturdy steel square section, rubber handgrips, lifting crank mechanism, 6 big rubber swivel wheels and 2 couples of small wheels for trolley transverse movement.

Maximum height: 1100mm. Width: 530mm. Weight: 27kg. Maximum load: 250kg.

**2200E** Each **861,00**

SCU

**2200E**

**ADJUSTABLE JACK STANDS**
**Prod. SCU**

For garages and repair shops.  
 Sturdy and safe. Finely painted.  
 Standard type.

Art.		2216A	2216B	2216C
Max load capacity	Kg	1000	1000	3500
Min height	mm	280	380	440
Max height	mm	480	650	740
Weight	Kg	3	3.4	8
Base		triangular	triangular	square
<b>Each</b>		<b>52,30</b>	<b>63,40</b>	<b>119,00</b>

SCU

**2216A**  
**2216B**  
**2216C**


**2216P**  
**2216S**



For heavy loads, with 5 position holes and adjustment pin.  
Reinforced type with carrying handle.

Art.		2216P	2216S
Max load capacity	Kg	8000	12000
Min height	mm	450	450
Max height	mm	740	740
Weight	Kg	20	26
Base		square	square
<b>Each</b>		<b>303,00</b>	<b>366,00</b>

### HYDRAULIC GARAGE JACKS

**2217**



**Prod. SCU**

Hydraulic type, for garages and repair shops. Sturdy and ribbed finish.

Capacity on fine plate	Kg	1200	1500	3000	5000
Min lifting	mm	135	130	140	155
Max lifting	mm	525	520	520	550
Trolley length	mm	650	1190	1280	1530
Weight	Kg	32	43	56	75
<b>2217</b>	<b>Each</b>	<b>557,00</b>	<b>713,00</b>	<b>896,00</b>	<b>1.200,00</b>

### HYDRAULIC VEHICLE JACKS

**2220G**


**Orig. Weber - Art. Mod. A**

Manufactured in compliance with DIN 76024 standards and with the approval of the German institute TÜV.

With piston and adjustable threaded spindle. Sturdy, precise finish, safe functioning. Special indeformable gaskets. Safety overload valve. Sector lever in the package.

Max load capacity	Kg	2000	3500	5000	8000	10000
Max height as closed	mm	170	170	212	220	220
Max height as high	mm	377	377	462	480	480
Weight without lever	Kg	2,9	2,9	3,9	5,7	5,7
Base type		flat	flat	flat	tilting	tilting
<b>2220G</b>	<b>Each</b>	<b>96,30</b>	<b>112,00</b>	<b>132,00</b>	<b>154,00</b>	<b>164,00</b>
Max load capacity	Kg	12000	15000	20000	25000	30000
Max height as closed	mm	230	230	240	240	240
Max height as high	mm	497	495	505	515	482
Weight without lever	Kg	7,1	8,3	10,7	13,1	14,5
Base type		tilting	tilting	tilting	tilting	tilting
<b>2220G</b>	<b>Each</b>	<b>189,00</b>	<b>207,00</b>	<b>268,00</b>	<b>387,00</b>	<b>398,00</b>

Sets of spare gaskets for Art. 2220 G.

Max load capacity	Kg	2000	3500	5000	8000	10000
<b>O2220G</b>	<b>Each</b>	<b>31,40</b>	<b>31,40</b>	<b>46,10</b>	<b>52,40</b>	<b>52,40</b>
Max load capacity	Kg	12000	15000	20000	25000	30000
<b>O2220G</b>	<b>Each</b>	<b>46,10</b>	<b>49,10</b>	<b>48,20</b>	<b>35,60</b>	<b>69,10</b>

**2220GS**


**Orig. Weber - Art. A50-250 - Art. A100-300**

Manufactured in compliance with DIN 76024 standards and with the approval of the German institute TÜV.

Big load capacity pistons. Large reinforced base. Double lifting pump.

The pump on the left side of the seal valve is used to bring quickly the piston to the lifting point with a maximum load capacity of:

12.5t for the model with max load 50.000 kg

25t for the model with max load 100.000 kg.

The smaller pump, on the right side of the valve, is used to reach more slowly 50.000 kg and 100.000 kg.

Provided with overload safety valve. Indeformable, high-seal gaskets. With lever.

Max load capacity	Kg	50000	100000
Max height as closed	mm	250	300
Max height as high	mm	405	450
Weight without lever	Kg	33	87
Oil content	l	1,4	2,8
Flow rate I left hand pump	t.	12,5	25
Flow rate II right hand pump	t.	50	100
Reinforced base	mm	290x235	330x295
<b>2220GS</b>	<b>Each</b>	<b>1.090,00</b>	<b>4.030,00</b>

Sets of spare gaskets for Art. 2220 GS.

Max load capacity	Kg	50000	100000
<b>O2220GS</b>	<b>Each</b>	<b>119,00</b>	<b>224,00</b>

Size 100000 running out of stock.

**Orig. Weber - Art. ATD 10-120**

Manufactured in compliance with DIN 76024 standards and with the approval of the German institute TÜV.

With flat body. Highly indicated for works in which there is small place for the hydraulic jack.

Overload safety valve.

With double telescopic piston. Cylinder seal granted by special indeformable gaskets.

With lever.

Max load capacity	Kg	10000
Max height as closed	mm	120
Max height as high	mm	230
Weight without lever	Kg	6,9
Base type		tilting
Lever movement		vertical

<b>2221GA</b>	Each	<b>418,00</b>
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Sets of spare gaskets for Art. 2221 GA.

<b>O2221GA</b>	Each	<b>57,10</b>
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**2221GA**



**Orig. Weber - Art. ATN 10-175**

Manufactured in compliance with DIN 76024 standards and with the approval of the German institute TÜV.

With flat body. Highly indicated for works in which there is small place for the hydraulic jack.

Overload safety valve.

With double telescopic piston. Cylinder seal granted by special indeformable gaskets.

With lever.

Max load capacity	Kg	10000
Max height as closed	mm	175
Max height as high	mm	385
Weight without lever	Kg	7,9
Base type		flat
Lever movement		horizontal

<b>2222G</b>	Each	<b>437,00</b>
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Sets of spare gaskets for Art. 2222 G.

<b>O2222G</b>	Each	<b>57,10</b>
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**2222G**



**Orig. Weber - Art. ADX4-370 - Art. ADX10-370**

Manufactured in compliance with DIN 76024 standards and with the approval of the German institute TÜV.

With very long body. Highly indicated for works in which high lifting is required. Overload safety valve. With stable telescopic piston and large lifting base. Pistons seal granted by indeformable gaskets.

With lever.

Max load capacity	Kg	<b>4000</b>	<b>10000</b>
Max height as closed	mm	370	370
Max height as high	mm	630	630
Weight without lever	Kg	6	8,5
Base type		flat	tilting

<b>2223G</b>	Each	<b>200,00</b>	<b>259,00</b>
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Sets of spare gaskets for Art. 2223 G.

Max load capacity	Kg	<b>4000</b>	<b>10000</b>
<b>O2223G</b>	Each	<b>37,70</b>	<b>52,40</b>



**2223G**



**Orig. Weber - Art. ATDX - Art. AT**

Manufactured in compliance with DIN 76024 standards and with the approval of the German institute TÜV. With double telescopic piston. Sturdy finish and safe functioning. Overload safety valve.

Pistons seal granted by indeformable gaskets.

With lever.

Max load capacity	Kg	<b>3000</b>	<b>5000</b>
Max height as closed	mm	185	215
Max height as high	mm	400	520
Weight without lever	Kg	4,1	6,3
Base type		tilting	tilting

<b>2224G</b>	Each	<b>256,00</b>	<b>347,00</b>
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La portata kg. 3000 ha il piattello di forma concava anziché piana.

Sets of spare gaskets for Art. 2224 G.

Max load capacity	Kg	<b>3000</b>	<b>5000</b>
<b>O2224G</b>	Each	<b>58,60</b>	<b>64,60</b>



**2224G**



2225G

**Orig. Weber - Art. ATG - Art. ATPX**

Manufactured in compliance with DIN 76024 standards and with the approval of the German institute TÜV. With double piston and threaded spindle. Sturdy finish and safe functioning. Overload safety valve.

Pistons seal granted by indeformable gaskets.

With lever.

Max load capacity	Kg	10000	12000
Max height as closed	mm	200	230
Max height as high	mm	530	570
Weight without lever	Kg	8,8	12,2
Base type		tilting	tilting
<b>2225G</b>	<b>Each</b>	<b>419,00</b>	<b>499,00</b>

Sets of spare gaskets for Art. 2225 G.

Max load capacity	Kg	10000	12000
<b>O2225G</b>	<b>Each</b>	<b>57,10</b>	<b>49,10</b>

### HIGH BOARDS

2226V

SCU

**Prod. SCU**

Very high and big boards, in aluminium, very light, stable, with foldable legs and safety stopper. Manufactured in compliance with the European safety regulation currently in force. Indicated for operating on particularly high or big vehicles or for working at a great distance from the ground, whitening, cleaning, etc. Load: 120kg approx. Dimensiones: 1400mmx400mmx.800mm, weight: 7.5kg.

<b>2226V</b>	<b>Each</b>	<b>266,00</b>
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Product running out of stock.

### TROLLEYS FOR UNDER-CAR REPAIRS

2227

GEDORE

**Orig. Gedore - Art. 905**

In polypropylene, comfortable, anatomic, well tolerated by the skin, resistant to oils, grease and brake liquids.

On 6 pivoting wheels.

With mattress under head and 2 lateral boxes for tools. Capacity 130 kg.

Length	mm	1030
Width	mm	480
<b>2227</b>	<b>Each</b>	<b>106,00</b>

2227A

SCU

**Prod. SCU**

In painted steel sheet.

On 4 pivoting wheels.

With headrest.

Length	mm	1000
Width	mm	440
<b>2227A</b>	<b>Each</b>	<b>133,00</b>

2227B

SCU



Product description as Art. 2227A

With mattress for maximum comfort.

Length	mm	1000
Width	mm	480
<b>2227B</b>	<b>Each</b>	<b>216,00</b>

### HIGH BOARDS

2227B 3

GEDORE

**Orig. Gedore - Art. 906**

In rigid foam material, non absorbing, resistant to oils and grease.

With handle.

Length	mm	450
Width	mm	210
<b>2227B 3</b>	<b>Each</b>	<b>19,30</b>



**WORKSHOP STOOLS**

**Prod. SCU**

Model with 4 sturdy casters.  
Steel ribbed body profile with seat, includes soft padded material, set at a height of 385 mm.  
Large tool tray and hardware.  
Dimensions 420x370x385h mm. Weight 5 Kg. Maximum load weight of 90 kg.

**2227B 5** Each **180,00**

**SCU**

**2227B 5**



**MOBILE HYDRAULIC CRANES**

**Prod. SCU**

Fixed type.  
Frame and pump can be disassembled. Stop device, hook and safety valve.  
Double-acting pump, wheels in nylon and rubber (2 pivoting wheels). 4-positions lifting arm.  
Cardboard package.

Max. capacity 1st pos. Kg **500** **1000**  
Max. capacity 4th pos. Kg 150 300  
Weight Kg 77 95

**2227D** Each **886,00** **1.300,00**

**SCU**



**2227D**

CRANE DIMENSIONS Art. 2227 D

Power kg	A	B	C	D	E	F	G	H	I	L	M	N
500	1620	1260	1310	1010	143	410	650	2160	2340	750	885	665
1000	1700	1520	1550	1250	170	520	700	2160	2340	950	1060	750



Foldable type.

Apt for problems with overall dimensions and transport. Low frame (distance from the ground: 90mm) for very small places.  
Stop device, hook and safety valve. Double-acting pump, wheels in nylon and rubber (2 pivoting wheels). 4-positions lifting arm. Cardboard package.

Max. capacity 1st pos. Kg **500** **1000**  
Max. capacity 4th pos. Kg 150 300  
Weight Kg 87 117

**2227E** Each **1.160,00** **1.580,00**

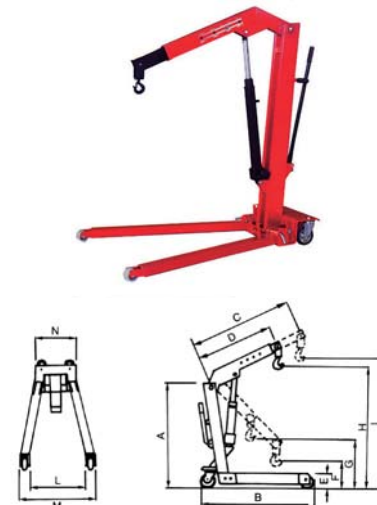
**SCU**



**2227E**

CRANE DIMENSIONS Art. 2227 E

Power kg	A	B	C	D	E	F	G	H	I	L	M	N
500	1490	1530	1320	1010	90	100	400	1990	2140	730	860	430
1000	1480	1600	1300	1000	90	110	400	2160	2340	800	1000	540



**GB-PIT JACKS**

2227F

SCU



Prod. SCU

Particularly indicated for garage pits and under bridges. For lifting heavy and bulky mechanical parts. Trolley and pump can be disassembled, pedal lift action, 4 pivoting wheels, safety valves. Upper support. Cardboard package.

Max load capacity	Kg	250	500	1000
Weight	Kg	24	35	42
<b>2227F</b>	<b>Each</b>	<b>530,00</b>	<b>652,00</b>	<b>877,00</b>

LIFTER DIMENSIONS Art.2227 F

Power kg	A	B	C	D	E
250	1100	1910	380	410	320
500	1130	1930	500	410	350
1000	1150	1930	500	540	360

**RATCHET JACKS**

2228G

SCU



Prod. SCU

Made from steel, sturdy and handy, tested to 3175 Kg. Lever operated, apt for lifting, pulling and tightening.

Max load capacity	Kg	2114
Overall height	mm	1568
Max lifting height	mm	1210
Weight	Kg	14,20
<b>2228G</b>	<b>Each</b>	<b>307,00</b>

**RACK AND PINION JACKS**

2228G 1



Orig. Peddinghaus - Art. 8000-8100-8200-8300

Manufactured according to DIN 7355 standards. Completely made of steel. Bolted body can be easily disassembled and inspected. Steel gears, with hardened interchangeable operating parts. Maximum safety and duration. Safety winch to brake descent. Side support and upper support with the same load capacity.

Type with safety winch.

Max load capacity	Kg	1500	3000	5000	10000
Ratio		simple	simple	double	double
Stroke	mm	360	425	425	490
Max height as closed	mm	600	730	730	800
Weight	Kg	14	20	28	46
<b>2228G 1</b>	<b>Each</b>	<b>304,00</b>	<b>339,00</b>	<b>375,00</b>	<b>463,00</b>

2228GA

SCU



Prod. SCU

With a smaller height compared to those manufactured in compliance with DIN 7355 standards. Completely made of steel. Bolted body can be easily disassembled and inspected. Steel gears with hardened interchangeable operating parts, Maximum safety and duration. Safety winch to brake descent. Lateral support and upper support with the same load capacity.

PARTICULARLY INDICATED FOR LIFTING HEAVY MOTOR VEHICLES, AGRICULTURAL MACHINES, ETC.

With safety winch.

Max load capacity	Kg	1500	3000	5000	10000
Ratio		simple	simple	double	double
Stroke	mm	300	300	300	300
Max height as closed	mm	570	570	600	650
Weight	Kg	11	18	22	38
<b>2228GA</b>	<b>Each</b>	<b>509,00</b>	<b>577,00</b>	<b>679,00</b>	<b>1.070,00</b>

Manufactured in compliance with DIN 7355 standards. Completely made of steel. Bolted body can be easily disassembled and inspected. Steel gears with hardened interchangeable operating parts, Maximum safety and duration. Safety winch to brake descent. Lateral support and upper support with the same load capacity.

With safety winch.

Max load capacity	Kg	<b>1500</b>	<b>3000</b>	<b>5000</b>	<b>10000</b>
Ratio		simple	simple	double	double
Stroke	mm	350	350	300	300
Max height as closed	mm	725	725	725	800
Weight	Kg	12	20	24	42
<b>2228GBN</b>	<b>Each</b>	<b>509,00</b>	<b>577,00</b>	<b>679,00</b>	<b>1.070,00</b>



**2228GBN**



Product description as Art. 2228GBN

With safety winch and cric.

Max load capacity	Kg	<b>1500</b>	<b>3000</b>	<b>5000</b>	<b>10000</b>
Ratio		simple	simple	double	double
Stroke	mm	350	350	300	300
Max height as closed	mm	725	725	725	800
Weight	Kg	12	20	24	42
<b>2228GCN</b>	<b>Each</b>	<b>579,00</b>	<b>646,00</b>	<b>749,00</b>	<b>1.150,00</b>



**2228GCN**



Manufactured in compliance with DIN 7355 standards. Steel gears with hardened interchangeable operating parts. With movable support. It allows to place the jack quickly by using all the available stroke. Safety winch. Movable support and upper support with the same load capacity.

Max load capacity	Kg	<b>3000</b>	<b>5000</b>	<b>10000</b>
Ratio		simple	double	double
Stroke	mm	350	300	300
Max height as closed	mm	725	725	800
Weight	Kg	23	29	46
<b>2230GN</b>	<b>Each</b>	<b>712,00</b>	<b>848,00</b>	<b>1.270,00</b>



**2230GN**



Manufactured in compliance with DIN 7355 standards. Completely made of steel. Bolted body can be easily disassembled and inspected. Steel gears with hardened interchangeable operating parts. Safety winch. With in-and-out clamping bracket to hold tracks, section bars, billets, etc. Lateral support and upper support with the same load capacity. Enlarged base allows working in small consistency grounds.

Max load capacity	Kg	<b>3000</b>	<b>5000</b>	<b>10000</b>
Ratio		simple	double	double
Stroke	mm	340	300	300
Max height as closed	mm	715	715	790
Weight	Kg	23	26	44
<b>2232GN</b>	<b>Each</b>	<b>532,00</b>	<b>617,00</b>	<b>966,00</b>



**2232GN**



**BÜFFEL HYDRAULIC JACKS**

Orig. Weber - Art. B

Manufactured in compliance with European standards. Hydraulic operated. Completely made of steel, operating parts in special hardened steel and chromed piston. Special indeformable gaskets. 360° rotating body. Provided with overload safety valve. Lower support base, square and flat, with dimensions 100x100mm, interchangeable, with reduced movement lever, 360° rotation. Lateral support foot, 4-positions adjustable (for 10.000kg 6 positions). Particularly indicated for heavy use where big weights are to be handled with minimum effort. It can be used in any position.

Max load capacity	Kg	<b>5000</b>	<b>10000</b>
Stroke	mm	280	350
Max height as closed	mm	650	800
Weight	Kg	26	38
<b>2240G</b>	<b>Each</b>	<b>3.650,00</b>	<b>4.320,00</b>



**2240G**



**NEEDLE FILES FOR METALS**

**2300G**  
**2301G**



**Orig. Hasen-Feilen**

DIN 8342. Suitable for iron and soft metals. Second-cut file (1/2D).  
Total length 140mm. Shank diameter: 3mm.

Profiles	A	B	D	E	F	H
Cut	1/2D	1/2D	1/2D	1/2D	1/2D	1/2D
<b>2300G</b> Each	5,10	5,10	5,10	5,10	5,10	5,60

Product description as Art. 2300G

Total length 160mm. Shank diameter: 3mm.

Profiles	A	B	D	E	F	H
Cut	1/2D	1/2D	1/2D	1/2D	1/2D	1/2D
<b>2301G</b> Each	5,76	5,76	5,76	5,76	5,76	6,14

Files with length 180 and 200mm available on request.

**2302G**  
**2303G**  
**2304G**  
**2305G**

**SCU**



**Prod. SCU - Orig. Dick**

Very strong type. Suitable also for hard steel.

Files: bastard (B), second-cut (1/2D) and smooth (D).

Total length 140mm. Shank diameter: 3mm.

Profiles	A	A	B	B	B	C	C	C
Cut	1/2D	D	B	1/2D	D	B	1/2D	D
<b>2302G</b> Each	12,10	12,10	10,80	10,80	10,80	15,60	15,60	15,60

Profiles	D	D	D	E	E	E	F	F
Cut	B	1/2D	D	B	1/2D	D	B	1/2D
<b>2302G</b> Each	12,10	12,10	12,10	14,10	14,10	14,10	10,80	10,80

Profiles	F	G	G	G	H	H	H
Cut	D	B	1/2D	D	B	1/2D	D
<b>2302G</b> Each	10,80	13,60	13,60	13,60	13,60	13,60	13,60

Product description as Art. 2302G

Total length 160mm. Shank diameter: 3 mm.

Profiles	A	A	A	B	B	B	C	C	C	D	D	D	E	E	E
Cut	B	1/2D	D	B	1/2D	D	B	1/2D	D	B	1/2D	D	B	1/2D	D
<b>2303G</b> Each	13,30	13,30	13,30	12,50	12,50	12,50	16,60	16,60	16,60	13,30	13,30	13,30	15,20	15,20	15,20

Profiles	F	F	F	G	G	G	H	H	H
Cut	B	1/2D	D	B	1/2D	D	B	1/2D	D
<b>2303G</b> Each	12,50	12,50	12,50	14,40	14,40	14,40	14,40	14,40	14,40

Product description as Art. 2302G

Total length 180mm. Shank Ø 3mm.

Profiles	A	A	A	B	B	B	C	C	C	D	D	D	E	E	E
Cut	B	1/2D	D	B	1/2D	D	B	1/2D	D	B	1/2D	D	B	1/2D	D
<b>2304G</b> Each	15,40	15,40	15,40	13,70	13,70	13,70	19,20	19,20	19,20	15,40	15,40	15,40	17,70	17,70	17,70

Profiles	F	F	F	G	G	G	H	H	H
Cut	B	1/2D	D	B	1/2D	D	B	1/2D	D
<b>2304G</b> Each	13,70	13,70	13,70	16,70	16,70	16,70	16,70	16,70	16,70

Product description as Art. 2302G

Total length 200mm. Shank Ø 3mm.

Profiles	A	A	A	B	B	B	C	C	C	D	D	D	E	E	E
Cut	B	1/2D	D	B	1/2D	D	B	1/2D	D	B	1/2D	D	B	1/2D	D
<b>2305G</b> Each	18,40	18,40	18,40	16,30	16,30	16,30	22,60	22,60	22,60	18,40	18,40	18,40	21,10	21,10	21,10

Profiles	F	F	F	G	G	G	H	H	H
Cut	B	1/2D	D	B	1/2D	D	B	1/2D	D
<b>2305G</b> Each	16,30	16,30	16,30	19,80	19,80	19,80	19,80	19,80	19,80

**SETS OF NEEDLE FILES**

**2306G**



**Orig. Hasen-Feilen - Art. 2200/6**

Set of 6 files in plastic wallet.

Second-cut file. Shapes: flat, half-round, triangular, square, round, equalling.

Overall length	mm	140	160
<b>2306G</b> Per set		28,90	33,40

**Orig. Hasen-Feilen - Art. 2200/12**

Set of 12 files in plastic wallet. Second-cut file. Shapes: flat, flat with rounded edges, acute triangle, acute triangle with rounded edges, triangular, square, half-round, round, knife, slitting, oval, bar.

Overall length	mm	140	160
<b>2307G</b>	Per set	57,80	66,40



**2307G**



**DIAMOND NEEDLE FILES FOR METALS**

**Prod. SCU**

Diamond needle type, for hand use. Suitable for the finishing of tools made of hardened steel or hard metal. Suitable also for glasses, crystals, hard stones, marbles etc.

Total length 100mm. (Diamond surface 50mm.). Fine grain (D91). Shank diameter: 2.30 mm.

Profiles		A	B	D	E	F	H
<b>2309G</b>	Each	24,10	24,10	24,10	24,10	24,10	24,10

Product description as Art. 2309G

Total length 140mm. (Diamond surface 70mm.). Medium grain (D126). Shank diameter: 3mm.

Profiles		A	B	D	E	F	H
<b>2310G</b>	Each	21,80	21,80	21,80	21,80	21,80	21,80

Product description as Art. 2309G

Total length 160mm. (Diamond surface 80mm.). Medium grain (D126). Shank diameter: 3mm.

Profiles		A	B	D	E	F	H
<b>2311G</b>	Each	26,10	26,10	26,10	26,10	26,10	26,10

Product description as Art. 2309G

Total length 200mm. (Diamond surface 90mm.). Medium grain (D151). Shank diameter: 3mm.

Profiles		A	B	D	E	F	H
<b>2313G</b>	Each	32,90	32,90	32,90	32,90	32,90	32,90



**2309G  
2310G  
2311G  
2313G**



DIAMONDED

**SETS OF DIAMOND NEEDLE FILES**

**Prod. SCU**

Set of 5 diamond files. Art. 2310 GB-D-E-F-H. In plastic wallet.

<b>2320G</b>	Per set	116,00
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**2320G**



DIAMONDED

Set of 5 diamond files. Art. 2311 GB-D-E-F-H. In plastic wallet.

<b>2321G</b>	Per set	138,00
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**2321G**



DIAMONDED

**CONTACT FILE SETS**

**Orig. Hasen-Feilen - Art. 5046**

Professional set of 6 thin flat dead-smooth files. Cutting edge length 90mm. Total length 150mm. In plastic wallet.

<b>2330G 6</b>	Per set	21,80
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**2330G 6**



### 2331G SCU



**Prod. SCU**  
Standard set of 6 thin flat dead-smooth files.  
Cutting edge length 90mm. Total length 150mm.  
In plastic bag.

<b>2331G</b>	Per set	<b>10,70</b>
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### DIAMOND FILES WITH HANDLES

### 2332G SCU



DIAMONDED

**Prod. SCU**  
Thin flat diamond type files, suitable for splines and very narrow spaces. Total length 180mm, width 13mm, diamond surface 80mm, with handgrip. Medium grain (D126)

Thickness	mm	<b>0,40</b>	<b>0,50</b>	<b>0,60</b>	<b>0,80</b>	<b>1</b>
<b>2332G</b>	Each	<b>49,80</b>	<b>49,80</b>	<b>49,80</b>	<b>49,80</b>	<b>49,80</b>

### RIFFLER FILES

### 2334 SCU



**Prod. SCU**  
Suitable for iron and soft metals.  
Length 180mm. Second-cut type.

Profiles		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>
<b>2334</b>	Each	<b>37,00</b>	<b>44,40</b>	<b>37,00</b>	<b>44,40</b>	<b>37,00</b>	<b>37,00</b>	<b>37,00</b>
Profiles		<b>H</b>						
<b>2334</b>	Each	<b>44,40</b>						

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### 2334G SCU



**Prod. SCU - Orig. Dick**  
Heavy-duty type. Length 180mm.  
2334 GB - Bastard file (B).  
2334 G1/2D - Second-cut file (1/2D).

Profiles		<b>A</b>	<b>A</b>	<b>B</b>	<b>B</b>	<b>C</b>	<b>C</b>	<b>D</b>
Cut		<b>B</b>	<b>1/2D</b>	<b>B</b>	<b>1/2D</b>	<b>B</b>	<b>1/2D</b>	<b>B</b>
<b>2334G</b>	Each	<b>48,50</b>	<b>48,50</b>	<b>57,90</b>	<b>57,90</b>	<b>48,50</b>	<b>48,50</b>	<b>57,90</b>
Profiles		<b>D</b>	<b>E</b>	<b>E</b>	<b>F</b>	<b>F</b>	<b>G</b>	<b>G</b>
Cut		<b>1/2D</b>	<b>B</b>	<b>1/2D</b>	<b>B</b>	<b>1/2D</b>	<b>B</b>	<b>1/2D</b>
<b>2334G</b>	Each	<b>57,90</b>	<b>57,90</b>	<b>57,90</b>	<b>63,20</b>	<b>63,20</b>	<b>57,90</b>	<b>57,90</b>

### RIFFLER FILES SET

### 2335 SCU



**Prod. SCU**  
Set of 8 curved files Art. 2334 A-B-C-D-E-F-G-H. In plastic bag.

<b>2335</b>	Per set	<b>319,00</b>
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### DIAMOND RIFFLER FILES

### 2336G SCU



DIAMONDED

**Prod. SCU**  
Diamond curve type, for hand use.  
For the finishing of tools made of hardened steel or hard metal.  
Suitable also for glasses, crystals, hard stones, marbles etc. Total length 150mm, length of diamond surface 25mm, medium grain (126)

Profiles		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>G</b>
<b>2336G</b>	Each	<b>38,10</b>	<b>38,10</b>	<b>38,10</b>	<b>38,10</b>	<b>38,10</b>

**FILES FOR MINOR REPAIRS**

**Prod. SCU**

Professional set of 6 files for minor repairs. With handgrip. Length 4 inches.  
Second-cut type. Shapes: flat, blunt, half-round, triangular, square, round, equalling.  
In metal wallet.

**2337G** Per set **18,50**



**2337G**

Standard set of 6 files for minor repairs. With handgrip. Length 4 inches.  
Second-cut type. Shapes: flat, blunt, half-round, triangular, square, round, equalling.  
In plastic bag.

**2338** Per set **16,90**



**2338**

**PARALLEL FLAT FILES WITH HANDLE**

**Orig. Hasen-Feilen - Art. 1112 SBH**

With drilled plastic handgrip to be hooked on display panel. In bag.  
With one toothed side and one smooth side.

Overall length	inches	6	6	6	8	8	8	10
Cut		B	1/2 D	D	B	1/2 D	D	B
<b>2340G</b>	<b>Each</b>	6,34	6,50	6,80	7,34	7,58	8,16	9,54
Overall length	inches	10	10	12	12	12		
Cut		1/2 D	D	B	1/2 D	D		
<b>2340G</b>	<b>Each</b>	9,90	10,60	12,60	13,10	13,60		



**2340G**

**HALF-ROUND FILES WITH HANDLE**

**Orig. Hasen-Feilen - Art. 1152 SBH**

Product description as Art. 2340G

Overall length	inches	6	6	6	8	8	8	10
Cut		B	1/2 D	D	B	1/2 D	D	B
<b>2342G</b>	<b>Each</b>	9,20	9,36	9,66	10,60	11,20	11,60	13,90
Overall length	inches	10	10	12	12			
Cut		1/2 D	D	B	1/2 D			
<b>2342G</b>	<b>Each</b>	14,50	15,10	17,60	18,20			



**2342G**

**ROUND FILES WITH HANDLE**

**Orig. Hasen-Feilen - Art. 1162 SBH**

Product description as Art. 2340G

Overall length	inches	6	6	6	8	8	8	10
Cut		B	1/2 D	D	B	1/2 D	D	B
<b>2343G</b>	<b>Each</b>	5,98	6,34	6,72	7,00	7,22	7,72	8,70
Overall length	inches	10	10	12	12			
Cut		1/2 D	D	B	1/2 D			
<b>2343G</b>	<b>Each</b>	9,16	9,78	11,40	12,10			



**2343G**

**SQUARE FILES WITH HANDLE**

**Orig. Hasen-Feilen - Art. 1142 SBH**

Product description as Art. 2340G

Overall length	inches	6	6	6	8	8	8	10	10	10
Cut		B	1/2 D	D	B	1/2 D	D	B	1/2 D	D
<b>2344G</b>	<b>Each</b>	6,34	6,96	7,22	7,50	7,96	8,42	9,66	9,86	10,30



**2344G**

**TRIANGULAR FILES WITH HANDLE**

**Orig. Hasen-Feilen - Art. 1132 SBH**

Product description as Art. 2340G

Overall length	inches	6	6	6	8	8	8	10	10	10
Cut		B	1/2 D	D	B	1/2 D	D	B	1/2 D	D
<b>2346G</b>	<b>Each</b>	7,50	7,88	8,12	8,66	9,32	9,70	11,70	12,40	13,40



**2346G**

**SETS OF FILES FOR MECHANICS**

**2348G**  
**2349G**



**Orig. Hasen-Feilen**

In plastic bags suitable for display and workshops.

Set of 6 files with handgrip, assorted shapes: flat blunt, equalling, half-round, square, triangular, round.

Bastard files

Overall length	inches	6	8
Supplier code		150/1	200/1
<b>2348G</b>	<b>Per set</b>	<b>53,10</b>	<b>61,50</b>

Product description as Art. 2348G

Second-cut files

Overall length	inches	6	8
Supplier code		150/2	200/2
<b>2349G</b>	<b>Per set</b>	<b>53,70</b>	<b>62,50</b>

**FILE AND RASP SETS**

**2349GL**



**Orig. Hasen-Feilen - Art. 5050**

Set of 4 8" bastard files in plastic bags. With handgrip. Assorted shapes: flat blunt, triangular, round, square and 1 8" rasp with handgrip, half-round type.

<b>2349GL</b>	<b>Per set</b>	<b>53,40</b>
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**PARALLEL FLAT FILES**

**2350G**



**Orig. Hasen-Feilen - Art. 1112**

With one side toothed and one smooth.

Overall length	inches	4	4	4	5	6	6	6
Cut		B	1/2 D	D	D	B	1/2 D	D
<b>2350G</b>	<b>Each</b>	<b>4,28</b>	<b>4,32</b>	<b>4,36</b>	<b>5,02</b>	<b>4,52</b>	<b>4,68</b>	<b>5,02</b>
Overall length	inches	8	8	8	10	10	10	12
Cut		B	1/2 D	D	B	1/2 D	D	B
<b>2350G</b>	<b>Each</b>	<b>5,26</b>	<b>5,56</b>	<b>5,92</b>	<b>7,22</b>	<b>7,50</b>	<b>8,30</b>	<b>9,58</b>
Overall length	inches	12	12	14	14			
Cut		1/2 D	D	B	1/2 D			
<b>2350G</b>	<b>Each</b>	<b>10,30</b>	<b>11,20</b>	<b>13,30</b>	<b>13,80</b>			

Size 5D running out of stock.

**EQUALLING FILES**

**2352G**



**Orig. Hasen-Feilen - Art. 1122**

With 2 toothed sides.

Overall length	inches	6	6	6	8	8	8	10
Cut		B	1/2 D	D	B	1/2 D	D	B
<b>2352G</b>	<b>Each</b>	<b>4,52</b>	<b>4,68</b>	<b>5,02</b>	<b>5,26</b>	<b>5,56</b>	<b>5,92</b>	<b>7,22</b>
Overall length	inches	10	10	12	12	12		
Cut		1/2 D	D	B	1/2 D	D		
<b>2352G</b>	<b>Each</b>	<b>7,50</b>	<b>8,30</b>	<b>9,58</b>	<b>10,30</b>	<b>11,20</b>		

**HALF-ROUND FILES**

**2356G**



**Orig. Hasen-Feilen - Art. 1152**

Overall length	inches	4	4	4	6	6	6	8	8
Cut		B	1/2 D	D	B	1/2 D	D	B	1/2 D
<b>2356G</b>	<b>Each</b>	<b>7,04</b>	<b>7,38</b>	<b>7,58</b>	<b>7,38</b>	<b>7,50</b>	<b>7,80</b>	<b>8,50</b>	<b>9,12</b>
Overall length	inches	8	10	10	10	12	12	12	
Cut		D	B	1/2 D	D	B	1/2 D	D	
<b>2356G</b>	<b>Each</b>	<b>9,54</b>	<b>11,90</b>	<b>12,40</b>	<b>12,80</b>	<b>15,20</b>	<b>15,60</b>	<b>16,70</b>	

**ROUND FILES**

**2358G**



**Orig. Hasen-Feilen - Art. 1162**

Overall length	inches	4	4	4	6	6	6	8
Cut		B	1/2 D	D	B	1/2 D	D	B
<b>2358G</b>	<b>Each</b>	<b>4,14</b>	<b>4,48</b>	<b>4,90</b>	<b>4,14</b>	<b>4,48</b>	<b>4,90</b>	<b>4,94</b>
Overall length	inches	8	8	10	10	10	12	12
Cut		1/2 D	D	B	1/2 D	D	B	1/2 D
<b>2358G</b>	<b>Each</b>	<b>5,22</b>	<b>5,64</b>	<b>6,64</b>	<b>7,04</b>	<b>7,72</b>	<b>8,78</b>	<b>9,58</b>
Overall length	inches	12	14	14				
Cut		D	B	1/2 D				
<b>2358G</b>	<b>Each</b>	<b>10,60</b>	<b>12,20</b>	<b>12,60</b>				

Prices in EURO - VAT not included



**SQUARE FILES**

**Orig. Hasen-Feilen - Art. 1142**

Overall length	inches	4	4	4	6	6	6	8
Cut		B	1/2 D	D	B	1/2 D	D	B
<b>2360G</b>	Each	4,36	4,94	5,06	4,56	5,02	5,40	5,48
Overall length	inches	8	8	10	10	10	12	12
Cut		1/2 D	D	B	1/2 D	D	B	1/2 D
<b>2360G</b>	Each	5,88	6,26	7,26	7,72	8,24	11,10	11,60



**2360G**



**KNIFE FILES**

**Orig. Hasen-Feilen - Art. 1172**

Overall length	inches	6	6	8	8	10	10
Cut		B	1/2 D	B	1/2 D	B	1/2 D
<b>2362G</b>	Each	10,60	10,90	12,90	14,40	19,10	21,00



**2362G**



**TRIANGULAR FILES**

**Orig. Hasen-Feilen - Art. 1132**

Overall length	inches	4	4	4	6	6	6	8
Cut		B	1/2 D	D	B	1/2 D	D	B
<b>2364G</b>	Each	4,94	5,22	5,56	5,56	5,76	5,98	6,96
Overall length	inches	8	8	10	10	10	12	12
Cut		1/2 D	D	B	1/2 D	D	B	1/2 D
<b>2364G</b>	Each	7,22	7,72	9,70	10,30	11,20	14,10	14,60



**2364G**



**LATHE FLAT FILES**

**Orig. Peddinghaus - Art. 0904**

Smooth files suitable for lathes.

Overall length	inches	12
<b>2370G</b>	Each	26,30



**2370G**



**FILES WITH CROSS MILLING**

**Orig. Hasen-Feilen Kappa - Art. 1112 AZ**

Very strong type, universal use. With special cutting edge (combined). Suitable for laminated plastic, soft metals, iron and also for hard steel. Available only with flat blunt shape.

Overall length	inches	8	10	12
<b>2372G</b>	Each	9,74	12,50	15,80



**2372G**



**DIAMOND FILES**

**Prod. SCU**

Diamond type, for hand use. Suitable for tools made of hardened steel, hard metal, plastic reinforced by fiber glass, crystals, hard stones, graphite, marbles etc..

Length 150mm. (diamond surface 110mm). Medium grain (D126). Plastic handle.

Profiles		A	B	C	D	E
Shape		flat	half-round	round	square	triangular
Section	mm	13x4	16x5,5	6 to 2	6x6	9,5x9,5
<b>2375G</b>	Each	83,10	93,30	49,50	83,10	83,10

Product description as Art. 2375G

Length 200mm. (diamond surface 160mm). Medium grain (D126). Plastic handle.

Profiles		A	B	C	D	E
Shape		flat	half-round	round	square	triangular
Section	mm	20x4	21x6	8 to 2	8x8	14x14
<b>2376G</b>	Each	185,00	165,00	113,00	147,00	147,00



**2375G**

**2376G**



DIAMONDED

**TAPPER SAW FILES**

**Orig. Hasen-Feilen - Art. 1232**

Second-cut. Standard type. Sharp edges.

Overall length	inches	4	5	6	7	8
<b>2380G</b>	Each	3,44	3,94	4,28	5,40	6,26



**2380G**



**Orig. Hasen-Feilen - Art. 1237**

Second-cut. Thin type. Sharp edges.

Overall length	inches	4	5	6	7	8
<b>2382G</b>	Each	3,44	3,94	4,28	5,40	6,26



**2382G**



**2384G****Orig. Hasen-Feilen - Art. 1231**

Second-cut. Heavy type. Round edges.

Overall length	inches	5	6	8
<b>2384G</b>	Each	5,22	5,88	8,66

**MILL SAW FILES****2386G****Orig. Hasen-Feilen - Art. 1212R**

Second-cut. With 2 round edges.

Overall length	inches	8	10
<b>2386G</b>	Each	7,72	10,60

**2388G****Orig. Hasen-Feilen - Art. 1212**

With 2 flat edges.

Overall length	inches	8	10
<b>2388G</b>	Each	6,26	8,46

**CHAIN SAW FILES****2394GA****Orig. Hasen-Feilen - Art. 1262**

High quality type. For sharpening and dressing chain saw teeth.

Round shape, spiral smooth file.

Length 200mm.

Ø	mm	3,5
<b>2394GA</b>	Each	3,02

**2394GB****Orig. Hasen-Feilen**

Product description as Art. 2394GA

Length 200mm.

Ø	mm	4	4,8	5,5
<b>2394GB</b>	Each	2,96	2,96	2,96

**2395****SCU****Prod. SCU**

For sharpening and dressing chain saw teeth.

Round shape, spiral smooth file.

Length 200mm.

Ø	mm	4	4,8	5,3	5,6	6,4
<b>2395</b>	Each	2,26	2,26	2,26	2,26	2,26

**MILLED FLAT FILES****2400G****TITAN****Orig. Titan - Art. 42**

With oblique milling. With tang and chip breaker.

Overall length	inches	10	10	12	12	14	14
Cut		B	1/2 D	B	1/2 D	B	1/2 D
<b>2400G</b>	Each	36,30	39,50	43,50	45,50	54,40	57,10

**2402G****TITAN****Orig. Titan - Art. 32**

With semicircular milling. With tang and chip breaker.

Overall length	inches	10	10	12	12	14	14
Cut		B	1/2 D	B	1/2 D	B	1/2 D
<b>2402G</b>	Each	38,50	40,50	45,70	49,40	56,50	58,80

**MILLED HALF-ROUND FILES****2404G****TITAN****Orig. Titan - Art. 46**

With oblique milling. With tang and chip breaker.

Overall length	inches	10	10	12	12
Cut		B	1/2 D	B	1/2 D
<b>2404G</b>	Each	34,10	37,70	42,40	44,50

**MILLED FLAT FILES****2412G****TITAN****Orig. Titan - Art. 12**

With semicircular milling. Without tang, to be used with files holder Art. 2414.

With chip breaker.

Overall length	inches	10	10	12	12	14	14
Cut		B	1/2 D	B	1/2 D	B	1/2 D
<b>2412G</b>	Each	33,10	33,50	33,50	35,80	35,80	40,30

Art. 2412 G 10B and 12 1/2D running out of stock.

**HOLDER FOR MILLED FILES**

**Prod. SCU**

Made of steel, with 2 fastening screws. Suitable for flat files 2412 G.

For file length	inches	10	12	14
<b>2414</b>	<b>Each</b>	<b>16,80</b>	<b>18,70</b>	<b>22,50</b>

**SCU**

**2414**



**MILLED FILES FOR BODY SHOPS**

**Orig. Titan - Art. 11 F**

To be hooked on files holder Art. 2421 G. Flexible type for straight, convex or concave working.

Without chip breaker.

Length 12 inches (300mm).

Cut		B	1/2 D
<b>2419G</b>	<b>Each</b>	<b>34,10</b>	<b>36,30</b>

**TITAN**

**2419G**



To be hooked on files holder Art. 2422 G. Flexible type for straight, convex or concave working. Without chip breaker.

Length 14 inches (350mm).

Cut		B	1/2 D
<b>2420G</b>	<b>Each</b>	<b>38,30</b>	<b>43,90</b>

**TITAN**

**2420G**



**HOLDER FOR BODY SHOP FILES**

**Orig. Titan - Art. 91**

Suitable for flexible milled files Art. 2419 G.

Adjustable holder for straight, convex or concave milling.

Without file.

Overall length	mm	300
<b>2421G</b>	<b>Each</b>	<b>35,50</b>

**TITAN**

**2421G**



Suitable for flexible milled files Art. 2420 G.

Adjustable holder for straight, convex or concave milling.

Without file.

Overall length	mm	350
<b>2422G</b>	<b>Each</b>	<b>35,50</b>

**TITAN**

**2422G**



**BUNDLE FILES**

**Prod. SCU**

Flat type. First quality. Bastard file.

Deburring files	No	1	2	3
Overall length	mm	350	300	250
<b>2430</b>	<b>Each</b>	<b>14,10</b>	<b>18,20</b>	<b>21,10</b>

**SCU**

**2430**



Half-round type. First quality. Bastard file.

Deburring files	No	1	2	3
Overall length	mm	350	300	250
<b>2432</b>	<b>Each</b>	<b>21,10</b>	<b>28,10</b>	<b>30,80</b>

**SCU**

**2432**



**FILES FOR SOFT METALS**

**Orig. Hasen Feilen - Art. 1612 W**

Flat blunt bastard file.

Overall length	inches	10	12
<b>2434G</b>	<b>Each</b>	<b>10,90</b>	<b>16,80</b>



**2434G**



**Orig. Hasen Feilen - Art. 1652 W**

Half-round bastard file.

Overall length	inches	10	12
<b>2435G</b>	<b>Each</b>	<b>16,80</b>	<b>22,50</b>



**2435G**



### THREAD DRESSING FILES

2436GA  
2436GB  
2436GF  
2436GL



#### Orig. Hasen-Feilen

Suitable for dressing internal and external threads.

Suitable for Whitworth threads. Threads 24 - 20 - 18 - 16 - 14 - 12 - 11 - 10 per inch.

2436GA	Each	48,20
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Product description as Art. 2436GA

Suitable for metric screw threads. Pitches 0.8 - 1 - 1.25 - 1.5 - 1.75 - 2 - 2.5 - 3 mm.

2436GB	Each	48,20
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#### Orig. Hasen Feilen

Product description as Art. 2436GA

Suitable for UNF - UNC threads. Threads 24 - 20 - 18 - 16 - 14 - 13 - 12 - 11 per inch.

2436GF	Each	48,20
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Product description as Art. 2436GA

Suitable for gas threads. For diameters 1/8 - 1/4 - 3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1.

2436GL	Each	48,20
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### FILES FOR PLASTIC MATERIALS

2438GC

SCU



#### Prod. SCU

These special files - with bored cutting edges for chip removal - are suitable for filing and milling plastic materials and synthetic resins and also synthetic wood, wood coated with plastic, resin-bonded and pressed, soft metals, leather, synthetic rubber; specifically suitable for Formica and laminated plastics.

Bastard file.

To be used with file holder Art. 2440 G A-B.

Flat files with smooth edges. With 1 chip breaker.

Overall length	mm	260	400
2438GC	Each	12,20	16,30

2438GD

SCU



Product description as Art. 2438GC

Flat files with toothed edges. With 2 chip breakers.

Overall length	mm	260	400
2438GD	Each	13,20	17,10

### FILE HOLDER WITH HANDLE

2440GA

SCU



#### Prod. SCU

Suitable for files Art. 2438 G

With bent handle, without file.

For files length	mm	260
2440GA	Each	34,60

Product running out of stock.

2440GB

SCU



Product description as Art. 2440GA

With straight handle, without file.

For files length	mm	260	400
2440GB	Each	49,70	56,50

### CURVED WOOD RASPS

2441

SCU



#### Prod. SCU

Suitable for wood.

Length 200mm. Smooth cut.

Profiles		A	B	C	D	E	F	G
2441	Each	21,10	21,10	21,10	21,10	21,10	21,10	21,10

Profiles		H
2441	Each	21,10

**CURVED WOOD RASPS IN SETS**

**Prod. SCU**

Set of 8 curved rasps Art. 2441 A-B-C-D-E-F-G-H in plastic bag.

<b>2441P</b>	Per set	<b>133,00</b>
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**SCU**

**2441P**



**CURVED WOOD RASPS IN SETS**

**Orig. Hasen Feilen - Art. 1512 SBH**

With drilled plastic handgrip to be hooked on display panel. In bag.

Flat. First quality.

Overall length	inches	<b>8</b>	<b>8</b>	<b>10</b>	<b>10</b>
Cut		<b>B</b>	<b>1/2 D</b>	<b>B</b>	<b>1/2 D</b>
<b>2441S</b>	Each	<b>10,60</b>	<b>11,20</b>	<b>13,60</b>	<b>14,10</b>



**2441S**



**Orig. Hasen Feilen - Art. 1552 SBH**

Product description as Art. 2441S

Half-round. First quality.

Overall length	inches	<b>8</b>	<b>8</b>	<b>10</b>	<b>10</b>	<b>12</b>	<b>12</b>
Cut		<b>B</b>	<b>1/2 D</b>	<b>B</b>	<b>1/2 D</b>	<b>B</b>	<b>1/2 D</b>
<b>2441T</b>	Each	<b>12,60</b>	<b>13,60</b>	<b>15,10</b>	<b>16,90</b>	<b>19,40</b>	<b>21,00</b>



**2441T**



**Orig. Hasen Feilen - Art. 1562 SBH**

Product description as Art. 2441S

Round. First quality. Second-cut type.

Overall length	inches	<b>8</b>	<b>10</b>
<b>2441V</b>	Each	<b>10,80</b>	<b>12,10</b>



**2441V**



**WOOD RASPS**

**Prod. SCU**

Half-round. First quality.

Overall length	inches	<b>8</b>	<b>8</b>	<b>10</b>	<b>10</b>	<b>12</b>	<b>12</b>
Cut		<b>B</b>	<b>1/2 D</b>	<b>B</b>	<b>1/2 D</b>	<b>B</b>	<b>1/2 D</b>
<b>2442</b>	Each	<b>7,84</b>	<b>8,52</b>	<b>10,50</b>	<b>11,40</b>	<b>13,10</b>	<b>13,70</b>

**SCU**

**2442**



**Orig. Hasen Feilen - Art. 1512**

Flat. First quality.

Overall length	inches	<b>8</b>	<b>8</b>	<b>10</b>	<b>10</b>
Cut		<b>B</b>	<b>1/2D</b>	<b>B</b>	<b>1/2D</b>
<b>2442E</b>	Each	<b>9,46</b>	<b>9,82</b>	<b>12,30</b>	<b>13,20</b>



**2442E**



**Orig. Hasen Feilen - Art. 1552**

Half-round. First quality.

Overall length	inches	<b>8</b>	<b>8</b>	<b>10</b>	<b>10</b>	<b>12</b>	<b>12</b>
Cut		<b>B</b>	<b>1/2 D</b>	<b>B</b>	<b>1/2 D</b>	<b>B</b>	<b>1/2 D</b>
<b>2442G</b>	Each	<b>8,14</b>	<b>8,76</b>	<b>10,80</b>	<b>11,20</b>	<b>13,50</b>	<b>14,00</b>



**2442G**



**Prod. SCU**

Half-round. Cabinet shape. First quality. Second-cut.

Overall length	inches	<b>8</b>	<b>10</b>	<b>12</b>
<b>2444</b>	Each	<b>6,98</b>	<b>9,30</b>	<b>11,60</b>

**SCU**

**2444**



**Orig. Hasen Feilen - Art. 1558**

Product description as Art. 2444

Overall length	inches	<b>8</b>	<b>10</b>	<b>12</b>
<b>2444G</b>	Each	<b>9,80</b>	<b>12,20</b>	<b>15,30</b>



**2444G**



**Orig. Hasen Feilen - Art. 1562**

Round. First quality. Second-cut.

Overall length	inches	<b>8</b>	<b>10</b>
<b>2445G</b>	Each	<b>4,62</b>	<b>6,48</b>



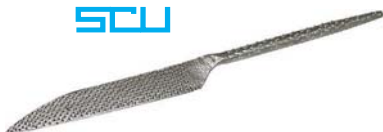
**2445G**



### KEY HOLE RASPS

2446

SCU

**Prod. SCU**

Combined. Round and flat. Quality first. Second cutting.

Overall length	mm	210
2446	Each	10,40

### HANDLES FOR FILES AND RASPS

2448

SCU

**Prod. SCU**

Made of hard wood, with brass-coated ring nut.

Overall length	mm	80	100	120	140	160
2448	Each	0,54	0,60	0,68	0,86	1,14

### ACCESSORIES FOR FILES

2448G

**Orig. Hasen Feilen - Art. 85PH**

Handles for needle files of all sizes.

Length	mm	80
2448G	Each	3,64

2449G

**Orig. Hasen Feilen - Art. 80KH-90KH-110KH-130KH**

Handles for files and rasps. Made of unbreakable plastic. With hole to be hung up.

For files and rasps	inches	3	4-6	8-10	12
Length	mm	90	90	110	120
2449G	Each	1,60	1,70	1,90	2,92

Art. 2449 G 3 is suitable for chain saw files Art. 2394 GA – B.

2451G

**Orig. Hasen Feilen - Art. FB 10040**

Professional cleaning brushes for files.

Size without handle: 100x40x20 mm.

2451G	Each	9,32
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For similar economical item see Art. 1845 S.

### HACK SAWS

2599

SCU

**Prod. SCU**

For saws with length 12 inches.

Fixed type. Cross head. Painted finish.

Polished wood handgrip.

2599	Each	8,40
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For hand saws see Art. 9563 G to 9565 GT.

2600

SCU



Product description as Art. 2599

Fixed strengthened type. Cross head. Painted finish.

Polished wood handgrip. Heavy-duty type.

2600	Each	8,82
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For hand saws see Art. 9563 G to 9565 GT.

2602

SCU



Product description as Art. 2599

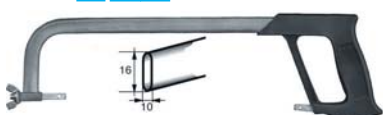
Patented type. Handy and heavy duty. With adjustable blade-tightening on the handgrip made of synthetic material. Painted finish. Made of drawn steel.

2602	Each	11,50
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For hand saws see Art. 9563 G to 9565 GT.

2608

SCU



Product description as Art. 2599

Fixed type in flat tube. Handgrip made of unbreakable ABS material, mounted on the hack saw metallic side. Lacquered finish.

2608	Each	7,96
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For hand saws see Art. 9563 G to 9565 GT.

2612

SCU



For saws with length 8 – 12 inches.

Adjustable type in flat tube. Cross head. Metallic handgrip. Lacquered finish.

2612	Each	10,10
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For hand saws see Art. 9563 G to 9565 GT.

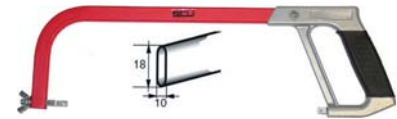
Product description as Art. 2612

Professional and adjustable type in flat tube. Handgrip made of soft synthetic material for comfortable and anti-slip hold. Cross head. Lacquered finish.

**2612E** Each **9,70**

For hand saws see Art. 9563 G to 9565 GT.

SCU



**2612E**

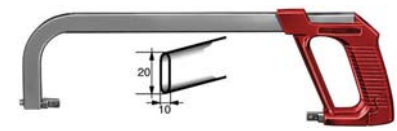
For saws with length 12 inches.

Professional fixed type in stout flat tube. Anatomic handgrip made of aluminium alloy. With adjustable blade-tightening through rotation of handgrip lower side. The blade may be set in 8 cutting positions. Lacquered finish.

**2613** Each **13,30**

For hand saws see Art. 9563 G to 9565 GT.

SCU



**2613**

Product description as Art. 2613

Super-professional fixed type in stout flat rigid tube. Anatomic handgrips made of aluminium alloy. With adjustable blade-tightening through rotation of handgrip lower side. The blade may be set in 6 cutting positions. Lacquered finish.

**2613E** Each **13,20**

For hand saws see Art. 9563 G to 9565 GT.

SCU



**2613E**

Product description as Art. 2613

Industrial, fixed, heavy-duty and ergonomic type, made of die-cast aluminium. Handle and hand rest coated with soft rubber for easier and more comfortable grip. Adjustable blade-tightening through rotation of the lower part of the handle. Rapid and precise cuts: 45°/90°.

**2613F** Each **19,20**

For hand saws see Art. 9563 G to 9565 GT.

SCU



**2613F**

**Orig. Peddinghaus - Art. 6309**

Product description as Art. 2613

Industrial type, fixed, particular sturdy, rigid (blade tension up to 190 Kg), ergonomic, made of special steel. Grip and hand rest in soft rubber for a better, more comfortable hold. Blade tension is adjusted by means of a knurled wheel, which sets the initial tension required. Quick lever locking/unlocking for subsequent blade replacement operations. Enables fast, precise cuts at 45°/90°. Supplied with 1 bi-metal blade with 24 teeth per inch.

**2613H** Each **36,20**

For hand saws see Art. 9563 G to 9565 GT.



**2613H**

**8**

**Prod. SCU**

Product description as Art. 2613

Industrial, fixed, heavy-duty, rigid, ergonomic type, double die-cast aluminium. Handle and hand rest coated with soft rubber for easier and more comfortable grip. Adjustable blade-tightening through knurled wheel to obtain the desired tightening. Rapid lever release/locking mechanism in the handle for later replacements of the blade. Rapid and precise cuts: 45°/90°.

**2613L** Each **46,40**

For hand saws see Art. 9563 G to 9565 GT.

SCU



**2613L**

**Orig. Carolus - Art. 9150.00**

Product description as Art. 2613

Professional type, with fixed bow in sturdy flat pipe, rigid, REVERSIBLE, for cuts even in hard-to-access areas. Grip in soft rubber for a better, more comfortable hold. Blade tension adjusted by turning the lower part of the handle. Enables fast, precise cuts at 0°/90°. Supplied with bi-metal blade with 24 teeth per inch.

**2613T** Each **30,60**

For hand saws see Art. 9563 G to 9565 GT.



**2613T**

**Prod. SCU**

Product description as Art. 2613

Fixed type with wide gauge. Height 235mm. Depth cut of objects of various sizes. Painted finish. Wooden handgrip.

**2614A** Each **10,60**

For hand saws see Art. 9563 G to 9565 GT.

SCU



**2614A**

### HOLDERS FOR SAWS

2615A

SCU



Prod. SCU

Sawing length of 12 inches.  
Suitable for cutting in awkward and confined spaces.  
Made from rigid reinforced plastic with ergonomic dual-component material.  
Includes clamping screws for the blades.  
Equipped with 1 dual metal blade with 18 teeth per inch.

2615A	Each	7,66
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For hand saws see Art. 9563 G to 9565 GT.

2615G



Orig. Peddinghaus - Art. 6314

Sawing length of 12 inches.  
Suitable for cutting in awkward and confined spaces.  
Made from rigid reinforced plastic with ergonomic dual-component material.  
Includes clamping screws for the blades.  
Equipped with 1 dual metal blade with 24 teeth per inch.

2615G	Each	15,30
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For hand saws see Art. 9563 G to 9565 GT.

### HACK SAWS FOR METAL AND WOOD

2630G

SCU



Prod. SCU

Sawing length of 8 inches.  
Professional model, fixed inside rugged flat driver tube. Handle made from sturdy plastic.  
Blade tension can be adjusted with knurled wheel.  
Comes complete with metal blade.

Overall length	mm	310
Blade length	mm	200

2630G	Each	8,68
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2631GA

SCU



UNIVERSAL

Professional replacement blades as per Art. 2630 G. For universal usage on iron, steel, plastics, etc.  
25 teeth per inch.

2631GA	Per dozen	7,58
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2631GB

SCU



STEEL

Professional replacement blades as per Art. 2630 G. For use on iron, high-strength steels, stainless steels, non-ferrous metals.  
32 teeth per inch.

2631GB	Per dozen	7,58
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2631GC

SCU



WOOD

Professional replacement blades as per Art. 2630 G. For use on soft and hard wood, chipboard, fibre, cardboard, soft plastics, etc.  
14 teeth per inch.

2631GC	Per dozen	6,26
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2642

SCU



Suitable for precision mechanics. Made of chromium plated steel rod. Fixed handgrip.  
With blade for metals.

Overall length	mm	250
Blade length	mm	150

2642	Each	0,94
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2643G

SCU



UNIVERSAL

Professional spare blades for Art. 2642 - 2644 G - 2647 G - 2647 GE - 2649. Universal use, on iron, steel, plastic, etc.. 25 teeth per inch.

2643G	Per dozen	7,14
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2643GA

SCU



STEEL

Professional spare blades for Art. 2642 - 2644 G - 2647 G - 2647 GE - 2649. For use on high resistance steels, stainless steel, non-ferrous metals. 32 teeth per inch.

2643GA	Per dozen	7,14
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Professional spare blades for Art. 2642 - 2644 G - 2647 G - 2647 GE - 2649. Use with soft and hard wood, hard-board, wooden fiber, paperboard, soft plastic etc. 14 teeth per inch.

**2643GB** Per dozen **5,92**



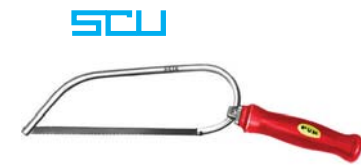
**2643GB**

Suitable for precision mechanics. Made of drawn steel rod, Fixed wooden handgrip. Mat chrome-plated finish.

With blade for metals.

Overall length mm 290  
Blade length mm 150

**2644G** Each **6,60**



**2644G**

Professional type, suitable for precision mechanics. Made of epoxy painted steel rod. Fixed pistol grip.

With blade for metals.

Overall length mm 230  
Blade length mm 150

**2647G** Each **3,92**



**2647G**

Professional type, suitable for precision mechanics. Made of epoxy painted steel rod. Additional handle made of synthetic material, for a safe and solid grip.

With blade for metals.

Overall length mm 230  
Blade length mm 150

**2647GE** Each **6,06**



**2647GE**

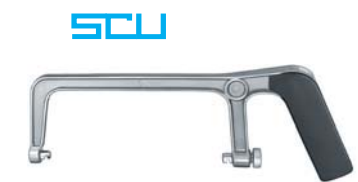
For similar VDE article see Art. 354 GF.

Professional type, suitable for precision mechanics. Made of steel, with anatomic handle to reduce shearing stress. 6-position adjustable blade. Lacquered finish.

Without blade.

Overall length mm 260  
Blade length mm 150

**2649** Each **7,10**



**2649**

**FRET SAW FRAMES**

**Prod. SCU**

Extra quality. In chromium plated bright steel. Diameter 13mm. Suitable for fret saws Art. 9538G to 9549G.

Overall length mm 300

**2650G** Each **5,78**



**2650G**

**8**



# Servizi Web Sicutool

## Ordini e spedizioni sempre sotto controllo

### INVIARE ORDINI ONLINE

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- [www.sicutool.it/SOL-Desktop](http://www.sicutool.it/SOL-Desktop)  
*Modulo Ordini per PC*
- [www.sicutool.it/SOL-web](http://www.sicutool.it/SOL-web)  
*Modulo Ordini per smartphone e tablet*
- [www.sicutool.it/catalogo-web](http://www.sicutool.it/catalogo-web)

Installate il modulo ordini SOL Desktop per ottimizzare l'invio di ordini dal vostro PC.  
Per ordinare online, anche da tablet e smartphone, utilizzate l'applicazione SOL Web o il Carrello del catalogo web Sicutool.

### CONSULTARE LO STATO DI AVANZAMENTO DI ORDINI E SPEDIZIONI

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- [www.sicutool.it/mySicu](http://www.sicutool.it/mySicu)

Accedete a MySicu per consultare lo stato di avanzamento di ordini e spedizioni, nonché i DDT. Tutte le informazioni sono aggiornate in tempo reale.

### SALVARE I LISTINI SICUTOOL

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- [www.sicutool.it/listini](http://www.sicutool.it/listini)

Il listino Sicutool Utensili 2015 è disponibile in formato Excel e TXT, pronto per essere caricato nel vostro sistema gestionale e nell'e-commerce.  
La stessa sezione propone anche i listini dei ricambi.

**All items are in sequence. It's very easy to find them!**

<p>Hammers Axes Blacksmith hammers Mallets</p>		<p>From <b>2660</b> To <b>2795</b></p>
<p>Panel beating tools Tools for sheets</p>		<p>From <b>2803T</b> To <b>2810T</b></p>
<p>Elastic pins Dise spring Spring plungers with thread Fixing plugs Magnets Fixing elements</p>		<p>From <b>2810Z</b> To <b>2834GM</b></p>
<p>Hand ad bench clamping vices Vices for workshop and for hydraulics Pipe stands Machine vices Anvils</p>		<p>From <b>2835GA</b> To <b>2885G</b></p>
<p>Scrapers for metals Chisels Punches Pin punches Tile cutters</p>		<p>From <b>2908G</b> To <b>2963G</b></p>
<p>Nail pullers Marking tools Crow bars</p>		<p>From <b>2992</b> To <b>3014G</b></p>
<p>Spades Shovels Pickaxe Billhooks</p>		<p>From <b>3018</b> A <b>3021G</b></p>
<p>Acid pens Steel marking punches Punches handles Zinc modules</p>		<p>From <b>3027A</b> To <b>3045B</b></p>
<p>Disk cutters Hole cutters Saws and hole saws</p>		<p>From <b>3074</b> To <b>3080GZ</b></p>
<p>Punching tools</p>		<p>From <b>3081</b> To <b>3090GR</b></p>

### GOLDSMITH'S HAMMERS

2660



Prod. SCU

In forged and hardened steel.  
Polished execution. Enamelled wooden handle.

Overall length	mm	80	90	100
Overall weight	grams	80	100	120
<b>2660</b>	<b>Each</b>	<b>19,40</b>	<b>24,70</b>	<b>24,70</b>

### UPHOLSTERER'S HAMMERS

2662



Prod. SCU

In forged and hardened steel.  
Hardwood handle with metal reinforcements. Hammer weight: 300g.

Head Ø	mm	8	11
<b>2662</b>	<b>Each</b>	<b>35,30</b>	<b>35,30</b>

### SADDLER'S HAMMERS

2664



Prod. SCU

In forged and hardened steel.  
Hardwood handle with metal reinforcements. Hammer weight: 300g.

<b>2664</b>	<b>Each</b>	<b>35,30</b>
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### GLAZIER'S HAMMERS

2666



Prod. SCU

In forged and hardened steel.  
Hardwood handle. Hammer weight: 120g.

<b>2666</b>	<b>Each</b>	<b>10,30</b>
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### TILER'S HAMMERS

2668GA



Orig. Peddinghaus - Art. 5270.12

In alloyed steel. Special hardening procedure of the working parts. Polished striking surface.  
1 square face and 1 cutting face.

Size		1	2
Weight without handle	grams	50	75
Overall weight	grams	70	95
Handles length	mm	300	300
<b>2668GA</b>	<b>Each</b>	<b>8,68</b>	<b>9,40</b>

### HAMMERS FOR ELECTRIC WELDERS

2670A



Prod. SCU

In forged steel. Fine execution.  
Horizontal peen and wooden handle.

<b>2670A</b>	<b>Each</b>	<b>6,02</b>
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2670B



Product description as Art. 2670A

Horizontal peen and steel handle.

<b>2670B</b>	<b>Each</b>	<b>5,12</b>
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2670C



Product description as Art. 2670A

Vertical peen and wooden handle.

<b>2670C</b>	<b>Each</b>	<b>5,86</b>
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**Orig. Peddinghaus - Art. 5095.02**

In forged steel, progressive hardening. Extra-fine execution.  
Horizontal peen and wooden handle.

<b>2670GA</b>	Each	<b>28,40</b>
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**2670GA**

**Orig. Peddinghaus - Art. 5096.02**

Product description as Art. 2670GA  
Vertical peen and wooden handle.

<b>2670GB</b>	Each	<b>22,30</b>
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**2670GB**

**Orig. Peddinghaus - Art. 5094.05**

Product description as Art. 2670GA  
Combination model. Steel tubing handle. Vertical peen.

<b>2670GC</b>	Each	<b>20,60</b>
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**2670GC**

**LOCKSMITH'S HAMMERS, FRENCH PATTERN**

**Prod. SCU**

In forged and hardened steel.  
Hardwood handle.  
Standard execution.

Overall weight	grams	<b>200</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>	<b>800</b>	<b>1000</b>	
<b>2700</b>	Each	<b>3,94</b>	<b>5,02</b>	<b>5,74</b>	<b>6,10</b>	<b>7,00</b>	<b>7,36</b>	<b>9,50</b>	
Overall weight	grams	<b>1500</b>							
<b>2700</b>	Each	<b>12,10</b>							



**2700**

**Orig. Peddinghaus - Art. 5029.02**

Top quality. In forged steel. Strongly hardened striking surface.  
Perfectly balanced. Polished wooden handle. The handle is indissolubly connected to the hammer body. Unbreakable and undeformable.

Overall weight	grams	<b>200</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>	<b>800</b>	<b>1000</b>
<b>2701G</b>	Each	<b>17,30</b>	<b>20,20</b>	<b>22,40</b>	<b>23,70</b>	<b>28,40</b>	<b>32,10</b>	<b>37,70</b>
Overall weight	grams	<b>1500</b>	<b>2000</b>					
<b>2701G</b>	Each	<b>50,30</b>	<b>65,10</b>					

Size grams 200 running out of stock.



**2701G**

**LOCKSMITH'S HAMMERS, GERMAN PATTERN**

**Prod. SCU**

DIN 1041  
Forged and hardened steel.  
Hardwood handle.  
Standard quality.

Overall weight	grams	<b>100</b>	<b>200</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>	<b>800</b>
<b>2702</b>	Each	<b>2,52</b>	<b>3,16</b>	<b>4,02</b>	<b>4,66</b>	<b>5,38</b>	<b>6,10</b>	<b>7,36</b>
Overall weight	grams	<b>1000</b>	<b>1500</b>					
<b>2702</b>	Each	<b>8,44</b>	<b>11,30</b>					



**2702**

DIN 1041

Forged and hardened steel.  
Anatomic hardwood handle.  
First quality.

Overall weight	grams	<b>100</b>	<b>200</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>	<b>800</b>
<b>2702F</b>	Each	<b>5,94</b>	<b>6,38</b>	<b>7,48</b>	<b>8,48</b>	<b>9,28</b>	<b>10,90</b>	<b>13,30</b>
Overall weight	grams	<b>1000</b>	<b>1500</b>	<b>2000</b>				
<b>2702F</b>	Each	<b>15,10</b>	<b>18,50</b>	<b>22,20</b>				

Spare handles for Art. 2702 F.

For hammers weight	grams	<b>100</b>	<b>200</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>	<b>800</b>
<b>O2702L</b>	Each	<b>2,52</b>	<b>2,60</b>	<b>2,72</b>	<b>2,84</b>	<b>3,00</b>	<b>3,12</b>	<b>3,34</b>
For hammers weight	grams	<b>1000</b>	<b>1500</b>	<b>2000</b>				
<b>O2702L</b>	Each	<b>3,44</b>	<b>3,76</b>	<b>4,18</b>				



**2702F**

**2702G**  
**2702GR**  
**2702GT**

**GEDORE**



**Orig. Gedore-DIN 1041 - Art. 4 E**

In forged steel. Differentiated hardening treatment. Milled striking surface, strongly hardened. Perfectly balanced. Ash wood handle, anatomic-shaped. The handle is indissolubly connected with the hammer body.

Overall weight	grams	<b>100</b>	<b>200</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>	<b>800</b>
Handles length	mm	260	280	300	310	320	330	350
<b>2702G</b>	<b>Each</b>	<b>17,40</b>	<b>17,40</b>	<b>19,50</b>	<b>21,20</b>	<b>22,60</b>	<b>26,80</b>	<b>30,80</b>

Overall weight	grams	<b>1000</b>	<b>1500</b>	<b>2000</b>
Handles length	mm	360	380	400
<b>2702G</b>	<b>Each</b>	<b>36,10</b>	<b>47,40</b>	<b>61,10</b>

Spare handles for Art. 2702 G.

For hammers weight	grams	<b>100</b>	<b>200</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>	<b>800</b>
Handles length	mm	260	280	300	310	320	330	350
<b>2702GR</b>	<b>Each</b>	<b>3,36</b>	<b>3,36</b>	<b>4,36</b>	<b>4,46</b>	<b>4,66</b>	<b>5,94</b>	<b>6,46</b>

For hammers weight	grams	<b>1000</b>	<b>1500</b>	<b>2000</b>
Handles length	mm	360	380	400
<b>2702GR</b>	<b>Each</b>	<b>6,66</b>	<b>7,16</b>	<b>7,64</b>

Spare handle wedges for Art. 2702 G.

For hammers weight	grams	<b>100</b>	<b>200</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>	<b>800</b>
<b>2702GT</b>	<b>Each</b>	<b>1,64</b>	<b>1,64</b>	<b>1,82</b>	<b>1,94</b>	<b>2,02</b>	<b>2,12</b>	<b>2,24</b>

For hammers weight	grams	<b>1000</b>	<b>1500</b>	<b>2000</b>
<b>2702GT</b>	<b>Each</b>	<b>2,24</b>	<b>2,44</b>	<b>2,52</b>

**2703G**  
**2703GR**  
**2703GT**

**PEDDINGHAUS**  
HARDWARE



**Orig. Peddinghaus-DIN 1041 - Art. 5039.02**

In forged steel. Differentiated hardening treatment. Milled striking surface, strongly hardened. Perfectly balanced. Ash wood handle, anatomi-shaped. The handle is indissolubly connected with the hammer body.

Overall weight	grams	<b>50</b>	<b>100</b>	<b>200</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>
Handles length	mm	250	260	280	300	310	320	330
<b>2703G</b>	<b>Each</b>	<b>14,70</b>	<b>14,70</b>	<b>14,70</b>	<b>15,90</b>	<b>17,70</b>	<b>18,50</b>	<b>22,20</b>

Overall weight	grams	<b>800</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
Handles length	mm	350	360	380	400
<b>2703G</b>	<b>Each</b>	<b>24,90</b>	<b>29,40</b>	<b>39,40</b>	<b>50,50</b>

Spare handles for Art. 2703 G.

For hammers weight	grams	<b>50</b>	<b>100</b>	<b>200</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>
Handles length	mm	250	260	280	300	320	320	330
<b>2703GR</b>	<b>Each</b>	<b>3,24</b>	<b>3,40</b>	<b>3,40</b>	<b>4,14</b>	<b>4,14</b>	<b>4,14</b>	<b>4,70</b>

For hammers weight	grams	<b>800</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
Handles length	mm	350	360	380	400
<b>2703GR</b>	<b>Each</b>	<b>4,70</b>	<b>4,86</b>	<b>5,42</b>	<b>5,76</b>

Spare wedges for Art. 2703 G.

For hammers weight	grams	<b>50</b>	<b>100</b>	<b>200</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>
<b>2703GT</b>	<b>Each</b>	<b>0,58</b>	<b>0,58</b>	<b>0,58</b>	<b>0,72</b>	<b>0,72</b>	<b>0,72</b>	<b>0,72</b>

For hammers weight	grams	<b>800</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
<b>2703GT</b>	<b>Each</b>	<b>0,72</b>	<b>0,72</b>	<b>0,98</b>	<b>0,98</b>

**LOCKSMITH'S HAMMERS, "INDU" MODEL**

**2704GA**

**GEDORE**



**Orig. Gedore-DIN 1041 - Art. 4 IH**

Antichipping. In forged steel. Differentiated hardening of striking surface with working surface electric-induction treatment. di lavoro.

Two areas having different hardness:

- hard core (HRC 52-58)
- soft external surface (HRC 42-48).

This allows max. protection against chipping.

Hickory handle, anatomic-shaped.

Overall weight	grams	<b>500</b>	<b>1500</b>	<b>2000</b>
<b>2704GA</b>	<b>Each</b>	<b>30,50</b>	<b>59,70</b>	<b>78,40</b>

Product running out of stock.

**LOCKSMITH'S HAMMERS, GERMAN PATTERN "ROT BAND-PLUS"**

**Orig. Gedore-DIN 1041 - Art. 600 H**

Patented model.

In special forged steel. Differentiated hardening treatment. Strongly hardened striking surface. Hickory handle, anatomic-shaped. The tapered collar in hardened steel, fixing plate and screw bond the hammer head and the handle into one unit to provide safest working conditions.

Standard differentiated hardening treatment of hammer head.

Overall weight	grams	200	300	400	500	600	800	1000
<b>2705GA</b>	<b>Each</b>	<b>25,80</b>	<b>25,80</b>	<b>28,30</b>	<b>29,90</b>	<b>36,50</b>	<b>39,80</b>	<b>47,80</b>

Overall weight	grams	1500	2000
<b>2705GA</b>	<b>Each</b>	<b>60,70</b>	<b>77,60</b>



**2705GA**



**Orig. Gedore-DIN 1041 - Art. 600 IH**

Product description as Art. 2705GA

Differentiated hardening of hammer head with electroinductive treatment of striking surface. Max. protection against chipping (INDU).

Overall weight	grams	200	300	400	500	600	800	1000
<b>2705GB</b>	<b>Each</b>	<b>28,20</b>	<b>30,40</b>	<b>33,90</b>	<b>36,10</b>	<b>40,80</b>	<b>47,80</b>	<b>57,10</b>

Overall weight	grams	1500	2000
<b>2705GB</b>	<b>Each</b>	<b>72,50</b>	<b>85,60</b>



**2705GB**



Spare handles for Art. 2705 GA and 2705 GB.

For hammers weight	grams	200	300	400	500	600	800	1000
<b>2705GE</b>	<b>Each</b>	<b>9,26</b>	<b>11,30</b>	<b>11,60</b>	<b>12,30</b>	<b>14,10</b>	<b>15,10</b>	<b>17,60</b>

For hammers weight	grams	1500	2000
<b>2705GE</b>	<b>Each</b>	<b>19,70</b>	<b>22,10</b>



**2705GE**



**LOCKSMITH'S HAMMERS, GERMAN PATTERN, WITH COLLAR**

**Orig. Peddinghaus-DIN 1041 - Art. 5039.93**

In forged steel. Strongly hardened striking surface. Perfectly balanced.

Anatomic handle. Reinforced metal collar to bond the hammer head and the handle into one unit to provide safest working conditions.

Type with standard differentially hardened head and Hickory wood handle.

Overall weight	grams	200	300	500	800	1000	1500	2000
<b>2705GL</b>	<b>Each</b>	<b>20,10</b>	<b>21,90</b>	<b>25,80</b>	<b>33,60</b>	<b>38,80</b>	<b>49,50</b>	<b>63,20</b>



**2705GL**



**Orig. Peddinghaus-DIN 1041 - Art. 5042.93**

Product description as Art. 2705GL

Differentiated hardening of hammer head with electroinductive treatment of striking surface. Max. protection against chipping (INDU). Hickory handle.

Overall weight	grams	200	800	1500	2000
<b>2705GM</b>	<b>Each</b>	<b>22,10</b>	<b>36,50</b>	<b>55,30</b>	<b>73,10</b>

Product running out of stock.



**2705GM**



**LOCKSMITH'S HAMMERS WITH ULTRAMID-HANDLE, GERMAN PATTERN**

**Orig. Peddinghaus-DIN 1041 - Art. 5039.04**

In forged steel. Differentiated hardening treatment. Hardened striking surface.

Matt handle, anatomic-shaped for a higher grip.

Small holes on this surface avoid slipping even in oily and greasy conditions.

Ultramid-handle, unbreakable, tested and guaranteed against breakage, even if submitted to extreme loads.

Insensitive to temperature variation.

It does not alter even in presence of oils or petrol. Electrically insulated.

Overall weight	grams	200	300	500	800	1000
<b>2705GR</b>	<b>Each</b>	<b>18,70</b>	<b>20,80</b>	<b>24,70</b>	<b>32,60</b>	<b>38,30</b>

Only handles for wedges for Art. 2705 GR.

For hammers weight	grams	200	300	500	800	1000
<b>2705GS</b>	<b>Each</b>	<b>8,26</b>	<b>9,24</b>	<b>11,20</b>	<b>14,90</b>	<b>17,10</b>



**2705GR**  
**2705GS**



**LOCKSMITH'S HAMMERS WITH STEEL HANDLE, GERMAN PATTERN**

**Orig. Gedore - Art. 500 ST**

In forged steel. Hardened striking surface with differentiated hardening treatment.

Handle in steel tubing with anatomic grip in soft synthetic material.

Overall weight	grams	300	500
<b>2705GT</b>	<b>Each</b>	<b>27,90</b>	<b>27,90</b>



**2705GT**



**LOCKSMITH'S HAMMERS, GERMAN PATTERN, WITH FIBRE SHAFT**

**2705GTE**



**Prod. SCU-DIN 1041**

In forged and hardened steel. Tightly fixed, unbreakable handle with fiberglass core covered with synthetic anti-slip material.

Overall weight	grams	200	300	400	500	800	1000
<b>2705GTE</b>	Each	4,30	5,20	5,74	6,82	8,80	10,10

**2705GTL**



**Orig. Gedore - Art. 500 F**

In forged steel. Differential hardening. Swinging parts have been strongly hardened. Irremovable handle made from shatterproof glass fibre, covered in synthetic non-slip material. Special head sealing system which protects against possible cuts in the handle fibres thanks to its hardened steel collar.

Overall weight	grams	200	300	400	500	600	800	1000
<b>2705GTL</b>	Each	44,50	46,90	51,20	54,20	57,70	67,10	75,20

Overall weight	grams	1500	2000
<b>2705GTL</b>	Each	87,70	114,00

**LOCKSMITH'S HAMMERS WITH ULTRATEC-HANDLE, GERMAN PATTERN**

**2705GVA**



**Orig. Peddinghaus-DIN 1041 - Art. 5039.98**

In forged steel. Differentiated hardening treatment. Strongly hardened striking surface. Tightly fixed, unbreakable handle with fiberglass core covered with special soft synthetic material (ULTRATEC), anatomic-shaped.

Standard differentiated hardening treatment of hammer head. Ash wood handle.

Overall weight	grams	200	300	500	800	1000	1500	2000
<b>2705GVA</b>	Each	23,40	25,80	30,50	40,60	48,10	61,50	79,30

**2705GVB**



**Orig. Peddinghaus-DIN 1041 - Art. 5042.98**

Product description as Art. 2705GVA

Differentiated hardening of hammer head with electroinductive treatment of striking surface. Max. protection against chipping (INDU).

Overall weight	grams	200	300	500	800	1000	1500	2000
<b>2705GVB</b>	Each	26,80	29,80	36,30	40,90	57,10	73,80	94,90

**LOCKSMITH'S HAMMERS, GERMAN PATTERN, WITH THREE COMPONENTS HANDLES**

**2705GVE**



**Prod. SCU-DIN 1041**

In forged and hardened steel. Tightly fixed, unbreakable 3-component handle with fiberglass core covered with special synthetic material and soft rubber. It ensures max. sturdiness, resistance, lightness and elasticity. High vibration absorption capacity. Oil-proof. Lubricant and acid resistant. With hung-up hole.

Overall weight	grams	200	300	500	800	1000	1500	2000
<b>2705GVE</b>	Each	6,82	7,50	10,60	12,80	14,90	20,50	27,70

The measurement 2000g is Orig. Cados-Peddinghaus.

**SOFT FACE CAPS**

**2705GZ**



**Orig. Peddinghaus - Art. 5038.01**

For hammers for mechanics from Art. 2702 G to Art. 2705 GVB.

They do not dent and are unbreakable.

For hammers weight	grams	300	500	800	1000
<b>2705GZ</b>	Each	7,54	11,80	14,10	18,30

**ENGINEERS' HAMMERS**

**2706**



**Prod. SCU**

Made from forged, hardened steel.

Hardwood handle.

Overall weight	grams	200	300	400	500	600	800	1000
<b>2706</b>	Each	7,96	8,62	9,78	10,10	11,20	13,30	15,40

**2707G**



**Orig. Peddinghaus - Art. 5081.03**

Made from forged steel. Extra quality. Hardened and tempered striking surfaces.

Unbendable and unbreakable. Hickory handle, anatomically shaped.

With 1 ball striking face.

Overall weight	grams	225	340	450	500	675	900
<b>2707G</b>	Each	24,30	25,60	27,60	28,10	33,70	36,20



**COPPER MALLETS**
**Prod. SCU**

In copper. Hardwood handle, anatomic-shaped.

Overall weight	grams	200	300	400	500	600	800	1000
<b>2716</b>	<b>Each</b>	9,54	14,40	19,10	23,90	28,70	38,20	47,70

Overall weight	grams	1500	2000
<b>2716</b>	<b>Each</b>	71,60	95,40


**2716**


In copper. Pinned head on hardwood handle, anatomic-shaped.

Overall weight	grams	200	300	400	500	600	800	1000
<b>2717</b>	<b>Each</b>	10,60	15,80	21,10	26,50	32,10	42,50	52,90

Overall weight	grams	1500	2000
<b>2717</b>	<b>Each</b>	81,10	109,00


**2717**

SCU



In copper. Steel handle with accident-prevention fastening system.

Overall weight	grams	300	500	800	1000	1500	2000	5000
<b>2718</b>	<b>Each</b>	17,50	24,70	35,30	39,40	59,60	71,90	181,00


**2718**

SCU


**COPPER MALLETS "ROT BAND-PLUS"**
**Orig. Gedore - Art. 622 H**

In copper, with Hickory handle, anatomic-shaped.

The tapered collar in hardened steel, fixing plate and screw bond the hammer head and the handle into one unit to provide safest working conditions.

Overall weight	grams	750	1000	1500	2000
<b>2719G</b>	<b>Each</b>	116,00	152,00	204,00	261,00


**2719G**

GEDORE


**CLAW HAMMERS**
**Prod. SCU**

In forged and hardened steel. Hardwood handle.

Metal reinforcements. Standard quality.

Overall weight	grams	200	300	400	500
<b>2720</b>	<b>Each</b>	8,82	9,56	10,10	10,90


**2720**

SCU


**Orig. Peddinghaus - Art. 5118.33**

Top quality. In forged steel. Striking surface strongly hardened.

Perfectly balanced. Hickory handle.

The handle is indissolubly connected to the hammer body.

Overall weight	grams	450	560
<b>2728G</b>	<b>Each</b>	32,10	34,10


**2728G**

 PEDDINGHAUS  
HANDWERKZEUGE

**Orig. Cados-Peddinghaus - Art. 0211350016/20**

In forged steel. Hardened striking surface.

Steel tubing handle, grip in soft synthetic material, anatomic-shaped.

Finely-polished head.

Overall weight	grams	450	560
<b>2730G</b>	<b>Each</b>	24,40	24,40


**2730G**

**MASON'S HAMMERS**
**Prod. SCU**

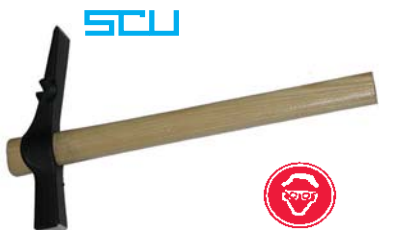
In forged steel. Hardened striking surface.

Hardwood handle.

Square striking face, horizontal peen and slot for nail removal.

Weight: 600g.

<b>2732</b>	<b>Each</b>	12,10
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**2732**

SCU



**2732A** SCU

Product description as Art. 2732  
Square striking face and horizontal peen.

Overall weight	grams	400	500	600
<b>2732A</b>	Each	7,18	8,26	9,32

**2732B** SCU

Product description as Art. 2732  
MALEPEGGIO  
Combination peen model: 1 horizontal and 1 vertical.

Overall weight	grams	400	500	600
<b>2732B</b>	Each	7,18	8,26	9,32

**2732E** SCU

Product description as Art. 2732  
CATANIA  
Pointed striking face and horizontal peen.

Overall weight	grams	400	500
<b>2732E</b>	Each	7,18	9,32

**2733G** PEDDINGHAUS

**Orig. Peddinghaus - Art. 5235. 05**  
Model with square striking face and horizontal peen.  
In forged steel. Hardened striking surface.  
Steel tubing handle with anatomic grip in soft synthetic material. Weight: 600g.

<b>2733G</b>	Each	32,10
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**BUSH HAMMERS****2735L** SCU

**Prod. SCU**  
In forged and hardened steel.  
Additionally hardened striking surface.  
Ash wood handle.

Overall weight	grams	1000
<b>2735L</b>	Each	29,60

**CARPENTER'S HAMMERS****2736B** SCU

**Prod. SCU**  
In forged steel. With nail slot.  
Wooden handle.

Overall weight	grams	300	400	500	600
<b>2736B</b>	Each	6,82	7,72	8,26	10,80

Spare handles for Art. 2736 B.

For hammers weight	grams	300	400	500	600
<b>O2736C</b>	Each	2,34	2,34	2,34	2,34

**2736F** SCU

In forged steel. With nail slot.  
Handle in synthetic material with fiberglass reinforcement.

Overall weight	grams	300	400	500
<b>2736F</b>	Each	10,10	10,80	11,50

Spare handles on request.

**CARPENTER'S HAMMERS WITH THREE COMPONENTS HANDLES**

**Prod. SCU**

In forged steel. With magnetic nail slot.  
Tightly fixed, unbreakable 3-component handle with fiberglass core covered with special synthetic material and soft rubber. It ensures max. sturdiness, resistance, lightness and elasticity. High vibration absorption capacity. Oil-proof. Lubricant and acid resistant. With hung-up hole.

Overall weight	grams	300	400
<b>2736FE</b>	Each	15,60	16,50



**2736FE**

**CARPENTER'S HAMMERS**

**Orig. Cados-Peddinghaus - Art. 0231250001**

In forged steel. Hardened striking surface.  
Steel tubing handle with anatomic grip in soft synthetic material.  
Pinned head with nail slot, black lacquered. Weight: 600g.

<b>2736GA</b>	Each	13,10
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**2736GA**

**Orig. Cados-Peddinghaus - Art. 023025001**

In forged steel. Hardened striking surface.  
Steel tubing handle with anatomic grip in soft synthetic material.  
Pinned head with nail slot. Weight: 700g.

<b>2736GB</b>	Each	18,80
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**2736GB**

**Orig. Peddinghaus - Art. 5128.29**

In forged steel. Hardened striking surface.  
Tightly fixed, unbreakable handle with fiberglass core covered with special soft synthetic material, anatomic-shaped.  
Head with magnetic nail slot, black lacquered. Weight: 600g.

<b>2736GE</b>	Each	43,50
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**2736GE**

**Orig. Peddinghaus - Art. 5130.09**

Super-professional type.  
Completely made of forged steel. Hardened, milled and polished striking parts. Anatomic handle made of special soft rubber for a safe and comfortable grip.  
Head with magnetic nail-holder, polished. Weight 900 g.

<b>2736GF</b>	Each	67,60
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**2736GF**

**PLASTERER'S HAMMERS**

**Orig. Gedore - Art. 93 ST**

In forged steel. Combined with axes Strongly hardened working parts.  
Unbreakable, indeformable. With nail slot.  
Steel tubing tightly fixed handle, chrome plated.  
Grip in soft synthetic material.  
Overall weight: approx. 600g.

<b>2739GA</b>	Each	32,70
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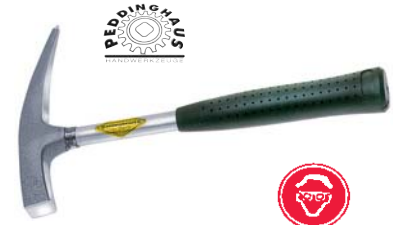
**2739GA**

**GEOLOGIST'S HAMMERS**

**Orig. Peddinghaus - Art. 5152.05**

Pointed model.  
In forged and hardened steel.  
To take rocks or minerals samples.  
Steel tubing grip coated with soft synthetic material.

Overall weight	grams	500
<b>2739GE</b>	Each	116,00



**2739GE**

When stocks run out an identical Gedore model will be delivered.

**BELT HAMMER-HOLDERS**

2739GT




Prod. SCU

Steel ring universal type with support made of high-resistant polyester. For belt max height 40mm. Tool-holder ring width 70mm.

2739GT	Each	6,00
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**HATCHETS**

2740A




Prod. SCU

In special steel, hardened. Hardwood handle. Sharpened edges.

Overall weight	grams	600	700	800
2740A	Each	10,80	11,90	13,10

2740E




In special steel, hardened.

Hardwood handle, long pattern. Sharpened edges.

Overall weight	grams	1500
Overall length	mm	800
2740E	Each	20,80

**HATCHETS WITH THREE COMPONENTS HANDLES**

2740ET




Prod. SCU

In special steel, hardened. Tightly fixed, unbreakable 3-component handle with fiberglass core covered with special synthetic material and soft rubber. It ensures max. sturdiness, resistance, lightness and elasticity. High vibration absorption capacity. Oil-proof. Lubricant and acid resistant. With hung-up hole. Sharpened edges.

Overall weight	grams	600
Overall length	mm	345
2740ET	Each	12,80

**UNIVERSAL HATCHETS**

2740GF




Orig. Ochsenkopf-Dankre - DIN 5131 - Art. 232 H

Extra top quality. In C60 special steel, hardened. Finely sharpened edges. With German safety approval. Ash handle, anatomically shaped.

Overall weight	grams	600	800	1000
2740GF	Each	26,70	29,40	32,50

2740GL




Orig. Ochsenkopf-Dankre - DIN 7294 - Art. 205 H

Product description as Art. 2740GF. Long ash handle, anatomically shaped.

Overall weight	grams	1000	1250	1600
Overall length	mm	600	700	800
2740GL	Each	39,90	43,40	50,90

**CARPENTER'S HATCHETS**

2740GM




Orig. Ochsenkopf - Art. 345

Top quality. In C45 forged steel, hardened. Sharpened cutting edge, with nail slot. Hickory handle, anatomic-shaped.

Overall weight	grams	1100
Overall length	mm	400
2740GM	Each	116,00

**FIRE BRIGADE HATCHETS**

**Orig. Peddinghaus-DIN 14924 - Art. 5266.05**

In forged steel with special hardening treatment for an intense but accident-free use. Slotted-peen. Tightly fixed steel tubing handle coated with soft synthetic material.

Overall weight	grams	1000
Overall length	mm	320
<b>2740GP</b>	<b>Each</b>	<b>53,50</b>

Leather sheath for Art. 2740 GP.

<b>O2740GP</b>	<b>Each</b>	<b>35,70</b>
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**2740GP**

**Orig. Peddinghaus-DIN 14900 - Art. 5265.02**

In forged steel with special hardening treatment for an intensive but accident-free use. Slotted peen.

Natural ash wood handle with sheet steel reinforcements and safety pins.

Overall weight	grams	2350
Overall length	mm	900
<b>2741G</b>	<b>Each</b>	<b>79,40</b>



**2741G**

**SPLITTING AXES**

**Orig. Ochsenkopf-Dankre - Art. 39E**

Top quality. In C45 forged steel, hardened.

Sharpened cutting edge, ground striking surface. Ash wood handle with 3-wedges fastening system.

Overall weight	grams	3000
Overall length	mm	850
<b>2745G</b>	<b>Each</b>	<b>48,60</b>



**2745G**

**WOOD SPLITTING WEDGES**

**Orig. Ochsenkopf - Art. 40**

Top quality. In forged steel, hardened.

With guide tray.

Overall weight	grams	2000	3000
Dimensions	mm	260 x 50	270 x 54
<b>2746G</b>	<b>Each</b>	<b>26,10</b>	<b>34,50</b>



**2746G**

**Orig. Ochsenkopf - Art. 42**

Top quality. In aluminium alloy, hardened.

Guide trays on one side and diagonally-arranged cavities on the other. Anti-corrosion, highly practical and safe.

Overall weight	grams	550	1050
Dimensions	mm	215 x 45	260 x 55
<b>2747G</b>	<b>Each</b>	<b>32,90</b>	<b>46,30</b>



**2747G**

**DOUBLE FACE BLACKSMITH HAMMERS**

**Prod. SCU**

Double flat head model. In forged steel. Hardened striking surface.

Polished hardwood handle.

Weight mallet only	Kg	0,8	1	1,2	1,5	2
<b>2760</b>	<b>Each</b>	<b>7,06</b>	<b>8,54</b>	<b>9,50</b>	<b>12,60</b>	<b>15,30</b>



**2760**

**Orig. Gedore - DIN 6475 - Art. 20 E**

Double flat head model.

Top quality. In forged steel with differentiated hardening treatment. Strongly hardened striking surface.

Perfectly balanced. The handle is indissolubly connected to the hammer body.

Ash wood handle.

Weight mallet only	Kg	1	1,25	1,5	2
Handles length	mm	260	260	280	300
<b>2761G</b>	<b>Each</b>	<b>28,80</b>	<b>29,90</b>	<b>32,10</b>	<b>41,30</b>



**2761G**

Spare handles for Art. 2761 G.

For mallets weight	Kg	1	1,25	1,5	2
Handles length	mm	260	260	280	300
<b>O2761GA</b>	<b>Each</b>	<b>4,54</b>	<b>4,54</b>	<b>4,88</b>	<b>6,66</b>

2762G

**Orig. Peddinghaus - DIN 6475 - Art. 5293.02**

Double flat head model.

Top quality. In forged steel with differentiated hardening treatment. Strongly hardened striking surface.

Perfectly balanced. The handle is indissolubly connected to the hammer body.

Ash wood handle.

Weight mallet only	Kg	1	1,25	1,5	2
Handles length	mm	260	260	280	300
<b>2762G</b>	<b>Each</b>	<b>24,60</b>	<b>25,60</b>	<b>27,50</b>	<b>35,70</b>

Spare handles for Art. 2762 G.

For mallets weight	Kg	1	1,25	1,5	2
Handles length	mm	260	260	280	300
<b>O2762GA</b>	<b>Each</b>	<b>4,54</b>	<b>4,54</b>	<b>5,02</b>	<b>5,92</b>

### DOUBLE FACE BLACKSMITH HAMMERS "ROTBAND"

2765G

**Orig. Gedore - Art. 620 E**

Double-flat head model.

In special forged steel with differentiated hardening treatment.

Strongly hardened striking surface. Ash wood handle.

The tapered collar in hardened steel, fixing plate and screw bond the hammer head and the handle into one unit to provide safest working conditions.

Weight mallet only	Kg	1	1,25	1,5	2
Handles length	mm	260	260	280	300
<b>2765G</b>	<b>Each</b>	<b>33,20</b>	<b>34,70</b>	<b>36,50</b>	<b>47,00</b>

### DOUBLE FACE BLACKSMITH HAMMERS WITH STEEL HANDLE

2765GE

**Orig. Gedore - Art. 20 ST**

Double flat head model.

In CHROME VANADIUM steel with differentiated hardening treatment.

Strongly hardened striking surface. Steel tubing handle with anatomic grip in soft synthetic material.

Weight mallet only	Kg	1	1,25
Handles length	mm	260	260
<b>2765GE</b>	<b>Each</b>	<b>30,10</b>	<b>30,10</b>

### DOUBLE FACE BLACKSMITH HAMMERS WITH FIBER GLASS HANDLE

2766

**Prod. SCU**

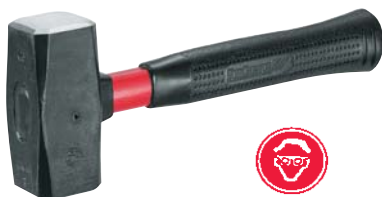
Double flat head model.

In forged steel. Hardened striking surface.

Handle in synthetic material with glassfiber reinforcement.

Weight mallet only	Kg	0,8	1	1,25	1,5	2
<b>2766</b>	<b>Each</b>	<b>9,50</b>	<b>10,80</b>	<b>12,20</b>	<b>14,10</b>	<b>16,20</b>

2766G

**Orig. Gedore - DIN 6475 - Art. 20 F**

Double flat head model.

Top quality. In forged steel with differentiated hardening treatment.

Strongly hardened striking surface. The handle is indissolubly connected to the hammer body.

Safety handle in unbreakable glass fiber.

Grip coated with soft synthetic material.

Weight mallet only	Kg	1	1,25	1,5	2
Handles length	mm	260	260	280	300
<b>2766G</b>	<b>Each</b>	<b>68,90</b>	<b>69,80</b>	<b>73,50</b>	<b>84,20</b>

### DOUBLE FACE BLACKSMITH HAMMERS WITH ULTRATEC HANDLE

2767GE

**Orig. Peddinghaus - DIN 6475 - Art. 5293.98**

Double flat head model.

Top quality. In forged steel with differentiated hardening treatment. Perfectly balanced.

The handle is indissolubly connected to the hammer body.

Tightly fixed, unbreakable handle with fiberglass core covered with special soft synthetic material (ULTRATEC)

Weight mallet only	Kg	1	1,25	1,5	2
Handles length	mm	260	260	260	260
<b>2767GE</b>	<b>Each</b>	<b>37,40</b>	<b>37,70</b>	<b>41,70</b>	<b>52,70</b>

**DOUBLE FACE BLACKSMITH HAMMERS WITH THREE COMPONENTS HANDLES**

**Prod. SCU**

Double flat head model.

In forged steel. Hardened striking surfaces. Tightly fixed, unbreakable 3-component handle with fiberglass core covered with special synthetic material and soft rubber. It ensures max. sturdiness, resistance, lightness and elasticity. High vibration absorption capacity. Oil-proof. Lubricant and acid resistant. With hung-up hole.

Weight mallet only	Kg	0,8	1	1,25	1,5	2
Handles length	mm	280	280	280	265	265
<b>2767H</b>	<b>Each</b>	<b>12,10</b>	<b>13,30</b>	<b>15,20</b>	<b>21,20</b>	<b>23,40</b>

The measurements Kg 1.5 and 2 are Orig. Cados-Peddinghaus.



**2767H**



**SLEDGE HAMMERS**

**Prod. SCU**

In forged and hardened steel.

Standard finish.

Without handle.

Overall weight	Kg	3	4	5
<b>2767L</b>	<b>Each</b>	<b>15,70</b>	<b>20,60</b>	<b>26,10</b>



**2767L**



Product description as Art. 2767L

With handle.

Overall weight	Kg	3	4	5
<b>2767P</b>	<b>Each</b>	<b>24,80</b>	<b>30,20</b>	<b>35,50</b>

Spare handles for Art. 2767 L and 2767 P.

For mallets weight	Kg	3	4	5
<b>O2767P</b>	<b>Each</b>	<b>7,90</b>	<b>7,90</b>	<b>7,90</b>



**2767P**



**SLEDGE HAMMERS WITH HANDLE**

**Orig. Gedore - DIN 6475 - Art. 20 E**

Top quality. In forged steel.

Differentiated hardening treatment. Strongly hardened striking surface.

Perfectly balanced. The handle is indissolubly connected to the sledge hammer body. Handle fastening through double backstop device. Ash wood handle.

Double flat head model.

Weight mallet only	Kg	3	4	5	6	8
Handles length	mm	600	700	800	800	900
<b>2768GA</b>	<b>Each</b>	<b>66,40</b>	<b>78,50</b>	<b>94,20</b>	<b>117,00</b>	<b>159,00</b>



**2768GA**



**Orig. Gedore - DIN 1042 - Art. 9 E**

Product description as Art. 2768GA

German model.

Weight mallet only	Kg	3	4	5	6	8
Handles length	mm	600	700	800	800	900
<b>2768GB</b>	<b>Each</b>	<b>64,90</b>	<b>77,10</b>	<b>92,20</b>	<b>114,00</b>	<b>156,00</b>

Spare handles for Art. 2768 GA and 2768 GB.

For mallets weight	Kg	3	4	5	6	8
Handles length	mm	600	700	800	800	900
<b>O2768G</b>	<b>Each</b>	<b>13,50</b>	<b>14,40</b>	<b>18,70</b>	<b>18,70</b>	<b>24,40</b>



**2768GB**



**Orig. Peddinghaus - DIN 6475 - Art. 5293.02**

Top quality. In forged steel. Differentiated hardening treatment. Strongly hardened striking surface. Perfectly balanced. The handle is indissolubly connected to the sledge hammer body.

Handle fastening through double backstop device. Ash wood handle.

Double flat head model.

Weight mallet only	Kg	3	4	5	6	8
Handles length	mm	600	700	800	800	900
<b>2768GE</b>	<b>Each</b>	<b>56,90</b>	<b>67,30</b>	<b>79,90</b>	<b>101,00</b>	<b>138,00</b>



**2768GE**



**Orig. Peddinghaus - DIN 1042 - Art. 5027.02**

Product description as Art. 2768GE

German model.

Weight mallet only	Kg	3	4	5	6	8
Handles length	mm	600	700	800	800	900
<b>2768GF</b>	<b>Each</b>	<b>58,40</b>	<b>69,70</b>	<b>82,70</b>	<b>101,00</b>	<b>138,00</b>

Spare handles for Art. 2768 GE / 2768 GF.

For mallets weight	Kg	3	4	5	6	8
Handles length	mm	600	700	800	800	900
<b>OM2768G</b>	<b>Each</b>	<b>13,10</b>	<b>17,50</b>	<b>17,50</b>	<b>17,50</b>	<b>22,10</b>



**2768GF**



**SLEDGE HAMMERS WITH GLASSFIBER HANDLE**
**2769GA** 

**Orig. Gedore - DIN 6475 - Art. 20 F**

Top quality. In forged steel. Differentiated hardening treatment. Strongly hardened striking surface. Perfectly balanced. The handle is indissolubly connected to the hammer body.

Safety handle in unbreakable glass fiber.

Grip coated with soft synthetic material.

Double flat head model.

Weight mallet only	Kg	3	4	5	6	8
Handles length	mm	600	700	800	800	900
<b>2769GA</b>	<b>Each</b>	<b>176,00</b>	<b>184,00</b>	<b>202,00</b>	<b>220,00</b>	<b>251,00</b>

**2769GB** 

**Orig. Gedore - DIN 1042 - Art. 9 F**

Product description as Art. 2769GA

German model.

Weight mallet only	Kg	3	4	5	6	8
Handles length	mm	600	700	800	800	900
<b>2769GB</b>	<b>Each</b>	<b>176,00</b>	<b>184,00</b>	<b>202,00</b>	<b>220,00</b>	<b>251,00</b>

**2769GF** 

**Orig. Peddinghaus - DIN 1042 - Art. 5027.08**

Top quality. In forged steel with differentiated hardening treatment.

Strongly hardened striking surface. Glassfiber handle, unbreakable and long-lasting. Grip covered with sturdy rubber. Microwave fixing with epoxy bonding agent assure safer fixing of head to handle.

German model.

Weight mallet only	Kg	4	5	6
Handles length	mm	810	810	810
<b>2769GF</b>	<b>Each</b>	<b>169,00</b>	<b>182,00</b>	<b>201,00</b>

Product running out of stock.

**2770** 

**Prod. SCU**

Double flat head model.

In forged steel. Hardened striking surfaces. Tightly fixed and unbreakable handle in fiberflax covered with synthetic anti-slip material.

Weight mallet only	Kg	3	4	5	6
Handles length	mm	910	910	910	910
<b>2770</b>	<b>Each</b>	<b>26,80</b>	<b>30,90</b>	<b>35,10</b>	<b>39,10</b>

**CARPENTER'S HATCHETS**
**2771** 

**Prod. SCU**

Double flat head model.

In forged steel. Hardened striking surfaces. Tightly fixed, unbreakable 3-component handle with fiberglass core covered with special synthetic material and soft rubber. It ensures max. sturdiness, resistance, lightness and elasticity. High vibration absorption capacity. Oil-proof. Lubricant and acid resistant. With hung-up hole.

Weight mallet only	Kg	3	4	5
Handles length	mm	900	900	900
<b>2771</b>	<b>Each</b>	<b>34,90</b>	<b>41,50</b>	<b>48,90</b>

**COPPER SLEDGE HAMMERS, WITH HANDLE**
**2781** 

**Prod. SCU**

In copper. Knurled steel handle with accident prevention fastening system.

Weight mallet only	Kg	2,5	4	5	6
Handles length	mm	300	600	600	600
<b>2781</b>	<b>Each</b>	<b>120,00</b>	<b>146,00</b>	<b>189,00</b>	<b>204,00</b>

Copper hammers with steel handle: see Art. 2718.



**INTERCHANGEABLE HEAD HAMMERS**

**Prod. SCU - Orig. Wiha**

Combination sledge hammers and interchangeable heads of different materials. Heads holder formed by two cast iron shells, hardened, screwed, with holding channels for heads and Hickory handle. Overall length: 290(30) / 325(40) / 360(50)mm.

Cadmium-free, anti-chipping, unbreakable and abrasion-resistant heads.

A = Anthracite colour head, in hard polyurethane, hardness: 70 Shore. Heavy duty, employed in building yards, shipyards, wire mills, etc. (when the product will run out of stock, we'll provide a model with white head and the same characteristic).

B = Blue head in soft elastomer, hardness: 20 Shore. For delicate items, light alloy parts, woodworking, installations, etc.

G = Yellow head, in medium-hard polyurethane, hardness: 63 Shore. Universally employed, specifically for mechanical works, auto repair shops, sheet metal working, etc.

N = Black head, in medium soft caoutchouc, hardness: 45 Shore. Heavy duty such as repair works, etc.

Head Ø	mm	<b>30</b>	<b>40</b>	<b>50</b>
Colour 1st head		A	A	A
Colour 2nd head		A	A	A
Weight approx.	grams	330	650	1150
<b>2782GAA</b>	<b>Each</b>	<b>28,10</b>	<b>38,10</b>	<b>60,40</b>

**SCU**

**2782GAA**



Product description as Art. 2782GAA

Head Ø	mm	<b>30</b>	<b>40</b>	<b>50</b>
Colour 1st head		A	A	A
Colour 2nd head		B	B	B
Weight approx.	grams	330	650	1150
<b>2782GAB</b>	<b>Each</b>	<b>28,30</b>	<b>38,70</b>	<b>55,80</b>

**SCU**

**2782GAB**



Product description as Art. 2782GAA

Head Ø	mm	<b>30</b>	<b>40</b>	<b>50</b>
Colour 1st head		A	A	A
Colour 2nd head		G	G	G
Weight approx.	grams	330	650	1150
<b>2782GAG</b>	<b>Each</b>	<b>28,90</b>	<b>40,60</b>	<b>58,90</b>

**SCU**

**2782GAG**



Product description as Art. 2782GAA

Head Ø	mm	<b>30</b>	<b>40</b>	<b>50</b>
Colour 1st head		A	A	A
Colour 2nd head		N	N	N
Weight approx.	grams	330	650	1150
<b>2782GAN</b>	<b>Each</b>	<b>25,50</b>	<b>33,30</b>	<b>49,30</b>

**SCU**

**2782GAN**



Upon sale of all stock of the ANTHRACITE colour head (A), the WHITE coloured head with the same features will be supplied.

Product description as Art. 2782GAA

Head Ø	mm	<b>30</b>	<b>40</b>	<b>50</b>
Colour 1st head		B	B	B
Colour 2nd head		B	B	B
Weight approx.	grams	330	650	1150
<b>2782GBB</b>	<b>Each</b>	<b>26,30</b>	<b>35,10</b>	<b>47,70</b>

**SCU**

**2782GBB**



Product description as Art. 2782GAA

Head Ø	mm	<b>30</b>	<b>40</b>	<b>50</b>
Colour 1st head		B	B	B
Colour 2nd head		G	G	G
Weight approx.	grams	330	650	1150
<b>2782GBG</b>	<b>Each</b>	<b>25,40</b>	<b>34,60</b>	<b>49,70</b>

**SCU**

**2782GBG**



Product description as Art. 2782GAA

Head Ø	mm	<b>30</b>	<b>40</b>	<b>50</b>
Colour 1st head		B	B	B
Colour 2nd head		N	N	N
Weight approx.	grams	330	650	1150
<b>2782GBN</b>	<b>Each</b>	<b>23,70</b>	<b>30,50</b>	<b>42,20</b>

**SCU**

**2782GBN**



**2782GGG** 


Product description as Art. 2782GAA

Head Ø	mm	30	40	50
Colour 1st head		G	G	G
Colour 2nd head		G	G	G
Weight approx.	grams	330	650	1150
<b>2782GGG</b>	<b>Each</b>	<b>25,70</b>	<b>36,40</b>	<b>53,70</b>

**2782GGN** 


Product description as Art. 2782GAA

Head Ø	mm	30	40	50
Colour 1st head		G	G	G
Colour 2nd head		N	N	N
Weight approx.	grams	330	650	1150
<b>2782GGN</b>	<b>Each</b>	<b>24,50</b>	<b>32,90</b>	<b>46,40</b>

**2782GNN** 


Product description as Art. 2782GAA

Head Ø	mm	30	40	50
Colour 1st head		N	N	N
Colour 2nd head		N	N	N
Weight approx.	grams	330	650	1150
<b>2782GNN</b>	<b>Each</b>	<b>22,70</b>	<b>28,20</b>	<b>39,50</b>

**02782GA** 
**02782GB**
**02782GG**
**02782GN**


Spare heads for Art. 2782 GAA to Art. 2782 GNN.

ANTHRACITE colour. (when the product will run out of stock, we will supply a WHITE version with the same characteristic).

Head Ø	mm	30	40	50
<b>02782GA</b>	<b>Each</b>	<b>6,76</b>	<b>10,50</b>	<b>17,60</b>

Product description as Art. 02782GA

BLUE colour.

Head Ø	mm	30	40	50
<b>02782GB</b>	<b>Each</b>	<b>4,82</b>	<b>6,76</b>	<b>9,50</b>

Product description as Art. 02782GA

YELLOW colour.

Head Ø	mm	30	40	50
<b>02782GG</b>	<b>Each</b>	<b>5,44</b>	<b>8,64</b>	<b>12,60</b>

Product description as Art. 02782GA

BLACK colour.

Head Ø	mm	30	40	50
<b>02782GN</b>	<b>Each</b>	<b>4,04</b>	<b>5,22</b>	<b>7,16</b>

**02782GM** 


Spare handles for Art. 2782 GAA and Art. 2782 GNN, Hickory wood.

for head Ø	mm	30	40	50
Overall length	mm	275	300	330
<b>02782GM</b>	<b>Each</b>	<b>6,06</b>	<b>6,38</b>	<b>8,02</b>

**02782GP** 


Head-holder jaws, in cast iron, with screw for Art. 2782 GAA to Art. 2782 GNN.

for head Ø	mm	30	40	50
<b>02782GP</b>	<b>Per pair</b>	<b>10,60</b>	<b>15,10</b>	<b>20,70</b>

**COMBINATED NYLON HAMMERS**

**Orig. Gedore - Art. 525H-500**

Practical combination consisting of a nylon sledge hammers with interchangeable head and hammer, German model, in special steel. Hickory handle, anatomic-shaped, with steel collar to prevent possible breakage.

Sledge hammer head diam: 27mm. Weight: approx. 500g.

<b>2784G</b>	<b>Each</b>	<b>35,20</b>
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Spare head for Art. 2784 G.

<b>O2784G</b>	<b>Each</b>	<b>4,02</b>
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Products running out of stock.



**2784G**



**PLASTIC HAMMERS**

**Prod. SCU**

With interchangeable heads, made from transparent cellulose acetate. Ash wood handle.

Head Ø	mm	22	27	32	35	40	50	60
Weight approx.	grams	160	240	360	450	600	910	1390
<b>2785G</b>	<b>Each</b>	<b>6,06</b>	<b>7,48</b>	<b>9,94</b>	<b>11,90</b>	<b>14,90</b>	<b>22,30</b>	<b>34,10</b>

Spare heads for Art. 2785 G.

Head Ø	mm	22	27	32	35	40	50	60
<b>O2785G</b>	<b>Each</b>	<b>0,62</b>	<b>1,02</b>	<b>1,66</b>	<b>1,98</b>	<b>2,14</b>	<b>3,88</b>	<b>5,90</b>



**2785G**



With interchangeable heads, made from plastic.

Ash wood handle.

Head Ø	mm	28	35	45	60
Weight approx.	grams	250	450	700	1400
<b>2788</b>	<b>Each</b>	<b>11,10</b>	<b>14,80</b>	<b>24,50</b>	<b>38,20</b>

Spare heads for Art. 2788.

Head Ø	mm	28	35	45	60
<b>O2788</b>	<b>Each</b>	<b>1,54</b>	<b>2,30</b>	<b>4,32</b>	<b>7,16</b>



**2788**



**NYLON HAMMERS**

**Prod. SCU**

With interchangeable heads, made from special unbreakable Nylon. Ash wood handle.

Head Ø	mm	22	27	32	35	40	50	60
Weight approx.	grams	160	250	350	420	580	900	1340
<b>2788GA</b>	<b>Each</b>	<b>7,04</b>	<b>9,02</b>	<b>12,40</b>	<b>15,10</b>	<b>19,10</b>	<b>34,60</b>	<b>43,80</b>

Spare heads for Art. 2788 GA.

Head Ø	mm	22	27	32	35	40	50	60
<b>O2788GA</b>	<b>Each</b>	<b>1,28</b>	<b>1,78</b>	<b>2,88</b>	<b>3,74</b>	<b>4,68</b>	<b>8,52</b>	<b>11,50</b>



**2788GA**



**RECOILLESS HAMMERS**

**Prod. SCU**

With interchangeable heads, in white polyurethane. NOT SUITABLE FOR BEATEN ON EDGY BODIES.

Extra hardwood handle. Suitable for many service works.

Head Ø	mm	30	35	40	45	50	60
Weight approx.	grams	400	530	640	790	1050	1350
<b>2789</b>	<b>Each</b>	<b>24,10</b>	<b>26,60</b>	<b>29,20</b>	<b>32,70</b>	<b>39,40</b>	<b>49,30</b>

Spare heads for Art. 2789.

Head Ø	mm	30	35	40	45	50	60
<b>O2789</b>	<b>Each</b>	<b>1,56</b>	<b>2,18</b>	<b>2,66</b>	<b>3,52</b>	<b>4,94</b>	<b>7,08</b>



**2789**



**Orig. Gedore - Art. 248H**

With interchangeable heads in white polyamide, unbreakable, abrasion-resiatant tested for temperatures up to -20°C.

Balanced filling of the body with metal balls. Double beat effect compared to traditional hammers.

Handle in Hickory wood. For professional and heavy-duty use.

Head Ø	mm	25	30	35	40	45	50	60
Weight approx.	grams	300	585	670	820	1030	1180	1800
Overall length	mm	305	330	335	360	365	370	370
<b>2789B</b>	<b>Each</b>	<b>36,30</b>	<b>37,90</b>	<b>41,60</b>	<b>47,60</b>	<b>54,80</b>	<b>61,30</b>	<b>106,00</b>

Head Ø	mm	70	80	100
Weight approx.	grams	2300	4000	7000
Overall length	mm	370	880	1000
<b>2789B</b>	<b>Each</b>	<b>135,00</b>	<b>272,00</b>	<b>416,00</b>

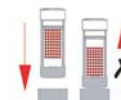
Spare heads for Art. 2789B.

Head Ø	mm	80	100
<b>O2789B</b>	<b>Each</b>	<b>28,90</b>	<b>46,70</b>

For spare head Ø from 25 to 70mm see Art. O2789 GM.



**2789B**



**2789F** 
**Prod. SCU**

With interchangeable heads, in white polyurethane NOT SUITABLE FOR BEATEN ON EDGY BODIES.

Handle in sturdy steel tubing. Grip coated with soft rubber.

Suitable for many service works.

Head Ø	mm	35	40	50	60
Weight approx.	grams	650	760	1270	1470
<b>2789F</b>	<b>Each</b>	<b>25,60</b>	<b>28,40</b>	<b>38,40</b>	<b>48,10</b>

Spare heads for Art. 2789F.

Head Ø	mm	35	40	50	60
<b>O2789F</b>	<b>Each</b>	<b>2,28</b>	<b>2,62</b>	<b>4,92</b>	<b>7,00</b>

**2789G** 


With interchangeable heads, in white polyurethane NOT SUITABLE FOR BEATEN ON EDGY BODIES.

Handle in fiberglass, max. sturdiness, covered with soft rubber.

Suitable for knurled sheet and many service works.

Head Ø	mm	35	40	45	50	60
Weight approx.	grams	700	800	900	1250	1550
<b>2789G</b>	<b>Each</b>	<b>33,80</b>	<b>36,40</b>	<b>39,30</b>	<b>46,60</b>	<b>54,30</b>

For spare heads see Art. O2789.

**2789GM** 
**Orig. Gedore - Art. 248 ST**

With interchangeable heads, in white Poliamide, unbreakable, abrasions resistant, tested for temperatures up to -20 degrees. Balanced filling of the body with metal balls. Double beat effect compared to traditional hammers. Grip in sturdy steel tubing coated with soft rubber.

Head Ø	mm	25	30	35	40	45	50	60
Weight approx.	grams	370	585	670	820	1030	1180	1800
<b>2789GM</b>	<b>Each</b>	<b>41,80</b>	<b>44,30</b>	<b>46,40</b>	<b>54,40</b>	<b>61,30</b>	<b>69,30</b>	<b>111,00</b>

Head Ø	mm	70
Weight approx.	grams	2400
<b>2789GM</b>	<b>Each</b>	<b>173,00</b>

Spare heads for Art. 2789 B and 2789 GM-O.

Head Ø	mm	25	30	35	40	45	50	60
<b>O2789GM</b>	<b>Each</b>	<b>4,56</b>	<b>5,02</b>	<b>5,82</b>	<b>7,06</b>	<b>8,02</b>	<b>8,16</b>	<b>14,30</b>

Head Ø	mm	70
<b>O2789GM</b>	<b>Each</b>	<b>21,90</b>

**2789GO** 
**Orig. Gedore - Art. 248 F**

With interchangeable heads, in white Poliamide, unbreakable, abrasions resistant, tested for temperatures up to -20 degrees. Balanced filling of the body with metal balls. Double beat effect compared to traditional hammers. Grip made of unbreakable fiberglass, for the utmost safety, covered with soft rubber.

Head Ø	mm	25	30	35	40	45	50	60
Weight approx.	grams	300	585	670	820	1030	1180	1800
<b>2789GO</b>	<b>Each</b>	<b>60,30</b>	<b>63,60</b>	<b>69,90</b>	<b>77,10</b>	<b>84,20</b>	<b>94,70</b>	<b>150,00</b>

For spare heads see Art. O2789GM.

**NYLON HAMMERS, RECOILLESS**
**2789GP** 
**Orig. Gedore - Art. 247 H**

Combination recoilles hammers consisting in 1 interchangeable head in white Poliamide, unbreakable, abrasions resistant, tested for temperatures up to -20 degrees and 1 fixed head in special steel. Hickory handle, anatomic-shaped, steel collar and pin to prevent possible breakage. Suitable to many professional uses.

Head Ø	mm	30	35	40
Weight approx.	grams	570	670	800
<b>2789GP</b>	<b>Each</b>	<b>52,60</b>	<b>56,60</b>	<b>73,20</b>

Practical wall and desk displays available on request.

Spare heads for Art. 2789 GP.

Head Ø	mm	30	35	40
<b>O2789GP</b>	<b>Each</b>	<b>5,02</b>	<b>5,82</b>	<b>7,22</b>

**RECOILLESS HAMMERS**

**Orig. Peddinghaus**

Top quality model, metal head and body in one unit, completed coated with special synthetic material, long life. Balanced filling of the body with metal balls. Double beat effect compared to traditional hammers. Grip coated with soft antislip rubber.  
Model with Ø 100mm has a squared head, glassfiber handle and grip coated with soft antislip rubber.

	mm	30	35	45	50	60	100
Head Ø	mm	30	35	45	50	60	100
Weight approx.	grams	270	385	620	860	1340	4700
Overall length	mm	260	280	300	320	380	910
Supplier code		5036.04	5036.04	5036.04	5036.04	5036.04	5036.38
<b>2789GR</b>	<b>Each</b>	<b>37,20</b>	<b>37,40</b>	<b>50,80</b>	<b>50,50</b>	<b>110,00</b>	<b>192,00</b>



**RUBBER MALLETS**

**Prod. SCU - DIN 5128-90**

In black hard rubber, undeformable (90 shore). Flat striking surface. Ash wood handle.

	mm	40	55	65	75	90
Head Ø	mm	40	55	65	75	90
Weight approx.	grams	180	310	540	800	1250
<b>2789GS</b>	<b>Each</b>	<b>2,66</b>	<b>3,66</b>	<b>5,42</b>	<b>8,68</b>	<b>14,40</b>



**Prod. SCU - DIN 5128-60**

In black semi-hard rubber, undeformable (60 shore). Flat striking surface. Ash wood handle.

	mm	55	65	75	90
Head Ø	mm	55	65	75	90
Weight approx.	grams	310	540	800	1250
<b>2789GT</b>	<b>Each</b>	<b>5,26</b>	<b>6,92</b>	<b>10,70</b>	<b>18,90</b>



**Prod. SCU**

In light, hard rubber, undeformable (90 shore). Flat striking surface. Ash wood handle. Especially suited to installations and finishing as it does not leave any rubber trace.  
Weight: approx. 310g. Head diam.: 55mm.

<b>2789GZ</b>	<b>Each</b>	<b>8,54</b>
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**Orig. Gedore-DIN 5128 - Art. 226 E**

In black hard rubber, undeformable (90 Shore). With nylon fabric reinforcement. Ash wood handle.

	grams	310	540	800	1250
Weight approx.	grams	310	540	800	1250
Head Ø	mm	55	65	75	90
<b>2790G</b>	<b>Each</b>	<b>10,90</b>	<b>14,30</b>	<b>21,30</b>	<b>29,50</b>



**Orig. Gedore-DIN 5128 - Art. 227 E**

In black semi-hard rubber, undeformable (60 Shore). With nylon fabric reinforcement. Ash wood handle.

	grams	310	540	800
Weight approx.	grams	310	540	800
Head Ø	mm	55	65	75
<b>2791G</b>	<b>Each</b>	<b>17,60</b>	<b>23,10</b>	<b>28,10</b>



**Orig. Peddinghaus - Art. 5060.02**

In light, hard rubber (polyurethane), undeformable (90 Shore). Flat striking surface. Ash wood handle, anatomic-shaped. Especially suited to installations and finishing as it does not leave any rubber trace. Weight: approx. 300g. Head diam.: 55mm.

<b>2791GE</b>	<b>Each</b>	<b>52,90</b>
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**RAWHIDE MALLETS**

**Prod. SCU**

In buff leather. Hardwood handle.

	grams	100	280	400	570	800	1400
Weight approx.	grams	100	280	400	570	800	1400
Head Ø	mm	30/35	40/45	50/55	60/65	70/75	85/90
Head height	mm	70	100	110	120	130	160
<b>2792A</b>	<b>Each</b>	<b>73,10</b>	<b>91,80</b>	<b>115,00</b>	<b>142,00</b>	<b>199,00</b>	<b>340,00</b>



**WOODEN MALLET**

2793


**Prod. SCU**

In hardwood, shaped handle.

Head Ø	mm	50	60	70	80	100
Weight approx.	grams	200	340	450	590	900
<b>2793</b>	<b>Each</b>	<b>5,54</b>	<b>5,88</b>	<b>7,96</b>	<b>10,10</b>	<b>18,10</b>

**HARD LEAD MALLET**

2794


**Prod. SCU**

In lead alloy.

Steel handle with accident-prevention fastening system.

Weight approx.	Kg	1	1,5	2	2,5	3	4	6
<b>2794</b>	<b>Each</b>	<b>13,10</b>	<b>17,20</b>	<b>19,90</b>	<b>27,10</b>	<b>31,90</b>	<b>44,50</b>	<b>58,20</b>

Weight approx.	Kg	9	12
<b>2794</b>	<b>Each</b>	<b>95,20</b>	<b>129,00</b>

**ALUMINIUM HAMMERS**

2795




ALUMINIUM

**Prod. SCU**

Aluminium alloy.

Suitable for working easily deformable steel sheets and materials.

Ash wood handle, anatomic-shaped.

Size		500	1000	2000
Weight approx.	grams	140	250	600
<b>2795</b>	<b>Each</b>	<b>10,80</b>	<b>21,20</b>	<b>32,10</b>

Product running out of stock.

**SETS OF PANEL BEATING DOLLIES**

2803T


**Prod. SCU**

7-pcs set in sheet steel case, dimensions: 310x170x65mm.

Each set consists of:

1 x each Art. 2804 A-B-C-D-T

1 x Art. 2809 B

1 x flat dolly 150mm

Supplied in case.

<b>2803T</b>	<b>Each</b>	<b>256,00</b>
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**PANEL BEATING DOLLIES**

2804


**Prod. SCU**

In special steel

Polished striking surface.

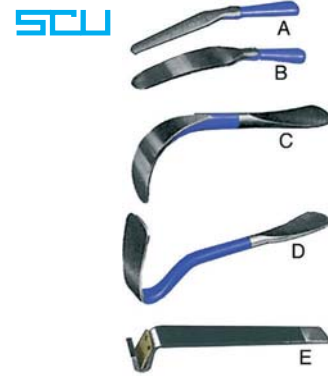
Suited to sheet steel working.

Type		A	B	C	D	F	G	I
Overall length	mm	78	57	84	110	120	135	145
Width	mm	56	57	62	60	50	54	63
Thickness	mm	63	58	25	28	30	44	45
Overall weight	grams	1150	750	800	1100	650	920	1570
<b>2804</b>	<b>Each</b>	<b>52,10</b>	<b>37,20</b>	<b>41,20</b>	<b>41,50</b>	<b>30,50</b>	<b>38,10</b>	<b>57,40</b>

Type		K	M	N	R	S	T
Overall length	mm	122	107	65	100	85	122
Width	mm	98	65	53	58	60	47
Thickness	mm	60	26	65	58	30	44
Overall weight	grams	1200	875	1250	1220	850	450
<b>2804</b>	<b>Each</b>	<b>50,20</b>	<b>39,70</b>	<b>54,90</b>	<b>56,80</b>	<b>41,50</b>	<b>22,90</b>

In special steel  
Polished striking surface.  
Suited to sheet steel working.

Type		A	B	C	D	E
Overall length	mm	290	365	400	450	435
Overall weight	grams	560	930	1800	2080	1020
<b>2805</b>	<b>Each</b>	<b>39,30</b>	<b>45,70</b>	<b>68,50</b>	<b>102,00</b>	<b>23,60</b>



**2805**

**Orig. Peddinghaus - Art. 2036.01K**

In special steel.  
Knurled sheet striking tool, handle in synthetic material. Length: 330mm. Width: 40mm. Weight: 600g.

**2805GL** Each **109,00**



**2805GL**

**Orig. Peddinghaus - Art. 198.01**

In special steel. Very sturdy.  
Nickel coated levers to straighten bumpers and remove motor mechanical parts (heads, gears, etc.)

Length: 400mm.

**2806GA** Each **29,90**



**2806GA**

Product description as Art. 2806GA

Length: 600mm.

**2806GA 1** Each **36,50**



**2806GA 1**

**Orig. Peddinghaus - Art. 197.01**

Product description as Art. 2806GA

Head bent at 90°.

Length: 400mm.

**2806GB** Each **29,90**



**2806GB**

**Prod. SCU**

In CHROME-VANADIUM steel.

Chromium-plated levers to straighten bumpers and remove motor mechanical parts (heads, gears, etc.).

Length: 400mm.

**2806P** Each **24,20**



**2806P**

**9**

Product description as Art. 2806P

Head bent at 90°.

Length: 400mm.

**2806T** Each **21,10**



**2806T**

**PANEL BEATING HAMMERS**

**Prod. SCU**

In special steel

Polished wooden handle.

1x smooth round head Ø 30mm and 1 x knurled square head 28mm. Weight: 380g.

**2808A** Each **37,70**



**2808A**

Product description as Art. 2808A

1 x knurled round head Ø 40mm and 1 x smooth square head 32mm. Weight: 350g..

**2808F** Each **50,30**



**2808F**

2809B 

Product description as Art. 2808A

1 x smooth round flat head Ø 33mm and 1 x smooth round convex head Ø 36mm. Weight: 550g.

2809B Each 25,60

2810 

Product description as Art. 2808A

1 x smooth round crowned head Ø 40mm and 1 x ball head Ø 20mm. Weight: 420g.

2810 Each 29,10

2810A 

Product description as Art. 2808A

1 x smooth round crowned head Ø 40mm and 1 x pointed head. Weight: 400g.

2810A Each 29,10

2810B 

Product description as Art. 2808A

1 x smooth round crowned head Ø 40mm and 1 x peen head, width: 20mm. Weight: 420g.

2810B Each 29,10

2810C 

Product description as Art. 2808A

1 x smooth round flat head Ø 35mm and 1 x peen head, width: 38mm. Weight: 630g.

2810C Each 30,60

9 2810D 

Product description as Art. 2808A

Smooth and flat wide head, rectangular 50 x 30mm. Weight: 260g.

2810D Each 29,10


2810E 

Product description as Art. 2808A

With rectangular, crowned, wide flat head 45 x 30mm. Weight 280g.

2810E Each 30,50

## TWISTING FORCE-BUMPING HAMMERS

2810G 

Orig. Pedinghaus - Art. 160.53

In special steel. Hickory handle. Used to recover bodywork flatten iron sheet's original shape. Percussion and rotation are combined to restore original sheet tension.

Suitable to material thickness from 0.2mm to 1mm.

1 x rotating round head Ø 42mm and 1 x round head Ø 31.5mm, polished.

Overall length mm 325

Hammer length mm 115

Overall weight grams 300

2810G Each 138,00



**INSTRUMENTS FOR SHEET OF METAL**

**Prod. SCU**

Tools for the cold pulling of hail dents, stone dents, etc. without removing paint. Particularly suitable to body-makers, repairers, etc.

- Together with the pulling tool the following items are supplied:
- 6 pulling inserts in plastic of different type and shape
- 20 resin sticks of different tenacities Art. 3252 F 3-5 (10 pcs. for item)
- 1 x rubber-coated plate for small dents
- 2 x rubber-coated support feet for big dents and rounded surfaces
- Complete set with inserts and accessories supplied in plastic case.

**2810T** Each **462,00**

Further resin sticks: see Art. 3252 F 1-3-6  
Product running out of stock.

**SCU**

**2810T**



**ELASTIC PIN SETS**

**Prod. SCU**

Set of elastic pins according to ISO 8752 DIN 1481, burnished finish. In spring steel C 70-55 Si 7.

517-pcs. set of elastic pins Art. 2811.

The set contains:

- 50 pcs. each mm 3x22 - 3x40
- 40 pcs. each mm 4x16 - 4x22 - 4x30 - 4x40 - 4x50
- 24 pcs. each mm 5x30 - 5x50 - 5x60
- 30 pcs. each. mm 6x16
- 10 pcs. each mm 6x40 - 6x50 - 6x80
- 20 pcs. each mm 6x60
- 5 pcs. each mm 7x80
- 12 pcs. each mm 8x40 - 8x55 - 8x60 - 8x80
- 6 pcs. each mm 10x40 - 10x80

**2810Z** Each **278,00**

**SCU**

**2810Z**



**ELASTIC PINS**

**Prod. SCU**

Model according to ISO 8752 DIN 1481, burnished finish.

In spring special steel C70-55 Si7.

Beveled extremities in dimensions up to Ø 8mm.

Only one beveled extremities in dimensions from Ø 10mm.

Mentioned packing units are not sold separately. Product in set see Art.2810 Z.

**SCU**

**2811**



Ø for length	mm	1x4	1x5	1x6	1x8	1x10	1x12	1x14	1x16	1x20	1.5x6	1.5x8	1.5x10	1.5x12	1.5x14	1.5x16
Indivisible pck.	Pz	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
<b>2811</b>	<b>Per pack</b>	<b>31,90</b>	<b>33,30</b>	<b>33,30</b>	<b>33,30</b>	<b>34,70</b>	<b>34,70</b>	<b>36,10</b>	<b>38,90</b>	<b>43,10</b>	<b>20,80</b>	<b>22,20</b>	<b>22,20</b>	<b>22,90</b>	<b>25,10</b>	<b>30,50</b>
Ø for length	mm	1.5x20	2x4	2x5	2x6	2x8	2x10	2x12	2x14	2x16	2x18	2x20	2x22	2x24	2x26	2x30
Indivisible pck.	Pz	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
<b>2811</b>	<b>Per pack</b>	<b>34,70</b>	<b>27,80</b>	<b>27,80</b>	<b>23,60</b>	<b>23,60</b>	<b>23,60</b>	<b>25,10</b>	<b>25,10</b>	<b>25,10</b>	<b>25,10</b>	<b>26,40</b>	<b>27,80</b>	<b>31,90</b>	<b>33,30</b>	<b>36,10</b>
Ø for length	mm	2.5x5	2.5x6	2.5x8	2.5x10	2.5x12	2.5x14	2.5x16	2.5x18	2.5x20	2.5x26	2.5x30	3x4	3x5	3x6	3x8
Indivisible pck.	Pz	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
<b>2811</b>	<b>Per pack</b>	<b>25,10</b>	<b>25,10</b>	<b>25,10</b>	<b>25,70</b>	<b>25,70</b>	<b>25,70</b>	<b>26,40</b>	<b>26,40</b>	<b>27,80</b>	<b>36,10</b>	<b>41,60</b>	<b>25,10</b>	<b>25,10</b>	<b>25,10</b>	<b>26,40</b>
Ø for length	mm	3x10	3x12	3x14	3x16	3x18	3x20	3x22	3x24	3x26	3x28	3x30	3x32	3x36	3x40	3.5x10
Indivisible pck.	Pz	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
<b>2811</b>	<b>Per pack</b>	<b>26,40</b>	<b>27,80</b>	<b>29,20</b>	<b>31,90</b>	<b>31,90</b>	<b>31,90</b>	<b>33,30</b>	<b>33,30</b>	<b>34,70</b>	<b>34,70</b>	<b>36,10</b>	<b>38,90</b>	<b>43,10</b>	<b>44,40</b>	<b>41,60</b>
Ø for length	mm	3.5x12	3.5x16	3.5x20	3.5x26	3.5x30	3.5x36	3.5x40	4x6	4x8	4x10	4x12	4x14	4x16	4x18	4x20
Indivisible pck.	Pz	1000	1000	1000	1000	1000	1000	1000	500	500	500	500	500	500	500	500
<b>2811</b>	<b>Per pack</b>	<b>36,10</b>	<b>38,90</b>	<b>40,20</b>	<b>44,40</b>	<b>50,10</b>	<b>52,70</b>	<b>55,50</b>	<b>15,30</b>	<b>16,10</b>	<b>16,70</b>	<b>16,70</b>	<b>17,40</b>	<b>18,80</b>	<b>18,80</b>	<b>19,50</b>
Ø for length	mm	4x22	4x24	4x26	4x28	4x30	4x32	4x36	4x40	4x45	4x50	4.5x16	4.5x20	4.5x24	4.5x30	4.5x32
Indivisible pck.	Pz	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
<b>2811</b>	<b>Per pack</b>	<b>19,50</b>	<b>20,10</b>	<b>21,50</b>	<b>22,20</b>	<b>22,90</b>	<b>23,60</b>	<b>25,70</b>	<b>28,50</b>	<b>30,50</b>	<b>38,20</b>	<b>29,20</b>	<b>31,20</b>	<b>34,70</b>	<b>38,20</b>	<b>39,60</b>
Ø for length	mm	4.5x40	5x6	5x10	5x12	5x14	5x16	5x18	5x20	5x22	5x24	5x26	5x30	5x32	5x36	5x40
Indivisible pck.	Pz	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
<b>2811</b>	<b>Per pack</b>	<b>45,80</b>	<b>25,10</b>	<b>20,80</b>	<b>20,80</b>	<b>21,50</b>	<b>24,30</b>	<b>24,30</b>	<b>25,10</b>	<b>27,10</b>	<b>28,50</b>	<b>29,80</b>	<b>31,20</b>	<b>32,60</b>	<b>35,40</b>	<b>37,50</b>
Ø for length	mm	5x45	5x50	5x55	5x60	5x65	5x70	5x80	6x10	6x12	6x14	6x16	6x18	6x20	6x22	6x24
Indivisible pck.	Pz	500	250	250	250	250	250	250	500	500	500	500	500	500	500	500
<b>2811</b>	<b>Per pack</b>	<b>38,90</b>	<b>21,90</b>	<b>24,10</b>	<b>26,10</b>	<b>31,90</b>	<b>31,90</b>	<b>36,40</b>	<b>25,70</b>	<b>26,40</b>	<b>27,10</b>	<b>29,20</b>	<b>29,20</b>	<b>29,80</b>	<b>31,20</b>	<b>34,70</b>

SEQUE >>>

Ø for length	mm	6x26	6x30	6x32	6x36	6x40	6x45	6x50	6x55	6x60	6x65	6x70	6x75	6x80	6x100	7x20
Indivisible pck.	Pz	500	500	500	500	250	250	250	250	250	250	250	250	250	250	500
<b>2811</b>	Per pack	38,20	41,60	44,40	49,30	25,10	27,80	31,20	33,10	34,70	45,10	45,10	55,50	62,40	101,00	57,60
Ø for length	mm	7x26	7x30	7x40	7x50	7x60	8x12	8x16	8x20	8x24	8x26	8x30	8x32	8x36	8x40	8x45
Indivisible pck.	Pz	500	250	250	250	250	200	200	200	500	500	250	250	250	250	250
<b>2811</b>	Per pack	72,80	41,60	48,60	118,00	76,30	42,30	44,40	47,90	54,80	31,20	33,70	34,70	41,60	41,60	45,10
Ø for length	mm	8x50	8x55	8x60	8x65	8x70	8x80	8x100	10x14	10x16	10x20	10x22	10x24	10x26	10x30	10x32
Indivisible pck.	Pz	250	250	250	250	250	250	100	500	500	500	500	500	500	500	500
<b>2811</b>	Per pack	48,60	52,10	55,50	59,10	65,90	90,20	50,10	69,40	72,80	90,20	97,10	104,00	104,00	111,00	125,00
Ø for length	mm	10x36	10x40	10x45	10x50	10x55	10x60	10x65	10x70	10x80	10x90	10x100	12x16	12x20	12x24	12x30
Indivisible pck.	Pz	250	250	250	250	250	200	100	100	100	100	100	500	500	250	250
<b>2811</b>	Per pack	62,40	65,90	72,80	79,80	86,70	77,70	83,20	45,80	51,30	61,00	76,30	728,00	347,00	191,00	208,00
Ø for length	mm	12x36	12x40	12x45	12x50	12x60	12x70	12x80	12x90	12x100	12x120					
Indivisible pck.	Pz	200	200	100	100	100	100	50	50	50	50					
<b>2811</b>	Per pack	167,00	167,00	83,20	90,20	97,10	97,10	52,10	83,20	125,00	160,00					

FITTING TOLERANCE RANGE:

nominal Ø of pin from 1 to 3mm = tolerance (H12) mm +0.10  
 nominal Ø of pin from 3.5 to 6mm = tolerance (H12) mm +0.12  
 nominal Ø of pin from 7 to 10mm = tolerance (H12) mm +0.15  
 nominal Ø of pin 12mm = tolerance (H12) m

SPIRAL PINS

2811E



Prod. SCU

Model according to ISO 8750 DIN 7343, burnished finish.  
 In spring special steel C70-55 Si7.

All dimensions have beveled extremities. The spiral cross-section gives high elasticity allowing these pins an excellent bearing capacity to support dynamic loads.  
 Mentioned packing units are not sold separately.

Ø for length	mm	1x6	1x8	1x10	1x12	1.5x6	1.5x8	1.5x10	1.5x12	1.5x14	2x5	2x6	2x8	2x10	2x12	2x14
Indivisible pck.	Pz	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
<b>2811E</b>	Per pack	52,70	54,10	54,10	55,50	40,20	40,20	40,90	41,60	45,80	37,50	38,90	40,20	41,60	43,10	44,40
Ø for length	mm	2x16	2x18	2x20	2.5x5	2.5x6	2.5x8	2.5x10	2.5x12	2.5x14	2.5x16	2.5x18	2.5x20	3x6	3x8	3x10
Indivisible pck.	Pz	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
<b>2811E</b>	Per pack	44,40	47,20	48,60	41,60	41,60	41,60	41,60	43,10	44,40	47,20	48,60	52,70	43,10	43,10	47,20
Ø for length	mm	3x12	3x14	3x16	3x18	3x20	3x22	3x24	3x26	3x28	3x30	3.5x10	3.5x16	3.5x18	3.5x20	3.5x30
Indivisible pck.	Pz	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
<b>2811E</b>	Per pack	48,60	50,10	50,10	51,30	52,70	54,10	55,50	56,90	58,30	61,00	56,90	65,20	65,20	69,40	83,20
Ø for length	mm	4x8	4x10	4x12	4x14	4x16	4x18	4x20	4x22	4x24	4x26	4x28	4x30	4x32	4x36	4x40
Indivisible pck.	Pz	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
<b>2811E</b>	Per pack	27,10	27,80	28,50	29,80	30,50	32,60	32,60	33,30	34,10	35,40	36,80	38,20	40,90	45,10	49,30
Ø for length	mm	4x45	4x50	5x10	5x12	5x14	5x16	5x20	5x22	5x24	5x26	5x28	5x30	5x32	5x36	5x40
Indivisible pck.	Pz	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
<b>2811E</b>	Per pack	54,10	65,20	34,70	36,10	37,50	39,60	43,10	44,40	45,80	47,90	50,10	53,40	56,90	61,00	65,90
Ø for length	mm	5x45	5x50	5x60	6x12	6x14	6x16	6x18	6x20	6x22	6x24	6x26	6x30	6x32	6x36	6x40
Indivisible pck.	Pz	500	250	250	500	500	500	500	500	500	500	500	500	500	500	250
<b>2811E</b>	Per pack	69,40	38,20	46,80	43,10	47,20	47,90	52,10	52,70	54,10	56,90	61,00	69,40	72,80	79,80	41,60
Ø for length	mm	6x45	6x50	6x55	6x60	6x65	6x70	8x20	8x26	8x28	8x30	8x32	8x36	8x40	8x45	8x50
Indivisible pck.	Pz	250	250	250	250	250	250	500	250	250	250	250	250	250	500	250
<b>2811E</b>	Per pack	45,10	48,60	62,40	65,90	72,80	79,80	90,20	59,10	59,10	69,40	72,80	72,80	72,80	167,00	90,20
Ø for length	mm	8x55	8x60	8x70	8x80	8x100	10x22	10x24	10x26	10x28	10x30	10x32	10x35	10x40	10x45	10x50
Indivisible pck.	Pz	250	250	250	250	100	500	500	500	500	500	500	250	250	250	250
<b>2811E</b>	Per pack	108,00	115,00	146,00	191,00	111,00	160,00	174,00	181,00	195,00	202,00	222,00	115,00	115,00	122,00	156,00
Ø for length	mm	10x60	10x70	10x80	10x90	10x100	12x24	12x30	12x40	12x50	12x60	12x70	12x80	12x90	12x100	
Indivisible pck.	Pz	200	100	100	100	100	250	250	200	100	100	100	100	50	50	
<b>2811E</b>	Per pack	161,00	97,10	111,00	264,00	305,00	281,00	292,00	256,00	139,00	146,00	167,00	195,00	160,00	222,00	

FITTING TOLERANCE RANGE:

nominal Ø of pin from 1 to 3mm = tolerance (H12) mm +0.10  
 nominal Ø of pin from 3.5 to 6mm = tolerance (H12) mm +0.12  
 nominal Ø of pin from 7 to 10mm = tolerance (H12) mm +0.15  
 nominal Ø of pin 12mm = tolerance (H12) m

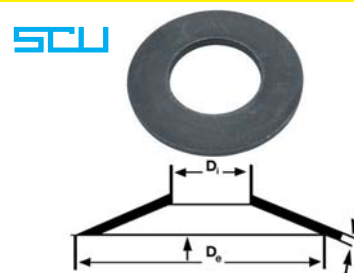
**DISE SPRINGS**

**Prod. SCU**

Model according to DIN 2093.

Phosphated surface for long life. In spring special steel (C67/C75) up to a thickness of 1.1mm. In CHROME VANADIUM steel (50 Cr V4) from 1.25mm thickness. Tolerance Ø spring: h12 - Hole tolerance: H12.

Mentioned packing units are not sold separately.

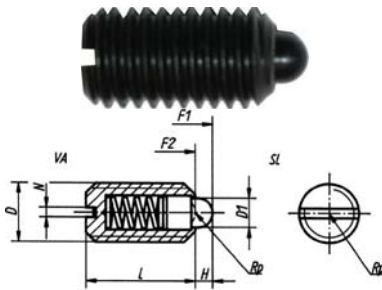


**2811G**

Type		<b>6A</b>	<b>8B</b>	<b>8C</b>	<b>8E</b>	<b>8F</b>	<b>10B</b>	<b>10C</b>	<b>10D</b>	<b>10E</b>	<b>10F</b>	<b>10L</b>	<b>10M</b>
Dimensions (De)	mm	6	8	8	8	8	10	10	10	10	10	10	10
(Di) x (t)	mm	3.2x0.3	3.2x0.3	3.2x0.4	4.2x0.3	4.2x0.4	3.2x0.4	3.2x0.5	4.2x0.4	4.2x0.5	5.2x0.25	5.2x0.4	5.2x0.5
Indivisible pck.	Pz	200	200	200	200	200	200	200	200	200	200	200	200
<b>2811G</b>	Per pack	<b>12,30</b>	<b>12,30</b>	<b>12,30</b>	<b>12,30</b>	<b>12,30</b>	<b>13,10</b>	<b>13,10</b>	<b>13,10</b>	<b>13,10</b>	<b>10,80</b>	<b>13,10</b>	<b>13,10</b>
Type		<b>12A</b>	<b>12B</b>	<b>12C</b>	<b>12D</b>	<b>12E</b>	<b>12F</b>	<b>12L</b>	<b>12.5B</b>	<b>12.5C</b>	<b>12.5D</b>	<b>14A</b>	<b>14B</b>
Dimensions (De)	mm	12	12	12	12	12	12	12	12.5	12.5	12.5	14	14
(Di) x (t)	mm	4.2x0.4	4.2x0.5	4.2x0.6	5.2x0.5	5.2x0.6	6.2x0.5	6.2x0.6	6.2x0.35	6.2x0.5	6.2x0.7	7.2x0.35	7.2x0.5
Indivisible pck.	Pz	200	200	200	200	200	200	200	200	200	200	200	200
<b>2811G</b>	Per pack	<b>13,80</b>	<b>14,10</b>	<b>14,10</b>	<b>14,10</b>	<b>14,10</b>	<b>14,10</b>	<b>14,10</b>	<b>13,80</b>	<b>14,10</b>	<b>14,50</b>	<b>14,10</b>	<b>14,50</b>
Type		<b>14C</b>	<b>15A</b>	<b>15C</b>	<b>15E</b>	<b>15F</b>	<b>15M</b>	<b>15P</b>	<b>16A</b>	<b>16B</b>	<b>16E</b>	<b>18A</b>	<b>18B</b>
Dimensions (De)	mm	14	15	15	15	15	15	15	16	16	16	18	18
(Di) x (t)	mm	7.2x0.8	5.2x0.4	5.2x0.6	6.2x0.5	6.2x0.6	8.2x0.7	8.2x0.8	8.2x0.4	8.2x0.6	8.2x0.9	6.2x0.4	6.2x0.5
Indivisible pck.	Pz	200	200	200	200	200	200	200	200	200	200	200	200
<b>2811G</b>	Per pack	<b>16,10</b>	<b>14,10</b>	<b>14,90</b>	<b>14,90</b>	<b>14,90</b>	<b>15,30</b>	<b>16,10</b>	<b>14,90</b>	<b>15,30</b>	<b>16,70</b>	<b>15,30</b>	<b>15,60</b>
Type		<b>18C</b>	<b>18L</b>	<b>18M</b>	<b>18P</b>	<b>18R</b>	<b>18S</b>	<b>18T</b>	<b>20A</b>	<b>20C</b>	<b>20E</b>	<b>20F</b>	<b>20L</b>
Dimensions (De)	mm	18	18	18	18	18	18	18	20	20	20	20	20
(Di) x (t)	mm	6.2x0.6	8.2x0.7	8.2x0.8	8.2x1	9.2x0.45	9.2x0.7	9.2x1	8.2x0.6	8.2x0.8	8.2x1	10.2x0.5	10.2x0.8
Indivisible pck.	Pz	200	200	200	200	200	200	200	200	200	200	200	200
<b>2811G</b>	Per pack	<b>16,10</b>	<b>16,10</b>	<b>16,70</b>	<b>18,60</b>	<b>15,30</b>	<b>16,10</b>	<b>18,60</b>	<b>16,40</b>	<b>17,50</b>	<b>19,70</b>	<b>16,40</b>	<b>17,50</b>
Type		<b>20M</b>	<b>20P</b>	<b>20R</b>	<b>20S</b>	<b>20T</b>	<b>22.5A</b>	<b>22.5B</b>	<b>22.5C</b>	<b>23B</b>	<b>23D</b>	<b>23F</b>	<b>23L</b>
Dimensions (De)	mm	20	20	20	20	20	22.5	22.5	22.5	23	23	23	23
(Di) x (t)	mm	10.2x0.9	10.2x1	10.2x1.1	10.2x1.25	10.2x1.5	11.2x0.6	11.2x0.8	11.2x1.25	8.2x0.8	8.2x1	10.2x1	10.2x1.25
Indivisible pck.	Pz	200	200	200	200	200	200	200	200	200	200	200	200
<b>2811G</b>	Per pack	<b>17,90</b>	<b>19,70</b>	<b>20,50</b>	<b>47,70</b>	<b>50,10</b>	<b>16,70</b>	<b>19,10</b>	<b>51,50</b>	<b>19,30</b>	<b>22,70</b>	<b>22,70</b>	<b>51,10</b>
Type		<b>23P</b>	<b>23R</b>	<b>25B</b>	<b>25C</b>	<b>25D</b>	<b>25E</b>	<b>25F</b>	<b>28A</b>	<b>28B</b>	<b>28F</b>	<b>28L</b>	<b>28M</b>
Dimensions (De)	mm	23	23	25	25	25	25	25	28	28	28	28	28
(Di) x (t)	mm	12.2x1.25	12.2x1.5	12.2x0.7	12.2x0.9	12.2x1	12.2x1.25	12.2x1.5	10.2x0.8	10.2x1	12.2x1.25	12.2x1.5	14.2x0.8
Indivisible pck.	Pz	200	200	200	200	200	200	200	200	200	200	200	200
<b>2811G</b>	Per pack	<b>51,10</b>	<b>56,80</b>	<b>19,70</b>	<b>20,80</b>	<b>24,90</b>	<b>55,30</b>	<b>57,60</b>	<b>23,80</b>	<b>25,30</b>	<b>57,60</b>	<b>61,70</b>	<b>23,80</b>
Type		<b>28P</b>	<b>28R</b>	<b>28S</b>	<b>31.5D</b>	<b>31.5E</b>	<b>31.5F</b>	<b>31.5L</b>	<b>31.5M</b>	<b>34A</b>	<b>34B</b>	<b>34E</b>	<b>34F</b>
Dimensions (De)	mm	28	28	28	31.5	31.5	31.5	31.5	31.5	34	34	34	34
(Di) x (t)	mm	14.2x1	14.2x1.25	14.2x1.5	16.3x0.8	16.3x1.25	16.3x1.5	16.3x1.75	16.3x2	12.3x1	12.3x1.25	14.3x1.5	16.3x1.5
Indivisible pck.	Pz	200	200	200	100	100	100	100	100	100	100	100	100
<b>2811G</b>	Per pack	<b>25,30</b>	<b>57,60</b>	<b>61,70</b>	<b>14,10</b>	<b>31,30</b>	<b>33,10</b>	<b>36,90</b>	<b>38,80</b>	<b>15,80</b>	<b>35,10</b>	<b>40,70</b>	<b>40,70</b>
Type		<b>34L</b>	<b>35.5A</b>	<b>35.5B</b>	<b>35.5C</b>	<b>40A</b>	<b>40B</b>	<b>40E</b>	<b>40F</b>	<b>40L</b>	<b>40M</b>	<b>40P</b>	<b>40R</b>
Dimensions (De)	mm	34	35.5	35.5	35.5	40	40	40	40	40	40	40	40
(Di) x (t)	mm	16.3x2	18.3x0.9	18.3x1.25	18.3x2	14.3x1.25	14.3x1.5	16.3x1.5	16.3x1.75	16.3x2	18.3x2	20.4x1	20.4x1.5
Indivisible pck.	Pz	100	100	100	100	100	100	100	100	100	100	100	100
<b>2811G</b>	Per pack	<b>42,60</b>	<b>15,80</b>	<b>35,10</b>	<b>48,30</b>	<b>48,30</b>	<b>54,10</b>	<b>54,10</b>	<b>55,80</b>	<b>57,70</b>	<b>57,70</b>	<b>23,20</b>	<b>50,20</b>
Type		<b>40S</b>	<b>40T</b>	<b>40V</b>	<b>45B</b>	<b>45C</b>	<b>50B</b>	<b>50C</b>	<b>50D</b>	<b>50F</b>	<b>50L</b>	<b>50M</b>	<b>50P</b>
Dimensions (De)	mm	40	40	40	45	45	50	50	50	50	50	50	50
(Di) x (t)	mm	20.4x2	20.4x2.25	20.4x2.5	22.4x1.75	22.4x2.5	18.4x1.5	18.4x2	18.4x2.5	20.4x2	20.4x2.5	22.4x2	22.4x2.5
Indivisible pck.	Pz	100	100	100	100	100	100	100	100	100	100	100	100
<b>2811G</b>	Per pack	<b>55,80</b>	<b>59,60</b>	<b>65,30</b>	<b>74,80</b>	<b>82,30</b>	<b>72,90</b>	<b>88,10</b>	<b>99,40</b>	<b>88,10</b>	<b>99,40</b>	<b>88,10</b>	<b>99,40</b>
Type		<b>50R</b>	<b>50S</b>	<b>50T</b>	<b>50V</b>	<b>50Z</b>	<b>56A</b>	<b>56B</b>	<b>56C</b>	<b>60A</b>	<b>60B</b>	<b>60D</b>	<b>60E</b>
Dimensions (De)	mm	50	50	50	50	50	56	56	56	60	60	60	60
(Di) x (t)	mm	25.4x1.25	25.4x1.5	25.4x2	25.4x2.5	25.4x3	28.5x1.5	28.5x2	28.5x3	20.5x2	20.5x2.5	25.5x2.5	25.5x3
Indivisible pck.	Pz	100	100	100	100	100	100	100	100	100	100	100	100
<b>2811G</b>	Per pack	<b>67,20</b>	<b>72,90</b>	<b>88,10</b>	<b>99,40</b>	<b>115,00</b>	<b>93,70</b>	<b>109,00</b>	<b>145,00</b>	<b>126,00</b>	<b>147,00</b>	<b>147,00</b>	<b>162,00</b>
Type		<b>60F</b>	<b>60L</b>	<b>60M</b>	<b>60P</b>	<b>63A</b>	<b>63B</b>	<b>63C</b>	<b>63D</b>	<b>70B</b>	<b>70D</b>	<b>70E</b>	<b>70F</b>
Dimensions (De)	mm	60	60	60	60	63	63	63	63	70	70	70	70
(Di) x (t)	mm	30.5x2.5	30.5x2.75	30.5x3	30.5x3.5	31x1.8	31x2.5	31x3	31x3.5	30.5x2.5	35.5x3	35.5x4	40.5x4
Indivisible pck.	Pz	100	100	100	100	100	100	100	100	1	1	1	1
<b>2811G</b>	Per pack	<b>147,00</b>	<b>153,00</b>	<b>162,00</b>	<b>179,00</b>	<b>134,00</b>	<b>151,00</b>	<b>177,00</b>	<b>192,00</b>	<b>2,04</b>	<b>2,28</b>	<b>3,22</b>	<b>3,22</b>
Type		<b>70L</b>	<b>71A</b>	<b>71B</b>	<b>71C</b>	<b>80B</b>	<b>80F</b>	<b>80L</b>	<b>80M</b>	<b>90A</b>	<b>90B</b>	<b>90C</b>	<b>100A</b>
Dimensions (De)	mm	70	71	71	71	80	80	80	80	90	90	90	100
(Di) x (t)	mm	40.5x5	36x2	36x2.5	36x4	31x3	41x3	41x4	41x5	46x2.5	46x3.5	46x5	41x4
Indivisible pck.	Pz	1	1	1	1	1	1	1	1	1	1	1	1
<b>2811G</b>	Per pack	<b>4,06</b>	<b>1,98</b>	<b>2,12</b>	<b>3,26</b>	<b>2,76</b>	<b>2,76</b>	<b>4,02</b>	<b>4,80</b>	<b>3,22</b>	<b>3,86</b>	<b>5,76</b>	<b>5,76</b>
Type		<b>100D</b>	<b>100F</b>	<b>100L</b>									
Dimensions (De)	mm	100	100	100									
(Di) x (t)	mm	51x3.5	51x5	51x6									
Indivisible pck.	Pz	1	1	1									
<b>2811G</b>	Per pack	<b>4,62</b>	<b>7,04</b>	<b>9,16</b>									

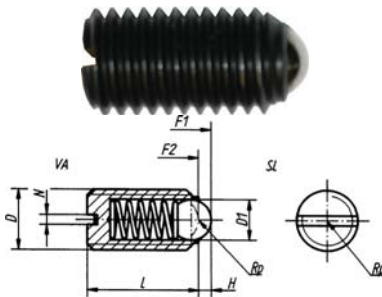
Prices in EURO - VAT not included

9

**SPRING PLUNGERS WITH THREADS**
**2812A**
**SCU**

**Prod. SCU**

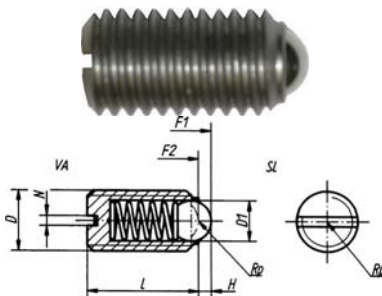
Ball nose spring plunger with slotted drive. In hardened steel, 5.8 resistance class, burnished.

Thread D Ø	M.	4	5	6	8	10	12	16	20
Force min F1	N	6	6	7	15	20	30	45	60
Max. force F2	N	20	20	20	30	35	55	100	120
D1 tip Ø	mm	1,8	2,4	2,7	4	4,5	6	8,5	10
Presser L length	mm	9	12	14	16	19	22	24	30
Tip extension H	mm	1,5	2	2	2	2,5	3,5	4,5	6,5
Notch N width	mm	0,6	0,8	1	1,2	1,6	2	2,5	2,5
Weight approx.	grams	0,39	1	1,7	4	7	13	24	46,3
<b>2812A</b>	<b>Each</b>	<b>1,62</b>	<b>1,60</b>	<b>1,60</b>	<b>1,96</b>	<b>2,08</b>	<b>3,16</b>	<b>4,36</b>	<b>7,20</b>

**2812B**
**SCU**


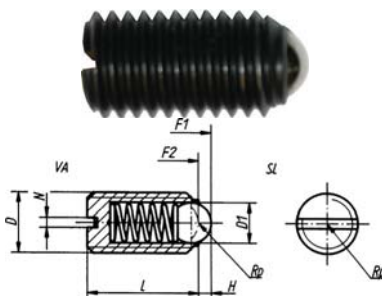
Ball spring plunger with slotted drive. In hardened steel, 5.8 resistance class, burnished. Hardened ball.

Thread D Ø	M.	3	4	5	6	8	10	12	16	20
Force min F1	N	1,5	4	6	9	15	20	30	65	80
Max. force F2	N	3	10	11	13	30	35	55	125	160
Ball D1 Ø	mm	1,5	2,5	3	3,5	5	6	8	10	12
Presser L length	mm	7	9	12	14	16	19	22	24	30
Ball H extension	mm	0,5	0,8	0,9	1	1,5	2	2,5	3,5	4,5
Notch N width	mm	0,4	0,6	0,8	1	1,2	1,6	2	2,5	2,5
Weight approx.	grams	0,2	0,6	0,9	1,5	3,5	7	10	24	44,3
<b>2812B</b>	<b>Each</b>	<b>1,82</b>	<b>0,82</b>	<b>0,92</b>	<b>1,02</b>	<b>1,28</b>	<b>1,66</b>	<b>2,76</b>	<b>3,52</b>	<b>6,00</b>

**2812C**
**SCU**
**INOX**


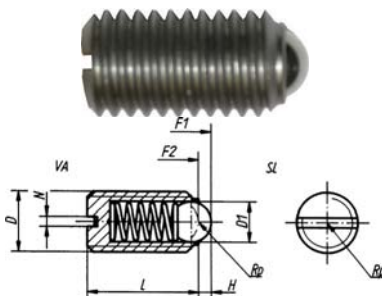
Ball spring plunger with slotted drive. In stainless steel. Hardened ball.

Thread D Ø	M.	3	4	5	6	8	10	12	16	20
Force min F1	N	1,5	4	6	9	15	20	30	65	80
Max. force F2	N	3	10	11	13	30	35	55	125	160
Ball D1 Ø	mm	1,5	2,5	3	3,5	5	6	8	10	12
Presser L length	mm	7	9	12	14	16	19	22	24	30
Ball H extension	mm	0,5	0,8	0,9	1	1,5	2	2,5	3,5	4,5
Notch N width	mm	0,4	0,6	0,8	1	1,2	1,6	2	2,5	2,5
Weight approx.	grams	0,2	0,6	0,9	1,5	3,5	7	10	24	44,3
<b>2812C</b>	<b>Each</b>	<b>4,82</b>	<b>2,64</b>	<b>2,82</b>	<b>3,06</b>	<b>4,76</b>	<b>5,92</b>	<b>7,02</b>	<b>8,88</b>	<b>11,90</b>

**2812E**
**SCU**


Ball spring plunger with slotted drive and heavy end pressure. In hardened steel, 5.8 resistance class, burnished. Hardened ball.

Thread D Ø	M.	5	6	8	10	12	16	20
Force min F1	N	19	28	47	66	66	90	115
Max. force F2	N	30	40	73	100	120	180	240
Ball D1 Ø	mm	3	3,5	5	6	8	10	12
Presser L length	mm	12	14	16	19	22	24	30
Ball H extension	mm	0,9	1	1,5	2	2,5	3,5	4,5
Notch N width	mm	0,8	1	1,2	1,6	2	2,5	2,5
Weight approx.	grams	0,9	1,5	3,5	7	10	24	44,3
<b>2812E</b>	<b>Each</b>	<b>0,96</b>	<b>1,06</b>	<b>1,34</b>	<b>1,74</b>	<b>3,14</b>	<b>3,70</b>	<b>6,54</b>

**2812F**
**SCU**
**INOX**


Ball spring plunger with slotted drive and heavy end pressure. In stainless steel. Hardened ball.

Thread D Ø	M.	5	6	8	10	12	16	20
Force min F1	N	19	28	47	66	66	90	115
Max. force F2	N	30	40	73	100	120	180	240
Ball D1 Ø	mm	3	3,5	5	6	8	10	12
Presser L length	mm	12	14	16	19	22	24	30
Ball H extension	mm	0,9	1	1,5	2	2,5	3,5	4,5
Notch N width	mm	0,8	1	1,2	1,6	2	2,5	2,5
Weight approx.	grams	0,9	1,5	3,5	7	10	24	44,3
<b>2812F</b>	<b>Each</b>	<b>2,96</b>	<b>3,14</b>	<b>4,96</b>	<b>6,34</b>	<b>7,76</b>	<b>9,62</b>	<b>13,20</b>

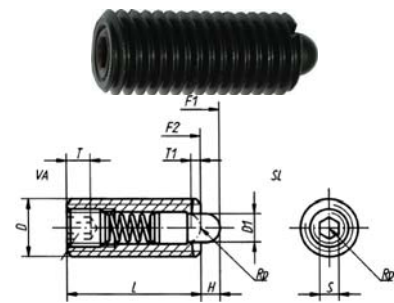
Ball nose spring plunger with hex socket. In hardened steel, 5.8 resistance class, burnished. Straight slot on the nose in plungers Ø from 3 to 16 (Ø 20 and 24 excluded) is used for installation in blind borings, through special fitting key Art. O2812 M Size: 3-16.

Thread D Ø	M.	3	4	5	6	8	10	12
Force min F1	N	0,5	5	6	7	9	9	10
Max. force F2	N	3	16	20	20	35	35	55
D1 tip Ø	mm	1	1,5	2,4	2,7	3,5	4	6
Presser L length	mm	10	15	18	20	22	22	28
Tip extension H	mm	1,5	1,5	2,3	2,5	3	3	4
Hexagonal size S	mm	0,7	1,3	1,5	2	2,5	3	4
Weight approx.	grams	0,35	0,8	1,3	2,5	6	9	16
<b>2812L</b>	<b>Each</b>	<b>4,34</b>	<b>3,36</b>	<b>3,20</b>	<b>3,20</b>	<b>3,92</b>	<b>4,36</b>	<b>5,68</b>

Thread D Ø	M.	16	20	24
Force min F1	N	45	60	80
Max. force F2	N	100	120	160
D1 tip Ø	mm	7,5	10	12
Presser L length	mm	32	40	52
Tip extension H	mm	5	7	10
Hexagonal size S	mm	5	6	8
Weight approx.	grams	35	66,3	122,2
<b>2812L</b>	<b>Each</b>	<b>7,20</b>	<b>9,32</b>	<b>16,40</b>

**SCU**

**2812L**

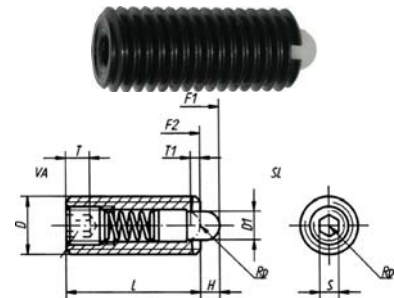


Ball nose spring plunger, in special plastic material, with hex socket. Hardened steel body, 5.8 resistance class, burnished. Straight slot in the nose in plungers Ø from 4 to 16 is used for installation in blind boringd, through special fitting key Art. O2812 M Size: 4-16.

Thread D Ø	M.	4	5	6	8	10	12	16
Force min F1	N	5	6	7	9	9	10	45
Max. force F2	N	16	20	20	35	35	55	100
D1 tip Ø	mm	1,5	2,4	2,7	3,5	4	6	7,5
Presser L length	mm	15	18	20	22	22	28	32
Tip extension H	mm	1,5	2,3	2,5	3	3	4	5
Hexagonal size S	mm	1,3	1,5	2	2,5	3	4	5
Weight approx.	grams	0,8	1,3	2,5	6	9	16	35
<b>2812M</b>	<b>Each</b>	<b>3,82</b>	<b>3,72</b>	<b>3,82</b>	<b>4,52</b>	<b>5,38</b>	<b>6,78</b>	<b>8,28</b>

**SCU**

**2812M**



Installation wrenches for Art. 2812 L/M.

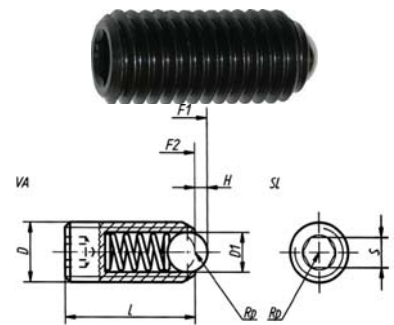
Size		3	4	5	6	8	10	12	16
For pressers 2812 L Ø	mm	3	4	5	6	8	10	12	16
For pressers 2812 M Ø	mm	-	4	5	6	8	10	12	16
<b>O2812M</b>	<b>Each</b>	<b>33,90</b>	<b>26,40</b>	<b>26,40</b>	<b>26,40</b>	<b>31,20</b>	<b>32,80</b>	<b>37,10</b>	<b>40,40</b>

Ball spring plunger with hex socket. In hardened steel, 5.8 resistance class, burnished. Hardened ball.

Thread D Ø	M.	6	8	10	12	16	20	24
Force min F1	N	9	15	20	30	65	80	90
Max. force F2	N	13	30	35	55	125	160	180
Ball D1 Ø	mm	3,5	4,5	6	8	10	12	15
Presser L length	mm	15	18	23	26	33	43	48
Ball H extension	mm	1	1,5	2	2,5	3,5	4,5	5,5
Hexagonal size S	mm	3	4	5	6	8	10	12
Weight approx.	grams	2	4	8	12	31	64	100
<b>2812P</b>	<b>Each</b>	<b>2,54</b>	<b>3,28</b>	<b>3,64</b>	<b>4,82</b>	<b>6,32</b>	<b>8,50</b>	<b>14,90</b>

**SCU**

**2812P**



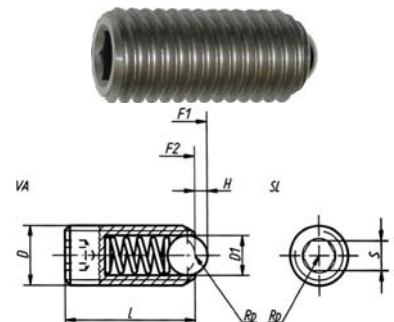
Ball spring plunger with hex socket. In stainless steel. Hardened ball.

Thread D Ø	M.	6	8	10	12	16	20	24
Force min F1	N	9	15	20	30	65	80	90
Max. force F2	N	13	30	35	55	125	160	180
Ball D1 Ø	mm	3,5	4,5	6	8	10	12	15
Presser L length	mm	15	18	23	26	33	43	48
Ball H extension	mm	1	1,5	2	2,5	3,5	4,5	5,5
Hexagonal size S	mm	3	4	5	6	8	10	12
Weight approx.	grams	2	4	8	12	31	64	100
<b>2812R</b>	<b>Each</b>	<b>6,78</b>	<b>7,42</b>	<b>8,66</b>	<b>11,70</b>	<b>18,20</b>	<b>22,80</b>	<b>37,10</b>

**SCU**

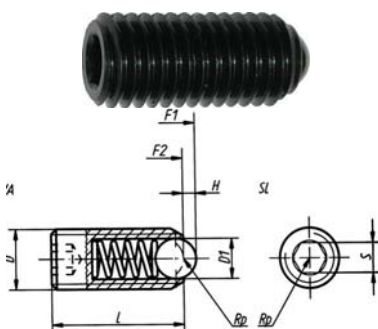
**INOX**

**2812R**



### 2812S

SCU



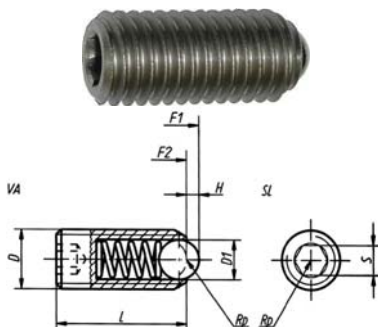
Ball spring plunger with hex socket and heavy end pressure. In hardened steel, 5.8 resistance class, burnished. Hardened ball.

Thread D Ø	M.	6	8	10	12	16	20	24
Force min F1	N	28	47	66	66	90	115	130
Max. force F2	N	40	73	100	120	180	240	270
Ball D1 Ø	mm	3,5	4,5	6	8	10	12	15
Presser L length	mm	15	18	23	26	33	43	48
Ball H extension	mm	1	1,5	2	2,5	3,5	4,5	5,5
Hexagonal size S	mm	3	4	5	6	8	10	12
Weight approx.	grams	2	4	8	12	31	64	100
<b>2812S</b>	<b>Each</b>	<b>2,78</b>	<b>3,58</b>	<b>3,92</b>	<b>5,34</b>	<b>7,00</b>	<b>9,38</b>	<b>16,40</b>

### 2812T

SCU

INOX



Ball spring plunger with hex socket and heavy end pressure. In stainless steel. Hardened ball.

Thread D Ø	M.	6	8	10	12	16	20	24
Force min F1	N	28	47	66	66	90	115	130
Max. force F2	N	40	73	100	120	180	240	270
Ball D1 Ø	mm	3,5	4,5	6	8	10	12	15
Presser L length	mm	15	18	23	26	33	43	48
Ball H extension	mm	1	1,5	2	2,5	3,5	4,5	5,5
Hexagonal size S	mm	3	4	5	6	8	10	12
Weight approx.	grams	2	4	8	12	31	64	100
<b>2812T</b>	<b>Each</b>	<b>7,50</b>	<b>8,28</b>	<b>9,54</b>	<b>12,80</b>	<b>19,90</b>	<b>25,30</b>	<b>41,40</b>

### STOP PINS

### 2812TE

SCU



Prod. SCU

Type with retractable pin, control head and tightening counternut to adjust the pin depth. Made of hardened, ground, galvanised steel. Head made from thermoplastic resin. To unlock, simply extract the pin normally by pulling the control head provided.

Pivot D Ø	mm	5	6	8	10
Thread D1 Ø	MF	10x1	12x1,5	16x1,5	20x1,5
Head D2 Ø	mm	21	25	33	33
Overall length L	mm	47	56	73	80
Overall length L1	mm	24	28	36	40
Head length L2	mm	18	22	30	30
Pivot length H	mm	5	6	8	10
Ch Hexagon opening	mm	17	19	24	30
<b>2812TE</b>	<b>Each</b>	<b>11,70</b>	<b>12,60</b>	<b>15,10</b>	<b>23,10</b>

On demand, also available the polished STAINLESS STEEL version.

### 2812TF

new

SCU



Serrated washers for screwing, made of steel, to be applied to the stop pins Art. 2812 TE so as to lock them in the desired position.

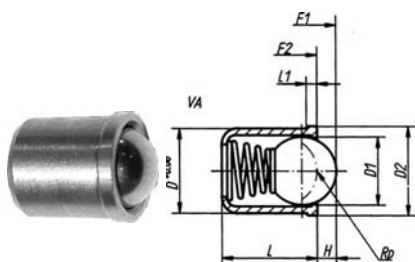
For pivots 2812TE	mm	5	6	8	10
<b>2812TF</b>	<b>Each</b>	<b>19,10</b>	<b>19,50</b>	<b>19,90</b>	<b>20,10</b>

### SMOOTH SPRING PLUNGERS

### 2812V

SCU

INOX



Prod. SCU

Ball spring plunger, smooth body. In stainless steel. Hardened ball. Ø D tolerance: +0.08.

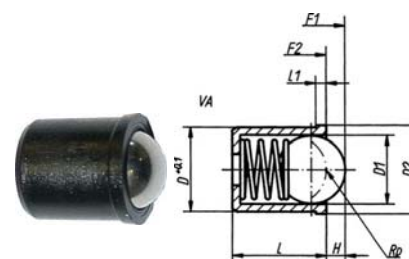
Body Ø D	mm	4	5	6	8
Min force F1	N	3	4	6	6
Max. force F2	N	7	7	12	12
Ball D1 Ø	mm	3	4	5	6,5
Ext. overall Ø D2	mm	4,6	5,6	6,5	8,5
Presser L length	mm	5	6	7	9
Ball H extension	mm	0,8	1	1,5	1,8
Weight approx.	grams	0,3	0,6	1	2
<b>2812V</b>	<b>Each</b>	<b>1,44</b>	<b>1,48</b>	<b>1,52</b>	<b>1,88</b>

Ball spring plunger, smooth body. Body in black thermplastic resin. Ball and spring in stainless steel, hardened. Ø D tolerance:+0.1.

Body Ø D	mm	4	5	6	8
Min force F1	N	3	4	6	6
Max. force F2	N	7	7	12	12
Ball D1 Ø	mm	3	4	5	6,5
Ext. overall Ø D2	mm	4,6	5,6	6,5	8,5
Presser L length	mm	5	6	7	9
Ball H extension	mm	0,7	1	1,5	1,8
Weight approx.	grams	0,17	0,35	0,66	1,46
<b>2812Z</b>	<b>Each</b>	<b>0,88</b>	<b>0,92</b>	<b>0,98</b>	<b>1,16</b>

SCU

INOX 2812Z



**SCREWING FIXING PLUGS**

**Prod. SCU**

Self-drilling screw model for plasterboard. In nylon with fiberglass reinforcement. Helicoidal threaded lugs for clockwise screwing.

Overall length: 29mm, usable length: 25mm, max thread Ø: 12.3mm.

With TPS, zinc plated screw for chipboard, dimensions: 4.5x35mm. Average tightness under traction: approx. 41kg.

Indivisible pck.	Pz	100
<b>2813</b>	<b>Per pack</b>	<b>15,20</b>

SCU

2813



**EXPANSION FIXING PLUGS**

**Prod. SCU**

High quality nylon fixing plugs.

Fixing lugs assure high tightness.

Without screw.

Ø	mm	5	6	8	10
Length	mm	25	30	40	50
Indivisible pck.	Pz	200	200	100	50
<b>2813A</b>	<b>Per pack</b>	<b>3,56</b>	<b>4,06</b>	<b>4,00</b>	<b>3,74</b>

SCU

2813A



Product description as Art. 2813A

With zinc-plated screw.

Ø	mm	5	6	8	10
Length	mm	25	30	40	50
Indivisible pck.	Pz	100	100	50	25
Screw dimension	mm	4x30	4,5x40	5x50	6x60
<b>2813B</b>	<b>Per pack</b>	<b>6,12</b>	<b>6,54</b>	<b>5,64</b>	<b>5,60</b>

SCU

2813B



Socket-type, inside threaded, in brass, highest tightness.

Int. threaded bore	M.	5	6	8	10	12
Ø for length	mm	6,5x21	8x23	10x28	12x34	15x38
Indivisible pck.	Pz	200	100	100	50	40
<b>2813Z</b>	<b>Per pack</b>	<b>47,60</b>	<b>29,30</b>	<b>42,70</b>	<b>30,10</b>	<b>43,50</b>

SCU

2813Z



Heavy steel type, with anti-rotation lugs, assures high tightness and safety. Suitable to fixing in compact materials such as concrete, stocks, marble, granite, etc.

With inside threaded hole.

Ø	mm	12	14	16	20
Length	mm	40	50	60	75
Screw thread	M.	6	8	10	12
Indivisible pck.	Pz	50	50	25	20
<b>2814A</b>	<b>Per pack</b>	<b>50,10</b>	<b>65,50</b>	<b>46,50</b>	<b>49,70</b>

SCU

2814A



Product description as Art. 2814A

With screw with hexagonal head.

Ø	mm	12	14	16	20
Length	mm	40	50	60	75
Screw thread	M.	6	8	10	12
Indivisible pck.	Pz	50	50	25	20
<b>2814B</b>	<b>Per pack</b>	<b>65,90</b>	<b>82,10</b>	<b>60,80</b>	<b>71,90</b>

SCU

2814B



Product description as Art. 2814A

With threaded bar and nut.

Ø	mm	12	14	16	20
Length	mm	40	50	60	75
Screw thread	M.	6	8	10	12
Indivisible pck.	Pz	50	50	25	20
<b>2814C</b>	<b>Per pack</b>	<b>87,10</b>	<b>106,00</b>	<b>76,30</b>	<b>89,50</b>

SCU

2814C



## 2814D

SCU



Product description as Art. 2814A

With closed eyelet.

Ø	mm	12	14	16	20
Length	mm	40	50	60	75
Screw thread	M.	6	8	10	12
Indivisible pck.	Pz	50	50	25	15
<b>2814D</b>	<b>Per pack</b>	<b>112,00</b>	<b>143,00</b>	<b>96,70</b>	<b>81,90</b>

## 2814E

SCU



Product description as Art. 2814A

With open eyelet.

Ø	mm	12	14	16	20
Length	mm	40	50	60	75
Screw thread	M.	6	8	10	12
Indivisible pck.	Pz	50	50	25	15
<b>2814E</b>	<b>Per pack</b>	<b>135,00</b>	<b>149,00</b>	<b>102,00</b>	<b>96,90</b>

## 2814L

SCU



Heavy steel type, with anti-rotation lugs, assures high tightness and safety. Suitable to fixing in compact materials such as concrete, stocks, marble, granite, etc.

With threaded bar, nut and washer.

Ø for length	mm	8x55	8x75	8x115	10x65	10x90	10x120	12x75
Thread length	mm	25	35	40	30	32	35	38
Indivisible pck.	Pz	100	100	100	100	50	50	50
Max load on R 250	Kg	350	350	350	500	500	500	800
<b>2814L</b>	<b>Per pack</b>	<b>67,20</b>	<b>73,80</b>	<b>77,20</b>	<b>105,00</b>	<b>57,90</b>	<b>64,90</b>	<b>64,90</b>
Ø for length	mm	12x110	12x145	16x110	16x175	20x170	20x220	
Thread length	mm	42	60	50	65	65	85	
Indivisible pck.	Pz	50	40	25	20	10	10	
Max load on R 250	Kg	800	800	1200	1200	1900	1900	
<b>2814L</b>	<b>Per pack</b>	<b>64,90</b>	<b>79,10</b>	<b>78,70</b>	<b>86,80</b>	<b>59,30</b>	<b>71,10</b>	

## 2814P

SCU



Product description as Art. 2814L

With blind nut and anti-rotation ring.

Ø for length	mm	8x65	8x80	10x75	10x110	12x85	12x120	14x100
Min bore depth	mm	50	50	60	60	70	70	80
Max use thickness	mm	15	30	15	50	15	50	20
Indivisible pck.	Pz	50	50	50	50	50	50	25
Max load on R 250	Kg	350	350	500	500	800	800	1000
<b>2814P</b>	<b>Per pack</b>	<b>113,00</b>	<b>166,00</b>	<b>172,00</b>	<b>239,00</b>	<b>239,00</b>	<b>290,00</b>	<b>204,00</b>
Ø for length	mm	14x130	16x110	16x130				
Min bore depth	mm	80	90	90				
Max use thickness	mm	50	20	40				
Indivisible pck.	Pz	25	25	25				
Max load on R 250	Kg	1000	1200	1200				
<b>2814P</b>	<b>Per pack</b>	<b>255,00</b>	<b>312,00</b>	<b>364,00</b>				

## PERMANENT MAGNETS

## 2815A

SCU



Prod. SCU

Heat resistance: 450°C

In ALNICO alloy. Magnetic shielding assures a longer lasting magnetic charge. Impact-proof and heat-resistant outside protection.

Cylindric type with threaded non through hole.

Ø	mm	12,7	17,5	20,6	27	34	35	50
Height	mm	15,8	15,8	19	25,4	20	30	40
Thread bore Ø	M.	4	6	6	6	6	6	8
Magnetic force	Kg	1,5	2,5	4	9,5	6	19	45
<b>2815A</b>	<b>Each</b>	<b>6,14</b>	<b>6,70</b>	<b>7,90</b>	<b>12,80</b>	<b>22,90</b>	<b>26,40</b>	<b>55,90</b>

## 2815B

SCU



Product description as Art. 2815A

Cylindric type with threaded through hole.

Ø	mm	19	28,6	38
Height	mm	8	9,5	11,1
Thread bore Ø	M.	4	6	6
Magnetic force	Kg	2	3,5	15
<b>2815B</b>	<b>Each</b>	<b>7,58</b>	<b>9,34</b>	<b>15,10</b>

## 2815C

SCU



Product description as Art. 2815A

Cylindric type with threadless through hole and slot.

Ø	mm	12,7	19	25,4	31,7
Height	mm	9,5	12,7	15,9	25,4
Bore Ø	mm	4,7	5,4	4,8	7,5
Magnetic force	Kg	1	2	3	6,8
<b>2815C</b>	<b>Each</b>	<b>5,66</b>	<b>7,98</b>	<b>14,10</b>	<b>25,60</b>



Product description as Art. 2815A

Bridge-shaped type with 1 x through hole (Art. 2815 E 25-28.6) and 2 x through holes (Art. 2815 E 57-82.5).

Max length	mm	25	28,6	57	82,5
Overall height	mm	25	29	41	54
Max width	mm	40	45	70	80
Magnetic force	Kg	6,5	9	30	50
Bores Ø	mm	5	5,5	7,5	9,5
<b>2815E</b>	<b>Each</b>	<b>27,20</b>	<b>39,90</b>	<b>160,00</b>	<b>288,00</b>

**2815E**


Product description as Art. 2815A

U-bolt-shaped type.

Height: 25.4mm. Thickness: 8mm.

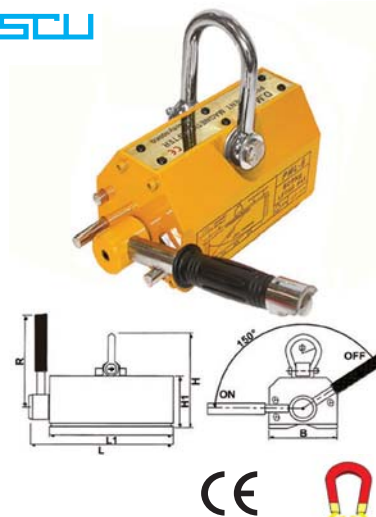
<b>2815F</b>	<b>Each</b>	<b>10,60</b>
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**2815F**

**PERMANENT MAGNETS FOR RAISING**
**Prod. SCU**

Powerful NEODIMIO magnet. Sturdy and compact lifting device with lifting hook and control lever for magnet activation/deactivation, with safety lock. Manufactured according to European safety standards. Suited to lift and handle cast iron, iron, steel flat and round parts, plates, bars, pipes, etc.

Plate max load capacity	Kg	300	600	1000	2000
Plate min. thickness	mm	20	30	40	55
Round bar max load capacity	Kg	100	200	330	1000
Round bar min. Ø	mm	50	70	75	100
Round bar max Ø	mm	300	400	450	600
Weight	Kg	7	17	38	95
Dimensions B	mm	92	129	156	210
Dimensions H	mm	163	198	277	333
Dimensions H1	mm	85	100	129	167
Dimensions L1	mm	160	231	312	443
Dimensions L	mm	189	267	350	490
Dimensions R	mm	180	200	280	380
Hook bore Ø dimensions	mm	40	55	57	68
<b>2815Z</b>	<b>Each</b>	<b>482,00</b>	<b>761,00</b>	<b>1.230,00</b>	<b>2.370,00</b>

**2815Z**


Lifting capacity: 3000kg and 5000kg available on request. To choose the right lifting capacity, see thickness, surface finish tables and air gap. (table section)

**MAGNETIC BLOCKS**
**Prod. SCU**

Heat resistance: 450°C

In ALNICO alloy, completely magnetised.

Cylindric-type

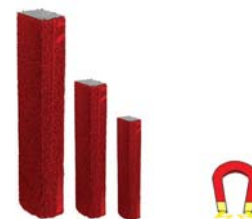
Ø	mm	6	8	10
Height	mm	20	25	30
<b>2816A</b>	<b>Each</b>	<b>2,32</b>	<b>3,52</b>	<b>5,26</b>

**2816A**


Product description as Art. 2816A

Rectangular-type

Width x thickness	mm	10x5	12,5x5	15x5	15x10
Height	mm	20	40	60	75
<b>2816B</b>	<b>Each</b>	<b>3,52</b>	<b>7,02</b>	<b>10,60</b>	<b>19,20</b>

**2816B**

**PERMANENT CERAMIC MAGNETS**
**Prod. SCU**

In ceramic material with metal coating.

Cylindric-type with fixing hole.

Ø	mm	45	53	71
Thickness	mm	10	10	15
Bore Ø	mm	4	4	10
Magnetic force	Kg	7	15	30
<b>2817A</b>	<b>Each</b>	<b>10,40</b>	<b>13,60</b>	<b>16,10</b>

**2817A**


**2817B****SCU**

Product description as Art. 2817A

Cylindric-type with external thread.

Ø	mm	<b>22</b>	<b>32</b>
Thickness	mm	6	7
Magnetic force	Kg	3	8
Ø x length threaded stem	M.	5x10	5x15
<b>2817B</b>	<b>Each</b>	<b>5,10</b>	<b>6,86</b>

Lever magnetic chucks, round- or rectangular-shaped, standard and thick polarity available on request.

### SETS OF CLAMPING DEVICES

**2821A****SCU****Prod. SCU**

Set for "CAVA" mm 12:

2 pcs. x Art. 2828 L- R / 4 pcs. x Art. 2828 P / 4 pcs. x Art. 2822 C - 2828 C.

2 pcs. x Art. 2829 A 12x80 complete with nuts and washers/ 4 pcs. x Art. 2829 A 12x125 complete with nuts and washers.

2 x pcs. Art. 2829 E 10x80 - 10x100 complete with nuts and washers.

4 x pcs. Art. 2829 R 10 / 6 pcs. x Art. 2829 P12 / 4 pcs. x Art. 2829 F 10 / 6 pcs. x washers hole Ø: 13mm.

Supplied in case.

<b>2821A</b>	<b>Each</b>	<b>452,00</b>
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**2821B****SCU**

The set for 14mm SLOTT contains: 14mm:

2 pcs x Art. 2828 L- R / 4 pcs. Art. 2828 P / 4 pcs. x Art. 2822 E - 2828 C.

2 pcs. x Art. 2829 A 14x100 complete with nuts and washers / 4 pcs. x Art. 2829 A 14x150 complete with nuts and washers.

2 pcs. x Art. 2829 E 12x80 - 12x160 complete with nuts and washers.

4 pcs. x Art. 2829 R 12 / 6 pcs. Art. 2829 P 14 / 4 pcs. x Art. 2829 F 12 / 6 pcs. x washers hole Ø: 15mm.

Supplied in case.

<b>2821B</b>	<b>Each</b>	<b>485,00</b>
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**2821E****SCU**

Set for 16mm"CAVA":

2 pcs. x Art. 2828 L- R / 4 pcs. x Art. 2828 P / 4 pcs. x Art.2822 H - 2828 D.

4 pcs. x Art. 2829 A 16x150 complete with nuts and washers/ 2 pcs. x Art. 2829 A 16x150 complete with nuts and washers.

2 pcs. x Art. 2829 E 14x100 - 14x150 complete with nuts and washers.

4 pcs. x Art. 2829 R 14 / 6 pcs. x Art. 2829 P 16 / 4 pcs. x Art. 2829 F 14 / 6 pcs. x washers hole Ø: 17mm.

Supplied in case.

<b>2821E</b>	<b>Each</b>	<b>569,00</b>
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**2821F****SCU**

The set for 18mm SLOTT contains:

2 pcs. x Art. 2828 L- R / 4 pcs. x Art. 2828 P / 4 pcs. x Art. 2822 H - 2828 D.

4 pcs. x Art. 2829 A 18x150 complete with nuts and washers / 2 pcs. x Art. 2829 A 18x200 complete with nuts and washers.

2 pcs. x Art. 2829 E 16x125 - 16x160 complete with nuts and washers.

4 pcs. x Art. 2829 R 16 / 6 pcs. x Art. 2829 P 18 / 4 pcs. x Art. 2829 F 16 / 6 pcs. x washers hole Ø: 19mm.

Supplied in case.

<b>2821F</b>	<b>Each</b>	<b>619,00</b>
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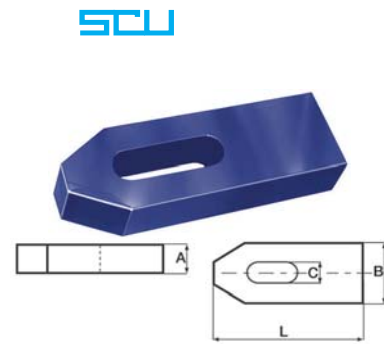
**CLAMPING DEVICES**

**Prod. SCU**

In special steel, hardened. Enamelled.  
Simple construction - DIN 6314.

Art.		2822A	2822B	2822C	2822E	2822H	2822L	2822P	2822R
Bolts thread	M.	8	10	12-14	12-14	16-18	16-18	20-22	20-22
Groove (C) width	mm	9	11	14	14	18	18	22	22
Length (L)	mm	60	80	100	125	125	160	160	200
Thickness (A)	mm	12	15	20	20	25	25	30	30
Width (B)	mm	25	30	40	40	50	50	60	60
<b>Each</b>		<b>7,24</b>	<b>7,94</b>	<b>11,10</b>	<b>13,00</b>	<b>17,40</b>	<b>20,90</b>	<b>26,80</b>	<b>33,50</b>

Art.		2822S	2822T
Bolts thread	M.	24	24
Groove (C) width	mm	26	26
Length (L)	mm	200	250
Thickness (A)	mm	30	30
Width (B)	mm	70	70
<b>Each</b>		<b>38,50</b>	<b>48,50</b>

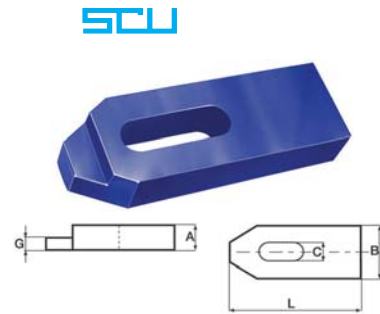


2822A  
2822B  
2822C  
2822E  
2822H  
2822L  
2822P  
2822R  
2822S  
2822T

Product description as Art. 2822A

Simple construction, thin extremity.

Art.		2823A	2823B	2823C	2823E	2823F	2823L	2823P	2823R
Bolts thread	M.	8	10	12-14	12-14	16-18	16-18	20-22	20-22
Groove (C) width	mm	9	11	14	14	18	18	22	22
Length (L)	mm	60	80	100	125	125	160	160	200
Thickness (A)	mm	12	15	20	20	25	25	30	30
Width (B)	mm	25	30	40	40	50	50	60	60
End (G) thickness	mm	7	9	12	12	15	15	20	20
<b>Each</b>		<b>11,80</b>	<b>13,40</b>	<b>16,80</b>	<b>18,40</b>	<b>21,80</b>	<b>23,50</b>	<b>31,80</b>	<b>35,20</b>

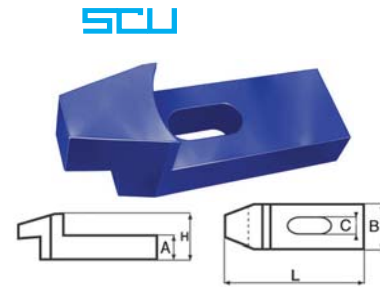


2823A  
2823B  
2823C  
2823E  
2823F  
2823L  
2823P  
2823R

Product description as Art. 2822A

Simple construction, bent extremity - DIN 6316.

Art.		2824A	2824B	2824C	2824D	2824E	2824F	2824L
Bolts thread	M.	12-14	16-18	16-18	20-22	20-22	24	24
Groove (C) width	mm	14	18	18	22	22	26	26
Length (L)	mm	125	160	200	160	200	200	250
Thickness (A)	mm	20	25	25	30	30	35	35
Width (B)	mm	40	50	50	60	60	70	70
Overall height (H)	mm	40	50	50	60	60	70	70
<b>Each</b>		<b>21,60</b>	<b>34,50</b>	<b>55,20</b>	<b>52,40</b>	<b>59,90</b>	<b>82,10</b>	<b>95,40</b>

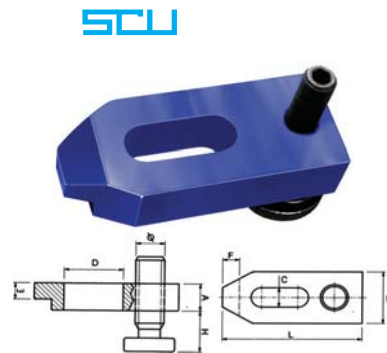


2824A  
2824B  
2824C  
2824D  
2824E  
2824F  
2824L

Product description as Art. 2822A

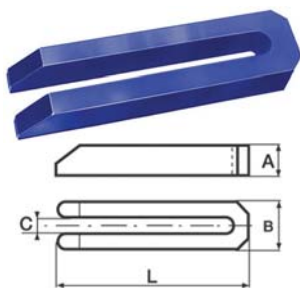
Simple construction, thin extremity and adjustable screw - DIN 6314AT.

Art.		2824M	2824P	2824Q	2824R	2824S	2824T	2824V	2824Z
Bolts thread	M.	12-14	12-14	16-18	16-18	20-22	20-22	24	24
Groove (C) width	mm	15	15	19	19	23	23	27	27
Length (L)	mm	125	160	160	200	160	200	200	250
Thickness (A)	mm	20	20	25	25	30	30	40	40
Width (B)	mm	40	40	50	50	60	60	70	70
End (E) thickness	mm	12	12	15	15	15	15	25	25
Adjustable height (H)	mm	15-50	15-50	15-70	15-70	15-70	15-70	15-70	15-70
Screw diameter	mm	20x4	20x4	30x6	30x6	30x6	30x6	30x6	30x6
<b>Each</b>		<b>28,50</b>	<b>30,10</b>	<b>40,20</b>	<b>43,50</b>	<b>46,90</b>	<b>51,90</b>	<b>61,90</b>	<b>68,60</b>



2824M  
2824P  
2824Q  
*new*  
2824R  
2824S  
2824T  
2824V  
2824Z

**2825A** SCU  
**2825B**  
**2825C**  
**2825E**  
**2825F**  
**2825L**  
**2825P**  
**2825R**  
**2825RA**  
**2825S**  
**2825T**



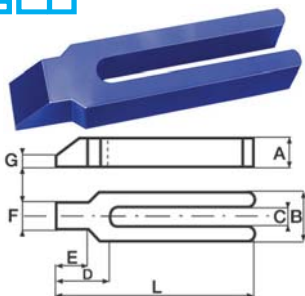
Product description as Art. 2822A  
 Grooved-type, chamfered - DIN 6315 B.

Art.	2825A	2825B	2825C	2825E	2825F	2825L	2825P
Bolts thread	M. 8	10	12-14	12-14	16-18	16-18	20-22
Groove (C) width	mm 9	11	14	14	18	18	22
Length (L)	mm 80	100	125	160	160	200	200
Thickness (A)	mm 15	20	25	25	30	30	40
Width (B)	mm 25	30	40	40	50	50	50
<b>Each</b>	<b>10,40</b>	<b>11,80</b>	<b>12,40</b>	<b>14,10</b>	<b>17,40</b>	<b>19,50</b>	<b>26,80</b>

Art.	2825R	2825RA	2825S	2825T
Bolts thread	M. 20-22	24	24	24
Groove (C) width	mm 22	26	26	26
Length (L)	mm 250	200	250	315
Thickness (A)	mm 40	40	40	40
Width (B)	mm 60	70	70	70
<b>Each</b>	<b>33,30</b>	<b>29,90</b>	<b>37,10</b>	<b>54,70</b>

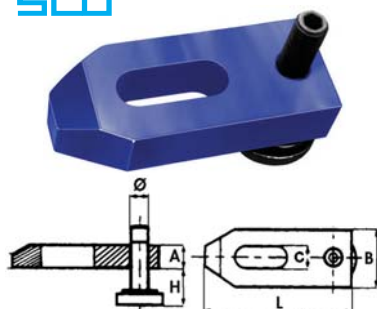
**2826A** SCU  
**2826B**  
**2826C**  
**2826E**  
**2826L**



Product description as Art. 2822A  
 Grooved-type, with pin.

Art.	2826A	2826B	2826C	2826E	2826L
Bolts thread	M. 8	10	12-14	16-18	20-22
Groove (C) width	mm 9	11	14	18	22
Length (L)	mm 100	125	160	200	250
Thickness (A)	mm 15	20	25	30	40
Width (B)	mm 30	30	40	50	60
Nib (F) width	mm 16	20	25	28	35
<b>Each</b>	<b>16,10</b>	<b>19,50</b>	<b>24,10</b>	<b>33,90</b>	<b>55,90</b>

**2827A** SCU  
**2827B**  
**2827D**  
**2827E**



Product description as Art. 2822A  
 Simple construction type with adjusting screw - Similar to DIN 6314.

Art.	2827A	2827B	2827D	2827E
Bolts thread	M. 10	12-14	16-18	20-22
Groove (C) width	mm 11	14	18	22
Length (L)	mm 80	100	125	160
Thickness (A)	mm 15	20	25	30
Width (B)	mm 30	40	50	60
Adjustable height (H)	mm 8-28	10-32	13-40	18-60
Screw diameter	M. 10	12	16	20
<b>Each</b>	<b>21,30</b>	<b>25,30</b>	<b>36,40</b>	<b>55,20</b>

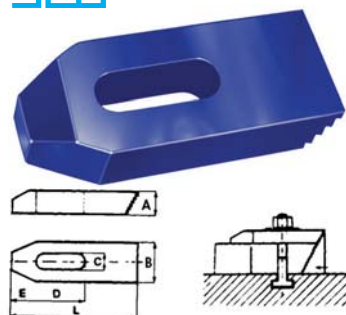
**2827GL** SCU  
**2827GP**  
**2827GT**



Product description as Art. 2822A  
 Curved-type, adjustable. Complete with screw for nuts, nut and washer. Suitable to tighten thick items in restricted areas.

Art.	2827GL	2827GP	2827GT
Length (L)	mm 140	140	175
Width (B)	mm 50	50	60
Height (H) up to	mm 50	75	85
Screw thread	M. 12x125	16x160	20x200
Bore (B1) Ø	mm 17	17	21
<b>Each</b>	<b>90,10</b>	<b>96,80</b>	<b>144,00</b>

**2828A** SCU  
**2828B**  
**2828C**  
**2828D**  
**2828E**  
**2828F**

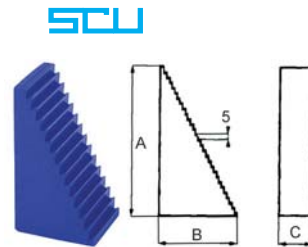


Product description as Art. 2822A  
 Simple construction, toothed extremity.

Art.	2828A	2828B	2828C	2828D	2828E	2828F
Groove (C) width	mm 9	11	14	18	22	26
Length (L)	mm 60	80	100	125	160	200
Thickness (A)	mm 15	15	20	25	30	30
Width (B)	mm 25	30	40	50	60	70
Screw thread	M. 8	10	12-14	16-18	20-22	24
<b>Each</b>	<b>11,80</b>	<b>15,10</b>	<b>17,20</b>	<b>25,10</b>	<b>35,20</b>	<b>50,20</b>

Toothed supports, particularly suitable to be used in combination with Art. 2828 A-B-C-D-E-F.

Art.		2828L	2828P	2828R
Thickness (C)	mm	30	30	30
Width (B)	mm	23	35	68
Overall height (A)	mm	32	64	128
Tooth height	mm	5	5	5
	<b>Each</b>	<b>7,68</b>	<b>14,10</b>	<b>20,90</b>



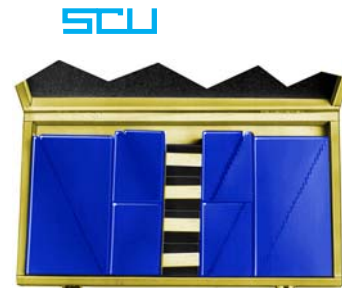
**2828L**  
**2828P**  
**2828R**

Sets of toothed supports.

Each set contains:  
8 pcs. x Art. 2828 L  
8 pcs. x Art. 2828 P  
4 pcs. x Art. 2828 R  
Supplied in case.

<b>2828S</b>	<b>Each</b>	<b>352,00</b>
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Available on request: couples of side clamps for contemporaneous vertical/horizontal clamping.



**2828S**

In UNI 42 CrMo4 steel.

According to ASTM A 193-B7 standard - class 10.9 - Threaded bars with thread obtained by rolling.

Thread	M.	8	10	12	14	16	18	20
<b>2829</b>	<b>Each</b>	<b>7,54</b>	<b>11,10</b>	<b>12,90</b>	<b>18,40</b>	<b>23,50</b>	<b>26,80</b>	<b>33,50</b>

Thread	M.	22	24
<b>2829</b>	<b>Each</b>	<b>41,90</b>	<b>53,60</b>



**SCU**

**2829**

In special steel, hardened. Burnished. Screws for T-nuts - DIN 787.

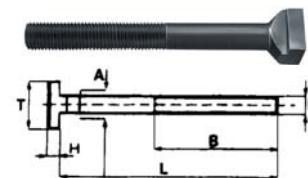
Thread.(D) x length (L) Mxmm		8x32	8x50	8x80	10x40	10x63	10x100	12x63
Thread (B) length	mm	22	35	50	30	45	60	45
Body Ø (A)	mm	7,7	7,7	7,7	9,7	9,7	9,7	11,7
Head dimensions (TxH)	mm	13x6	13x6	13x6	15x6	15x6	15x6	18x7
<b>2829A</b>	<b>Each</b>	<b>11,40</b>	<b>11,80</b>	<b>12,20</b>	<b>4,68</b>	<b>4,86</b>	<b>5,18</b>	<b>5,18</b>

Thread.(D) x length (L) Mxmm		12x80	12x125	12x200	14x63	14x100	14x150	14x230
Thread (B) length	mm	55	75	120	40	65	100	150
Body Ø (A)	mm	11,7	11,7	11,7	13,7	13,7	13,7	13,7
Head dimensions (TxH)	mm	18x7	18x7	18x7	22x8	22x8	22x8	22x8
<b>2829A</b>	<b>Each</b>	<b>5,36</b>	<b>5,70</b>	<b>6,36</b>	<b>5,36</b>	<b>5,70</b>	<b>6,20</b>	<b>7,54</b>

Thread.(D) x length (L) Mxmm		16x80	16x100	16x160	16x250	18x150	18x200	20x80
Thread (B) length	mm	55	63	100	150	100	125	55
Body Ø (A)	mm	15,7	15,7	15,7	15,7	17,7	17,7	19,7
Head dimensions (TxH)	mm	25x9	25x9	25x9	25x9	28x10	28x10	32x12
<b>2829A</b>	<b>Each</b>	<b>6,20</b>	<b>6,86</b>	<b>7,70</b>	<b>8,86</b>	<b>7,86</b>	<b>9,20</b>	<b>8,86</b>

Thread.(D) x length (L) Mxmm		20x125	20x160	20x250	22x100	22x150	22x230	24x100
Thread (B) length	mm	85	110	150	63	100	150	70
Body Ø (A)	mm	19,7	19,7	19,7	21,7	21,7	21,7	23,7
Head dimensions (TxH)	mm	32x12	32x12	32x12	35x14	35x14	35x14	40x16
<b>2829A</b>	<b>Each</b>	<b>10,10</b>	<b>10,90</b>	<b>15,10</b>	<b>13,40</b>	<b>15,10</b>	<b>18,40</b>	<b>15,10</b>

Thread.(D) x length (L) Mxmm		24x160	24x250
Thread (B) length	mm	110	150
Body Ø (A)	mm	23,7	23,7
Head dimensions (TxH)	mm	40x16	40x16
<b>2829A</b>	<b>Each</b>	<b>17,60</b>	<b>26,10</b>



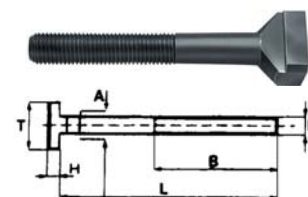
**SCU**

**2829A**

Screws for T-nuts - DIN 787 (Oversize head).

Thread.(D) x length (L) Mxmm		12x50	12x80	12x125	14x63	14x100	14x160	16x100	16x160
Thread (B) length	mm	35	55	75	45	63	100	63	100
Body Ø (A)	mm	13,7	13,7	13,7	15,7	15,7	15,7	17,7	17,7
Head dimensions (TxH)	mm	22x8	22x8	22x8	25x9	25x9	25x9	28x10	28x10
<b>2829B</b>	<b>Each</b>	<b>6,02</b>	<b>7,02</b>	<b>7,86</b>	<b>6,70</b>	<b>7,02</b>	<b>7,86</b>	<b>9,70</b>	<b>11,10</b>

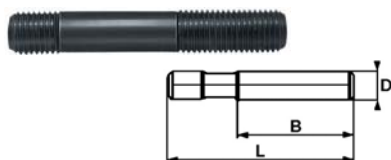
Thread.(D) x length (L) Mxmm		16x200	16x250	20x100	20x160	20x200	24x125	24x200	24x250
Thread (B) length	mm	125	150	63	110	125	85	125	150
Body Ø (A)	mm	17,7	17,7	21,7	21,7	21,7	27,7	27,7	27,7
Head dimensions (TxH)	mm	28x10	28x10	35x14	35x14	35x14	44x18	44x18	44x18
<b>2829B</b>	<b>Each</b>	<b>11,90</b>	<b>13,40</b>	<b>15,30</b>	<b>17,90</b>	<b>19,80</b>	<b>19,40</b>	<b>23,80</b>	<b>29,10</b>



**SCU**

**2829B**

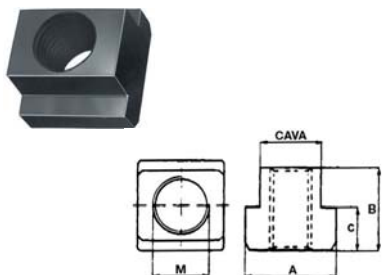
### 2829E SCU



Threaded pins (stud bolts) DIN 6379.

Thread.(D) x length (L) Mxmm		<b>8x40</b>	<b>8x63</b>	<b>8x80</b>	<b>8x125</b>	<b>10x50</b>	<b>10x80</b>	<b>10x100</b>
Thread (B) length	mm	20	40	50	75	25	50	75
<b>2829E</b>	Each	<b>0,86</b>	<b>0,92</b>	<b>1,18</b>	<b>1,68</b>	<b>1,04</b>	<b>1,22</b>	<b>1,52</b>
Thread.(D) x length (L) Mxmm		<b>10x160</b>	<b>12x63</b>	<b>12x80</b>	<b>12x125</b>	<b>12x200</b>	<b>14x63</b>	<b>14x100</b>
Thread (B) length	mm	100	32	50	75	125	32	63
<b>2829E</b>	Each	<b>2,10</b>	<b>1,64</b>	<b>1,78</b>	<b>2,12</b>	<b>3,02</b>	<b>1,66</b>	<b>1,90</b>
Thread.(D) x length (L) Mxmm		<b>14x160</b>	<b>14x200</b>	<b>16x100</b>	<b>16x160</b>	<b>16x200</b>	<b>16x250</b>	<b>18x80</b>
Thread (B) length	mm	100	125	63	100	125	160	50
<b>2829E</b>	Each	<b>2,66</b>	<b>3,10</b>	<b>2,68</b>	<b>3,56</b>	<b>4,18</b>	<b>4,86</b>	<b>2,68</b>
Thread.(D) x length (L) Mxmm		<b>18x160</b>	<b>18x200</b>	<b>20x125</b>	<b>20x160</b>	<b>20x200</b>	<b>20x250</b>	<b>22x100</b>
Thread (B) length	mm	100	125	70	100	125	160	45
<b>2829E</b>	Each	<b>4,18</b>	<b>4,86</b>	<b>4,02</b>	<b>4,86</b>	<b>5,70</b>	<b>6,70</b>	<b>4,18</b>
Thread.(D) x length (L) Mxmm		<b>22x160</b>	<b>22x200</b>	<b>22x250</b>	<b>24x160</b>	<b>24x200</b>	<b>24x250</b>	
Thread (B) length	mm	100	125	160	100	125	160	
<b>2829E</b>	Each	<b>6,02</b>	<b>6,70</b>	<b>8,36</b>	<b>6,36</b>	<b>7,36</b>	<b>9,04</b>	

### 2829F SCU



Threaded plugs for T-nuts, square - DIN 508.

Type		<b>8</b>	<b>10</b>	<b>12</b>	<b>12A</b>	<b>14</b>	<b>16</b>	<b>16A</b>
Thread (M)	M.	8	10	12	12	14	16	16
Size (GROOVE)	mm	10	12	14	16	16	18	20
Plug dimensions (AxB)	mm	15x12	18x14	22x16	25x18	25x18	28x20	32x24
Height (C)	mm	6	7	8	9	9	10	12
<b>2829F</b>	Each	<b>2,04</b>	<b>2,24</b>	<b>2,48</b>	<b>3,44</b>	<b>3,08</b>	<b>3,88</b>	<b>5,86</b>
Type		<b>18</b>	<b>20</b>	<b>22</b>	<b>24</b>			
Thread (M)	M.	18	20	22	24			
Size (GROOVE)	mm	20	22	24	28			
Plug dimensions (AxB)	mm	32x24	35x28	40x32	44x35			
Height (C)	mm	12	14	16	18			
<b>2829F</b>	Each	<b>5,72</b>	<b>6,16</b>	<b>9,74</b>	<b>11,70</b>			

Available on request: nuts for "T" slots, without hole.

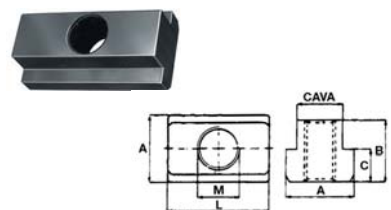
### 2829G SCU



Plugs for T-nuts, square, DIN 508 R.

Size (GROOVE)		<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>18</b>	<b>20</b>	<b>22</b>	<b>24</b>
Plug dimensions (AxB)	M.	13x10	15x12	18x14	22x16	25x18	28x20	32x24	35x28	40x32
Height "C"	mm	6	6	7	8	9	10	12	14	16
<b>2829G</b>	Each	<b>1,52</b>	<b>1,52</b>	<b>1,68</b>	<b>2,02</b>	<b>2,52</b>	<b>3,02</b>	<b>4,18</b>	<b>5,36</b>	<b>8,36</b>

### 2829L SCU



Threaded plugs for T-nuts, rectangular

Thread (M)	M.	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>18</b>	<b>18</b>
Size (GROOVE)	mm	10	12	14	16	18	18	20
Plug dimensions (AxLxB)	mm	15x30x12	18x36x14	22x44x16	25x50x18	28x56x20	32x64x24	
Height (C)	mm	6	7	8	9	10	12	
<b>2829L</b>	Each	<b>3,34</b>	<b>3,68</b>	<b>5,36</b>	<b>6,02</b>	<b>7,54</b>	<b>10,40</b>	
Thread (M)	M.	<b>20</b>	<b>22</b>	<b>24</b>				
Size (GROOVE)	mm	22	24	28				
Plug dimensions (AxLxB)	mm	35x70x28	40x80x32	44x88x36				
Height (C)	mm	14	16	18				
<b>2829L</b>	Each	<b>14,30</b>	<b>20,10</b>	<b>26,80</b>				

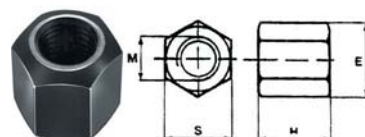
### 2829M SCU



Threaded plugs for T-nuts, rhomboidal

Thread (M)	M.	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>18</b>	<b>20</b>	<b>24</b>
Size (GROOVE)	mm	12	14	16	18	20	22	28
Plug dimensions (AxB)	mm	18x14	22x16	25x18	28x20	32x24	36x28	44x36
Height (C)	mm	7	8	9	10	12	14	18
<b>2829M</b>	Each	<b>6,52</b>	<b>7,54</b>	<b>8,36</b>	<b>9,38</b>	<b>13,40</b>	<b>15,10</b>	<b>20,10</b>

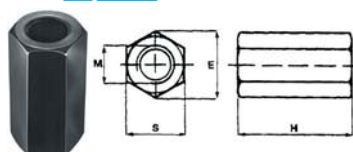
### 2829P SCU



In special steel, hardened. Burnished. Hexagon high nuts, lathed. DIN 6330 B.

Thread (M)	M.	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>18</b>	<b>20</b>	<b>22</b>	<b>24</b>
Height x key opening (HxS)	mm	12x13	15x17	18x19	21x22	24x24	27x27	30x30	33x32	36x36
<b>2829P</b>	Each	<b>0,62</b>	<b>0,78</b>	<b>1,00</b>	<b>1,24</b>	<b>1,58</b>	<b>2,22</b>	<b>2,66</b>	<b>3,64</b>	<b>4,62</b>

### 2829R SCU



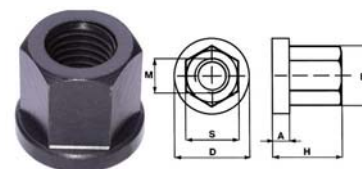
Nuts for threaded pins.

Thread (M)	M.	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>18</b>	<b>20</b>
Height x key opening (HxS)	mm	24x13	30x17	36x19	42x22	48x24	54x27	60x30
<b>2829R</b>	Each	<b>1,36</b>	<b>1,56</b>	<b>1,80</b>	<b>2,46</b>	<b>2,60</b>	<b>4,88</b>	<b>4,68</b>
Thread (M)	M.	<b>22</b>	<b>24</b>					
Height x key opening (HxS)	mm	66x32	72x36					
<b>2829R</b>	Each	<b>7,14</b>	<b>8,00</b>					

## Nuts with washer

Thread (M)	M.	8	10	12	14	16	18	20
Height x key opening (HxS)	mm	12x13	15x17	18x19	21x22	24x24	27x27	30x30
Washer (D) Ø	mm	18	22	25	28	31	34	37
Washer (A) thickness	mm	3,5	4	4	4,5	5	5	6
<b>2829RA</b>	<b>Each</b>	<b>1,42</b>	<b>1,58</b>	<b>1,94</b>	<b>2,50</b>	<b>2,96</b>	<b>5,62</b>	<b>4,68</b>

Thread (M)	M.	22	24
Height x key opening (HxS)	mm	33x32	36x36
Washer (D) Ø	mm	40	45
Washer (A) thickness	mm	6	6
<b>2829RA</b>	<b>Each</b>	<b>7,02</b>	<b>8,84</b>

**2829RA**


## Convex washers, DIN 6319 C.

For screws	M.	8	10	12	14	16	20	24
Bore Ø	mm	8,4	10,5	13	15	17	21	25
Ext. Ø x length	mm	17x3,2	21x4	24x4,6	28x5	30x5,3	36x6,3	44x8,2
<b>2829S</b>	<b>Each</b>	<b>0,76</b>	<b>0,90</b>	<b>1,10</b>	<b>1,34</b>	<b>1,70</b>	<b>1,98</b>	<b>2,84</b>

**2829S**


## Wide washers, DIN 6340.

For screws	M.	8	10	12	14	16	18	20
Bore Ø	mm	8,4	10,5	13	15	17	19	21
Ext. Ø x length	mm	23x4	28x4	35x5	40x5	45x6	45x6	50x6
<b>2829T</b>	<b>Each</b>	<b>0,52</b>	<b>0,68</b>	<b>0,84</b>	<b>0,98</b>	<b>1,18</b>	<b>1,34</b>	<b>1,64</b>

**2829T**


For screws	M.	22	24
Bore Ø	mm	23	25
Ext. Ø x length	mm	50x8	60x8
<b>2829T</b>	<b>Each</b>	<b>2,24</b>	<b>2,90</b>

## Turned washers

For screws	M.	8	10	12	14	16	18	20
Bore Ø	mm	8,4	10,5	13	15	17	19	21
Ext. Ø x length	mm	18x4	22x4	28x5	35x6	35x6	40x6	40x6
<b>2829TA</b>	<b>Each</b>	<b>0,66</b>	<b>0,80</b>	<b>0,88</b>	<b>1,20</b>	<b>1,26</b>	<b>1,42</b>	<b>1,42</b>

**2829TA**


For screws	M.	22	24
Bore Ø	mm	23	25
Ext. Ø x length	mm	45x8	45x8
<b>2829TA</b>	<b>Each</b>	<b>1,68</b>	<b>1,84</b>

## Concave washers, DIN 6319 D.

For screws	M.	8	10	12	14	16	20	24
Bore Ø	mm	9,6	12	14,2	16,5	19	23,2	28
Ext. Ø x length	mm	17x3,5	21x4,2	24x5	28x5,6	30x6,2	36x7,5	44x9,5
<b>2829V</b>	<b>Each</b>	<b>0,76</b>	<b>0,90</b>	<b>1,10</b>	<b>1,34</b>	<b>1,70</b>	<b>1,98</b>	<b>2,84</b>

**2829V**


## Concave washers, oversize DIN 6319 G.

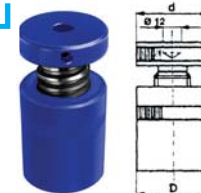
For screws	M.	8	10	12	14	16	20	24
Bore Ø	mm	9,6	12	14,2	16,5	19	23,2	28
Ext. Ø x length	mm	23x4	28x5	35x5	40x5	45x6	50x8	60x10
<b>2829Z</b>	<b>Each</b>	<b>1,26</b>	<b>1,42</b>	<b>1,52</b>	<b>1,68</b>	<b>2,02</b>	<b>4,36</b>	<b>4,86</b>

**2829Z**


## Screw-adjustable supports. Enamelled.

Max height	mm	50	70	100	140	210
Min height	mm	38	54	70	100	140
Base Ø x plate (Dxd)	mm	34x34	50x50	50x50	70x65	80x70
Max load capacity	kN	20	60	60	105	180
Weight	Kg	0,19	0,62	0,90	2,60	4,60
<b>2830A</b>	<b>Each</b>	<b>21,80</b>	<b>33,50</b>	<b>38,50</b>	<b>66,90</b>	<b>114,00</b>

50mm size has no central hole.

**2830A**


## High-type. (ATLAS model).

Max height	mm	140	200	320	550
Min height	mm	100	140	200	320
Fastening groove (A) width	mm	18	18	22	22
Max load capacity	kN	60	60	40	25
Weight	Kg	1,75	2,20	3,40	4,85
<b>2830B</b>	<b>Each</b>	<b>83,70</b>	<b>109,00</b>	<b>151,00</b>	<b>210,00</b>

**2830B**

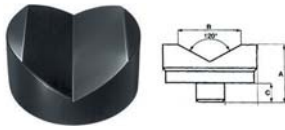

### 2830E



Rods for Art. 2830 A (except 50mm) and 2830 B.

Shape	convex	
Support (B) Ø	mm	37
Height (A-C)	mm	18-8
<b>2830E</b>	<b>Each</b>	<b>16,80</b>

### 2830L



Product description as Art. 2830E

Shape	prismatic	
Support (B) Ø	mm	32
Height (A-C)	mm	23-8
<b>2830L</b>	<b>Each</b>	<b>26,80</b>

### 2830M



Product description as Art. 2830E

Shape	prismatic	
Support (B) Ø	mm	56
Height (A-C)	mm	38-8
<b>2830M</b>	<b>Each</b>	<b>36,80</b>

## CLAMPING DEVICES

### 2831GA



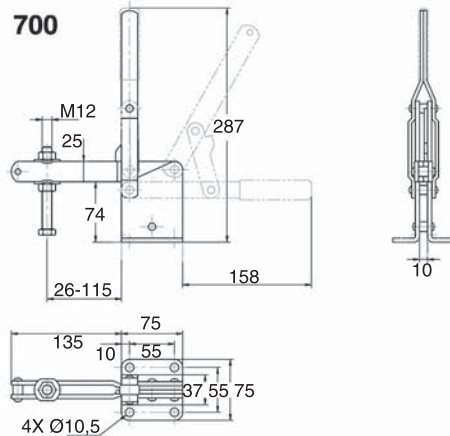
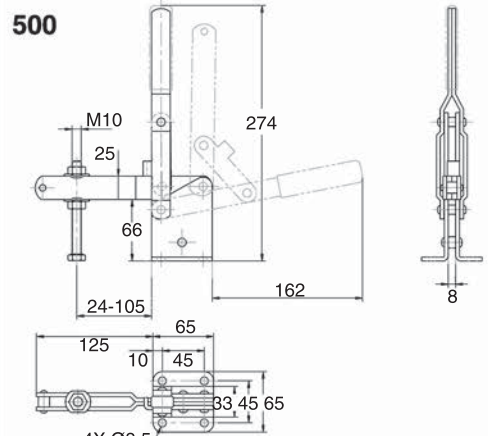
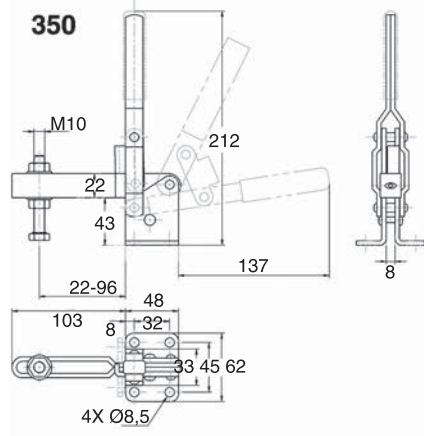
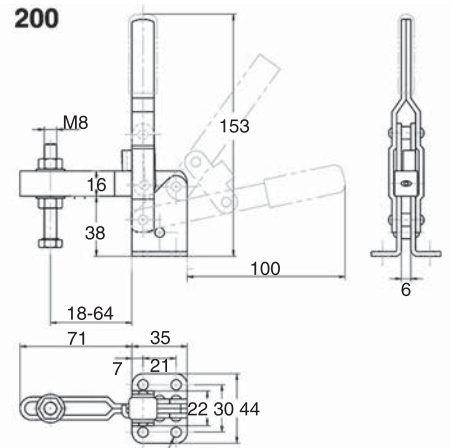
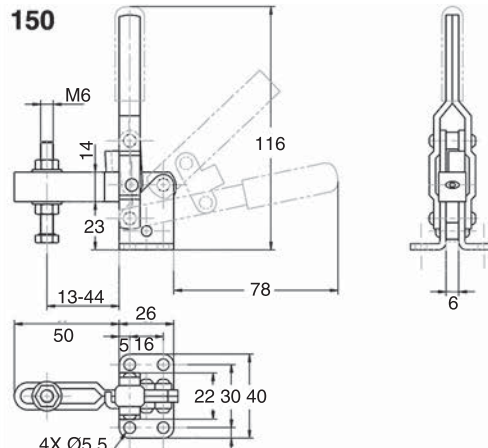
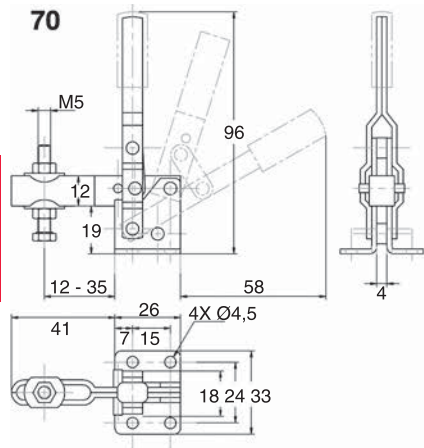
Prod. SCU

Secure and consistently high quality clamping devices. Double lever function, which does not allow any uncoupling during sealing. Galvanised steel with vinyl handle and stainless steel rivets. Comes complete with threaded hexagonal steel tip. Max. force expressed in daN.

Vertical type, flat base.

Max. force	daN	<b>70</b>	<b>150</b>	<b>200</b>	<b>350</b>	<b>500</b>	<b>700</b>
Threaded screw Ø	M	5	6	8	10	10	12
Hexagonal tip dimensions	mm	8	10	13	16	16	18
Weight	grams	100	210	315	740	1180	1650
<b>2831GA</b>	<b>Each</b>	<b>19,40</b>	<b>21,10</b>	<b>29,20</b>	<b>35,20</b>	<b>45,90</b>	<b>48,30</b>

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Prices in EURO - VAT not included



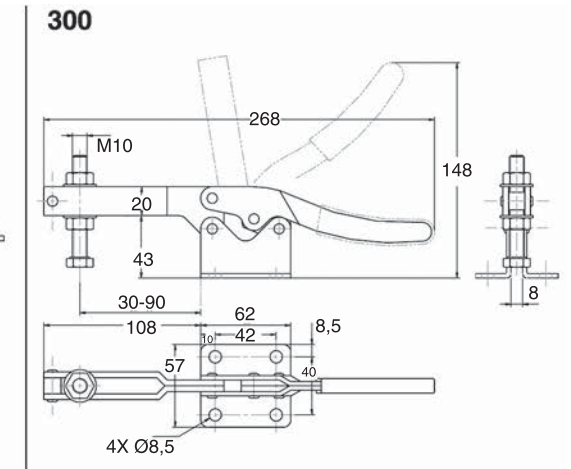
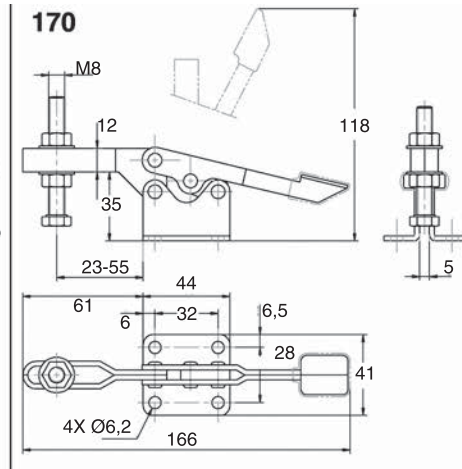
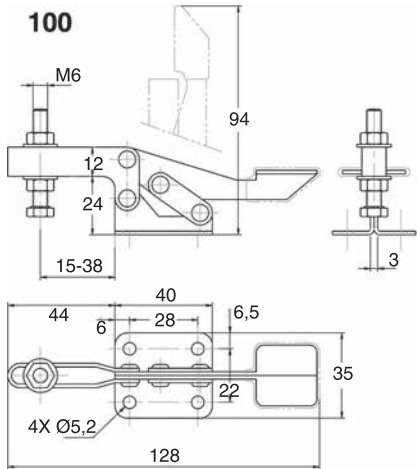
Product description as Art. 2831GA

Horizontal type, flat base.

Max. force	daN	100	170	300
Threaded screw Ø	M	6	8	10
Hexagonal tip dimensions	mm	10	13	16
Weight	grams	95	220	500
<b>2831GE</b>	<b>Each</b>	<b>21,30</b>	<b>22,60</b>	<b>37,40</b>

**SCU**

**2831GE**



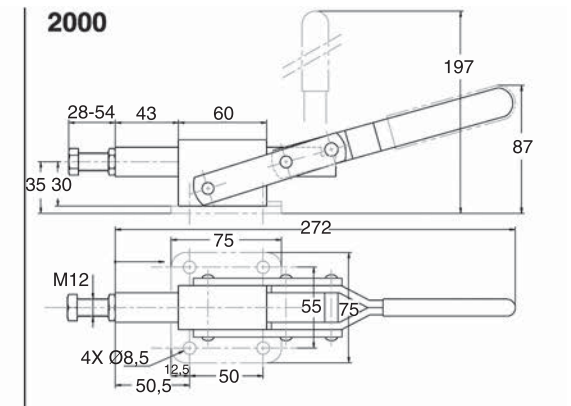
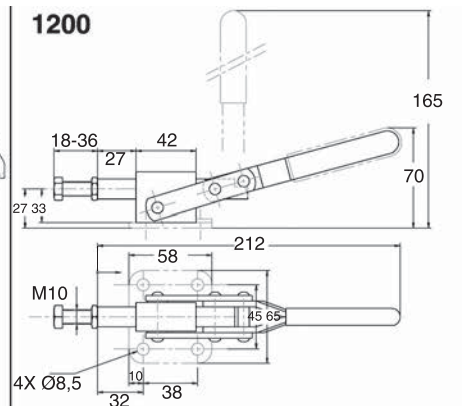
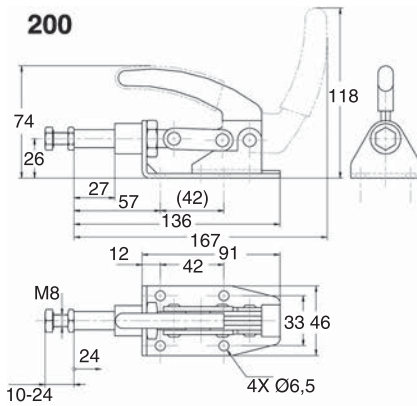
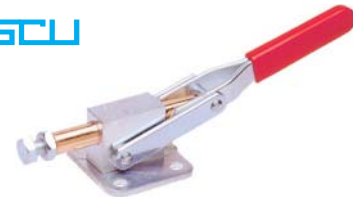
Product description as Art. 2831GA

Push-and-pull type, flat base.

Max. force	daN	200	1200	2000
Threaded screw Ø	M	8	10	12
Hexagonal tip dimensions	mm	13	16	18
Weight	grams	400	680	1500
<b>2831GL</b>	<b>Each</b>	<b>33,10</b>	<b>77,60</b>	<b>108,00</b>

**SCU**

**2831GL**



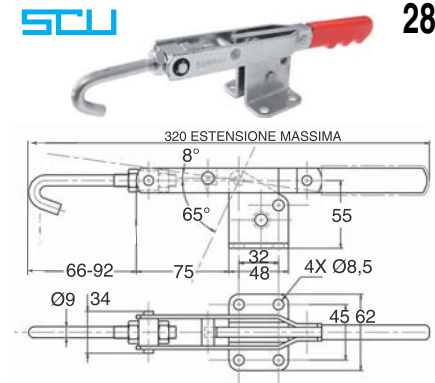
Product description as Art. 2831GA

Tie rod type with hook, flat base.

Max. force	daN	350
Tie-rod Ø	mm	9
Tie rod stroke	mm	26
Weight	grams	700
<b>2831GP</b>	<b>Each</b>	<b>49,10</b>

**SCU**

**2831GP**



Galvanised steel.

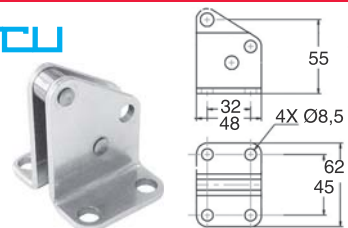
Supporting attachment as per Art. 2831 GP.

Weight 235 grams.

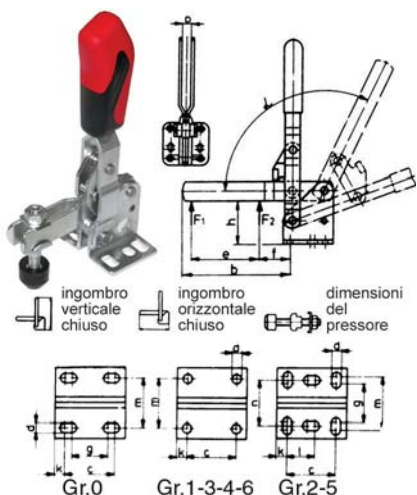
<b>2831GR</b>	<b>Each</b>	<b>15,90</b>
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**SCU**

**2831GR**



## 2832GA SCU



### Prod. SCU - Orig. AMF

High quality safe clamping devices. Double lever operated to avoid release during clamping. In galvanized steel, with oil-proof handle, hardened and ground support sockets. Complete with screw and shoe in sturdy hard rubber. Min. and max. holding forces (F1-F2) expressed in Newton (N).

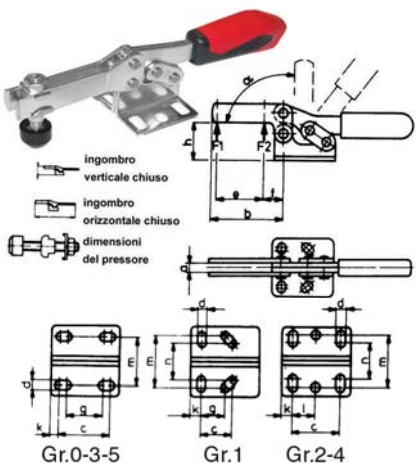
Vertical type, base plane.

Size		0	1	2	3	4	5	6
Force min F1	N	500	800	1000	1400	2000	3000	3500
Max. force F2	N	700	1100	1200	2500	3000	5000	5500
Vertical dimensions as closed	mm	90	105	144	206	230	300	347
Horizontal dimensions as closed	mm	49	60	82	112	140	195	230
Presser dimensions	mm	M 4x25	M 5x30	M 6x35	M 8x45	M 8x65	M 12x80	M 12x110
Weight	grams	60	105	175	410	630	1480	2200
<b>2832GA</b>	<b>Each</b>	<b>25,70</b>	<b>27,60</b>	<b>36,80</b>	<b>42,60</b>	<b>55,70</b>	<b>93,70</b>	<b>122,00</b>

#### DIMENSIONS:(mm)

Gr.	a	b	c	d	e	f	g	h	k	l	m	n	α
0	4	31	13,5	4,5	16	10	8,5	17,5	4,3	-	23	-	95°
1	5	38	16	4,5	19	14	-	20	5,5	-	24	-	95°
2	6	51	20	5,5	25	20	24	25	6	12,5	30	27	105°
3	8	80	20	7,1	43	27	-	34	7,5	-	32	-	105°
4	10	100	32	8,5	61	30	-	42	13	-	45	-	105°
5	14	142	45	8,5	88	40	45	55	9,5	31,5	50	45	115°
6	14	165	50	13	90	55	-	81	24,5	-	70	-	105°

## 2832GF SCU



Product description as Art. 2832GA

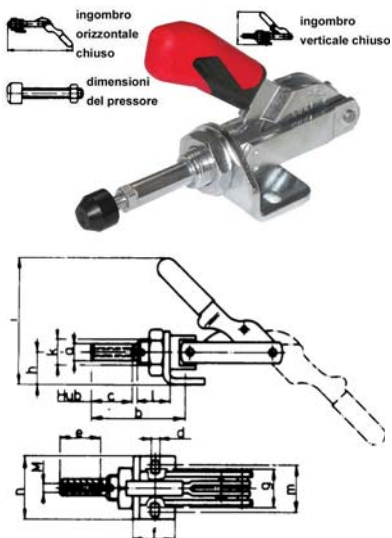
Horizontal type, base plane.

Size		0	1	2	3	4	5
Force min F1	N	250	800	1000	1800	2000	3000
Max. force F2	N	400	1100	1200	2500	3000	5000
Vertical dimensions as closed	mm	23	30	44	48	74	71
Horizontal dimensions as closed	mm	86	130	176	221	293	338
Presser dimensions	mm	M 4x25	M 5x30	M 6x35	M 8x45	M 8x65	M 8x65
Weight	grams	35	105	185	320	700	1080
<b>2832GF</b>	<b>Each</b>	<b>21,80</b>	<b>31,60</b>	<b>34,20</b>	<b>43,30</b>	<b>56,10</b>	<b>89,60</b>

#### DIMENSIONS:(mm)

Gr.	a	b	c	d	e	f	g	h	k	l	m	n	α
0	4	26	16	4,6	11	10	11,2	15	5	-	16	-	90°
1	5	40	15	4,8	26	11	13	20	5,5	-	22	18	90°
2	6	64	26	5,5	35	22	-	25	6	12,7	29	20	90°
3	8	72	25,5	6,5	44	22	-	33	7	-	29	23	90°
4	10	111	41	8,5	66	34	-	44	8	20,5	43	29	90°
5	10	121	41,5	8,5	78	30	41,5	46	12,5	-	41,5	-	90°

## 2832GL SCU



Product description as Art. 2832GA

Thrust and traction type, base plane.

Size		0	1	2	3	5
Force min F1	N	800	1000	2000	2500	4500
Max. force F2	N	800	1000	2000	2500	4500
Vertical dimensions as closed (i)	mm	46	60	95	96	131
Horizontal dimensions as closed	mm	96	121	165	190	239
Presser dimensions	mm	M 4x20	M 4x20	M 6x25	M 8x35	M 12x50
Weight	grams	65	125	325	445	880
<b>2832GL</b>	<b>Each</b>	<b>48,40</b>	<b>49,70</b>	<b>54,60</b>	<b>62,10</b>	<b>96,20</b>

#### DIMENSIONS:(mm)

Gr.	Ø a	b	c	d	e	f	g	h	k	l	m	n	M
0	6,5	33	16	4,5	13	16	16	12	M 10x1	10	16	25	M 4
1	8	44,5	20	4,5	20	20	16	15	M 12x1,5	16	19	30	M 4
2	10	57,5	25	5,5	25	28	-	20	M 16x1,5	19	36	50	M 6
3	12	69	32	6,5	30	30	30	25	M 20x1,5	22	42	60	M 8
5	16	81,5	40	8,5	50	35	30	30	M 24x1,5	25	45	65	M 12

Product description as Art. 2832GA

Threaded rod type, base plane.

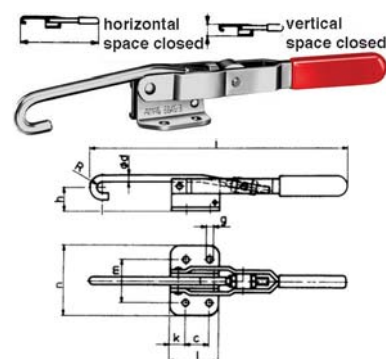
Size		1	3	5
Max. force F2	N	2000	3000	5000
Tie rod stroke	mm	5	12	12
Vertical dimensions as closed	mm	33	36	70
Horiz. dimensions as closed (i)	mm	148	242	320
Weight	grams	100	270	850
<b>2832GP</b>	<b>Each</b>	<b>45,20</b>	<b>50,30</b>	<b>81,40</b>

DIMENSIONS:(mm)

Gr.	b	c	d	g	h	k	l	m	n	R
1	36 - 41	19	5,3	4,5	22,5	6	31	28	41	4,5
3	67 - 79	19	7,1	5,5	23	13	40	32-35	46	5,5
5	58 - 70	29	12	11	49	13	55	60	88	8

**SCU**

**2832GP**



Product description as Art. 2832GA

Supports for Art. 2832 GP.

Size		1	3	5
Vertical dimensions as closed (i)	mm	29	29	61
Horiz. dimensions as closed (l)	mm	31	40	55
Weight	grams	40	70	320
<b>2832GS</b>	<b>Each</b>	<b>16,90</b>	<b>19,90</b>	<b>25,80</b>

DIMENSIONS:(mm)

Gr.	b	c	d	g	h	k	m	n	o
1	6	19	8	4,5	22,5	6	28	41	6,8
3	6	19	10	5,5	23	13	32-35	46	10,8
5	12	29	15	11	49	13	60	89	13,7

**SCU**

**2832GS**



**CLAMPING DEVICES IN STAINLESS STEEL**

**Prod. SCU - Orig. AMF**

High quality safe clamping devices. Double lever operated to avoid release during clamping. In galvanized steel, with oil-proof handle, hardened and ground support sockets. Complete with screw and shoe in sturdy hard rubber. Suitable for chemical and food industries, where special hygienic conditions are required and for critical applications due to unfavorable climatic conditions where particularly aggressive coolants are used. Min. and max. holding forces (F1-F2) expressed in Newton (N).

Vertical type, base plane.

Size		0	1	2	3
Force min F1	N	500	800	1000	1400
Max. force F2	N	700	1100	1200	2500
Vertical dimensions as closed	mm	90	105	144	206
Horizontal dimensions as closed	mm	49	60	82	112
Presser dimensions	mm	M 4x25	M 5x30	M 6x35	M 8x45
Weight	grams	60	105	175	335
<b>2834GA</b>	<b>Each</b>	<b>47,20</b>	<b>51,80</b>	<b>66,60</b>	<b>92,90</b>

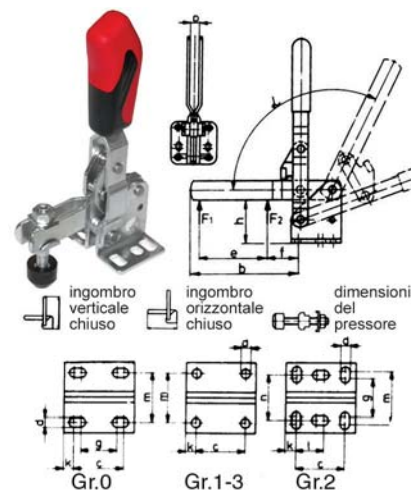
DIMENSIONS:(mm)

Gr.	a	b	c	d	e	f	g	h	k	l	m	n	α
0	4	31	13,5	4,5	16	10	8,5	17,5	4,3	-	23	-	95°
1	5	38	16	4,5	19	14	-	20	5,5	-	24	-	95°
2	6	51	20	5,5	25	20	24	25	6	12,5	30	27	105°
3	8	80	20	7,1	43	27	-	35	7,5	-	32	-	105°

**SCU**

**INOX**

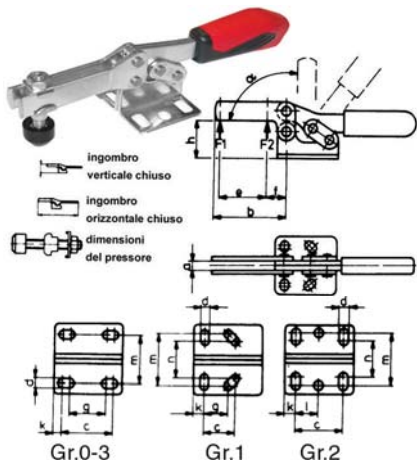
**2834GA**



**9**

### 2834GB

SCU INOX



Product description as Art. 2834GA

Horizontal type, base plane.

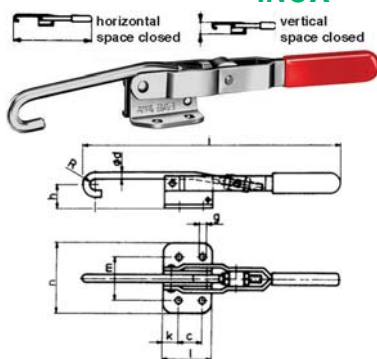
Size		0	1	2	3
Force min F1	N	250	800	1000	1800
Max. force F2	N	400	1100	1200	2500
Vertical dimensions as closed	mm	22	30	44	48
Horizontal dimensions as closed	mm	85	130	176	221
Presser dimensions	mm	M 4x25	M 5x30	M 6x35	M 8x45
Weight	grams	35	105	185	320
<b>2834GB</b>	<b>Each</b>	<b>41,60</b>	<b>58,70</b>	<b>65,40</b>	<b>80,90</b>

DIMENSIONS:(mm)

Gr.	a	b	c	d	e	f	g	h	k	l	m	n	α
0	4	26	16,0	4,3	11	10	11,2	15	4,0	-	16	-	90°
1	5	40	15,0	4,8	26	11	13,0	20	5,5	-	22	18	90°
2	6	64	26,0	5,5	35	22	-	25	6,0	12,7	29	20	90°
3	8	72	25,5	6,5	44	22	-	33	7,0	-	29	23	90°

### 2834GL

SCU INOX



Product description as Art. 2834GA

Threaded rod type, base plane.

Size		1	3	5
Max. force F2	N	1000	1500	2500
Tie rod stroke	mm	5	12	12
Vertical dimensions as closed	mm	33	36	70
Horiz. dimensions as closed (i)	mm	148	242	320
Weight	grams	100	270	850
<b>2834GL</b>	<b>Each</b>	<b>83,80</b>	<b>90,40</b>	<b>151,00</b>

DIMENSIONS:(mm)

Gr	b	c	d	g	h	k	l	m	n	R
1	36 - 41	19	6	4,5	22,5	6	31	28	41	4,5
3	67 - 79	19	8	5,5	23	13	40	32-35	46	5,5
5	58 - 70	29	12	11	49	13	55	60	88	8

### 2834GM

SCU INOX



Product description as Art. 2834GA

Supports for Art. 2834 GL.

Size		1	3	5
Vertical dimensions as closed (i)	mm	29	29	61
Horiz. dimensions as closed (l)	mm	31	40	55
Weight	grams	40	70	320
<b>2834GM</b>	<b>Each</b>	<b>43,40</b>	<b>50,20</b>	<b>68,40</b>

DIMENSIONS:(mm)

Gr.	b	c	d	g	h	k	m	n	o
1	6	19	8	4,5	22,5	6	28	41	6,8
3	6	19	10	5,5	23	13	32-35	46	10,8
5	12	29	15	11	49	13	60	89	13,7

## HAND VICES

### 2835GA

SCU



Prod. SCU

In forged steel. Knurled handle and through hole. Finely polished.

With wide jaws.

Overall length	mm	115	130
Jaws width	mm	16	20
<b>2835GA</b>	<b>Each</b>	<b>27,80</b>	<b>32,60</b>

### 2835GB

SCU



Product description as Art. 2835GA

With narrow jaws.

Overall length	mm	115	130
Jaws width	mm	8	8
<b>2835GB</b>	<b>Each</b>	<b>27,80</b>	<b>30,70</b>

Size mm 130 running out of stock.

In forged steel. Hardened jaws.

Inner spring. Zinc finish.

Sturdy model. Thumb locking.

Overall length	mm	85	100	120	130	145	160	180	200
Jaws width	mm	32	36	40	42	50	52	55	62
Max opening	mm	16	18	22	25	28	30	35	45
Weight	grams	200	280	420	530	660	910	1210	2000
<b>2836G</b>	<b>Each</b>	<b>23,10</b>	<b>23,40</b>	<b>26,40</b>	<b>30,10</b>	<b>34,90</b>	<b>39,40</b>	<b>58,30</b>	<b>82,40</b>

Locking thumb screws for Art. 2836 G.

For terminals	mm	85	100	120	130	145	160	180	200
<b>O2836G</b>	<b>Each</b>	<b>10,70</b>	<b>12,10</b>	<b>13,10</b>	<b>13,40</b>	<b>14,40</b>	<b>16,10</b>	<b>19,20</b>	<b>24,20</b>

**SCU**

**2836G**



Product description as Art. 2836G

Heavy model. Thumb locking.

Overall length	mm	145	160	180	200
Jaws width	mm	50	58	62	65
Max opening	mm	35	40	45	55
Weight	grams	1150	1400	2000	2300
<b>2836GE</b>	<b>Each</b>	<b>52,40</b>	<b>58,90</b>	<b>77,70</b>	<b>103,00</b>

Locking thumb screws for Art. 2836 GE.

For terminals	mm	145	160	180	200
<b>O2836GE</b>	<b>Each</b>	<b>19,20</b>	<b>23,50</b>	<b>24,20</b>	<b>28,80</b>

**SCU**

**2836GE**



Product description as Art. 2836G

Heavy model. Thumb locking

Overall length	mm	145	180	200
Jaws width	mm	50	62	65
Max opening	mm	35	45	55
Weight	grams	1360	2200	2500
<b>2836GP</b>	<b>Each</b>	<b>68,40</b>	<b>96,70</b>	<b>125,00</b>

Screws with nut for Art. 2836 GP.

For terminals	mm	145	180	200
<b>O2836GP</b>	<b>Each</b>	<b>23,30</b>	<b>24,20</b>	<b>28,80</b>

**SCU**

**2836GP**



Product description as Art. 2836G

Narrow tipped model. Thumb locking.

Overall length	mm	100	120	150
Jaws width	mm	12	14	16
Max opening	mm	18	20	28
Weight	grams	240	430	550
<b>2837G</b>	<b>Each</b>	<b>23,10</b>	<b>26,10</b>	<b>37,30</b>

**SCU**

**2837G**



**HAND VICES**

**Prod. SCU**

Suitable to rapidly fix workpieces that have to be processed in series and for strong clamping.

In special steel.

Size		1	2	3	4	5	6	7
Max opening	mm	25	50	75	110	150	240	255
Min÷max depth	mm	15/17	35/40	35/50	60/75	60/85	80/135	150/190
Jaws side	mm	8	12	22	22	22	32	32
Weight	grams	30	170	500	900	1400	3300	4850
<b>2840G</b>	<b>Each</b>	<b>57,90</b>	<b>69,30</b>	<b>92,10</b>	<b>109,00</b>	<b>172,00</b>	<b>465,00</b>	<b>672,00</b>

**SCU**

**2840G**



Product description as Art. 2840G

In rust-proof, stainless steel.

Size		1	2	3
Max opening	mm	25	50	75
Min÷max depth	mm	15/17	35/40	35/50
Jaws side	mm	8	12	22
Weight	grams	40	220	600
<b>2842G</b>	<b>Each</b>	<b>120,00</b>	<b>157,00</b>	<b>224,00</b>

**SCU**

**2842G**



### SWIVEL PRECISION VICES

2845G

SCU

**Prod. SCU**

High precision model, professional. In aluminium casting, finely worked sliding parts for rapid and safe positioning. Interchangeable jaws in aluminium, knurled. Possibility to mount plastic jaws supplied as accessory. Ideal for applications in fine mechanics, electronics, goldsmith, etc.

Bench fixing screws. (weight: 1.7kg).

Jaws width	mm	46
Working depth	mm	35
Useful opening	mm	70

<b>2845G</b>	<b>Each</b>	<b>233,00</b>
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2846G

SCU



Product description as Art. 2845G

Bench fixing clamp (weight: 2kg).

Jaws width	mm	46
Working depth	mm	35
Useful opening	mm	70
Terminal opening	mm	80

<b>2846G</b>	<b>Each</b>	<b>233,00</b>
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Spare aluminium jaws for Art. 2845 G-2846 G.

<b>O2847GA</b>	<b>Per pair</b>	<b>14,60</b>
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Plastic jaws for Art. 2845 G-2846 G.

<b>O2847GB</b>	<b>Per pair</b>	<b>14,60</b>
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2850G

SCU



To be used with electronic cards. In aluminium casting, finely worked sliding parts for safe and rapid positioning. Adjustable lateral posts and card holding with spring guides. enuta delle schede con guide a molla.

Banch fixing with clamp.

Uprights max opening	mm	165
Uprights max depth	mm	80
Weight	Kg	1,7
Terminal opening	mm	80

<b>2850G</b>	<b>Each</b>	<b>177,00</b>
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Product running out of stock.

### CLAMPING BENCH VICES

2853G

SCU

**Prod. SCU**

Swivel type. In high resistance special cast iron and hardened steel inserted jaws. Suitable to goldsmiths, watchmakers and fine mechanics. Revolving basement and bench fixing with clamp.

Jaws width	mm	50
Max jaws opening	mm	45
Weight	Kg	2,5
Terminal opening	mm	45

<b>2853G</b>	<b>Each</b>	<b>32,50</b>
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2853GL  
2853GP

KANCA

**Orig. KANCA**

Swivel type, vice parallel to anvil. Very sturdy construction completely in forged steel. Milled jaws, additionally hardened clamping tables and anvil. Bench fixing with clamp.

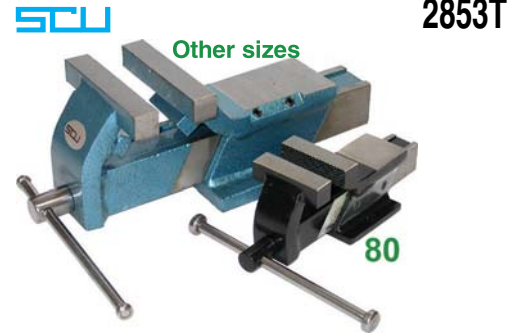
Art.	2853GL	2853GP
Jaws width	mm 50	75
Max jaws opening	mm 35	45
Weight	Kg 1	1,6
Terminal opening	mm 50	48
Supplier code	FORTISSIMO	FORTISSIMO
<b>Each</b>	<b>65,20</b>	<b>87,10</b>

**BENCH VICES**

**Prod. SCU**

Fixed type. Completely in steel.  
Milled and hardened jaws, additionally hardened wide anvil. Guide double adjusting screw .

Jaws width	mm	<b>80</b>	<b>110</b>	<b>130</b>	<b>150</b>
Max opening	mm	100	115	135	150
Weight	Kg	2,7	7	10	13
<b>2853T</b>	<b>Each</b>	<b>99,60</b>	<b>116,00</b>	<b>145,00</b>	<b>193,00</b>



**Boley type.**

Body in semisteel cast iron, hardened steel jaws.  
Very good execution, sturdy and precise.

**Fixed vice.**

Jaws width	mm	<b>80</b>	<b>100P</b>	<b>120P</b>	<b>150</b>
Max opening	mm	105	130	160	175
Weight	Kg	6	10	19	28
<b>2854</b>	<b>Each</b>	<b>133,00</b>	<b>187,00</b>	<b>270,00</b>	<b>375,00</b>



**LEAD JAWS FOR VICES**

Jaws width	mm	<b>100</b>	<b>120</b>	<b>150</b>
<b>2855</b>	<b>Per pair</b>	<b>13,70</b>	<b>16,10</b>	<b>19,90</b>



**LEAD MAGNETIC JAWS FOR VICES**

Jaws width	mm	<b>100</b>	<b>120</b>	<b>150</b>
<b>2855A</b>	<b>Per pair</b>	<b>29,80</b>	<b>33,60</b>	<b>38,70</b>

Product running out of stock.



**COPPER JAWS FOR VICES**

Jaws width	mm	<b>100</b>	<b>120</b>	<b>150</b>
<b>2855B</b>	<b>Per pair</b>	<b>36,70</b>	<b>42,80</b>	<b>49,10</b>



**SPECIAL MAGNETIC JAWS FOR VICES**

**Prod. SCU**

Provided with special earth magnets assuring jaw fixing to any kind of processed pieces. Assure firmly tightening of even delicate items without damage. Widely used in carpentry, maintenance, hydraulics, etc.

Aluminium type with 6 horizontal slightly deep grooves and 1 central deeper horizontal groove. Ideal to tighten even irregular-shaped workpieces or round components such as pipes, rod iron, etc. Longitudinal magnet.

Jaws length	mm	<b>100</b>	<b>120</b>	<b>125</b>	<b>150</b>
<b>2855CM</b>	<b>Per pair</b>	<b>32,70</b>	<b>34,60</b>	<b>34,60</b>	<b>36,80</b>

In combination with jaws Art. 2855 FM to tighten taper sleeves.

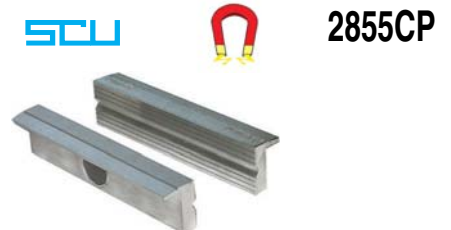


**Product description as Art. 2855CM**

Aluminium type with 6 horizontal slightly deep grooves and 1 central deeper horizontal groove. Ideal to tighten even irregular-shaped workpieces or round components such as pipes, rod iron, etc. Round magnet for a very firm tightening.

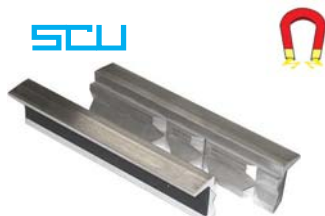
Jaws length	mm	<b>100</b>	<b>120</b>	<b>125</b>	<b>150</b>
<b>2855CP</b>	<b>Per pair</b>	<b>42,40</b>	<b>44,60</b>	<b>46,10</b>	<b>54,10</b>

In combination with jaws Art. 2855 FP to tighten taper sleeves.



## 2855DM

SCU



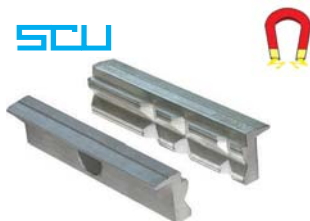
Product description as Art. 2855CM

Aluminium type with 2 horizontal slightly deep grooves, 2 deeper horizontal grooves and 3 vertical groove on each jaw in order to place the pieces in various working positions. Ideal to tighten even round components such as pipes, rod iron, etc. Longitudinal magnet.

Jaws length	mm	100	120	125	150
2855DM	Per pair	36,80	40,90	40,90	42,90

## 2855DP

SCU



Product description as Art. 2855CM

Aluminium type with 2 horizontal slightly deep grooves, 2 horizontal deeper grooves and 3 vertical grooves on one jaw only to place workpieces in different working positions. Ideal to tighten even round components such as rod iron, etc. Round magnet for a very firm tightening.

Jaws length	mm	100	120	125	150
2855DP	Per pair	51,50	54,10	57,80	63,20

## 2855EM

SCU



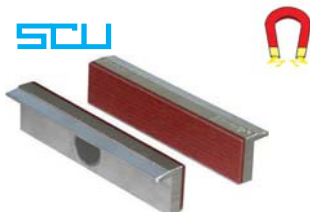
Product description as Art. 2855CM

Aluminium type, with smooth laminated fibre coating to avoid tightening indentations or deformations on the workpiece to be processed while assuring a high clamping capacity. Longitudinal magnet.

Jaws length	mm	100	120	125	150
2855EM	Per pair	36,80	40,90	40,90	44,90

## 2855EP

SCU



Product description as Art. 2855CM

Aluminium type, with smooth laminated fibre coating to avoid tightening indentations or deformations on the workpiece to be processed while assuring a high clamping capacity. Round magnet for a very firm tightening.

Jaws length	mm	100	120	125	150
2855EP	Per pair	47,50	52,10	56,10	59,20

## 2855FM

SCU



Product description as Art. 2855CM

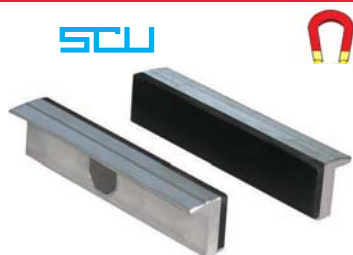
Aluminium type, with three-layer smooth synthetic rubber coating (hardness: 85 Shores) to reduce elasticity. Jaws adapt to the shape of the workpiece to be processed and assure a very good clamping with min. jaw pression. Particularly used to perform finish applications. Longitudinal magnet.

Jaws length	mm	100	120	125	150
2855FM	Per pair	36,80	40,90	40,90	44,90

In combination with jaws Art. 2855 CM to tighten taper sleeves.

## 2855FP

SCU



Product description as Art. 2855CM

Aluminium type, with three-layer smooth synthetic rubber coating (hardness: 85 Shores) to reduce elasticity. Jaws adapt to the shape of the workpiece to be processed and assure a very good clamping with min. jaw pression. Particularly used to perform finish applications. Round magnet for a very firm tightening.

Jaws length	mm	100	120	125	150
2855FP	Per pair	47,50	52,10	56,10	59,20

In combination with jaws Art. 2855 CP to tighten taper sleeves.

## UNIVERSAL BENCH VICES, BENCH VICES FOR INSTALLERS

## 2855GA

KANCA



Orig. KANCA - Art. K2

Fixed type.

Vice parallel to anvil, sturdy and stable double profile guide.

Completely in forged steel. Indestructible, milled jaws and additionally hardened clamping tables.

Side double adjusting screw for a perfect centering and parallel jaw sliding.

Provided with fixed jaws for pipes. Ideal for industrial applications and for installers.

Fixed vice.

Jaws width	mm	100	120	140	160
Opening	mm	125	150	200	225
Height between guides and jaws	mm	55	70	87	107
Jaws for tubes by	mm	16-40	16-58	18-80	18-98
Weight	Kg	5	9	16	26
2855GA	Each	170,00	199,00	275,00	376,00



**Orig. KANCA**

Swivel type.

Vice parallel to anvil, sturdy and stable double profile guide.

Completely in forged steel. Indestructible, milled jaws and additionally hardened clamping tables.

Side double adjusting screw for a perfect centering and parallel jaw sliding.

Provided with fixed jaws for pipes. Ideal for industrial applications and for installers.

Vice with swivel basement.

Jaws width	mm	100	120	140	160
Opening	mm	125	150	200	225
Height between guides and jaws	mm	55	70	87	107
Jaws for tubes by	mm	16-40	16-58	18-80	18-98
Weight	Kg	6,5	11,5	19	31
<b>2855GL</b>	<b>Each</b>	<b>235,20</b>	<b>277,20</b>	<b>370,60</b>	<b>486,00</b>

Swiveling base only, for Art. 2855 GA and 2855 GL.

For vices	mm	100	120	140	160
<b>O2855GP</b>	<b>Each</b>	<b>65,20</b>	<b>78,20</b>	<b>95,60</b>	<b>110,00</b>



**2855GL**



**BENCH VICES, BENCH VICES FOR INSTALLERS**

**Orig. KANCA - Art. FORTISSIMO FIX**

Fixed type.

Vice parallel to anvil.

Completely in forged steel.

Indestructible, milled jaws and additionally hardened clamping tables. Anvil with wide working

table, additionally hardened. Precision guide with side adjustment for a perfect centering and

parallel jaw sliding.

Provided with fixed jaws for pipes.

Fixed vice.

Jaws width	mm	115	125	135	150	175	200
Opening	mm	140	160	170	190	205	205
Height between guides and jaws	mm	70	75	85	100	105	105
Jaws for tubes by	inches	3/8-1.1/2	3/8-1.1/2	3/8-1.1/2	3/8-2.1/2	3/8-3	3/8-3
Weight	Kg	8	9,5	14	19	25	27
<b>2856GA</b>	<b>Each</b>	<b>192,00</b>	<b>232,00</b>	<b>264,00</b>	<b>313,00</b>	<b>400,00</b>	<b>435,00</b>



**2856GA**



**Orig. KANCA**

Swivel type.

Vice parallel to anvil.

Completely in forged steel.

Indestructible, milled jaws and additionally hardened clamping tables. Anvil with wide working

table, additionally hardened. Precision guide with side adjustment for a perfect centering and

parallel jaw sliding.

Provided with fixed jaws for pipes.

Vice with swivel basement.

Jaws width	mm	115	125	135	150	175	200
Opening	mm	140	160	170	190	205	205
Height between guides and jaws	mm	70	75	85	100	105	105
Jaws for tubes by	inches	3/8-1.1/2	3/8-1.1/2	3/8-1.1/2	3/8-2.1/2	3/8-3	3/8-3
Weight	Kg	8,6	10,3	15	20,4	27,6	29,6
<b>2856GL</b>	<b>Each</b>	<b>255,00</b>	<b>299,40</b>	<b>333,60</b>	<b>389,10</b>	<b>480,40</b>	<b>515,40</b>



**2856GL**



Swiveling base only, for Art. 2856 GA and 2856 GL.

For vices	mm	115	125	135	150	175	200
<b>O2856GM</b>	<b>Each</b>	<b>63,00</b>	<b>67,40</b>	<b>69,60</b>	<b>76,10</b>	<b>80,40</b>	<b>80,40</b>

**UNIVERSAL BENCH VICES**

**Orig. KANCA - Art. FORTISSIMO**

Fixed type.

Vice parallel to anvil.

Completely made from forged steel.

Indestructible, milled jaws and additionally hardened clamping tables. Anvil with wide work

surface, additionally hardened. Precision guide with side adjustment for perfect centring and

parallel jaw sliding.

Connection for interchangeable collapsible jaws Art. 2861 GA/B (except size 100 and 200mm).

Fixed vice.

Jaws width	mm	100	115	125	135	150	175	200
Opening	mm	125	140	160	170	190	205	205
Height between guides and jaws	mm	60	70	75	85	100	105	105
Anvil dimensions	mm	37x50	45x63	50x70	57x75	65x80	75x93	75x93
Weight	Kg	5,2	7,8	9,3	14	18,5	25	27
<b>2859GA</b>	<b>Each</b>	<b>155,00</b>	<b>172,00</b>	<b>212,00</b>	<b>244,00</b>	<b>292,00</b>	<b>378,00</b>	<b>415,00</b>



**2859GA**



**2859GL** 
**Orig. KANCA**

Swivel type.

Vice parallel to anvil.

Completely made from forged steel.

Indestructible, milled jaws and additionally hardened clamping tables. Anvil with wide work surface, additionally hardened. Precision guide with side adjustment for perfect centring and parallel jaw sliding. Connection for interchangeable collapsible jaws Art. 2861 GA/B (except size 100 and 200mm).

Vice with swivel basement.

Jaws width	mm	100	115	125	135	150	175	200
Opening	mm	125	140	160	170	190	205	205
Height between guides and jaws	mm	60	70	75	85	100	105	105
Anvil dimensions	mm	37x50	45x63	50x70	57x75	65x80	75x93	75x93
Weight	Kg	5,6	8,4	10,3	15,1	20	26,8	29,6
<b>2859GL</b>	<b>Each</b>	<b>211,50</b>	<b>235,00</b>	<b>279,40</b>	<b>313,60</b>	<b>368,10</b>	<b>458,40</b>	<b>495,40</b>

Swiveling base only, for Art. 2859 GA and 2859 GL.

For vices	mm	100	115	125	135	150	175	200
<b>O2859GP</b>	<b>Each</b>	<b>56,50</b>	<b>63,00</b>	<b>67,40</b>	<b>69,60</b>	<b>76,10</b>	<b>80,40</b>	<b>80,40</b>

**2860G** 


Fixed mode.

Parallel vice with anvil.

Full forged steel composition.

Indestructible jaws milled with precision guides to enable easy scrolling.

Jaws width	mm	125	150
Opening	mm	160	190
Height between guides and jaws	mm	75	100
Anvil dimensions	mm	50x70	65x80
Weight	Kg	8,9	17,4
<b>2860G</b>	<b>Each</b>	<b>159,00</b>	<b>219,00</b>

For turntable bases see Art. O2859 GP 125 - 150.

**COMBINED VICES WITH LARGE ANVIL**
**2860GE** 
**Orig. KANCA**

Fixed bench anvil model combined with large surface area (90x160 mm), seal flow with (25 x 25 mm) square hole and 1 horn. Fully forged steel composition. Indestructible, jaw milled with clamping levels and an anvil surface which has been additionally hardened (hardness of between 54 and 56 HRC). Precision guides for enabling smooth sliding.

Jaws width	mm	125
Opening	mm	100
Height between guides and jaws	mm	73,5
Weight	Kg	17
<b>2860GE</b>	<b>Each</b>	<b>420,00</b>

**ACCESSORIES FOR STEEL DROP-FORGED VICES**
**2861GA** 
**Orig. KANCA**

All vices Art. 2859 GA are provided with devices specifically designed for following jaws and other accessories.

Steel collapsible jaws for pipe processing.

Jaws width	mm	115	125	135	150	175
<b>2861GA</b>	<b>Each</b>	<b>45,70</b>	<b>47,80</b>	<b>56,50</b>	<b>60,90</b>	<b>69,60</b>

**2861GB** 


Product description as Art. 2861GA

Unbreakable plastic jaws.

Jaws width	mm	115	125	135	150	175
<b>2861GB</b>	<b>Each</b>	<b>42,40</b>	<b>44,60</b>	<b>46,80</b>	<b>48,90</b>	<b>53,30</b>

**2861GF** 


Screw terminals for bench fixing of vices Art. 2856 GA / 2859 GA.

For vices	mm	100	115	125
Terminal opening	mm	85	85	85
<b>2861GF</b>	<b>Each</b>	<b>89,10</b>	<b>89,10</b>	<b>89,10</b>

**LIFT MOBILS**

**Orig. KANCA - Art. LIFT MOBIL**

Vice weight compensation type, vertical adjustment and rotation device to conceal the vice under the bench. Telescopic vertical movement mechanism and 360° horizontal rotation. It allows free bench for working necessities. For vices Art. 2856 GA and 2859 GA. Without vice.

For vices	mm	100	115	125
Max elevation	mm	270	270	270
Support plate Ø	mm	120	135	145
Weight	Kg	13	14	15
<b>2861GR</b>	<b>Each</b>	<b>632,00</b>	<b>632,00</b>	<b>632,00</b>



**2861GR**



**AUTOMATIC ELEVATORS**

**Orig. KANCA**

Vice weight compensation type, vertical adjustment. Telescopic vertical movement, gas thrust control. 360° horizontal rotation. With lock lever.

For vices Art. 2856 GA and 2859 GA. Without vice.

For vices	mm	100	115	125	135
Max elevation	mm	250	250	250	250
Support plate Ø	mm	135	135	160	160
Weight	Kg	8,8	8,8	9,2	9,2
<b>2861GS</b>	<b>Each</b>	<b>370,00</b>	<b>370,00</b>	<b>370,00</b>	<b>370,00</b>



**2861GS**



**SHANK VICES**

**Orig. KANCA**

Body in semisteel cast iron, induction hardened jaws. Particularly suitable for carpenters, blacksmiths, etc.

Jaws width	mm	125	150
Opening	mm	130	140
Working depth	mm	100	100
Overall length	mm	1040	1070
Weight	Kg	24	25
<b>2861GT</b>	<b>Each</b>	<b>454,00</b>	<b>526,00</b>



**2861GT**



**PIPE WORKING VICES**

**Prod. SCU**

Body in rolled steel. Milled jaws, hardened.

For pipes up to	inches	2	3	4	6
Weight	Kg	4,5	8	15	41
<b>2863</b>	<b>Each</b>	<b>129,00</b>	<b>200,00</b>	<b>432,00</b>	<b>726,00</b>



**2863**



**PIPE WORKING VICES**

**Prod. SCU**

In forged steel. Milled jaws, hardened.

For pipes up to	inches	2	3
Weight	Kg	6	9
<b>2863E</b>	<b>Each</b>	<b>189,00</b>	<b>279,00</b>



**2863E**



**Orig. KANCA**

In forged steel. Collapsible type. Milled jaws, hardened.

For pipes up to	inches	2	3	4
Weight	Kg	5	6,4	18
<b>2863GA</b>	<b>Each</b>	<b>161,00</b>	<b>245,00</b>	<b>447,00</b>



**2863GA**



**2864G** SCU**Prod. SCU**In forged steel.  
Milled jaws, hardened.

For pipes up to	inches	2	3	4
Weight	Kg	4,7	8	12
<b>2864G</b>	<b>Each</b>	<b>125,00</b>	<b>204,00</b>	<b>268,00</b>

**CHAIN PIPE VICES****2865G** SCU**Prod. SCU**In forged steel. Hardened jaw.  
Reinforced chain.

For pipes up to	inches	2.1/2	4	6
Weight	Kg	1,9	4	11,8
<b>2865G</b>	<b>Each</b>	<b>148,00</b>	<b>218,00</b>	<b>275,00</b>

**2865L** SCUType in forged steel provided with folding stand for easy transport. Sturdy and stable for fixing to the ground if required. Hardened jaw. Reinforced chain. For pipes up to 6".  
Weight 21kg.

<b>2865L</b>	<b>Each</b>	<b>851,00</b>
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**PIPE STANDS****2866** SCU**Prod. SCU**Heavy type. Collapsible vice in forged steel. Hardened jaws.  
With hole plate to bend pipes.

For pipes up to	inches	2	3	4
Weight	Kg	21	25	40
<b>2866</b>	<b>Each</b>	<b>326,00</b>	<b>469,00</b>	<b>567,00</b>

**DRILL VICES****2867G** SCU**Prod. SCU**

Type with rapid lock system.

With 1 flat jaw and 1 stepped prism-jaw (size 60); with 2 knurled jaws (size 100).

Jaws width	mm	60	100
Weight	Kg	0,54	1,75
Useful opening	mm	70	95
<b>2867G</b>	<b>Each</b>	<b>27,90</b>	<b>43,90</b>

**2868B** KANCA**Orig. Kanca**

Body made from special spheroid cast iron, high precision. Steel inserted jaws, hardened and ground.

With 1 flat jaw and 1 stepped prism-jaw.

Jaws width	mm	80	100	120	150
Weight	Kg	4	5	7,5	12
Useful opening	mm	80	100	125	220
Transversal distance between centres	mm	108	128	153	178
Eyelets width	mm	13,5	13,5	13,5	13,5
<b>2868B</b>	<b>Each</b>	<b>90,60</b>	<b>105,00</b>	<b>138,00</b>	<b>182,00</b>

**Prod. SCU**

Heavy type, with sliding guides and completely covered screw.  
With 1 flat jaw and 1 stepped prism-jaw.  
Body in special cast iron. Steel inserted jaws, hardened and ground.

Jaws width	mm	80	100	120	150
Weight	Kg	4	7	14	24
Useful opening	mm	85	110	150	180
Transversal distance between centres	mm	125	160	195	215
Eyelets width	mm	9,5	13	15	15
<b>2868E</b>	<b>Each</b>	<b>133,00</b>	<b>220,00</b>	<b>290,00</b>	<b>383,00</b>

SCU

2868E



**Orig. Kanca**

Swivel model made from special cast-iron. Hardened and ground steel jaws.  
With 1 flat jaw and 1 jaw with vertical central prism.

Jaws width	mm	100
Weight	Kg	7,8
Useful opening	mm	100
Transversal distance between centres	mm	220
<b>2869A</b>	<b>Each</b>	<b>237,00</b>

KANCA

2869A



Type with quick closing system.

Body in special cast iron. Steel insterted jaws, hardened and ground.  
With 1 flat jaw and 1 jaw with vertical central prism.

Jaws width	mm	125
Weight	Kg	12
Useful opening	mm	125
Transversal distance between centres	mm	157,5
Eyelets width	mm	13
<b>2869G</b>	<b>Each</b>	<b>152,00</b>

KANCA

2869G



**MACHINE VICES**

**Prod. SCU**

Swivel type.  
Body in high resistance special cast iron. Jaws in steel, hardened and ground.  
Ground sliding parts. Completely covered screw. With crank.

Jaws width	mm	100	125	160	200
Max opening	mm	80	100	125	160
Overall height	mm	110	130	160	190
Weight	Kg	10	17	41	56
<b>2872G</b>	<b>Each</b>	<b>204,00</b>	<b>230,00</b>	<b>366,00</b>	<b>518,00</b>

SCU

2872G



Swivel type 360°, tilting 90°.

Per lavorazioni su fresatrici e trapani.  
Body in high resistance special cast iron. Interchangeable jaws in steel, hardened and ground.  
Ground sliding parts. Completely covered screw. With crank.

Jaws width	mm	100	125	160
Max opening	mm	80	100	125
Overall height	mm	150	170	190
Weight	Kg	19	29	43
<b>2873G</b>	<b>Each</b>	<b>405,00</b>	<b>485,00</b>	<b>558,00</b>

SCU

2873G



**Orig. MIB**

Precision model.  
Required for milling, grinding and checking operations.  
Completely made of high resistance steel, hardened and ground on all sides.  
Jaw with V-slot for a safer grip.  
Jaw extension with threaded screw

Jaws width	mm	50	72	100
Max opening	mm	60	100	127
Jaws height	mm	25	35	45
Overall length	mm	155	210	260
Weight	Kg	2,1	5,6	15
Supplier code		06066050	06066051	06066052
<b>2874G</b>	<b>Each</b>	<b>201,00</b>	<b>259,00</b>	<b>402,00</b>

MIB  
MESSZUGER  
GERMANY

2874G



**2874GE**



Product description as Art. 2874G

Jaw extension rapid adjustment

Jaws width	mm	<b>50</b>	<b>75</b>	<b>100</b>
Max opening	mm	70	100	125
Jaws height	mm	25	35	45
Overall length	mm	140	190	246
Weight	Kg	1,6	3,9	9,5
Supplier code		06066056	06066057	06066058
<b>2874GE</b>	<b>Each</b>	<b>144,00</b>	<b>187,00</b>	<b>316,00</b>

### PARALLEL COUPLES

**2879**

**Prod. SCU**

In hardened special steel, HRc 60 hardness. Ground and lapped in couple. Precision: 0.005mm. Specific for mechanical works such as parallel tightening, as vice resting, etc. Overall length Lunghezza totale parallele 150mm.

The set consists of Nr. 14 couples having the following thickness x width:

10x14 - 10x16 - 10x18 - 10x20 - 10x22 - 10x24 - 10x26 - 10x28 - 10x30 - 10x32 - 10x35 - 10x40 - 10x45 - 10x50mm.

Supplied in wooden case.

<b>2879</b>	<b>Each</b>	<b>302,00</b>
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### ANVILS

**2883**

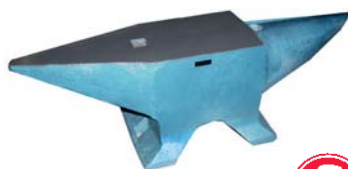
**Prod. SCU**

In moulded cast iron, with hardened and enamelled working surface.

Suited to mechanics and fine mechanics.

Weight approx.	Kg	<b>2,5</b>	<b>5</b>	<b>10</b>	<b>20</b>	<b>30</b>	<b>50</b>
Dimensions	mm	190x53	250x65	330x80	480x110	525x120	603x146
Height approx.	mm	68	94	100	135	155	167
<b>2883</b>	<b>Each</b>	<b>32,10</b>	<b>58,70</b>	<b>115,00</b>	<b>218,00</b>	<b>328,00</b>	<b>551,00</b>

**2884**



In moulded steel, with hardened and polished working surface.

Suited to mechanics and fine mechanics.

Weight approx.	Kg	<b>10</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>80</b>
Dimensions	mm	360x90	465x105	515x120	600x130	630x140	665x150	745x170
Height approx.	mm	96	140	145	170	190	205	220
<b>2884</b>	<b>Each</b>	<b>172,00</b>	<b>355,00</b>	<b>497,00</b>	<b>632,00</b>	<b>767,00</b>	<b>923,00</b>	<b>1.180,00</b>

Weight approx.	Kg	<b>100</b>
Dimensions	mm	800x180
Height approx.	mm	240
<b>2884</b>	<b>Each</b>	<b>1.510,00</b>

**2885G**

**Orig. KANCA**

In forged and hardened steel, monoblock.

The special basement shape assures max. stability even when anvil extremities are stricken.

Working surface hardness from 54 to 62 HRc.

With 1 square hole and 1 round hole for possible fixing plugs.

Weight approx.	Kg	<b>20</b>	<b>35</b>	<b>50</b>	<b>75</b>
Dimensions	mm	390x80	470x95	550x110	625x125
Height approx.	mm	155	200	220	265
Square bore side	mm	22	22	25	25
Round bore Ø	mm	20	20	23	23
<b>2885G</b>	<b>Each</b>	<b>337,00</b>	<b>589,00</b>	<b>841,00</b>	<b>1.270,00</b>

### MACHINIST'S SCRAPERS

**2908G**

**Prod. SCU**

Insulated type with triangular blade in chrome plated steel, hardened, hardness 58-62 HRc.

Handle in synthetic material.

Suited to mechanics and fine mechanics. Blade dimensions: 80x8mm.

<b>2908G</b>	<b>Each</b>	<b>16,50</b>
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**2909G**



Type with triangular blade in chrome plated steel, hardened, hardness 58-62 HRc. Wooden handle. Suited to mechanics and fine mechanics.

Blade dimensions: 75x7mm.

<b>2909G</b>	<b>Each</b>	<b>6,72</b>
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In chrome plated steel, hardened, hardness 58-62 HRc.  
 Wooden handle.

Triangular-type

Blade length	mm	100	150	200	250
<b>2910G</b>	Each	5,98	7,16	8,48	9,44



Product description as Art. 2910G

Spoon-shaped type.

Blade length	mm	100	150	200	250
<b>2911G</b>	Each	6,90	8,28	10,40	10,60



Product description as Art. 2910G

Flat type

Blade length	mm	100	150	200	250
<b>2912G</b>	Each	5,98	7,16	8,48	9,44



Product description as Art. 2910G

Triangular, flat-type

Blade length	mm	80	100	150	200	250
<b>2913G</b>	Each	9,24	9,24	9,44	12,20	12,70

Size mm 80 running out of stock.



Product description as Art. 2910G

Triangular spoon-shaped type

Blade length	mm	100	150	200	250
<b>2914G</b>	Each	6,90	8,28	10,40	10,60



Short pattern with extra flat and wide cutting edge. In chrome plated steel, hardened, hardness 58-62 HRc. Handle in synthetic material.

Blade length	mm	80
Cutting edge width	mm	22
<b>2915G</b>	Each	13,10



Model with extra flat and wide cutting edge.

In special steel, hardened. Handle in synthetic material.

Blade length	mm	150
Cutting edge width	mm	22
<b>2916G</b>	Each	13,10



Model with narrow cutting edge. In chrome plated steel, hardened, hardness 58-62 HRc. Handle in synthetic material.

Blade length	mm	150
Cutting edge width	mm	12
<b>2917G</b>	Each	13,10



**CARBIDE TIPPED FLAT SCRAPERS**

**Prod. SCU**

Model with interchangeable carbide tips.

2 effective working sides to scrap materials of any hardness, milled and lapped cutting edges.

Carbide tips does not require additional tool sharpening.

Handle in synthetic material.

Cutting edge width	mm	20	25	30
Blade length	mm	300	350	350
Cutting edge thickness	mm	2	2	2
<b>2918GA</b>	Each	71,10	78,40	84,40



Spare tips for Art. 2918 GA.

Cutting edge width	mm	20	25	30
<b>2918GP</b>	Each	52,10	62,30	75,80

HARTMETALL

**TRIANGULAR SCRAPERS**

**Prod. SCU**

Model with interchangeable special steel blade, hardened.

Wooden handle.

Cutting edge side	mm	60	80
Overall length	mm	240	240
<b>2920G</b>	Each	6,38	6,58



Spare blades for Art. 2920 G.

Cutting edge side	mm	60	80
<b>O2920GA</b>	Each	3,24	3,68

### "L" SHAPE SCRAPERS

**2921**

new



SCU

**Prod. SCU**

With double-edged hardened steel blade to scrape paint, adhesives, resins, labels, etc. from different types of surfaces.

Cutting edges width	mm	45
Long side length	mm	280
Short side length	mm	55

<b>2921</b>	Each	<b>14,90</b>
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### EXTRA-FLAT CHISELS

**2926G**

SCU

**Prod. SCU**

Made from CHROME-VANADIUM steel. Self-hardened, lacquered. Hardened heads. Narrow flat chisels for metal and stone working

Length	mm	240
Section	mm	26x7

<b>2926G</b>	Each	<b>9,86</b>
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### COLD CHISELS, CROSS CUT CHISELS, DRIFTS, PUNCHES, PIN PUNCHES

**2927GA**

SCU

**Prod. SCU**

Made from CHROME-VANADIUM steel. Self-hardening, lacquered. Hardened heads. Flat cold chisels.

Length	mm	125	150	175	200	250	300
Cutting edge width	mm	18	18	21	24	25	26
Section	mm	17x11	17x11	20x12	23x13	23x13	23x13

<b>2927GA</b>	Each	<b>5,78</b>	<b>6,30</b>	<b>7,64</b>	<b>8,44</b>	<b>10,30</b>	<b>12,70</b>
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**2927GB**

SCU

**Prod. SCU**

Product description as Art. 2927GA. Flat cross cut chisels.

Length	mm	125	150	175	200	250
Cutting edge width	mm	5	6	7	8	9
Section	mm	17x11	17x11	17x11	20x12	23x13

<b>2927GB</b>	Each	<b>6,56</b>	<b>7,72</b>	<b>8,78</b>	<b>9,32</b>	<b>11,90</b>
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**2927GC**

SCU



Product description as Art. 2927GA

## Knurled drifts

Length	mm	100	115	130
Body Ø	mm	8	10	12

<b>2927GC</b>	Each	<b>3,52</b>	<b>4,46</b>	<b>5,70</b>
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**2927GD**

SCU



Product description as Art. 2927GA

## Octagonal drifts

Size		1	2	3
Length	mm	120	120	150
Body Ø	mm	10	12	12

<b>2927GD</b>	Each	<b>2,68</b>	<b>3,00</b>	<b>4,14</b>
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**2927GDA**

SCU



Product description as Art. 2927GA

## Knurled pin punches

For pins Ø	mm	2	3	4	5	6	7	8
Length	mm	100	100	100	100	115	115	115
Section	mm	7	7	8	8	10	10	10

<b>2927GDA</b>	Each	<b>3,30</b>	<b>3,30</b>	<b>3,42</b>	<b>3,42</b>	<b>4,46</b>	<b>4,46</b>	<b>4,46</b>
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**2927GE**

SCU



Product description as Art. 2927GA

## Octagonal pin punches. DIN 6450.

For pins Ø	mm	2	3	4	5	6	7	8
Length	mm	150	150	150	150	150	150	150
Section	mm	10	10	10	10	10	12	12

<b>2927GE</b>	Each	<b>4,40</b>	<b>4,40</b>	<b>4,40</b>	<b>4,40</b>	<b>4,40</b>	<b>5,02</b>	<b>5,02</b>
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For pins Ø	mm	9	10	12
Length	mm	150	150	150
Section	mm	12	12	14

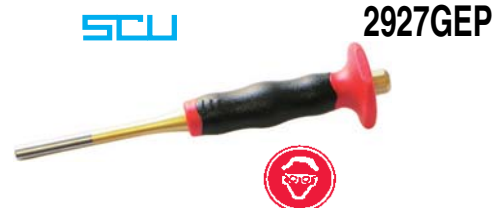
<b>2927GE</b>	Each	<b>5,02</b>	<b>5,02</b>	<b>6,42</b>
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Product description as Art. 2927GA

Octagonal pin punches. DIN 6450 with hand guard in bi-component material.

For pins Ø	mm	2	3	4	5	6	8
Length	mm	150	150	150	150	150	150
Section	mm	10	10	10	10	10	10
<b>2927GEP</b>	<b>Each</b>	<b>6,64</b>	<b>6,64</b>	<b>6,64</b>	<b>6,64</b>	<b>6,64</b>	<b>7,20</b>



Product description as Art. 2927GA

Octagonal pin punches. DIN 6450.

Long type.

For pins Ø	mm	4	5	6	8	10
Length	mm	175	175	175	175	175
Section	mm	10	10	10	12	12
<b>2927GER</b>	<b>Each</b>	<b>5,46</b>	<b>5,46</b>	<b>5,46</b>	<b>6,26</b>	<b>6,26</b>



Product description as Art. 2927GA

Octagonal punches

Tip Ø	mm	1	2	3	4	5	6	7	8
Length	mm	120	120	120	120	120	120	120	120
Body Ø	mm	10	10	10	10	12	12	12	12
<b>2927GF</b>	<b>Each</b>	<b>2,82</b>	<b>2,82</b>	<b>2,82</b>	<b>2,82</b>	<b>3,08</b>	<b>3,08</b>	<b>3,08</b>	<b>3,08</b>



### ELECTRICIANS' CHISELS

**Prod. SCU**

Made from CHROME-VANADIUM steel. Lacquered. Hardened heads. Hardened for high resistance.

Chisels with double cutting edge, ideal for traces.

Length	mm	250
Cutting edges length	mm	33x68
Section	mm	23x13
<b>2927GFE</b>	<b>Each</b>	<b>21,30</b>



Product description as Art. 2927GFE

Fine octagonal type chisels.

Type		200	200A	250	250A	300
Length	mm	200	200	250	250	300
Cutting edge width	mm	10	12	12	14	14
Body Ø	mm	8	10	10	12	12
<b>2927GFP</b>	<b>Each</b>	<b>4,64</b>	<b>5,42</b>	<b>5,88</b>	<b>6,30</b>	<b>7,20</b>



### STONE CHISELS

**Prod. SCU**

Made from CHROME-VANADIUM steel. Self-hardening, lacquered. Hardened heads.

Flat chisels.

Type		200	250	250A	250B	300	350	400	500
Length	mm	200	250	250	250	300	350	400	500
Cutting edge width	mm	26	26	50	70	29	29	29	32
Section	mm	20x12	20x12	23x13	26x13	23x13	23x13	23x13	26x13
<b>2927GH</b>	<b>Each</b>	<b>7,80</b>	<b>9,32</b>	<b>16,30</b>	<b>17,70</b>	<b>11,60</b>	<b>13,10</b>	<b>14,80</b>	<b>17,70</b>



Product description as Art. 2927GH

Octagonal cold chisels

Length	mm	200	250	300	350	400	500
Cutting edge width	mm	23	23	23	26	26	30
Body Ø	mm	16	16	16	18	18	20
<b>2927GL</b>	<b>Each</b>	<b>7,80</b>	<b>9,32</b>	<b>11,60</b>	<b>13,10</b>	<b>14,80</b>	<b>17,70</b>



Product description as Art. 2927GH

Tip cold chisels.

Length	mm	200	250	300	350	400	500
Body Ø	mm	16	16	18	18	18	20
<b>2927GM</b>	<b>Each</b>	<b>7,80</b>	<b>8,78</b>	<b>10,50</b>	<b>11,60</b>	<b>12,60</b>	<b>17,90</b>



**ASSORTMENT OF CHISELS, PUNCHES, PIN PUNCHES**
**2928G SCU**

**Prod. SCU**
**Composition:**

2 125 and 150 mm octagonal chisels

1 125 mm octagonal chisel

1 2927 3 mm punch

1 2927 4 mm punch

1 2927 GD Gr. awl. 1

Complete assortment. In a practical plastic holder.

**2928G Each 30,90**

**2928GA SCU**

**Each set contains:**

2 octagonal chisels 125mm and 150mm

1 octagonal cross cut chisel 125mm

1 punch 2927 GF 3mm

1 punch 2927 GF 4mm

1 drift 2927 GD Size 1

Complete set. Supplied in practical jointed metal case.

**2928GA Each 40,20**

**2928GE SCU**

**Composition:**

5 2927 GF 1-2-3-4-5 mm punches

1 2927 GD Gr awl. 1

Complete assortment. In a practical plastic holder.

**2928GE Each 19,10**

**2928GF SCU**

**Each set contains:**

5 punches 2927 GF 1-2-3-4-5mm

1 drift 2927 GD Size 1

Complete set. Supplied in practical jointed metal case.

**2928GF Each 27,70**

**2928GG SCU**

**Composition:**

6 2927 GE 3-4-5-6-8-10 mm punches

Complete assortment. In a practical plastic holder.

**2928GG Each 29,60**


Composition:

6 2927 GE 3-4-5-6-8-10 mm punches

Complete assortment. In a plastic box.

**2928GH** Each **36,20**

SCU



**2928GH**



Each set contains:

6 pin punches 2927 GE 3-4-5-6-8-10mm

Complete set. Supplied in practical jointed metal case.

**2928GL** Each **39,10**

SCU



**2928GL**



Composition:

5 2927 GEP 2-3-4-5-6 mm punches

Complete assortment. In a practical and sturdy plastic box.

**2928GP** Each **48,30**

SCU



**2928GP**



9

**RIBBED CHISELS**

**Prod. SCU**

In CHROME VANADIUM steel. Chrome plated finish.

Length	mm	150	200	250	300
Cutting edge width	mm	18	23	25	30
<b>2931</b>	<b>Each</b>	<b>10,60</b>	<b>13,50</b>	<b>18,80</b>	<b>27,10</b>

SCU



**2931**



**EXTRA-FLAT CHISELS**

**Orig. Gedore - Art. 2104**

In CHROME-VANADIUM-MOLYBENDUM steel, 45 Cr Mo V7 for high resistance.

Self-hardening, hardened heads, finely lacquered. Produces shiny and sharp cuts.

TOP professional quality.

Narrow extra-flat chisels for metal and stone working.

Length	mm	240
Section	mm	26x4
<b>2933E</b>	<b>Each</b>	<b>7,62</b>

GEDORE



**2933E**



**Orig. Gedore - Art. 104**

Product description as Art. 2933E

Narrow flat chisels for metal and stone working

Length	mm	240
Section	mm	26x7
<b>2933G</b>	<b>Each</b>	<b>15,10</b>

GEDORE



**2933G**



**COLD CHISELS, CROSS CUT CHISELS, DRIFTS, PUNCHES, PIN PUNCHES**
**2934GA** 

**Orig. Gedore-DIN 6453 - Art. 95**

Product description as Art. 2933E

Flat chisels.

Length	mm	100	125	150	175	200	225	250	300
Section	mm	14x9	14x9	17x11	20x12	23x13	23x13	26x13	26x13
Cutting edge width	mm	15	15	18	21	24	24	28	30
<b>2934GA</b>	<b>Each</b>	<b>7,54</b>	<b>8,84</b>	<b>10,50</b>	<b>13,70</b>	<b>14,30</b>	<b>16,50</b>	<b>19,70</b>	<b>22,30</b>

**2934GB** 

**Orig. Gedore - Art. 97**

Product description as Art. 2933E

Octagonal chisels.

Length	mm	125	150	175	200
Body Ø	mm	10	12	16	18
Cutting edge width	mm	12	16	20	22
<b>2934GB</b>	<b>Each</b>	<b>6,30</b>	<b>9,48</b>	<b>14,50</b>	<b>17,10</b>

**2934GC** 

**Orig. Gedore - Art. 96**

Product description as Art. 2933E

Flat cross cut chisels

Length	mm	125	150	175	200
Section	mm	14x9	17x11	17x11	20x12
Cutting edge width	mm	5	6	7	8
<b>2934GC</b>	<b>Each</b>	<b>9,60</b>	<b>11,50</b>	<b>14,70</b>	<b>15,30</b>

**2934GD** 

**Orig. Gedore - Art. 98**

Product description as Art. 2933E

Octagonal cross cut chisels

Length	mm	125	175	200
Body Ø	mm	10	16	18
Cutting edge width	mm	5	9	10
<b>2934GD</b>	<b>Each</b>	<b>6,84</b>	<b>15,60</b>	<b>18,50</b>

Product running out of stock.

**2934GE** 

**Orig. Gedore-DIN 7250 - Art. 100**

Product description as Art. 2933E

Drifts

Length	mm	120	125	150	155
Body Ø	mm	10	12	12	16
<b>2934GE</b>	<b>Each</b>	<b>4,68</b>	<b>5,70</b>	<b>7,42</b>	<b>11,30</b>

**2934GF** 

**Orig. Gedore-DIN 6458 - Art. 99**

Product description as Art. 2933E

Punches

Tip Ø	mm	1	2	3	4	5	6	7	8	9	10
Length	mm	120	120	120	120	120	120	120	120	150	150
Section	mm	10	10	10	10	10	12	12	12	12	12
<b>2934GF</b>	<b>Each</b>	<b>4,68</b>	<b>4,68</b>	<b>4,68</b>	<b>4,68</b>	<b>4,68</b>	<b>5,70</b>	<b>5,70</b>	<b>5,70</b>	<b>7,42</b>	<b>7,54</b>

Size mm 9 running out of stock.

**2934GN** 

**Prod. SCU**

Product description as Art. 2933E

Pin punch. Bushed pin, hardness HRC 55-59, polished chrome finish. For precision mechanics.

For pins Ø	mm	0,9	1,4	1,8	2,4	2,8	3,4	3,9	4,9	5,9
Overall length	mm	70	80	83	91	94	97	100	101	103
<b>2934GN</b>	<b>Each</b>	<b>3,56</b>	<b>3,56</b>	<b>3,56</b>	<b>3,56</b>	<b>3,56</b>	<b>3,56</b>	<b>3,56</b>	<b>3,56</b>	<b>3,56</b>

**2934GR** 

**Orig. Gedore-DIN 6450 - Art. 119**

Product description as Art. 2933E

Pin punches.

For pins Ø	mm	2	3	4	5	6	6A	7
Length	mm	150	150	150	150	150	175	150
Section	mm	10	10	10	10	10	10	12
<b>2934GR</b>	<b>Each</b>	<b>7,42</b>	<b>7,42</b>	<b>7,42</b>	<b>7,42</b>	<b>7,42</b>	<b>11,50</b>	<b>8,84</b>

For pins Ø	mm	8	9	10	12
Length	mm	150	150	150	150
Section	mm	12	12	12	14
<b>2934GR</b>	<b>Each</b>	<b>8,84</b>	<b>8,84</b>	<b>8,84</b>	<b>9,64</b>

**PIN PLUS PRECISION COLD CHISELS, PUNCHES, PIN PUNCHES**

**Orig. Gedore - Art. 3099-3**

In special MOLYBDENUM-VANADIUM steel, 73 Mo V5-2, ergonomic handle in synthetic material, length: 85mm, for hand protection. Extremely precise and accurate construction with centesimal tolerance. Completely tempered, hardened working parts. Induction tempered heads for higher safety against chipping.

Punch

Length: 150mm, tip diameter: 3mm.

<b>2934GV</b>	Each	<b>9,44</b>
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Product running out of stock.



**2934GV**



**Orig. Gedore - Art. 3119**

Product description as Art. 2934GV

Pin punch

For pins Ø	mm	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
Overall length	mm	150	150	150	150
<b>2934GZ</b>	Each	<b>9,44</b>	<b>9,44</b>	<b>9,44</b>	<b>9,44</b>

Product running out of stock.



**2934GZ**



**PRECISION PIN PUNCHES**

**Prod. SCU**

Made from CHROME-VANADIUM steel with an inserted high precision blade.

Burnished finish with ergonomic handle made from synthetic material for hand protection.

For pins Ø	mm	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>
Overall length	mm	140	160	185	200	210	225	240
<b>2935G</b>	Each	<b>5,28</b>	<b>5,28</b>	<b>5,82</b>	<b>6,04</b>	<b>6,20</b>	<b>8,26</b>	<b>8,62</b>



**2935G**



**CHISELS FOR ELECTRICIANS AND STONES**

**Orig. Gedore - Art. 112**

In high resistance MOLYBDENUM-CHROME-VANADIUM steel, 45 Cr Mo V7.

Selfhardening, hardened heads, finely lacquered. Polished and sharp cutting edges.

TOP quality, professional execution.

Square thin chisels for electricians.

Type		<b>200</b>	<b>200A</b>	<b>250</b>	<b>250A</b>	<b>300</b>
Length	mm	200	200	250	250	300
Frame	mm	6	6	7	8	10
Cutting edge	mm	6	8	10	12	15
<b>2935GA</b>	Each	<b>6,44</b>	<b>6,44</b>	<b>7,70</b>	<b>8,22</b>	<b>11,60</b>



**2935GA**



**Orig. Gedore - Art. 112 A**

Product description as Art. 2935GA

Octagonal thin chisels for electricians.

Length	mm	<b>200</b>	<b>250</b>	<b>300</b>
Body Ø	mm	10	10	12
Cutting edge	mm	10	12	15
<b>2935GB</b>	Each	<b>7,28</b>	<b>11,10</b>	<b>14,10</b>

Size mm 200 running out of stock.



**2935GB**



**Orig. Gedore-DIN 7254 A - Art. 109-103**

Product description as Art. 2935GA

Mason's flat chisels

Type		<b>200</b>	<b>250</b>	<b>250A</b>	<b>250B</b>	<b>300</b>	<b>350</b>	<b>400</b>	<b>500</b>
Length	mm	200	250	250	250	300	350	400	500
Section	mm	20x12	20x12	26x13	26x13	23x13	23x13	23x13	26x13
Cutting edge width	mm	26	26	50	80	29	29	29	32
<b>2936GA</b>	Each	<b>12,90</b>	<b>15,80</b>	<b>18,10</b>	<b>21,80</b>	<b>21,60</b>	<b>24,30</b>	<b>27,20</b>	<b>36,10</b>

Type 250 A - 250 B with 50-80mm with oversize cutting edge.



**2936GA**



Cutting 50/80 mm



**Orig. Gedore-DIN 7254 B - Art. 110**

Product description as Art. 2935GA

Mason's octagonal chisels

Length	mm	<b>200</b>	<b>250</b>	<b>300</b>	<b>350</b>	<b>400</b>
Section	mm	16	16	18	18	20
Cutting edge width	mm	23	23	26	26	30
<b>2936GB</b>	Each	<b>14,50</b>	<b>16,70</b>	<b>22,10</b>	<b>22,70</b>	<b>28,60</b>



**2936GB**



**2936GC** 

**Orig. Gedore-DIN 7256 - Art. 111**

Product description as Art. 2935GA

Mason's octagonal tip chisels

Length	mm	200	250	300	350	400	500
Section	mm	16	16	18	18	20	20
<b>2936GC</b>	<b>Each</b>	<b>14,50</b>	<b>16,70</b>	<b>22,10</b>	<b>22,70</b>	<b>28,60</b>	<b>34,50</b>

Size mm 500 running out of stock.

**COLD CHISELS**
**2936GL** 

**Orig. Gedore - Art. 207**

In CHROME VANADIUM steel, square cross section.

Hard metal inserted cutting edge.

Length	mm	85
Cutting edge width	mm	8
<b>2936GL</b>	<b>Each</b>	<b>15,60</b>

Product running out of stock.

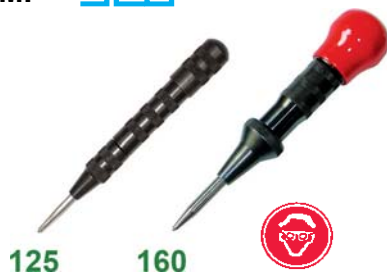
**MARKING TOOLS**
**2936GM** 

**Orig. Gedore - Art. 100A**

In special steel.

Hard metal tip.

Overall length	mm	120
Body Ø	mm	10
Cusp base Ø	mm	4
<b>2936GM</b>	<b>Each</b>	<b>24,90</b>

**AUTOMATIC MARKING TOOLS**
**2936GMF** 

**Prod. SCU**

Automatic percussion model with spring mechanism for manual use.

Made from CHROME-VANADIUM steel with stainless steel tips. Burnished finish. Possibility of adjusting engraving depth by rotating the knurled ring. High strength punching. End part made from spherical plastic for easy use (only available in 160 mm size).

Overall length	mm	125	160
Body Ø	mm	12	20
Max. force	N	120	850
<b>2936GMF</b>	<b>Each</b>	<b>11,80</b>	<b>23,60</b>

**2936GR**

**Orig. Marvel**

Automatic percussion model with spring mechanism for hand use.

With HARD METAL tip, can also be used on stainless steel. Galvanised finish. Engraving depth can be adjusted by turning the ball end, made of synthetic material for comfortable use.

Overall length	mm	130
Body Ø	mm	13
Max. force	N	300
<b>2936GR</b>	<b>Each</b>	<b>26,30</b>

**2936GRE** 

**Prod. SCU**

Automatic percussion model with spring mechanism for manual use.

Made from CHROME-VANADIUM steel with HARD METAL tips which can also be used on stainless steel. Burnished finish. Possibility of adjusting engraving depth by rotating the knurled ring. High strength punching. The end section has been covered in synthetic material for easy use.

Overall length	mm	150
Body Ø	mm	16
Max. force	N	500
<b>2936GRE</b>	<b>Each</b>	<b>18,40</b>

**HEADERS FOR RIVETS**
**2936GV** 

**Orig. Gedore - Art. 127**

In CHROME VANADIUM steel, self-hardening.

For rivets Ø	mm	2	3	4	5	6
cave Ø	mm	3,5	5,5	6,5	8	9,5
Length	mm	100	100	100	110	110
Section	mm	10	10	12	14	16
<b>2936GV</b>	<b>Each</b>	<b>6,42</b>	<b>6,42</b>	<b>7,32</b>	<b>8,54</b>	<b>9,76</b>

**CHISELS HAND GUARDS**

**Orig. Gedore - Art. 108**

Universal type.

In undeformable PVC. Extra-handle for a safe and practical grip, double-sheltered for safe purposes and to provide a better shock-absorbing effect. Length: 115mm.

Suitable for all kind of chisels with the following cross section:

flat cross section 20x12 - 23x13 - 26x7 - 26x13mm

octagonal cross section 14 - 16 - 18 - 20mm.

**2936GZ** Each **6,36**



**2936GZ**



**DRIFTS AND PIN PUNCHES HAND GUARDS**

**Prod. SCU**

Universal type. Made from dual component material for a safe and comfortable grip.

For tools with octogonal section mm 10

Length mm 75

**2936GZE** Each **2,32**



**2936GZE**



**SETS OF CHISELS AND PUNCHES**

**Orig. Gedore - Art. 102**

6-pcs. set:

2 x 2934 GB chisels 125-150mm

1 x 2934 GF punch 3mm

1 x 2934 GE drift 120mm

1 x 2934 GD cross cut chisel 125mm

1 x 2934 GR pin punch 4mm

Complete set supplied on wooden tool holder, enamelled.

**2937GA** Each **48,90**



**2937GA**



**Orig. Gedore - Art. 106 D**

6-pcs. set:

2 x 2934 GB chisels 125-150mm

1 x 2934 GF punch 3mm

1 x 2934 GE drift 120mm

1 x 2934 GD cross cut chisel 125mm

1 x 2934 GR pin punch 4mm

Complete set supplied in sturdy jointed metal case.

**2937GB** Each **44,30**



**2937GB**



**SETS OF PUNCHES**

**Orig. Gedore - Art. 113D**

6-pcs. set:

5 x 2934 GF punches 1-2-3-4-5mm

1 x 2934 GE drift 120mm

Complete set supplied in sturdy jointed metal case.

**2937GC** Each **37,40**



**2937GC**



**9**

## SETS OF PIN PUNCHES

2937GCR

SCU



Prod. SCU

Contents :

9 2934 GN 0.9-1.4-1.8-2.4-2.8-3.4-3.9-4.9-5.9 mm punches

Complete assortment. In sturdy metal box.

2937GCR	Each	41,60
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2937GD

GEDORE



Orig. Gedore - Art. 116

Each set contains :

6 x 2934 GR cross cut chisels 3-4-5-6-7-8mm

Complete set supplied on wooden tool holder, enamelled.

2937GD	Each	56,60
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2937GE

GEDORE



Orig. Gedore - Art. 116 D

Each set contains :

6 x 2934 GR cross cut chisels 3-4-5-6-7-8mm

Complete set supplied in sturdy jointed metal case.

2937GE	Each	53,10
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2937GL

SCU



Prod. SCU

Contents :

5 2935 G 3-4-5-6-8 mm punches

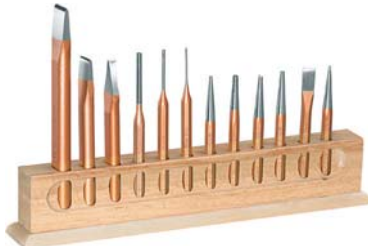
Complete assortment. With metal bracket for a bench or for suspension.

2937GL	Each	56,10
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## SETS OF CHISELS AND PUNCHES

2939G

GEDORE



Orig. Gedore - Art. 107

Enamelled wood tool holder.

12-pcs. set:

2 x 2934 GA chisels 150-200mm

1 x 2934 GB chisel 125mm

1 x 2934 GC cross cut chisel 150mm

4 x 2934 GF punches 2-3-4-5mm

1 x 2934 GE drift 120mm

3 x 2934 GR pin punch 2-3-5mm

Complete set.

2939G	Each	108,00
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**CHISELS FOR PNEUMATIC HAMMERS**
**Prod. Pneutec**

Types for hammer Art. 1727 GM.  
In alloyed steel, hardened.  
Hexagonal drive diam. 10mm, length: 45mm.  
Throttle chisel. Overall length: 170mm.

**2948GA** Each **37,70**


  
 DRUCKLUFTWERKZEUGE

**2948GA**


Product description as Art. 2948GA  
Sheet cutting chisel. Overall length: 155mm.

**2948GB** Each **43,30**


  
 DRUCKLUFTWERKZEUGE

**2948GB**


Product description as Art. 2948GA  
Flat chisel width: 19mm. Overall length: 175mm.

**2948GC** Each **35,80**


  
 DRUCKLUFTWERKZEUGE

**2948GC**


Product description as Art. 2948GA  
Scraper width: 32mm. Overall length: 165mm.

**2948GE** Each **37,70**


  
 DRUCKLUFTWERKZEUGE

**2948GE**


Product description as Art. 2948GA  
Scraper-bent chisel. Width: 35mm. Overall length: 160mm.

**2948GF** Each **33,90**


  
 DRUCKLUFTWERKZEUGE

**2948GF**


Product description as Art. 2948GA  
Square-tipped chisel. Overall length: 175mm.

**2948GH** Each **32,10**


  
 DRUCKLUFTWERKZEUGE

**2948GH**


Types for hammer Art. 1727 GP.  
Hexagonal drive diam. 10.5mm, length: 50mm.  
Flat chisel. Cutting edge width: 19mm. Overall length: 175mm.

**2948GP** Each **39,60**


  
 DRUCKLUFTWERKZEUGE

**2948GP**


Product description as Art. 2948GP  
Flat chisel. Cutting edge width: 32mm. Overall length: 175mm.

**2948GQ** Each **37,70**


  
 DRUCKLUFTWERKZEUGE

**2948GQ**


Product description as Art. 2948GP  
Sheet cutting chisel. Overall length: 190mm.

**2948GR** Each **35,80**


  
 DRUCKLUFTWERKZEUGE

**2948GR**


Product description as Art. 2948GP  
Square-tipped chisel. Overall length: 255mm.

**2948GS** Each **35,80**


  
 DRUCKLUFTWERKZEUGE

**2948GS**


Product description as Art. 2948GP  
Round-tipped chisel. Overall length: 180mm.

**2948GS 3** Each **41,50**


  
 DRUCKLUFTWERKZEUGE

**2948GS 3**


Product description as Art. 2948GP  
Sheet cutting edged chisel. Overall length: 175mm.

**2948GT** Each **41,50**


  
 DRUCKLUFTWERKZEUGE

**2948GT**


Product description as Art. 2948GP  
Scraper-bent chisel. Width: 35mm. Overall length: 185mm.

**2948GV** Each **35,80**


  
 DRUCKLUFTWERKZEUGE

**2948GV**


Product running out of stock.

2948GZ




Product description as Art. 2948GP  
Chisel for solder connection points. Overall length: 175mm.

2948GZ	Each	41,50
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### CHISELS FOR SDS-PLUS PERCUSSION DRILLS

2949G 4


**Prod. SCU**

In high quality steel, forged, hardened, for professional applications. Easily sharpenable. Can be inserted on all percussion drills provided with SDS-plus locking and rotation preventing device. Overall length: 250mm.

Gouge chisels - cutting edge width: 22mm.

2949G 4	Each	19,30
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2949G 6




Product description as Art. 2949G 4  
Flat chisels - width: 40mm.

2949G 6	Each	18,10
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2949G 8




Product description as Art. 2949G 4  
Flat chisels - width: 20mm.

2949G 8	Each	9,84
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2949G 10




Product description as Art. 2949G 4  
Square tip chisels.

2949G 10	Each	9,84
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### CHISELS FOR SDS-MAX PERCUSSION DRILLS

2949G 14


**Prod. SCU**

In high quality steel, forged, hardened, for professional applications. Easily sharpenable. Can be inserted on all percussion drills provided with SDS max locking.

Gouge chisels - cutting edge width: 26mm.

Overall length mm 300

2949G 14	Each	33,70
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2949G 15




Product description as Art. 2949G 14

Tip chisels.

Overall length mm 280 400 600

2949G 15	Each	13,30	13,60	19,80
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2949G 17




Product description as Art. 2949G 14

Flat chisels.

Overall length mm 280 400 600

Cutting edge width mm 25 25 25

2949G 17	Each	13,30	13,60	19,80
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2949G 19




Product description as Art. 2949G 14

Flat-spade shaped type.

Overall length mm 300 400

Cutting edge width mm 75 50

2949G 19	Each	31,60	24,60
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**CHISELS FOR ELECTRO-HAMMERS**
**Prod. SCU**

Suited to BOSCH electro-hammers: 11202,11203, 11204, 11206, 11208, 11209, UBH 6/35, UBH 6/35D, UBH 12/50, B + D HD 2032, HD 2036, AEG PH 240D, PH 350, PH 350D BBT BT 64 Metabo 1130 S - 1131 S.

Spade-shaped type.

Overall length	mm	300
<b>2949GB</b>	<b>Each</b>	<b>40,30</b>

Product running out of stock.



Product description as Art. 2949GB

Chisel type

Overall length	mm	300	400
<b>2949GC</b>	<b>Each</b>	<b>14,50</b>	<b>16,30</b>

Product running out of stock.



Product description as Art. 2949GB

Tip chisels.

Overall length	mm	300
<b>2949GD</b>	<b>Each</b>	<b>14,50</b>

Product running out of stock.



Suited to Hilti electro-hammer type: TE 42, TE 60, TE 72.

Chisel type

Overall length	mm	360	500
<b>2949GM</b>	<b>Each</b>	<b>19,40</b>	<b>23,60</b>

Product running out of stock.



Product description as Art. 2949GM

Tip chisels.

Overall length	mm	360	500
<b>2949GP</b>	<b>Each</b>	<b>19,40</b>	<b>23,60</b>

Product running out of stock.



Suited to BOSCH electro-hammers type: 11302,11305, 11306, 12310, USH6, USH 10.

Chisel type

Overall length	mm	300	400
<b>2950GA</b>	<b>Each</b>	<b>9,14</b>	<b>10,30</b>

Product running out of stock.



Product description as Art. 2950GA

Tip chisels.

Overall length	mm	300	400
<b>2950GB</b>	<b>Each</b>	<b>9,14</b>	<b>10,30</b>

Product running out of stock.



Suited to Kango electro-hammers type: 900, 950.

Chisel type

Overall length	mm	300	460	600
<b>2950GD</b>	<b>Each</b>	<b>11,10</b>	<b>13,40</b>	<b>21,50</b>

Product running out of stock.



Product description as Art. 2950GD

Tip chisels.

Overall length	mm	300	460	600
<b>2950GE</b>	<b>Each</b>	<b>11,10</b>	<b>13,40</b>	<b>21,50</b>

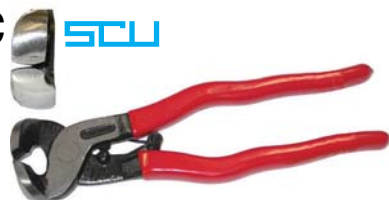
Product running out of stock.



**TILE NIPPERS**
**2955G****SCU****Prod. SCU**

In special steel, narrow cutting edges. Length: 190mm.

<b>2955G</b>	Each	<b>6,22</b>
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**2957GC****SCU****HARTMETALL**

In forged steel with hard metal inserts on cutting edges. Suitable to remove materials from glazed or vitrified wall tiles, gres, etc. Asymmetrical chisel-edge for flush cuts. Length: 200mm.

<b>2957GC</b>	Each	<b>42,10</b>
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**STONE END CUTTERS**
**2957GL****SCU****HARTMETALL****Prod. SCU**

Stone end cutter with hard metal cutting edge. Plastic handle. Suitable to cut floor tiles, marbles, terra-cotta, faesite, slate, asbestos cement, etc.

<b>2957GL</b>	Each	<b>5,74</b>
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**TILE PUNCH CUTTERS**
**2957GP****SCU****HARTMETALL****Prod. SCU**

With hard metal small wheel. Plastic handle. Suitable to cut floor tiles, marbles, terra-cotta, faesite, slate, asbestos cement, etc.

<b>2957GP</b>	Each	<b>5,38</b>
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**TILE PUNCH CUTTERS**
**2958G****SCU****HARTMETALL****Prod. SCU**

With hard metal small wheel Ø 14mm.

Suited to cut glazed or vitrified floor tiles, porcelain and maiolica.

Handles coated with synthetic material.

Overall length: 210mm.

<b>2958G</b>	Each	<b>6,64</b>
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Spare wheel for Art. 2958 G.

<b>O2958G</b>	Each	<b>2,16</b>
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**SPRING TILE CUTTERS**
**2959G****SCU****Prod. SCU**

Spring type for manual use. Rubber wheel and steel small wheel Ø 22mm.

Suited to cut wall tiles. Thickness and cutting depth adjustment.

Overall length: 270mm.

<b>2959G</b>	Each	<b>17,40</b>
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Spare steel wheel for Art. 2959 G.

<b>O2959G</b>	Each	<b>2,38</b>
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Hard metal wheel Ø 22mm for Art. 2959 G.

<b>O2959GA</b>	Each	<b>6,46</b>
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Spare rubber roller for Art. 2959 G.

<b>O2959GE</b>	Each	<b>1,48</b>
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**TILE DRILLS**
**2959GL****SCU****HARTMETALL****Prod. SCU**

Suited to bore tiles Ø 30mm and 80mm. To be used with electric drills. Drive Ø: 9mm.

With centering bit and adjustable blade with hard metal inserts.

<b>2959GL</b>	Each	<b>9,68</b>
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Spare knife for Art. 2959 GL.

<b>O2959GL</b>	Each	<b>7,36</b>
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**TILE CUTTING MACHINES**

**Prod. SCU**

Hard metal small wheel Ø 15mm. Standard model with 2 sliding guides and steel basement. Suitable to cut glazed or vitrified tiles, porcelain, maiolica, etc.

Max cutting length	mm	300
Weight	Kg	1,7
<b>2960GA</b>	<b>Each</b>	<b>35,50</b>

Spare small wheel for Art. 2960 GA.

<b>O2960GA</b>	<b>Each</b>	<b>3,24</b>
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**SCU**

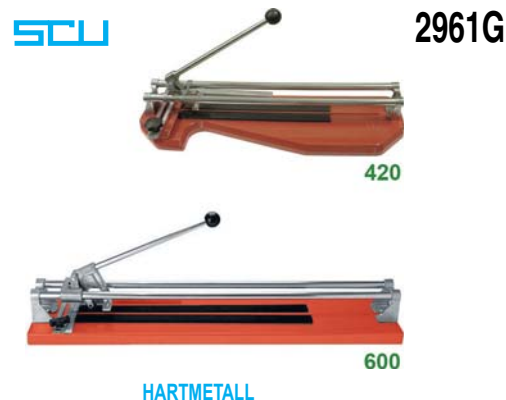


Hard metal small wheel. Professional model with 2 sliding guides in ground steel and 90° squaring arm. Suitable to cut any kind of glazed or vitrified tiles, porcelain, maiolica, etc.

Max cutting length	mm	<b>420</b>	<b>600</b>
Max cutting depth	mm	15	15
wheel Ø	mm	22	22
Working base in		aluminium	steel
Weight	Kg	2,4	7
<b>2961G</b>	<b>Each</b>	<b>76,30</b>	<b>96,50</b>

Spare wheel for Art. 2961 G 420-600 see Art. 02959 GA.  
Size mm 420 running out of stock.

**SCU**

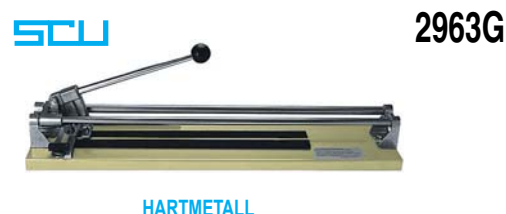


Hard metal small wheel Ø 22mm. Precision professional model with ball bearing movement, hardened and ground guides. Steel basement and 90° squaring arm. Suitable to easily cut all kinds of glazed or vitrified tiles, porcelain, maiolica, etc.

Max cutting length	mm	<b>470</b>	<b>600</b>
Max cutting depth	mm	18	18
Weight	Kg	7,4	8,4
<b>2963G</b>	<b>Each</b>	<b>154,00</b>	<b>162,00</b>

For spare wheel see Art. 02959 GA.

**SCU**



**NAIL PULLERS**

**Prod. SCU**

Suitable for upholsterers and decorators. Steel blade 80mm, plastic handle.

<b>2992</b>	<b>Each</b>	<b>6,32</b>
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**SCU**



**MARKING TOOLS**

**Orig. Witte - Art. 91504**

In CHROME VANADIUM steel, nickel plated. Reinforced model - Round blade tanged into the handle. Wooden handle, lacquered. Blade 100x6mm.

<b>2996G</b>	<b>Each</b>	<b>7,74</b>
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**WITTE**



**Orig. Witte - Art. 91900**

Product description as Art. 2996G. Reinforced model - Square blade tanged into the handle. Wooden handle, lacquered. Blade 100x6mm.

<b>2997G</b>	<b>Each</b>	<b>9,18</b>
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**WITTE**



**Orig. Witte - Art. 92501**

Product description as Art. 2996G. Short pattern - Round blade. Plastic handle. Blade 50x3mm.

<b>2997GP</b>	<b>Each</b>	<b>5,78</b>
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**WITTE**



Product running out of stock.

**Orig. Witte - Art. 92500**

Product description as Art. 2996G. Reinforced model - Round blade. Plastic handle. Blade 100x6mm.

<b>2998G</b>	<b>Each</b>	<b>7,04</b>
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**WITTE**



Product running out of stock.

2999G


**Orig. Witte - Art. 92900**

Product description as Art. 2996G

Reinforced model - Square blade.

Plastic handle. Blade 100x6mm.

2999G	Each	7,32
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Product running out of stock.

### NAIL PULLERS AND CROW BARS

3009P


**Prod. SCU**

Model for storemen and carpenters.

1 crab-shaped opening and 1 chisel opening, bent. In hardened steel. Round cross section.

Overall length	mm	350	400
3009P	Each	6,82	7,36

### CARPENTER'S PINCHING BARS

3009R


**Orig. Pedinghaus - Art. 113.01**

Forged model, very sturdy construction with 1 curved crab-shaped opening and 1 bent opening. Its special tool bending and flat cross section ensure a big working force in confined areas.

Opening width: 45mm

Overall length	mm	375	450
3009R	Each	17,20	26,20

3009S


**Prod. SCU**

Italian model with 1 curved crab-shaped opening and 1 bent chisel opening. In forged and hardened steel. Hexagonal cross section.

Overall length	mm	500	600	700	800
3009S	Each	6,58	7,54	7,90	8,26

3010G


**Orig. Pedinghaus - Art. A 117.01**

Forged model, sturdy construction with 1 bent crab-shaped opening and 1 bent chisel opening. Round cross section.

Overall length	mm	500	600	800
3010G	Each	15,40	16,50	20,10

3011G


**Orig. Pedinghaus - Art. A 117.K 1**

Extra sturdy forged model, combination type with 1 curved crab-shaped opening and 1 bent chisel opening. Hexagonal cross section.

Overall length	mm	600	800
3011G	Each	20,40	24,00

3011GP


**Orig. Pedinghaus - Art. 112.01-Mod. GORILLA BAR**

Very sturdy forged model, combination type with 1 curved crab-shaped opening and 1 bent chisel opening. Its special tool bending and oval cross section assure a big working force.

Overall length	mm	350	600	900
3011GP	Each	17,90	24,70	32,50

### CROW BARS

3011S


**Prod. SCU**

In forged steel.

Chisel type, bent.

Overall length	mm	1000	1200	1500
3011S	Each	24,30	30,50	46,80

3011T




Product description as Art. 3011S

V-notch type, bent.

Overall length	mm	1000	1200	1500
3011T	Each	24,30	30,50	46,80

3012G


**Orig. Pedinghaus - Art. 0101.51**

In special forged steel. Round cross section.

Chisel type, flat, bent.

Overall length	mm	1000	1250	1500
3012G	Each	35,30	30,10	37,90

**Orig. Peddinghaus - Art. 0111.01**

Product description as Art. 3012G

V-notch type, flat, bent.

Overall length	mm	<b>1000</b>	<b>1250</b>	<b>1500</b>
<b>3012GA</b>	Each	<b>39,40</b>	<b>40,70</b>	<b>43,70</b>



**3012GA**



**Orig. Peddinghaus - Art. A 107.01**

In special forged steel. Flat cross section.

Type with steel wheels

Length	mm	1550
Max load capacity	Kg	3000
Weight	Kg	15
<b>3013G</b>	Each	<b>422,00</b>



**3013G**



**Orig. Peddinghaus - Art. A 107.G1**

Product description as Art. 3013G

Type with rubber wheels

Length	mm	1550
Max load capacity	Kg	3000
Weight	Kg	15
<b>3014G</b>	Each	<b>470,00</b>



**3014G**



**SPADES AND SHOVELS**

**Prod. SCU**

Spades in sheet steel, painted, with handle.

Overall length: approx. 1600mm.

<b>3018</b>	Each	<b>18,30</b>
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**3018**



General purpose shovels in stamped sheet steel with handle and grip.

Overall length: approx. 800mm.

<b>3019</b>	Each	<b>24,50</b>
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**3019**



Carbon shovels and similar, in stamped sheet steel, with handle and grip.

Overall length: approx. 1050mm.

<b>3020</b>	Each	<b>26,20</b>
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**3020**



Foldable model for minimum space requirement.

General purpose shovels in aluminium and special powder painting, polished, functional, light and sturdy.

With handle and grip.

Open overall length: 960mm, folded overall length: 500mm.

<b>3020E</b>	Each	<b>57,40</b>
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**3020E**



Foldable model for minimum space requirement.

General purpose shovels in polyamide reinforced with fiberglass ensure max. lightness, sturdiness and resistance.

With handle and grip.

Open overall length: 980mm, folded overall length: 500mm.

<b>3020F</b>	Each	<b>48,50</b>
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**3020F**



**PICKAXE WITH HANDLE**

**Prod. SCU**

In forged and hardened steel. Hardwood handle, length: 900mm. Weight: 1.5kg.

Type with pointed head and horizontal pen.

<b>3021</b>	Each	<b>17,30</b>
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**3021**





In forged and hardened steel. Shatterproof glass fiber handle. Grip covered with sturdy rubber. With hole. Length: 910mm. Weight: 2,5kg. Type with pointed head and horizontal pen.

3021E Each 43,10

### BILLHOOKS



Prod. SCU

Sharp blade in forged and hardened steel. Leather handle, with hand protector. Length: 430mm. Weight: 0.5kg.

3021G Each 35,30

### ACID PENS



Prod. SCU

Pen only, without cartridge. For marking on iron, steel, stainless steel, copper, nickel, lead, tin, bronze, etc. To be used in combination with blue cartridges Art. 3027 B or green cartridges Art. 3027 C.

Corrosion formation may be prevented by atomizing the anti-corrosive Art. 3027 E.

3027A Each 14,10



Blue colour cartridges for marking on iron and steel with pen Art. 3027 A.

3027B Each 14,40



Green colour cartridges for marking on stainless steel, copper, nickel, lead, tin, bronze with pen Art. 3027 A.

3027C Each 14,40

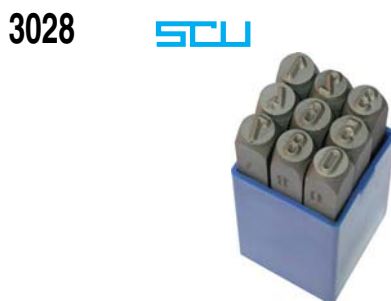


Sprayer atomizing an anti-corrosive against the action of the acid pen Art. 3027 A. It ensures a long lasting protection of the treated surface.

Contents: 150ml

3027E Each 20,10

### MARKING PUNCH SETS



until 80 kg/mm<sup>2</sup>



Prod. SCU

Right-hand use.

Fine quality. In hardened steel for punching metals with resistance up to 80Kg/sqmm.

Differentiated hardening treatment, splinter-proof safety. Square body with digit round end.

Characters according to DIN 1451. Cutting hardness HRC58-61. In box.

Numbers: 9pcs from 0 to 9.

Characters height	mm	1	1,5	2	3	4	5	6
Punches side x length	mm	6x65	6x65	6x65	6x65	7x65	8x65	9x75
3028	Per set	12,00	7,98	7,98	8,32	8,86	9,98	10,70
Characters height	mm	8	10					
Punches side x length	mm	11x76	12x80					
3028	Per set	14,80	19,70					

Available on request loose punches.



Product description as Art. 3028

Letters: 27pcs from A to Z.

Characters height	mm	1	1,5	2	3	4	5	6
Punches side x length	mm	6x65	6x65	6x65	6x65	7x65	8x65	9x75
<b>3029</b>	<b>Per set</b>	<b>36,10</b>	<b>24,10</b>	<b>24,10</b>	<b>25,10</b>	<b>26,60</b>	<b>30,10</b>	<b>32,10</b>

Characters height	mm	8	10
Punches side x length	mm	11x76	12x80
<b>3029</b>	<b>Per set</b>	<b>44,20</b>	<b>58,90</b>

Available on request loose punches.



**3029**

 until 80 kg/mm<sup>2</sup>


Right-hand use.

Fine quality. In hardened steel for punching metals with resistance up to 80Kg/sqmm.

Differentiated hardening treatment, splinter-proof safety. Square body with digit taper end.

Characters according to DIN 1451. Cutting hardness HRC58-61. In box.

Numbers: 9pcs from 0 to 9.

Characters height	mm	1	1,5	2	3	4	5	6
Punches side x length	mm	6x65	6x65	6x65	6x65	7x65	8x65	9x75
<b>3032G</b>	<b>Per set</b>	<b>18,60</b>	<b>12,40</b>	<b>12,40</b>	<b>12,90</b>	<b>13,70</b>	<b>15,40</b>	<b>16,50</b>

Characters height	mm	7	8	10	12	15
Punches side x length	mm	11x76	11x76	12x80	14x80	16x85
<b>3032G</b>	<b>Per set</b>	<b>22,80</b>	<b>22,80</b>	<b>30,30</b>	<b>35,80</b>	<b>63,20</b>

Available on request loose punches.



**3032G**

 until 80 kg/mm<sup>2</sup>


Product description as Art. 3032G

Letters: 27pcs from A to Z.

Characters height	mm	1	1,5	2	3	4	5	6
Punches side x length	mm	6x65	6x65	6x65	6x65	7x65	8x65	9x75
<b>3033G</b>	<b>Per set</b>	<b>55,80</b>	<b>36,90</b>	<b>36,90</b>	<b>38,50</b>	<b>41,00</b>	<b>44,20</b>	<b>49,50</b>

Characters height	mm	7	8	10	12	15
Punches side x length	mm	11x76	11x76	12x80	14x80	16x85
<b>3033G</b>	<b>Per set</b>	<b>68,30</b>	<b>68,30</b>	<b>90,80</b>	<b>108,00</b>	<b>169,00</b>

Available on request loose punches.



**3033G**

 until 80 kg/mm<sup>2</sup>


Right handed model LARGE SIZE.

Produced with CNC for maximum accuracy. Made of hardened steel to punch metals with a resistance up to 80 kg/sq mm.

Safety hardening against splinters. Rectangular body. Features according to DIN 1451. Hardness of cut HRC 58-61. Packed in box (25 mm in case).

Numbers: 9 pieces from 0 to 9.

Characters height	mm	18	20	25
Punches dimensions	mm	15x25x100	15x25x100	15x30x100
Series weight	Kg	2,5	2,5	3,3
<b>3034G</b>	<b>Per set</b>	<b>159,00</b>	<b>159,00</b>	<b>204,00</b>

Available on request loose punches.



**3034G**  
*new*

 until 80 kg/mm<sup>2</sup>

**9**

Product description as Art. 3034G

Letters: 27 pieces from A to Z.

Characters height	mm	18	20	25
Punches dimensions	mm	15x25x100	15x25x100	15x30x100
Series weight	Kg	7,3	7,3	9,5
<b>3035G</b>	<b>Per set</b>	<b>476,00</b>	<b>476,00</b>	<b>612,00</b>

Available on request loose punches.



**3035G**  
*new*

 until 80 kg/mm<sup>2</sup>


## 3036G SCU

until 130 kg/mm<sup>2</sup>

Right-hand use. Extra-quality.

In hardened special steel for punching metals with resistance up to 130Kg/sqmm.

Differentiated hardening treatment, splinter-proof safety.

Round-flat body and digit end. Characters according to DIN 1451.

Cutting hardness HRC58-60

In box.

Numbers: 10pcs from 0 to 9.

Characters height	mm	2	3	4	5	6	8	10
Punches side x length	mm	8x64	8x64	8x64	10x69	10x77	13x85	15x95
<b>3036G</b>	Per set	<b>18,60</b>	<b>18,60</b>	<b>18,60</b>	<b>25,80</b>	<b>25,80</b>	<b>39,80</b>	<b>54,20</b>

Characters height	mm	12	15
Punches side x length	mm	18x100	20x100
<b>3036G</b>	Per set	<b>147,00</b>	<b>193,00</b>

Punches NOT be supplied loose.

## 3037G SCU

until 130 kg/mm<sup>2</sup>

Product description as Art. 3036G

Alphabets: 27pcs from A to Z.

Characters height	mm	2	3	4	5	6	8	10
Punches side x length	mm	8x64	8x64	8x64	10x69	10x77	13x85	15x95
<b>3037G</b>	Per set	<b>49,30</b>	<b>49,30</b>	<b>49,30</b>	<b>67,70</b>	<b>67,70</b>	<b>110,00</b>	<b>149,00</b>

Characters height	mm	12	15
Punches side x length	mm	18x100	20x100
<b>3037G</b>	Per set	<b>318,00</b>	<b>429,00</b>

Punches NOT be supplied loose.

## MARKING PUNCH SETS

## 3040G SCU

until 130 kg/mm<sup>2</sup>

Prod. SCU

Right-hand use. Extra-quality. In hardened special steel for punching low and high-resistance metals up to 130Kg/sqmm. In soft metals, pitting enables a clearer reading, avoiding material deformation. Reduced splintering for harder metals. In box.

Numbers: 10pcs from 0 to 9.

Characters height	mm	3	4	5	6	8	10	12
Punches side x length	mm	8x64	8x64	10x69	10x69	13x77	15x85	18x95
<b>3040G</b>	Per set	<b>30,80</b>	<b>37,40</b>	<b>37,40</b>	<b>59,10</b>	<b>59,10</b>	<b>80,10</b>	<b>140,00</b>

Punches NOT be supplied loose.

## 9 3041G SCU

until 130 kg/mm<sup>2</sup>

Product description as Art. 3040G

Letters: 26pcs from A to Z.

Characters height	mm	3	4	5	6	8	10	12
Punches side x length	mm	8x64	8x64	10x69	10x69	13x77	15x85	18x95
<b>3041G</b>	Per set	<b>87,50</b>	<b>108,00</b>	<b>108,00</b>	<b>167,00</b>	<b>167,00</b>	<b>227,00</b>	<b>352,00</b>

Punches NOT be supplied loose.

## SAFETY HANDLES FOR MARKING PUNCHES

3041GE SCU  
new

Prod. SCU

Handle that allows you to tap the punch with the hand at a safe distance to avoid bruises or wounds. Reinforced plastic body, locking system of the punch by turning the rear wheel.

Suitable for all punches with a cross section up to 20x20 mm.

<b>3041GE</b>	Each	<b>61,90</b>
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3041GF SCU  
new

Professional model.

Handle that allows you to tap the punch with the hand at a safe distance to avoid bruises or wounds. Body made of sturdy metal for heavy use. Rapid locking system of the punch thanks to a spring.

Suitable for all punches with a cross section up to 20x20 mm.

<b>3041GF</b>	Each	<b>108,00</b>
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**ASSORTMENTS OF INTERCHANGEABLE STEEL MARKING PUNCHES**

**Prod. SCU**

Extra-quality. Characters in hardened special steel for punching metals. Cutting hardness HRC 60/61. Steel character-holder support with differentiated hardened head, splinter-proof. Possibility to compose words or numbers at different spacing, single-action punching. In box.

The set contains:

- 50 numerical characters (5pcs for each type from 0 to 9)
- 5 spacing punches
- 1 character-holder support
- 1 wrench included in the packing

Characters height	mm	3	4	5
Max no. of characters in the character holder		8	8	8
Punches dimensions	mm	3x6x20	3x6x20	4x8x25
<b>3041GR</b>	Each	<b>544,00</b>	<b>544,00</b>	<b>544,00</b>



Extra-quality. Characters in hardened special steel for punching metals. Cutting hardness HRC 60/61. Steel character-holder support with differentiated hardened head, splinter-proof, and knurled shank. Possibility to compose words or numbers at different spacing, single-action punching. In box.

The set contains:

- 100 alpha-numerical characters and symbols as shown in the figure below the picture.
- 5 spacing punches
- 1 character-holder support
- 1 wrench included in the packing

Characters height	mm	3	4	5	6
Max no. of characters in the character holder		13	10	8	6
Punches dimensions	mm	3x6x19	4x8x19	5x8x19	6x10x19
<b>3041GT</b>	Each	<b>649,00</b>	<b>636,00</b>	<b>636,00</b>	<b>1.280,00</b>

Size mm 6 running out of stock.

Assortment composition :

A	A	A	B	B	C	C	D	D	E	E	E	E	F	F	G	G	H	H	I		
I	I	J	J	K	K	L	L	L	M	M	N	N	N	O	O	O	P	P	Q		
R	R	R	S	S	T	T	T	U	U	U	V	V	W	W	X	X	Y	Z	/		
/	-	-	.	.	.	,	,	1	1	1	1	2	2	2	2	3	3	3	4	4	
4	4	5	5	5	6	6	6	7	7	7	7	8	8	8	8	9	9	9	0	0	0



**ZINC MARKING STENCIL SETS**

**Prod. SCU**

In heavy zinc plate.

Number sets: 10 numbers

Characters height	mm	20	30	40	50	60	80	100
<b>3042</b>	Per set	<b>5,02</b>	<b>5,02</b>	<b>5,88</b>	<b>7,26</b>	<b>8,48</b>	<b>12,10</b>	<b>16,60</b>
Characters height	mm	120	150	200	250			
<b>3042</b>	Per set	<b>21,60</b>	<b>34,60</b>	<b>63,10</b>	<b>85,40</b>			



Product description as Art. 3042

Letter sets: 27 letters.

Characters height	mm	20	30	40	50	60	80	100
<b>3043</b>	Per set	<b>13,30</b>	<b>13,30</b>	<b>17,70</b>	<b>18,90</b>	<b>21,30</b>	<b>28,40</b>	<b>40,50</b>
Characters height	mm	120	150	200	250			
<b>3043</b>	Per set	<b>51,90</b>	<b>85,70</b>	<b>138,00</b>	<b>204,00</b>			



**MARKING INK FOR STENCILS**

**Prod. SCU**

Aerosol-type especially developed to stencil on metals, woods and cardboards. Very good resistance to light and water. In 400ml spray cans.

Colour: black

<b>3045B</b>	Each	<b>14,10</b>
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Product running out of stock.



**ADJUSTABLE DISK CUTTERS**

**Prod. SCU**

In steel. Wooden handle. Hardened steel knives. Graduated bar. For leather, cardboard, rubber, plastic seals, etc.

With 1 knife.

For gaskets up to Ø	mm	200	400	600	800
Rod useful length	mm	100	200	300	400
<b>3074</b>	Each	<b>76,20</b>	<b>82,40</b>	<b>88,80</b>	<b>99,90</b>



## 3075 SCU



Product description as Art. 3074

With 2 knives.

For gaskets up to Ø	mm	200	400	600	800
Rod useful length	mm	100	200	300	400
<b>3075</b>	<b>Each</b>	<b>91,80</b>	<b>97,30</b>	<b>109,00</b>	<b>120,00</b>

Spare knives for Art. 3074 and 3075, 200-400-600-800mm.

<b>O3075</b>	<b>Each</b>	<b>11,30</b>
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## 3075G SCU



In steel. Wooden handle, adjustable sliding bar. For leather, rubber, plastic, synthetic seals, etc.

With 1 knife.

For gaskets up to Ø	mm	300	400	500
<b>3075G</b>	<b>Each</b>	<b>49,90</b>	<b>50,50</b>	<b>51,40</b>

For spare knives see Art. 03076 G.

## 3076G SCU



In steel, with adjustable sliding bar. For leather, rubber, plastic, synthetic seals, etc. Cylindrical shank Ø 17mm for use on pillar drills.

With 1 knife.

For gaskets up to Ø	mm	600	800
<b>3076G</b>	<b>Each</b>	<b>44,70</b>	<b>45,90</b>

Spare knives for Art. 3075 G and 3076 G, all sizes.

<b>O3076G</b>	<b>Each</b>	<b>7,98</b>
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## DISK CUTTERS AND RING CUTTERS

## 3077GF SCU



Prod. SCU

Use on drills.

Adjustable feet on graduated bar. HSS steel knives. Interchangeable centre drill. To obtain disks and rings with diameters of from 40mm to 200mm in wood, laminates, plywood, plastic laminates, leather, rubber, plastic, plaster, plasterboard, etc.

Hexagonal shank 10mm.

Complete. Weight: 300g.

<b>3077GF</b>	<b>Each</b>	<b>86,30</b>
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A couple of spare knives for Art. 3077 GF.

<b>O3077GFA</b>	<b>Per pair</b>	<b>22,30</b>
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## CORE DRILLS

## 3077GL SCU



HSS-Co



Prod. SCU

Made from HSS-M2 steel, CBN ground.

Cutting edges for right-hand rotation. To be used on pillar drills, magnetic or normal, with direct Weldon shank ø 19mm. Particularly suitable for drilling I-beams, large steel plates, steel, light alloys, etc. Special cut geometry allows to increase drilling speed, much higher than that of conventional helical bits. The core drills are supplied with integral shank, without pilot bits.

Suitable for use on pillar drills with magnet Art. 3078 G-3078 GA-3078 GE-3078 GL-3078 GP.

Cutting depth 30mm

Ø	mm	12	13	14	15	16	17	18
<b>3077GL</b>	<b>Each</b>	<b>24,80</b>	<b>25,20</b>	<b>25,20</b>	<b>26,10</b>	<b>27,30</b>	<b>28,20</b>	<b>29,40</b>
Ø	mm	19	20	21	22	23	24	25
<b>3077GL</b>	<b>Each</b>	<b>29,90</b>	<b>31,90</b>	<b>33,60</b>	<b>34,50</b>	<b>36,60</b>	<b>37,40</b>	<b>39,10</b>
Ø	mm	26	27	28	29	30	31	32
<b>3077GL</b>	<b>Each</b>	<b>39,90</b>	<b>42,10</b>	<b>42,90</b>	<b>45,10</b>	<b>46,70</b>	<b>54,60</b>	<b>58,80</b>
Ø	mm	33	34	35	36	37	38	39
<b>3077GL</b>	<b>Each</b>	<b>60,90</b>	<b>70,20</b>	<b>74,40</b>	<b>89,10</b>	<b>90,30</b>	<b>90,70</b>	<b>93,70</b>
Ø	mm	40	41	42	43	44	45	46
<b>3077GL</b>	<b>Each</b>	<b>94,50</b>	<b>94,90</b>	<b>102,00</b>	<b>106,00</b>	<b>110,00</b>	<b>110,00</b>	<b>111,00</b>
Ø	mm	47	48	49	50	51	52	53
<b>3077GL</b>	<b>Each</b>	<b>115,00</b>	<b>120,00</b>	<b>121,00</b>	<b>128,00</b>	<b>131,00</b>	<b>135,00</b>	<b>143,00</b>
Ø	mm	54	55	56	57	58	59	60
<b>3077GL</b>	<b>Each</b>	<b>150,00</b>	<b>153,00</b>	<b>157,00</b>	<b>162,00</b>	<b>166,00</b>	<b>192,00</b>	<b>207,00</b>
Ø	mm	61	63	64	65			
<b>3077GL</b>	<b>Each</b>	<b>266,00</b>	<b>275,00</b>	<b>279,00</b>	<b>284,00</b>			

Crown mills Art. 3077 GL 61 to 75 mm Weldon 32 coupling for magnetic column drills Art. 3078 GL available on request.

Sizes mm 61 - 63 - 64 and 65 running out of stock.

Pilot bits 6.35x80mm, for Art. 3077 GL.

<b>O3077GP</b>	<b>Each</b>	<b>7,60</b>
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Product description as Art. 3077GL

Cutting depth 50mm

Ø	mm	12	13	14	15	16	17	18
3077GM	Each	32,40	32,80	32,80	34,10	35,30	36,60	38,30
Ø	mm	19	20	21	22	23	24	25
3077GM	Each	38,70	41,60	43,70	45,10	47,50	48,30	50,40
Ø	mm	26	27	28	29	30	31	32
3077GM	Each	51,70	55,00	55,90	58,10	60,50	70,60	76,40
Ø	mm	33	34	35	36	37	38	39
3077GM	Each	79,10	91,50	96,20	116,00	118,00	118,00	122,00
Ø	mm	40	41	42	43	44	45	46
3077GM	Each	123,00	124,00	132,00	138,00	142,00	144,00	144,00
Ø	mm	47	48	49	50	51	52	53
3077GM	Each	150,00	156,00	157,00	166,00	171,00	175,00	185,00
Ø	mm	54	55	56	57	58	59	60
3077GM	Each	194,00	199,00	203,00	210,00	216,00	249,00	270,00
Ø	mm	61	62	63	64	65		
3077GM	Each	327,00	336,00	343,00	352,00	359,00		

Crown mills Art. 3077 GM 61 to 75 mm Weldon 32 coupling for magnetic column drills Art. 3078 GL available on request. Sizes mm 61 - 62 - 63 - 64 and 65 running out of stock.

Pilot bits 6.35x105mm, for Art. 3077 GM.

O3077GP 1	Each	9,34
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**SCU**

**3077GM**



HSS-Co



Type with hard metal teeth.

Cutting edges for right-hand rotation. To be used on pillar drills, magnetic or normal, with direct Weldon shank ø 19mm. Particularly suitable for drilling hard materials. Special cutting geometry allows extended tool life. The core drills are supplied with integral shank, without pilot bits.

Suitable for use on pillar drills with magnet Art. 3078 G-3078 GA-3078 GE-3078 GL-3078 GP.

Cutting depth 35mm.

Ø	mm	16	17	18	19	20	21	22
3077GT	Each	80,60	80,60	80,60	80,60	80,60	85,10	85,10
Ø	mm	23	24	25	26	27	28	29
3077GT	Each	85,10	85,10	85,10	91,30	91,30	97,80	97,80
Ø	mm	30	31	32	33	34	35	40
3077GT	Each	97,80	105,00	105,00	111,00	111,00	111,00	135,00
Ø	mm	45	50					
3077GT	Each	171,00	175,00					

Pilot bits length 90mm, for Art. 3077 GT.

Size	1	2	
Ø	6,34	8	
For cutting mills Ø	16-17	16 to 35	
O3077GT	Each	7,60	11,40

Size 1 running out of stock.

**SCU**

**3077GT**



HARTMETALL



**Prod. SCU**

Professional model suitable for drilling with core bits, hole saws, drill tips (in rotation only) and for tapping. 230 V single-phase motor with infinitely variable speed control, rotation R+L, joint torque limiter, electronic overload protection, restart lock that prevents the automatic restart of the drill after an overload. Equipped with additional handle. Rack chuck att. 5/8, opening 3-16 mm.

In case.

Boring capacity with crown mills made of MD	mm	15 to 30
Boring capacity with crown mills made of MD and hole saws made of HSS	mm	12 to 60
Bores with tips (only rotation) up to	mm	20
Bores with tips made of MD for continuous boring	M	4 to 8
Threads with taps up to	M	12
Absorbed power	W	1300
Performance	W	800
Nominal speed	rev/min	0-2000
No-load speed	rev/min	3400
Weight	Kg	3,4
3078B	Each	1.420,00

**SCU**

**3078B**  
*new*



## PILLAR DRILLS WITH MAGNETIC SUPPORT

3078G

SCU



## Prod. SCU

Angular-type, feeding through a lever that can be installed on both sides of the drilling machine. Suitable for drilling in confined areas. Sturdy manufacture, compact and handy, with magnetic support for vertical, horizontal and upside down use. 230 V-50/60 Hz monophase motor with overload safety switch included. Equipped with locking device to avoid accidental start-up before the magnet is installed. Manual lubrication (see Art. 3100 M). Weldon shank Ø 19mm. In practical transport case.

Single speed.

Boring capacity with cutting mills	mm	12 to 35
Magnet traction force	N	15000
Magnet dimensions	mm	160x80
Power	W	1100
No-load speed	rev/min	650
Height	mm	200
Max cutting depth	mm	30
Weight	Kg	10

<b>3078G</b>	Each	<b>1.040,00</b>
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3078GA

SCU



Sturdy manufacture, compact, light, with magnetic support for vertical, horizontal and upside down use. 230 Volt monophase motor with overload safety switch included. Equipped with locking device to avoid accidental start-up before the magnet is installed. Automatic lubrication. Weldon shank Ø 19mm. In practical case.

Single speed.

Boring capacity with cutting mills	mm	12 to 35
Bores with tips up to	mm	13
Magnet traction force	N	15000
Magnet dimensions	mm	160x80
Power	W	1100
No-load speed	rev/min	620
Height	mm	400
Max cutting depth	mm	50
Weight	Kg	12

<b>3078GA</b>	Each	<b>956,00</b>
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Adapter complete with three-jaw chuck, opening 1,5-13mm, for drill Art. 3078 GA.

<b>O3078GB</b>	Each	<b>30,50</b>
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3078GE

SCU



Sturdy manufacture, compact, steady, with magnetic support for vertical, horizontal or upside down use. 230 V-50 Hz mono-phase motor with overload safety switch included. Equipped with locking device to avoid accidental start-up before the magnet is installed. Automatic lubrication. Weldon shank Ø 19mm. In handy case.

Double speed.

Boring capacity with cutting mills	mm	12 to 50
Bores with tips up to	mm	16
Magnet traction force	N	32000
Magnet dimensions	mm	200x100
Power	W	1800
No-load speed	rev/min	380/500
Height	mm	495
Max cutting depth	mm	75
Weight	Kg	22,9

<b>3078GE</b>	Each	<b>1.640,00</b>
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Adapter complete with three-jaw chuck, opening 1-16mm, for drill Art. 3078 Ge.

<b>O3078GE</b>	Each	<b>34,30</b>
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Type with a 30° revolving basement, 20mm longitudinally adjustable. Sturdy and stable manufacture, with magnetic support for vertical, horizontal and upside down use. 230 V-50 Hz monophasic motor with overload safety switch included. Equipped with locking device to avoid accidental start-up before the magnet is installed. Reverse rotation for tapping operation. Automatic lubrication. Weldon shaft Ø 19mm and CM 3. In practical transport case.

Four speed-model

Boring capacity with cutting mills	mm	12 to 75
Threading capacity	M	3 to 14
Bores with tips with cyl. drive up to	mm	16
Bores with tips with drive CM3 up to	mm	31,75
Magnet traction force	N	22500
Magnet dimensions	mm	200x100
Power	W	1800
No-load speed	rev/min	210/270/410/530
Height	mm	550
Max cutting depth	mm	100
Weight	Kg	27

**3078GL** Each **2.160,00**

For drilling machine electromagnetic stands see Art. 1682.

CM 3 shaft adapter complete with three-jaw chuck, opening 3-16mm.

**O3078GL** Each **34,30**

CM 3/Weldon 32 adapter for core drills from Ø 66mm.

**O3078GLA** Each **163,00**

Socket holder chuck CM 3 for tap holder sockets from M 3 to 14.

**O3078GLB** Each **249,00**

Tap holder socket for taps DIN 371/376

Size		1	2	3	4	5	6	7
For taps	M	3	4	5-6	8	10	12	14
Drive Ø	mm	3,5	4,5	6	8	10	9	11

**O3078GLE** Each **72,80** **72,80** **72,80** **72,80** **72,80** **72,80** **72,80**

**BATTERY MAGNETIC-STAND DRILLING MACHINES**

**Prod. SCU**

Sturdy body, compact, stable, with magnetic support for vertical, horizontal or upside down use. HIGH NUMBER OF HOLES PER CHARGE.

Equipped with a very powerful LITHIUM battery, removable and rechargeable in a short time (60 min). 230 V battery charger. With a device that allows the magnet to remain in traction even when the battery is low. Automatic lubrication. Weldon connection Ø 19 mm. In practical carry cases.

Boring capacity with cutting mill	mm	12 to 36
Bores with tip up to	mm	13
Magnet traction force	N	10000
Magnet dimensions	mm	160x80
Power	W	1500
No-load speed	rev/min	510
Battery voltage:	Volt	37-7,6 Ah Li
Height	mm	480/590
Max cutting depth	mm	55
Weight	Kg	15

**3078GP** Each **3.280,00**

Spare charger for Art. 3078 GP.

**O3078GP 1** Each **529,00**

Spare battery for Art. 3078 GP.

**O3078GP 2** Each **1.240,00**

**SCU**

**3078GL**



**SCU**

**37V**

**3078GP**  
*new*



**HOLE CUTTERS**

**3078GS**

**SCU**



**HSS**



**Prod. SCU-Orig. MP.S**

Bi-metal type in HSS steel, professional use. Progressive variable tothing, with special drill between one tooth and the other to optimize chip discharge (chip-breaker). For longer saw life, best safety and shorter cutting times. To be used on portable or pillar drills. For drilling iron, steel, INOX, cast iron, non-ferrous metals, plastic, wood, etc. Particularly suitable for installers, forgers, sheet metal workers, etc. Useful cutting depth 38mm. Hole saw only.

Ø	mm	14	16	17	19	20	21	22	24	25	27	29	30	32	33	35	37
Ø	inches	9/16	5/8	11/16	3/4	25/32	13/16	7/8	15/16	1	1.1/16	1.1/8	1.3/16	1.1/4	1.5/16	1.3/8	1.7/16
<b>3078GS</b>	<b>Each</b>	<b>5,62</b>	<b>5,96</b>	<b>6,04</b>	<b>6,12</b>	<b>6,22</b>	<b>6,30</b>	<b>6,38</b>	<b>6,46</b>	<b>6,54</b>	<b>6,64</b>	<b>7,14</b>	<b>7,32</b>	<b>7,66</b>	<b>7,84</b>	<b>8,34</b>	<b>8,52</b>
Ø	mm	38	40	41	43	44	45	46	48	50	51	52	54	55	57	59	60
Ø	inches	1.1/2	1.9/16	1.5/8	1.11/16	1.3/4	1.25/32	1.13/16	1.7/8	1.31/32	2	2.1/16	2.1/8	2.3/16	2.1/4	2.5/16	2.3/8
<b>3078GS</b>	<b>Each</b>	<b>8,78</b>	<b>9,12</b>	<b>9,28</b>	<b>9,44</b>	<b>9,70</b>	<b>9,86</b>	<b>10,20</b>	<b>10,30</b>	<b>10,40</b>	<b>10,90</b>	<b>11,20</b>	<b>11,70</b>	<b>12,20</b>	<b>12,50</b>	<b>13,10</b>	<b>13,30</b>
Ø	mm	64	65	67	68	70	73	75	76	79	83	86	89	92	95	98	100
Ø	inches	2.1/2	2.9/16	2.5/8	2.11/16	2.3/4	2.7/8	2.31/32	3	3.1/8	3.1/4	3.3/8	3.1/2	3.5/8	3.3/4	3.7/8	3.31/32
<b>3078GS</b>	<b>Each</b>	<b>13,50</b>	<b>14,20</b>	<b>14,30</b>	<b>14,40</b>	<b>14,70</b>	<b>15,30</b>	<b>15,80</b>	<b>16,20</b>	<b>17,10</b>	<b>17,90</b>	<b>18,80</b>	<b>19,60</b>	<b>20,30</b>	<b>20,80</b>	<b>21,50</b>	<b>22,10</b>
Ø	mm	102	105	108	111	114	121	127	140	146	152	168	190	200	210		
Ø	inches	4	4.1/8	4.1/4	4.3/8	4.1/2	4.3/4	5	5.1/2	5.3/4	6	6.5/8	7.1/2	7.7/8	8.9/32		
<b>3078GS</b>	<b>Each</b>	<b>22,70</b>	<b>23,90</b>	<b>24,70</b>	<b>25,90</b>	<b>27,10</b>	<b>28,60</b>	<b>30,60</b>	<b>33,90</b>	<b>36,30</b>	<b>38,80</b>	<b>51,10</b>	<b>68,10</b>	<b>74,90</b>	<b>83,40</b>		

**3078GSA**  
*new*

**SCU**



**M42**



Bi-metal M42 steel model with 8% Cobalt content for high heat resistance and therefore higher durability of the saw.

For intensive use with portable drills or column. For drilling iron, steel, stainless steel, cast iron, non-ferrous metals, plastics, hard woods, etc.. Particularly suitable for electricians, installers, locksmiths, mechanics, carpenters, etc.

Usable depth of cut 38 mm.

Saw hole only.

Ø	mm	14	16	17	19	20	21	22
Ø	inches	9/16	5/8	11/16	3/4	25/32	13/16	7/8
<b>3078GSA</b>	<b>Each</b>	<b>10,10</b>	<b>10,30</b>	<b>10,50</b>	<b>10,70</b>	<b>10,80</b>	<b>11,10</b>	<b>11,20</b>
Ø	mm	24	25	27	29	30	32	33
Ø	inches	15/16	1	1.1/16	1.1/8	1.3/16	1.1/4	1.5/16
<b>3078GSA</b>	<b>Each</b>	<b>11,50</b>	<b>11,80</b>	<b>12,10</b>	<b>12,40</b>	<b>12,80</b>	<b>12,90</b>	<b>13,30</b>
Ø	mm	35	37	38	40	41	43	44
Ø	inches	1.3/8	1.7/16	1.1/2	1.9/16	1.5/8	1.11/16	1.3/4
<b>3078GSA</b>	<b>Each</b>	<b>13,70</b>	<b>14,30</b>	<b>15,20</b>	<b>16,10</b>	<b>16,50</b>	<b>17,10</b>	<b>17,10</b>
Ø	mm	46	48	50	51	52	54	55
Ø	inches	1.13/16	1.7/8	1.31/32	2	2.1/16	2.1/8	2.3/16
<b>3078GSA</b>	<b>Each</b>	<b>17,30</b>	<b>17,90</b>	<b>18,40</b>	<b>18,70</b>	<b>19,10</b>	<b>19,40</b>	<b>19,90</b>
Ø	mm	57	59	60	64	65	67	68
Ø	inches	2.1/4	2.5/16	2.3/8	2.1/2	2.9/16	2.5/8	2.22/32
<b>3078GSA</b>	<b>Each</b>	<b>20,10</b>	<b>20,70</b>	<b>21,10</b>	<b>21,80</b>	<b>22,30</b>	<b>22,90</b>	<b>23,30</b>
Ø	mm	70	73	75	76	79	83	86
Ø	inches	2.3/4	2.7/8	2.31/32	3	3.1/8	3.1/4	3.3/8
<b>3078GSA</b>	<b>Each</b>	<b>23,70</b>	<b>24,80</b>	<b>25,30</b>	<b>25,30</b>	<b>26,20</b>	<b>27,20</b>	<b>28,10</b>
Ø	mm	89	92	95	98	100	102	105
Ø	inches	3.1/2	3.5/8	3.3/4	3.7/8	3.31/32	4	4.1/8
<b>3078GSA</b>	<b>Each</b>	<b>29,10</b>	<b>30,10</b>	<b>31,30</b>	<b>32,20</b>	<b>33,10</b>	<b>33,20</b>	<b>34,10</b>
Ø	mm	108	111	114	121	127	133	140
Ø	inches	4.1/4	4.3/8	4.1/2	4.3/4	5	5.15/64	5.1/2
<b>3078GSA</b>	<b>Each</b>	<b>35,30</b>	<b>36,70</b>	<b>37,80</b>	<b>40,20</b>	<b>42,30</b>	<b>44,10</b>	<b>47,40</b>
Ø	mm	146	152					
Ø	inches	5.3/4	6					
<b>3078GSA</b>	<b>Each</b>	<b>49,60</b>	<b>51,90</b>					

Prices in EURO - VAT not included



With hard metal teeth, professional use. Alternated teeth, fixed toothing, 3 teeth/inch. To be used on portable or pillar drills. High abrasion resistance and long tooth and shapening life. For drilling carbonium fiberglass, graphite, hard steel, Titanium alloys, cast iron, etc. Useful cutting depth 40mm.

Hole saw only.

Ø	mm	19	21	22	25	27	29	30	32
Ø	inches	3/4	13/16	7/8	1	1.1/16	1.1/8	1.3/16	1.1/4
<b>3078GSE</b>	<b>Each</b>	<b>13,90</b>	<b>14,70</b>	<b>15,50</b>	<b>16,10</b>	<b>17,20</b>	<b>18,10</b>	<b>19,10</b>	<b>20,10</b>
Ø	mm	35	38	40	41	44	51	54	57
Ø	inches	1.3/8	1.1/2	1.9/16	1.5/8	1.3/4	2	2.1/8	2.1/4
<b>3078GSE</b>	<b>Each</b>	<b>22,10</b>	<b>23,40</b>	<b>23,70</b>	<b>24,10</b>	<b>24,50</b>	<b>25,70</b>	<b>26,40</b>	<b>27,10</b>
Ø	mm	60	64	76	79	83	86	89	92
Ø	inches	2.3/8	2.1/2	3	3.1/8	3.1/4	3.3/8	3.1/2	3.5/8
<b>3078GSE</b>	<b>Each</b>	<b>28,20</b>	<b>29,40</b>	<b>35,30</b>	<b>37,20</b>	<b>38,50</b>	<b>40,50</b>	<b>42,50</b>	<b>43,70</b>
Ø	mm	95	102	114	121	127	140	152	
Ø	inches	3.3/4	4	4.1/2	4.3/4	5	5.1/2	6	
<b>3078GSE</b>	<b>Each</b>	<b>45,10</b>	<b>47,70</b>	<b>54,20</b>	<b>56,10</b>	<b>58,80</b>	<b>65,30</b>	<b>71,90</b>	

**SCU**

**3078GSE**



HARTMETALL



With teeth coated with hard metal grains, professional use. To be used on portable and pillar drills. For aggressive but uniform, quick and light cutting. Long tooth and sharpening life. For drilling all kinds of abrasive and hard materials such as fiberglass, carbonium, kevlar, graphite, concrete, marble, granite, ceramic, cast iron, etc. Useful cutting depth 40mm.

Hole saw only.

Ø	mm	16	19	20	22	25	29	32	35
Ø	inches	5/8	3/4	25/32	7/8	1	1.1/8	1.1/4	1.3/8
<b>3078GSP</b>	<b>Each</b>	<b>5,74</b>	<b>6,48</b>	<b>6,74</b>	<b>7,18</b>	<b>7,96</b>	<b>8,90</b>	<b>9,56</b>	<b>10,30</b>
Ø	mm	38	44	48	51	54	57	60	64
Ø	inches	1.1/2	1.3/4	1.7/8	2	2.1/8	2.1/4	2.3/8	2.1/2
<b>3078GSP</b>	<b>Each</b>	<b>11,10</b>	<b>12,40</b>	<b>13,10</b>	<b>14,10</b>	<b>14,90</b>	<b>15,70</b>	<b>16,80</b>	<b>17,70</b>
Ø	mm	70	76	83	86	95	102	114	
Ø	inches	2.3/4	3	3.1/4	3.3/8	3.3/4	4	4.1/2	
<b>3078GSP</b>	<b>Each</b>	<b>19,50</b>	<b>21,10</b>	<b>22,90</b>	<b>24,10</b>	<b>26,30</b>	<b>28,10</b>	<b>31,40</b>	

**SCU**

**3078GSP**



HARTMETALL



SHANKS FOR ART. 3078 GS - 3078 GSA - 3078 GSE - 3078 GSP WITH PILOT BIT

Size		1	1A	2
Hexagonal drive	mm	9,5	11	11
For hole saws Ø	mm	14-30	14-30	32-210
UNF thread Ø	inches	1/2	1/2	5/8
<b>3078GT</b>	<b>Each</b>	<b>7,90</b>	<b>7,90</b>	<b>13,50</b>

**SCU**

**3078GT**



SDS-PLUS SHANKS FOR ART. 3078 GS - 3078 GSA - 3078 GSE - 3078 GSP WITH PILOT BIT

Size		1	2
For hole saws Ø	mm	14-30	32-210
UNF thread Ø	inches	1/2	5/8
<b>3078GTE</b>	<b>Each</b>	<b>11,30</b>	<b>21,60</b>

**SCU**



**3078GTE**



SPARE BITS

For shanks Art. 3078GTx1-1A-2 and Art. 3078GTEx1-2. Length 70mm. Diameter 6.35mm.

<b>3078GU</b>	<b>Each</b>	<b>3,20</b>
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**SCU**

**3078GU**



SPARE BITS FOR DRILLS WITH CARBIDE TOOL BIT .

For connections Art. 3078GTx1-1A-2 and Art. 3078GTEx1-2. Length 80mm. Diameter 6.35mm.

<b>3078GUA</b>	<b>Each</b>	<b>41,90</b>
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**SCU**

**3078GUA**



EXTENSIONS

Length 300mm. For shanks Art. 3078 GTx1A-2.

<b>3078GV</b>	<b>Each</b>	<b>11,70</b>
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**SCU**

**3078GV**



## HOLE CUTTER SETS

3078GZ 1  
3078GZ 3  
3078GZ 4  
3078GZ 8  
3078GZ 9

SCU

**Prod. SCU-Orig. MP.S**

Bi-metal type in HSS steel, professional use.

Progressive variable toothing, with special drill between one tooth and the other to optimize chip discharge (chip-breaker). For longer saw life, best safety and shorter cutting times.

To be used on portable or pillar drills. For drilling iron, steel, stainless steel, cast iron, non-ferrous metals, plastic, wood, etc. Particularly suitable for installers, forgers, sheet metal workers, etc.

Useful cutting depth 38mm.

Number of hole saws: 6

Sizes Art. 3078 GS: 22-29-35-44-51-64mm

Shanks Art. 3078 GT: Size 1A – 1pc

Shanks Art. 3078 GT: Size 2- 1pc

In plastic case.

**3078GZ 1** Each **77,10**

Product description as Art. 3078GZ 1

Number of hole saws: 6

Sizes Art. 3078 GS: 16-20-25-32-40-51mm

Shanks Art. 3078 GT: Size 1 – 1pc

Shanks Art. 3078 GT: Size 2 – 1pc

In plastic case.

**3078GZ 3** Each **67,40**

Product description as Art. 3078GZ 1

Number of hole saws: 6

Sizes Art. 3078 GS: 19-22-29-38-44-57mm

Shanks Art. 3078 GT: Size 1A – 1pc

Shanks Art. 3078 GT: Size 2 - 1pc

In plastic case.

**3078GZ 4** Each **71,50**

Product description as Art. 3078GZ 1

Number of hole saws: 12

Sizes Art. 3078 GS: 16-19-22-25-29-32-35-38-45-51-64-76mm

Shanks Art. 3078 GT: Size 1A – 1pc

Shanks Art. 3078 GT: Size 2 – 1pc

Pilot bits Art. 3078 GU: 3pcs

In plastic case.

**3078GZ 8** Each **138,00**

Product description as Art. 3078GZ 1

Number of hole saws: 14

Sizes Art. 3078 GS: 16-19-22-24-29-32-35-45-54-64-76-79-111-114mm

Shanks Art. 3078 GT: Size 1A – 1pc

Shanks Art. 3078 GT: Size 2 – 1pc

Pilot bits Art. 3078 GU: 3pcs

In plastic case.

**3078GZ 9** Each **200,00**

3078GZA SCU



Model with hard metal teeth, professional use. Alternated teeth, fixed toothing, 3 teeth/inch. To be used on portable or pillar drills. High abrasion resistance and long tooth and shapening life.

Suitable for drilling carbonium fiberglass, graphite, hard steel, Titanium alloys, cast iron, etc.

Useful cutting depth 40mm.

Number of hole saws: 11

Sizes Art. 3078 GSE: 19-22-25-30-35-40-51-60-79-86-114mm

Shanks Art. 3078 GT: Size 1A pcs. 1

Shank Art. 3078 GT: Size 2 pcs. 1

Extension Art. 3078 GV: pcs. 1

In plastic case.

**3078GZA** Each **339,90**

With teeth coated with hard metal grains, professional use. To be used on portable and pillar drills. For aggressive but uniform, quick and light cutting. Long tooth and sharpening life. For drilling all kinds of abrasive and hard materials such as fiberglass, carbonium, kevlar, graphite, concrete, marble, granite, ceramic, cast iron, etc. Useful cutting depth 40mm.

Number of hole saws: 6

Sizes Art. 3078 GSP: 16-20-25-32-38-51mm

Shanks Art. 3078 GT: Size 1 pcs. 1

Shanks Art. 3078 GT: Size 1A pcs. 1

Shanks Art. 3078 GT: Size 2 pcs. 1

Extension Art. 3078 GV: pcs. 1

In plastic case.

**3078GZL** Each **106,80**



**HOLE CUTTERS**

**Prod. SCU**

Professional type in HSS steel for use on pillar and portable drills (for rotation only). Cutting blades with side discharge. Suitable for drilling iron, steel, stainless steel, cast iron, aluminium and non-ferrous metals up to thickness 8mm. Hole cutters are provided complete with cylindrical shank with pianetti and pilot bit, interchangeable in HSS Ø 6mm up to Ø 50mm. From Ø 55mm with pilot bit Ø 8mm. Complete hole cutter, with ejection spring (starting from Ø 25mm).

Ø	mm	14	15	16	17	18	19	20
Drive Ø	mm	8	8	8	8	10	10	10
<b>3079SA</b>	<b>Each</b>	<b>15,20</b>	<b>15,60</b>	<b>15,80</b>	<b>16,10</b>	<b>16,20</b>	<b>16,50</b>	<b>16,80</b>
Ø	mm	21	22	23	24	25	26	27
Drive Ø	mm	10	10	10	10	10	10	10
<b>3079SA</b>	<b>Each</b>	<b>17,50</b>	<b>18,30</b>	<b>19,20</b>	<b>20,10</b>	<b>20,80</b>	<b>21,70</b>	<b>22,70</b>
Ø	mm	28	29	30	31	32	33	34
Drive Ø	mm	10	10	10	12	12	12	12
<b>3079SA</b>	<b>Each</b>	<b>23,30</b>	<b>24,00</b>	<b>25,10</b>	<b>25,70</b>	<b>26,70</b>	<b>27,40</b>	<b>28,30</b>
Ø	mm	35	36	37	38	39	40	41
Drive Ø	mm	12	12	12	12	12	12	12
<b>3079SA</b>	<b>Each</b>	<b>29,10</b>	<b>31,10</b>	<b>31,70</b>	<b>32,80</b>	<b>33,70</b>	<b>34,30</b>	<b>35,40</b>
Ø	mm	42	43	44	45	46	48	50
Drive Ø	mm	12	12	12	12	12	12	12
<b>3079SA</b>	<b>Each</b>	<b>36,00</b>	<b>37,10</b>	<b>37,90</b>	<b>38,80</b>	<b>39,70</b>	<b>41,30</b>	<b>43,10</b>
Ø	mm	55	60	65	70	75	80	
Drive Ø	mm	12	12	12	12	12	12	
<b>3079SA</b>	<b>Each</b>	<b>57,70</b>	<b>63,10</b>	<b>78,70</b>	<b>84,70</b>	<b>93,70</b>	<b>99,70</b>	



TIN-coated hole cutters available on request.

**SPARE CONNECTIONS FOR ART. 3079 SA WITH PILOT BIT**

Diameter 8mm (for cutters 14 to 17mm).

**O3079SA 170** Each **6,24**

Diameter 10mm (for cutters 18 to 30mm).

**O3079SA 300** Each **6,34**

Diameter 12mm (for cutters 31 to 50mm).

**O3079SA 500** Each **6,80**

Diameter 12mm (for cutters 55 to 80mm).

**O3079SA 800** Each **8,16**

Diameter 6mm for Art. 3079 SA 14 to 50, Art. O3079 SA 170-300-500 and Art. 3079 T 30.

**O3079SAP 6** Each **2,04**

Diameter 8mm for Art. 3079 SA 55 to 80, Art. O3079 SA 800 and Art. 3079 T 80.

**O3079SAP 8** Each **2,16**

**ACCESSORIES FOR HOLE CUTTERS**

CM 2 conical shank with pilot bit for cutters Art. 3079 SA from 18 to 30.

**3079T 30** Each **22,90**

For spare bits for conical shanks Art. 3079 T 30 see Art. O3079 SAP 6.



**ACCESSORIES FOR HOLE CUTTERS**

CM 2 conical shank with pilot bit for cutters Art. 3079 SA from 31 to 80.

**3079T 80** Each **23,10**

For spare bits for conical shanks Art. 3079 T 80 see Art. O3079 SAP 8.



**HOLE CUTTER SETS**

**3079V**

**SCU**



**HSS**



**Prod. SCU**

Professional type in HSS steel for use on pillar and portable drills (for rotation only). Cutting blades with side discharge. Suitable for drilling iron, steel, stainless steel, cast iron, aluminium and non-ferrous metals up to thickness 8mm. Hole cutters are provided complete with cylindrical shank with pianetti and pilot bit, interchangeable in HSS Ø 6mm up to Ø 50mm. From Ø 55mm with pilot bit Ø 8mm. Complete hole cutter, with ejection spring (starting from Ø 25mm).

Composition:

16 hole cutters Art. 3079 SA 15-16-17-19-21-22-25-26-27-28-30-32-35-38-40-50mm. On wooden display.

**3079V** Each **428,30**

**HOLE CUTTERS**

**3080GA**



**HSS**



**Orig. Marvel**

Industrial type in HSS steel with reinforced body, for use on hand and pillar drills. For drilling thin high-resistance steel, alloy steel, stainless steel, cast iron, etc. Sand finish. Useful cutting depth 8mm (6mm for size from 89 to 100). Only hole saws.

Ø	mm	14	15	16	17	19	21	22	24	25	26	27	28	29	30	32	33
<b>3080GA</b>	Each	11,20	11,20	12,90	12,90	12,90	16,30	16,30	16,30	19,70	19,70	19,70	23,20	23,20	23,20	23,20	29,70
Ø	mm	34	35	36	37	38	40	41	42	43	44	46	48	50	51	52	54
<b>3080GA</b>	Each	29,70	29,70	29,70	41,90	41,90	41,90	41,90	41,90	48,10	48,10	48,10	54,60	54,60	54,60	54,60	54,60
Ø	mm	57	60	64	65	67	70	73	76	79	83	86	89	92	95	98	100
<b>3080GA</b>	Each	64,90	64,90	64,90	64,90	72,10	72,10	118,00	118,00	118,00	118,00	161,00	161,00	161,00	161,00	189,00	189,00

**3080GB**



SHANKS FOR ART. 3080 GA WITH PILOT BIT

Size		2	3	4	5
Hexagonal drive	mm	7,5	9,5	12,5	12,5
For hollow mill 3080GA by	mm	14-19	21-57	60-79	83-100
MF thread Ø	mm	11x1,5	14x1,5	16x1,5	16x1,5
<b>3080GB</b>	Each	10,40	10,40	11,10	11,10

**3080GC**  
**3080GD**



SPARE BITS FOR ART. 3080 GB

Length 60mm. Diameter 6mm for Art. 3080 GB x 2-3-4.

**3080GC** Each **7,80**

SPARE BITS FOR ART. 3080 GB

Length 50mm. Diameter 8mm for Art. 3080 GB x 5.

**3080GD** Each **15,30**

**3080GT**

**SCU**

**INOX**



**IARTMETALL**



**Prod. SCU**

Professional type. Hard metal cutting edges, hot welded to HSS steel body. For rigid and resistant synthetic materials, stainless steel, up to 2mm, alloy steel, cast iron up to 4mm thick.

Useful cutting depth 12mm.

Hole saws are supplied with cylindrical shank and interchangeable HSS pilot bits Ø 6mm up to size Ø 65mm.

From size Ø 66mm with pilot bit Ø 8mm.

Complete hole saw, with ejection spring.

Ø	mm	16	17	18	19	20	21	22	23	24	25	26	27	28	29*	30	32
Drive Ø	mm	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
<b>3080GT</b>	Each	34,10	34,10	34,10	34,10	34,10	34,10	34,10	34,10	34,10	38,10	38,10	38,10	38,10	38,10	38,10	43,90
Ø	mm	33	34	35	37*	38	39*	40	41	42	43	44*	45	48	49*	50	51
Drive Ø	mm	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
<b>3080GT</b>	Each	43,90	43,90	43,90	50,90	50,90	50,90	50,90	59,90	59,90	59,90	59,90	59,90	61,90	61,90	61,90	67,90
Ø	mm	52	55	58*	60	62	64	65	66*	68	70	75	80	85	90	95*	100
Drive Ø	mm	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
<b>3080GT</b>	Each	67,90	67,90	75,90	75,90	82,90	82,90	82,90	95,80	95,80	95,80	104,00	114,00	126,00	126,00	138,00	140,00

\* Sizes running out of stock.

Spare HSS bits for Art. 3080 GT.

Size		2	4
Ø	mm	6	8
Length	mm	52	52
<b>O3080GT</b>	Each	8,48	13,10

The Ø of the connections of the guide tips are approximate and not binding.

**Orig. Marvel**

Industrial type. Hard metal cutting edges, hot welded to HSS steel body. For rigid and resistant synthetic materials, stainless steel, ally steel.

Useful cutting depth 12mm. Only hole saws.

Ø	mm	16	17	19	20	21	22	23
<b>3080GV</b>	<b>Each</b>	<b>41,10</b>	<b>41,10</b>	<b>41,10</b>	<b>41,10</b>	<b>48,20</b>	<b>48,20</b>	<b>48,20</b>
Ø	mm	24	25	27	28	30	32	35
<b>3080GV</b>	<b>Each</b>	<b>48,20</b>	<b>48,20</b>	<b>57,30</b>	<b>57,30</b>	<b>57,30</b>	<b>68,00</b>	<b>68,00</b>
Ø	mm	38	40	41	42	45	48	50
<b>3080GV</b>	<b>Each</b>	<b>80,80</b>	<b>80,80</b>	<b>95,50</b>	<b>95,50</b>	<b>95,50</b>	<b>110,00</b>	<b>110,00</b>
Ø	mm	51	54	55	60	65	70	75
<b>3080GV</b>	<b>Each</b>	<b>125,00</b>	<b>125,00</b>	<b>125,00</b>	<b>157,00</b>	<b>157,00</b>	<b>171,00</b>	<b>187,00</b>
Ø	mm	80	85	90	95	100		
<b>3080GV</b>	<b>Each</b>	<b>199,00</b>	<b>227,00</b>	<b>247,00</b>	<b>256,00</b>	<b>278,00</b>		



**INOX 3080GV**



HARTMETALL



**SHANKS FOR ART. 3080 GV WITH PILOT BIT**

Size		0	1	2	3
Hexagonal drive Ø	mm	7,5	9,5	12,5	12,5
For hollow mill 3080 GV by	mm	16-19	20-55	60-85	90-100
MF thread Ø	mm	11x1,5	14x1,5	16x1,5	16x1,5
<b>3080GVA</b>	<b>Each</b>	<b>10,40</b>	<b>10,40</b>	<b>11,10</b>	<b>11,10</b>



**3080GVA**



**SPARE BITS FOR ART. 3080 GVA**

Diameter 6mm for Art. 3080 GVA x 0-1-2.

<b>3080GVB</b>	<b>Each</b>	<b>7,80</b>
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**3080GVB  
3080GVC**



**SPARE BITS FOR ART. 3080 GVA**

Diameter 8mm for Art. 3080 GVA x 3.

<b>3080GVC</b>	<b>Each</b>	<b>15,30</b>
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**Prod. SCU**

Deep-cut, professional type.

Hard metal cutting edges, hot welded to HSS steel body.

For rigid and resistant synthetic materials, stainless steel, up to 2mm, alloy steel, cast iron up to 4mm thick.

For saws Ø 16 to 58mm: working cutting depth 35mm.

For saws from Ø 60mm to 100mm: working cutting depth 60mm.

The hole saws are supplied complete with cylindrical shank with interchangeable HSS pilot bit Ø 6mm up to size Ø 51mm.

From size Ø 60mm, with pilot bit Ø 8mm.

Complete hole saw, with ejection spring.

**SCU**

**INOX 3080GZ**



HARTMETALL



Ø	mm	16*	17*	20	21*	22	25	30	31*	32	35	36*	37*	39*	40	43*	44*
Drive Ø	mm	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
<b>3080GZ</b>	<b>Each</b>	<b>53,90</b>	<b>53,90</b>	<b>53,90</b>	<b>53,90</b>	<b>53,90</b>	<b>53,90</b>	<b>67,90</b>	<b>73,90</b>	<b>73,90</b>	<b>73,90</b>	<b>87,90</b>	<b>87,90</b>	<b>87,90</b>	<b>87,90</b>	<b>91,80</b>	<b>91,80</b>
Ø	mm	45	49*	50	51*	60	64	65	66*	68	70	75	80	85	90	95*	100
Drive Ø	mm	10	10	10	13	13	13	13	13	13	13	13	13	13	13	13	13
<b>3080GZ</b>	<b>Each</b>	<b>91,80</b>	<b>104,00</b>	<b>104,00</b>	<b>112,00</b>	<b>118,00</b>	<b>126,00</b>	<b>126,00</b>	<b>152,00</b>	<b>152,00</b>	<b>152,00</b>	<b>168,00</b>	<b>178,00</b>	<b>192,00</b>	<b>204,00</b>	<b>226,00</b>	<b>234,00</b>

\* Sizes running out of stock.

**Spare HSS bits for Art. 3080 GT.**

Ø	mm	6	8
Length	mm	77	104
<b>O3080GZ</b>	<b>Each</b>	<b>8,48</b>	<b>13,10</b>

The Ø of the connections of the guide tips are approximate and not binding.

**PUNCHING TOOLS**

**Prod. SCU**

In forged steel. Polished, ground, hardened cutting edge.

For punching cardboard, leather, plastic seals.

**SCU**

**3081**



For gaskets Ø	mm	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>3081</b>	<b>Each</b>	<b>7,68</b>	<b>7,68</b>	<b>7,68</b>	<b>7,86</b>	<b>7,86</b>	<b>8,04</b>	<b>8,04</b>	<b>8,14</b>	<b>8,14</b>	<b>8,66</b>	<b>8,66</b>	<b>9,52</b>	<b>9,52</b>	<b>11,10</b>	<b>11,10</b>
For gaskets Ø	mm	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
<b>3081</b>	<b>Each</b>	<b>12,30</b>	<b>12,30</b>	<b>13,30</b>	<b>13,30</b>	<b>14,10</b>	<b>14,10</b>	<b>15,60</b>	<b>15,60</b>	<b>18,40</b>	<b>18,40</b>	<b>21,70</b>	<b>21,70</b>	<b>26,40</b>	<b>26,40</b>	<b>29,30</b>
For gaskets Ø	mm	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
<b>3081</b>	<b>Each</b>	<b>29,30</b>	<b>30,50</b>	<b>30,50</b>	<b>31,60</b>	<b>31,60</b>	<b>33,50</b>	<b>33,50</b>	<b>35,10</b>	<b>35,10</b>	<b>36,50</b>	<b>36,50</b>	<b>38,80</b>	<b>38,80</b>	<b>42,50</b>	<b>42,50</b>
For gaskets Ø	mm	47	48	49	50	52	54	56	58	60	65	70	75	80	90	100
<b>3081</b>	<b>Each</b>	<b>46,30</b>	<b>46,30</b>	<b>52,10</b>	<b>52,10</b>	<b>58,50</b>	<b>69,40</b>	<b>83,70</b>	<b>95,60</b>	<b>104,00</b>	<b>152,00</b>	<b>204,00</b>	<b>327,00</b>	<b>410,00</b>	<b>622,00</b>	<b>769,00</b>

**PUNCHING TOOLS SETS**
**3081S****SCU****Prod. SCU**

In forged steel. Polished, ground, hardened cutting edge. For punching cardboard, leather, plastic seals.

The set contains:

19 bow-shaped hollow punches 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20mm.

In wrapping bag.

<b>3081S</b>	Each	<b>204,00</b>
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Sets containing 12 and 15 pcs available on request.

**3087GB***new***SCU**

Punches made from hardened steel, hardness HRC 56 to 58. Innovative patented grips, with an ergonomic handle, which allow for the hand to be away from the hammering area, reduce stress, absorb more vibration, transmit greater strength to the cutters and the new sealing spindle of the punching device ensures strong locking.

The punches from 3 mm to 10 mm have a threaded connection to be screwed to the handle; from 12 mm onwards they are locked by bayonet. Possibility of including sealing rings in one go using two or more punches simultaneously. Suitable for cutting dyed leather, rubber, reinforced rubber, cardboard, plastics, flexible plastic material and lead.

Set of 15 punches mm 3-4-6-8-10-12-14-16-18-20-22-24-26-28-30.

Set with handle, in box.

<b>3087GB</b>	Each	<b>191,00</b>
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**3087GD***new***SCU**

Product description as Art. 3087GB

Set of 29 punches mm 2-3-4-5-6-7-8-9-10-12-14-16-18-20-22-24-26-28-30-32-34-36-38-40-42-44-46-48-50.

Set with 1 handle, 1 adaptor and 1 centring tip, in box.

<b>3087GD</b>	Each	<b>355,00</b>
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**3087GL***new***SCU**

Replacement punch handles.

Size	30	50	
For sortiment Art.	3087 GB	3087 GD	
<b>3087GL</b>	Each	<b>82,20</b>	<b>83,10</b>

For spare punches see Art. 3089 GF.

Adaptor and spare pilot drill bit, only for series Art. 3087 GD, available on request.

**3089G****SCU**

Punches made from hardened steel, hardness HRC 56 to 58. Sturdy handles made from special carbon steel, and chrome plated. Punches measuring 3 mm to 10 mm have to be screwed into the threaded handle; 12 mm and above can be locked in with a bayonet mount. Possibility of including sealing rings in one go using two or more punches simultaneously (except for Art.) 3089 G). Suitable for cutting dyed leather, rubber, reinforced rubber, cardboard, plastics, flexible plastic material and lead.

Set of 9 punches size 2-3-4-5-6-7-8-9-10mm

Set complete with handle, in tray.

<b>3089G</b>	Each	<b>84,80</b>
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Product description as Art. 3089G

Set of 10 punches size 3-4-6-8-10-12-14-16-18-20mm

Set complete with handle, in box.

**3089GA** Each **90,10**

**SCU**

**3089GA**



Product description as Art. 3089G

Set of 15 punches size 3-4-6-8-10-12-14-16-18-20-22-24-26-28-30mm

Set complete with handle, in box.

**3089GB** Each **135,00**

Product running out of stock.

**SCU**

**3089GB**



Product description as Art. 3089G

Set of 20 punches size 3-4-6-8-10-12-14-16-18-20-22-24-26-28-30-32-34-36-38-40mm

Set complete with 1 handle and 1 adapter, in box.

**3089GC** Each **219,00**

Product running out of stock.

**SCU**

**3089GC**



Product description as Art. 3089G

Set of 29 punches size 2-3-4-5-6-7-8-9-10-12-14-16-18-20-22-24-26-28-30-32-34-36-38-40-42-44-46-48-50mm

Set complete with 1 handle and 1 adapter, in box.

**3089GD** Each **287,00**

Product running out of stock.

**SCU**

**3089GD**



**9**

**3089GE**



Product description as Art. 3089G

Set of 34 punches size 2-3-4-5-6-7-8-9-10-12-14-16-18-20-22-24-26-28-30-32-34-36-38-40-42-44-46-48-50-52-54-56-58-60mm

Set complete with 1 handle, 1 adapter and 1 centring bit, in box.

**3089GE** Each **523,00**

Product running out of stock.

**3089GF**



Replacement punches as per Art. 3087 GB-GD e Art. 3089 G-GA-GB-GC-GD-GE.

For gaskets Ø	mm	2	3	4	5	6	7	8
<b>3089GF</b>	Each	8,50	8,50	8,50	8,50	8,50	8,50	8,50
For gaskets Ø	mm	9	10	12	14	16	18	20
<b>3089GF</b>	Each	8,50	8,50	9,78	9,78	9,78	9,78	9,78
For gaskets Ø	mm	22	24	26	28	30	32	34
<b>3089GF</b>	Each	12,70	12,70	12,70	12,70	12,70	16,20	16,20
For gaskets Ø	mm	36	38	40	42	44	46	48
<b>3089GF</b>	Each	16,20	16,20	16,20	19,70	19,70	19,70	19,70
For gaskets Ø	mm	50	52	54	56	58	60	
<b>3089GF</b>	Each	19,70	41,40	41,40	41,40	41,40	41,40	

Misure mm 52 - 54 - 56 - 58 e 60 in esaurimento.

**3089GL**



Replacement punch handles.

Size	10	20	30	60
For sortiments Art.	3089G	3089GA	3089GB	3089GC-D-E
<b>3089GL</b>	Each	21,80	34,30	47,90
			41,30	

Sizes 30 and 60 running out of stock.

**3089GM**



Replacement punch adapters.

Size	50	60
For sortiments Art.	3089GC-D	3089GE
<b>3089GM</b>	Each	53,10
		78,10

Product running out of stock.

**3090GA**



Industrial type. Special steel hollow punches. Polished, ground, hardened cutting edge. Sturdy handle suitable for all diameters. Hollow punches ranging from 3 to 10mm with thread shank for being screwed into handle; from 12mm hollow punches are pressure connected. Possibility to obtain ring seals in one operation by inserting two or more hollow punches. Suitable for punching leather, rubber, reinforced rubber, cardboard, flexible plastic materials, synthetic and composite materials. In sturdy case.

Set of 10 hollow punches 3-4-6-8-10-12-14-16-18-20mm

In box, with handgrip.

**3090GA** Each **113,00**



Product description as Art. 3090GA

Set of 15 hollow punches 3-4-6-8-10-12-14-16-18-20-22-24-26-28-30mm  
In box, with handgrip.

**3090GB** Each **162,00**

**SCU**

**3090GB**



Product description as Art. 3090GA

Set of 20 hollow punches 3-4-6-8-10-12-14-16-18-20-22-24-26-28-30-32-34-36-38-40mm  
In box, with handgrip.

**3090GC** Each **252,00**

**SCU**

**3090GC**



Product description as Art. 3090GA

Set of 25 hollow punches 3-4-6-8-10-12-14-16-18-20-22-24-26-28-30-32-34-36-38-40-42-44-46-48-50mm  
In box, with handgrip.

**3090GD** Each **342,00**

**SCU**

**3090GD**



Product description as Art. 3090GA

Set of 30 hollow punches 3-4-6-8-10-12-14-16-18-20-22-24-26-28-30-32-34-36-38-40-42-44-46-48-50-52-54-56-58-60mm  
In box, with 2 handgrips and disk cutter up to Ø 500mm.

**3090GE** Each **587,00**

**SCU**

**3090GE**



Spare hollow punches for Art. 3090 GA-GB-GC-GD-GE.

For gaskets Ø	mm	3	4	6	8	10	12	14
<b>3090GF</b>	Each	6,96	6,96	6,96	6,96	6,96	9,86	9,86
For gaskets Ø	mm	16	18	20	22	24	26	28
<b>3090GF</b>	Each	9,86	9,86	9,86	12,60	12,60	12,60	12,60
For gaskets Ø	mm	30	32	34	36	38	40	42
<b>3090GF</b>	Each	12,60	16,90	16,90	16,90	16,90	16,90	18,30
For gaskets Ø	mm	44	46	48	50	52	54	56
<b>3090GF</b>	Each	18,30	18,30	18,30	18,30	35,60	35,60	35,60
For gaskets Ø	mm	58	60					
<b>3090GF</b>	Each	35,60	35,60					

**SCU**

**3090GF**




Spare handle for hollow punches Art. 3090 GA-GB-GC-GD-GE.

Size		20	30	40	50	60
For dinking dies Ø	mm	3-20	3-30	3-40	3-50	3-60
<b>3090GR</b>	Each	31,90	47,80	54,70	78,20	89,30

**SCU**

**3090GR**





# Servizi Web Sicutool

## Assistenza e supporto sempre al vostro fianco

### INVIARE RICHIESTE DI ASSISTENZA E DI INVIO DI RESI PER RIPARAZIONE

- [www.sicutool.it/moduli](http://www.sicutool.it/moduli)

La sezione propone tutti i moduli per richiedere l'assistenza tecnica e l'autorizzazione all'invio di resi per riparazione.

### CONSULTARE INFORMAZIONI TECNICHE AGGIUNTIVE

- [www.sicutool.it/catalogo-web](http://www.sicutool.it/catalogo-web)

Le schede prodotto del catalogo web propongono informazioni tecniche aggiuntive (istruzioni, FAQ, approfondimenti, ecc.), video, news, indicazioni di ricambi e accessori, nonché strumenti utili per condividere i link con i vostri colleghi.

### SALVARE I LISTINI SICUTOOL

- [www.sicutool.it/listini](http://www.sicutool.it/listini)

Il listino Sicutool Utensili 2015 è disponibile in formato Excel e TXT, pronto per essere caricato nel vostro sistema gestionale e nell'e-commerce.  
La stessa sezione propone anche i listini dei ricambi.

# WELDING TOOLS TOOLS FOR COMPRESSED AIR-GAS TREATMENT PERSONAL PROTECTION TOOLS

**All items are in sequence. It's very easy to find them!**

<p>Products for tracing Solvents Aerosol products Cutting fluids Cleansing products Products for cleaning hands</p>		<p>From <b>3095</b> To <b>3103</b></p>
<p>Gas welding tools and accessories</p>		<p>From <b>3140GA</b> To <b>3250CE</b></p>
<p>Expanding polystyrene tools Hot air tools</p>		<p>From <b>3250F</b> To <b>3252 9</b></p>
<p>Glue guns Gas and electric soldering tools Arc welding machines Electrodes Arc welding accessories Welding materials</p>		<p>From <b>3252 30</b> To <b>3380GB</b></p>
<p>Personal protection tools</p>		<p>From <b>3381</b> To <b>3403MV</b></p>
<p>Pouring tools Greasing systems Adhesives and bonding agents</p>		<p>From <b>3403P</b> To <b>3429 18</b></p>
<p>Tools for sand-blasting, painting and washing Inflator tools Guns for silicon and sealing Silicon cartridges Sealing cartridges</p>		<p>From <b>3429A</b> To <b>3461GB</b></p>
<p>Tools, accessories and components for air compressed</p>		<p>From <b>3461GL</b> To <b>3473GV 2</b></p>
<p>Cable ties Cutters for cable ties Joints Couplings Clutches Valves</p>		<p>From <b>3473H</b> To <b>3485GC</b></p>

**DRESSING PASTE BLUE**
**3095** **SCU**  
*new*

**Prod. SCU**

Model for monitoring surface areas and for tracking all types of metals. High visibility in 20 ml plastic bags.

PRUSSIAN BLUE colour.

**3095** Each **5,92**
**3096** **MIB**  
 MESSZUGE  
 GERMANY

**Orig. MIB - Art. 06064090**

Model for monitoring surface areas and for tracking all types of metals. High visibility in 250 ml plastic bags.

BLUE colour.

**3096** Each **27,30**
**HIGH EFFICIENT CLEANERS**
**3097** **MIB**  
 MESSZUGE  
 GERMANY

**Orig. MIB - Art. 06064092**

Model for eliminating liquid paste, paint, etc. from any metal surface.

In 1 litre bottles.

**3097** Each **21,60**
**SPOT MARKERS**
**3098** **SCU**

**Prod. SCU**

Model containing fluorescent paint with highly concentrated pigments for maximum visual impact and which causes slow deterioration to UV rays. Suitable for marking and tracking almost any surface area such as flooring, asphalt, steel, wood, walls, etc.

Resistant to abrasion and weathering.

In 500 ml cans fitted with a safety cap.

Type	1	2	3	4	5
Colour	white	fluo yellow	fluo blue	fluo green	fluo red
<b>3098</b> Each	<b>10,50</b>	<b>10,50</b>	<b>10,50</b>	<b>10,50</b>	<b>10,50</b>

**PROFESSIONAL SPRAYS**
**3100** **SCU**

**Prod. SCU**

Multi-purpose professional sprayers in 400 ml. spray cans (Packing unit: approx. 12 spray cans).

"AIR SPRAY"

Clean gas to eliminate dust from keyboards, printers, internal and external workings, cameras and machines of precision. Ideal for the maintenance of electronic cards, integrated circuits, transistor. Particularly suitable to find breaks in the circuit welding. Rapid coolant.

**3100** Each **8,38**
**3100A** **SCU**


Product description as Art. 3100

PROTEGGI MANI

Hand cream, suitable for protecting hands when working with dangerous and irritating agents and with all those substances which may give cause to irritation, allergy and dermatitis. Suitable also before wearing gloves so as to avoid problems created by perspiration. Industrial and workshop use.

**3100A** Each **9,36**
**3100B** **SCU**


Product description as Art. 3100

SVITA 5

Multipurpose spray which helps to unscrew and loosen oxidized parts, adding at the same time a degreasing, lubricating, waterproofing and protective long lasting action. It is used in mechanic, textile industry, steelworks, workshops and maintenance departments.

**3100B** Each **8,22**

Product description as Art. 3100

**ELETTRICO**

Cleanser for electric and electronic equipments, suitable for the removal and quick degreasing – without residues – of grease, dirt, dust and moisture. Carbon, tetrachloride and CFC free. Suitable for cleaning switches, generators, alternators, rotors, electric motors, transformers, dynamos, windings, collectors etc.

**3100C** Each **8,22**



**3100C**

Product description as Art. 3100

**SILICONE SPRAY**

Silicone-based release agent suitable for plastic material molds and as polishing agent for leather and mock leather surfaces and plastic objects.

**3100E** Each **7,96**



**3100E**

Product description as Art. 3100

**WAL NO SIL**

Silicone-free anti-adhesive release agent for insulating and protecting surfaces making them become anti-adhesive and at the same time suitable for further paintings, chromium-platings and silk-screen printings. It is also used in plastic industry as release agent for molds and by welders.

**3100F** Each **9,44**



**3100F**

Product description as Art. 3100

**RILEVATORE GAS**

Gas leak detector. It quickly detects leaks of the following gases: nitrogen, oxygen, compressed air, carbon dioxide, argon, freon, methane, town gas etc. It may be used in any section of the system in case of uncommon smells or anomalies.

**3100H** Each **7,80**



**3100H**

Product description as Art. 3100

**ANTISLIDING FLUID FOR TRANSMISSION BELTS**

Special antisliding fluid for transmission belts increasing cohesion between belts and pulleys without vitrifying. It increases the pulling capacity. By impregnating the belt, it is possible to eliminate any unfamiliar noise or squeak and create a silent working condition. It can be used on any type of belt.

**3100K** Each **9,04**



**3100K**

Product description as Art. 3100

**CATENE**

Chain lubricant suitable for any kind of chain, for bearings and for any part difficult to lubricate because of expulsion of normal lubricant due to high speed and to a temperature up to 150 °C.

**3100L** Each **9,04**



**3100L**

**10**

Product description as Art. 3100

**FLUIDO DA TAGLIO**

Universal type with high cooling power suitable for threading, tapping, drilling, milling etc. Chlorine-free.

**3100M** Each **9,04**



**3100M**

**3100ME SCU**

Product description as Art. 3100  
WAL DRY

High quality, P.T.F.E.-based dry lubricant, ideal for dry lubrication of moulds, precision tools, sliding parts, hinges, drawers, locks, machine tool components and to make surfaces non-stick and slippery without oiling them and without retaining dust and dirt. Indicated for all applications requiring clean, dry, odour-free lubrication that does not stain and is long-lasting.

**3100ME** Each **11,50**

**3100P SCU**

Product description as Art. 3100

WAL MOS 2

Molybdenum disulphide antifriction lubricant suitable for preventing seizure between contact surfaces subject to very high temperature and pressure. It is a valid alternative to graphite and is silicone-free. Used in mechanic and engineering industry, mechanic and ship carpentry to avoid the sticking of metal particles to the torch tip of the seam welders.

**3100P** Each **10,20**

**3100R SCU**

Product description as Art. 3100

WAL KUP

Copper-based antiseizure lubricant for very high temperatures, up to 1200 °C. High working pressure-resistant and soft/salt water-proof. Suitable for pilot punches, extrusion headers, valves, expansion joints, heavy drive fits, moulds, screw threads, piston pins, shafts, pulleys, keys, guides subject to high temperature, sockets, studs, cables and tension rods, flange bolts etc.

**3100R** Each **11,50**

**3100S SCU**

Product description as Art. 3100

PROTETTIVO SPRAY

Half-oily protective spray for metals. Suitable for the protection of metals and quality objects from moisture and oxidation. Suitable also for preventing corrosion due to fingerprints and polishing finished surfaces. Used for moulds, gears, precision tools and measuring instruments, weapons and fine handmade products.

**3100S** Each **8,38**

**3100T SCU**

Product description as Art. 3100

ZINCO

Light colour protective galvanizing agent suitable for protecting all ferrous surfaces from corrosion, restoring galvanization and coating zinc-plated parts damaged by welding operations. Used in metallic roofing and roof maintenance, gutters, window and door frames, structures, containers, food plants, equipments, welding operations etc.

**3100T** Each **10,20**

**10 3100V SCU**

Product description as Art. 3100

WAL BLU

Tracer for plant engineering suitable for high precision tracing. Quick drying and high contrast, suitable for metal and concrete surfaces etc. Precise and clear tracing lines. Used by tooling engineers, die sinkers, machine operators, designers and mechanics. It is useful to provide tracing markers for assembly of seals on shafts during pump maintenance. Essential in hydraulic and electrical works. Will stand up to temperatures of around 120-150°.

**3100V** Each **10,90**

**3100Z SCU**

Product description as Art. 3100

WAL LEVA COLLA

Degreaser and solvent for silicone-based resins, stickers, oils and greases. Suitable for any surface, it does not damage metals, plastics, rubbers. Agreeable citrus fruits fragrance.

**3100Z** Each **10,10**

Product description as Art. 3100

**RELEASE AND WATER-PROOF AGENT**

Release agent for plastic material moulds.

Silicone-based water-proof agent for fabric, leather, etc. Particularly suitable for truck cloths, car tops and any other fabric to be protected against water and liquids. It has an active polishing action on the above-mentioned treated surfaces.

**SCU**



**3101**

**3101** Each **8,04**

Product description as Art. 3100

**ACCIAIO SPRAY**

Stainless steel protective coating spray. Suitable for coating ferrous metals with a stainless steel protection, restoring stainless steel coatings damaged by welding operations, finishing damaged stainless steel surfaces and protecting from oxidation all those ferrous materials exposed to high temperature. With weatherproofing action. Used in industrial production on all those metal surfaces and mechanical parts which are weather-beaten and undergo very high temperatures (tolerant of temperatures near 500-600 °C). Suitable for coating parts blackened by welding, protecting engine blocks, manifolds, exhausts, and mufflers and also tire rims and weather-beaten surfaces.

**SCU**



**3101A**

**3101A** Each **13,10**

Product description as Art. 3100

**LUCIDA INOX**

Polishing and revitalizing agent for all stainless steel surfaces.

**SCU**



**3101B**

**3101B** Each **9,60**

Product description as Art. 3100

**NON-STICK AGENT FOR SILICONE-FREE WELDING**

Suitable to protect welding nozzles and pieces located near the welding area. Silicone-free based formula, its components are suitable to protect treated surfaces and allow after drying, painting and post-finishing.

**SCU**



**3101C**

**3101C** Each **7,36**

Product running out of stock.

**CUTTING FLUIDS**

**Prod. SCU**

In 500 ml bottles.

"WALL TOOL"

Main model, with high level of EP additives for high level of cooling power, suitable for manual threading, tapping, drilling, milling, reaming, boring, etc. of both ferrous and non-ferrous metals, hardened steel and stainless steel.

Its use provides you with the following advantages to carry out heavy operations, maximum adhesion for the tool and the work piece, no odours, high performance modern coated tools, excellent visibility of the part being processed, very easy to use, and simple dosing process.

**SCU**



**3101E**

**3101E** Each **20,60**

**10**

**CLEANSING PRODUCTS**
**3101F** **SCU**

**Prod. SCU**

Professional use, in 5 kg. pack. (Packing unit: approx. 4 pcs).

**UNIVERSAL**

Universal liquid cleanser, neutral pH, may be used both watery and pure, It is foam-free and requires short and quick rinse. Suitable for the cleansing of both whole and emulsible oils. Used for hard surfaces in general, plastic and painted parts, synthetic surfaces, machine tools, weaving machines, printing machines, car interiors, porcelain, marble, aluminium, imitation leather, linoleum, industrial floors, cook tops and cooker hoods.

**3101F** Each **31,20**
**3101L** **SCU**


Product description as Art. 3101F

**BI-WAL**

Biphasic cleanser for a quick and strong removal of stubborn dirt and smog from surfaces. It does not corrode metals and almost all the plastic parts used in the automotive field. Suitable for industrial vehicles, earth-movers, tarpaulins, engine compartments, parts soaked with grease, workshop floors, hard plastic surfaces even rough.

**3101L** Each **53,40**
**PRODUCTS FOR HANDS**
**3101P** **SCU**

**Prod. SCU**

Professional use, in 5 kg. pack.

(Packing unit: approx. 4 pcs)

**WAL CREAM**

Abrasive hand-washing cream for accurate and quick cleaning of hands and forearms from grease, oil and from other kinds of dirt resistant to common soaps. It leaves soft hands and is suitable also for daily use.

**3101P** Each **43,30**
**3101R** **SCU**


Product description as Art. 3101P

**WAL HAND CONCENTRATO**

Concentrated super-active hand-washing fluid to be used in working places where dirt is particularly stubborn. Skin-friendly, produced in accordance with cosmetic products rules. Suitable for engineering workshops, car body shops, industries etc..

**3101R** Each **40,30**
**3101S** **SCU**


Product description as Art. 3101P

**WAL LAVAMANI**

Abrasive water-soluble hand-washing fluid, solvent-free, easy to remove. It does not leave residues in water mains since it is totally water-soluble. Used by operators working with heavy dirt such as grease and oily machinery.

**3101S** Each **51,30**
**CLEANER TOWELS**
**3103** **SCU**

**Prod. SCU**

Professional use. Packing unit consisting in 2 buckets of 140 towels each, not sold separately.

**HAND TOWELS**

Wet wipes with abrasive side dipped in a very effective cleaning solution that removes stubborn dirt from hands and surfaces. It removes various kinds of contaminants such as oil, grease, tar, glues, fresh paints, inks, traces of grass and resin, carbon residuals, lamp-black, nicotins, traces of petrol and diesel oil.

**3103** Per pack **125,00**



**ACETYLENE PRESSURE REGULATORS**

**Orig. Ewo - Art. 120.351**

Type with excellent quality/price ratio.  
 Forged body with upper part made from solid brass and lower part made from die-cast zinc.  
 Precision pressure gauges. Pressure adjusting knob made from synthetic material. Additional gas flow adjustment device.  
 Stout gas-cylinder connection valve, connection diameter 17mm.  
 Threaded hose connection G 3/8 left-hand.  
 Hose connection diameter 9mm.  
 Pressure range inlet from 0 to 40 Atm.  
 Pressure range outlet from 0 to 2.5 Atm.  
 Max working pressure 1.5 Atm.

**3140GA** Each **99,30**

For direct connection valves see Art. 3246 GF.

**ewo**

**3140GA**



**ACETYLENE**

**Orig. Ewo**

**SPARE MANOMETERS**

Pressure range from 0 to 40 Atm.

**3140GAB** Each **19,70**

**ewo**

**3140GAB**



Product description as Art. 3140GAB

Pressure range from 0 to 2.5 Atm.

**3140GAC** Each **16,80**

**ewo**

**3140GAC**



**OXYGEN PRESSURE REGULATORS**

**Orig. Ewo - Art. 120.350**

Very high quality/price ratio.  
 Forged body made from solid brass. Precision pressure gauges. Pressure adjusting knob made from synthetic material. Additional gas flow adjustment device.  
 Internally threaded right-hand connection, 21.7x14mm threads per inch.  
 Threaded hose connection G 1/4.  
 Hose connection diameter 6mm.  
 Pressure range inlet from 0 to 300/315 Atm.  
 Pressure range outlet from 0 to 15/16 Atm.  
 Max working pressure 10 Atm.

**3140GE** Each **99,30**

For direct connection valves see Art. 3246 GF.

**ewo**

**3140GE**



**OXYGEN**

**Orig. Ewo**

**SPARE MANOMETERS**

Pressure range from 0 to 300/315 Atm.

**3140GEB** Each **16,80**

**ewo**

**3140GEB**



Product description as Art. 3140GEB

Pressure range from 0 to 15/16 Atm.

**3140GEC** Each **16,80**

**ewo**

**3140GEC**



## PROPAN PRESSURE REGULATORS

3140GF

ewo



LIQUEFACTED GAS

**Orig. Ewo - Art. 120.352**

Type with excellent quality/price ratio.  
Forged body with upper part made from solid brass and lower part made from die-cast zinc.  
Precision pressure gauges. Pressure adjusting knob made from synthetic material. Additional gas flow adjustment device.

Internally threaded left-hand connection, 20x14mm threads per inch.

Threaded hose connection G 3/8 left-hand.

Hose connection diameter 6mm.

Suitable for liquid gases such as propane and butane.

Pressure range outlet from 0 to 6 Atm.

Max working pressure 3.5 Atm.

3140GF	Each	99,30
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3140GFA

ewo

**Orig. Ewo**

SPARE MANOMETERS

Pressure range from 0 to 6 Atm.

3140GFA	Each	16,80
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## ARGON - CARBON DIOXIDE REDUCERS

3140GL

ewo



ARGON - CARBON DIOXIDE

**Orig. Ewo - Art. 120.470**

Very high quality/price ratio.

Forged body made from solid brass. Precision pressure gauges. Pressure adjusting knob made from synthetic material. Additional gas flow adjustment device.

Internally threaded right-hand connection, 21.8x14mm threads per inch.

Threaded hose connection G 1/4.

Hose connection diameter 6mm.

Pressure range inlet from 0 to 300/315 Atm.

Pressure range outlet from 0 to 32 l/min.

Cylinder max. inlet pressure: 200 Atm.

3140GL	Each	92,60
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SPARE MANOMETERS

Manometers for flow measurement.

O3140GL	Each	16,80
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Manometers for pressures from 0 to 300/315 Atm see Art. 3140 GEB.

## ARGON - CARBON DIOXIDE REDUCERS WITH FLOW METER

3140GM

ewo



ARGON - CARBON DIOXIDE

**Orig. Ewo - Art. 120.472**

Type with excellent quality/price ratio.

Forged body with upper part made from solid brass and lower part made from die-cast zinc.

Internally threaded right-hand connection, 21.8x14mm threads per inch.

Hose connection diameter 6mm.

Pressure range inlet from 0 to 300/315 Atm and graduated adjustable flowmeter 0-20 l/min. for gas flow regulation

3140GM	Each	172,00
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For spare manometers see Art. 3140 GEB.

Spare flowmeters available on request.

## STAR REDUCERS FOR ARGON AND CARBON DIOXIDE

3140GME

ewo



ARGON - CARBON DIOXIDE

**Orig. Ewo - Art. 123.470**

Reduced dimension model for installing in tight spaces.

Body moulded in solid brass. Precision pressure gauges. Plastic pressure control button and additional gas flow adjustment.

Internal threading, right 21.8 mm x 14 threads per inch.

Threaded G 1/4 inch rubber door.

Pressure gauge input scale from 0 to 300/315 Atm.

Pressure gauge output scale from 0 to 32 l/min.

Maximum input pressure from the bottle 200 Atm.

3140GME	Each	90,10
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Spare pressure gauges on request.

**HYDROGEN PRESSURE REGULATORS**

**Orig. Ewo - Art. 120.357**

Type with excellent quality/price ratio.  
 Forged body with upper part made from solid brass and lower part made from die-cast zinc.  
 Precision pressure gauges. Pressure adjusting knob made from synthetic material. Additional gas flow adjustment device.  
 Internally threaded left-hand connection, 20x14mm threads per inch.  
 Hose connection diameter 6mm.  
 Pressure range inlet from 0 to 300/315 Atm.  
 Pressure range outlet from 0 to 15/16 Atm.  
 Max working pressure 10 Atm.

**3140GP** Each **99,30**

For spare manometers see Art. 3140 GEB and 3140 GEC.



**NITROGEN PRESSURE REGULATORS**

**Orig. Ewo - Art. 120.354**

Very high quality/price ratio.  
 Forged body made from solid brass. Precision pressure gauges. Pressure adjusting knob made from synthetic material. Additional gas flow adjustment device.  
 Externally threaded right-hand connection, 21.8x14mm threads per inch.  
 Hose connection diameter 6mm.  
 Pressure range inlet from 0 to 300/315 Atm.  
 Pressure range outlet from 0 to 15/16 Atm.  
 Max working pressure 10 Atm.

**3140GR** Each **99,30**

For spare manometers see Art. 3140 GEB und 3140 GEC.



**CARBON DIOXIDE PRESSURE REGULATORS**

**Orig. Ewo - Art. 120.356**

Type with excellent quality/price ratio.  
 Forged body with upper part made from solid brass and lower part made from die-cast zinc.  
 Precision pressure gauges. Pressure adjusting knob made from synthetic material. Additional gas flow adjustment device.  
 Internally threaded right-hand connection, 21.8x14mm threads per inch.  
 Hose connection diameter 6mm.  
 Pressure range inlet from 0 to 300/315 Atm.  
 Pressure range outlet from 0 to 15/16 Atm.  
 Max working pressure 10 Atm.

**3140GT** Each **99,30**

For spare manometers see Ar+L145t. 3140 GEB and 3140 GEC.



**COMPRESSED AIR PRESSURE REGULATORS**

**Orig. Ewo - Art. 120.353**

Type with excellent quality/price ratio.  
 Forged body with upper part made from solid brass and lower part made from die-cast zinc.  
 Precision pressure gauges. Pressure adjusting knob made from synthetic material. Additional air flow adjustment device.  
 Internally threaded right-hand 7/8" GAS connection.  
 Hose connection diameter 6mm.  
 Pressure range inlet from 0 to 300/315 Atm.  
 Pressure range outlet from 0 to 15/16 Atm.  
 Max working pressure 10 Atm.

**3140GZ** Each **99,30**

For spare manometers see Art. 3140 GEB and 3140 GEC.



**LIQUID GAS PRESSURE REGULATORS**

**Prod. SCU**

Forged body with brass parts and manometer.  
 Regulation from 0 to 6 atm. Internal threaded left connection to the cylinder mm 20x14 threads per inch. Hose connection with a diameter of 8/10mm.

**3156** Each **41,50**



Prices in EURO - VAT not included

10

**RUBBER SAFETY CAPS FOR MANOMETERS**

3170G


**Orig. Ewo**

Suitable for regulator manometers with external diameter 63 mm from Art. 3150 G to Art. 3140 GZ.

May be fitted on installed manometers and protect them from shocks and falls.

3170G	Each	2,34
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**ACETYLENE AND OXYGEN WELDING AND CUTTING TOOLS**

3179G


**Orig. Ewo - Art. 124.12****SOLDERING AND CUTTING TOOLS**

17 mm. connection.

For thick and medium welding, with acetylene or oxygen.

The set contains:

1 universal handle with connection Ø 17mm Art. 3200 GA.

8 lances for welding from 0.5 to 25 mm. Art. 3200 GBx1 to 8.

1 device for cutting from 3 to 100 mm. with trolley and guide Art. 3200 GC.

1 wrench Art. 3200 GD .

In sturdy enamelled steel box.

3179G	Each	733,00
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3179GA


**Orig. Ewo - Art. 124.42****SOLDERING AND CUTTING TOOLS**

17 mm. connection.

For thick and medium welding, with acetylene or oxygen.

The set contains:

1 universal handle with connection Ø 17mm Art. 3200 GA.

5 lances for welding from 0.5 to 9 mm. Art. 3200 GBx1 to 5.

1 device for cutting from 3 to 100 mm. with trolley and guide Art. 3200 GC.

1 wrench Art. 3200 GD .

In sturdy enamelled steel box.

3179GA	Each	572,00
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3180GE


**Orig. Ewo - Art. 124.0033****WELDING AND CUTTING TOOLS**

17mm connection.

For thick and medium welding, with acetylene or oxygen.

The set contains:

1 x universal handle with connection Ø 17mm Art. 3200 GA.

8 x lances for welding from 0.5mm to 25mm Art. 3200 GBx1 to 8.

1 x device for cutting from 3mm to 100mm with trolley and guide Art. 3200 GC.

1 x oxygen pressure regulator Art. 3140 GE.

1 x acetylene pressure regulator Art. 3140 GA.

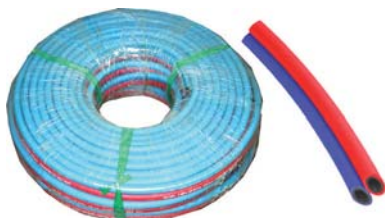
1 x wrench Art. 3200 GD.

In sturdy enamelled steel box.

3180GE	Each	1.160,00
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**WELDING HOSES**

3185G


**DIAMETER 9/6****Prod. SCU**

Rubber high quality hose for acetylene/oxygen and propane/oxygen welding.

Conforms to UNI EN 559. Working temperature: -20 °C + 70 °C.

Max. working pressure: 20 bar.

Double-piped for acetylene and oxygen, diameter 9/6,3mm. Red/blue colour.

Suitable for EWO tools and genuine parts and other brands.

Delivered in reels of approx. 40m., non-cuttable.

3185G	Per meter	5,68
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**Orig. Ewo**

Double clamps made of galvanized steel suitable for bined hoses. By crushing, they are positioned so as to prevent the two welded pipes from tearing.

In packs of approx. 100 pcs.

Ø mm 16/16 for bined hose Art. 3185 G.

<b>3185H</b>	Each	<b>1,14</b>
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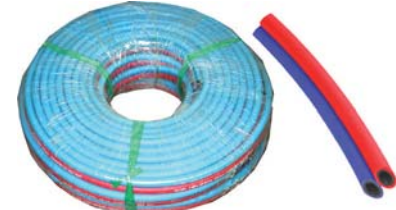
**3185H**  
*new*

Product description as Art. 3185G

Double-piped for acetylene and oxygen, diameter 8/8mm. Red/blue colour.

Delivered in reels of approx. 50m., non-cuttable.

<b>3185L</b>	Per meter	<b>8,50</b>
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**DIAMETER 8/8**
**3185L**
**Prod. SCU**

Rubber high quality hose for acetylene/oxygen and propane/oxygen welding.

Conforms to UNI EN 559. Working temperature: -20 °C +70 °C.

Max. working pressure: 20 bar.

Mono-piped for acetylene. Red colour. Suitable for original Ewo tools and components and other brands.

Delivered in reels of approx. 50m, non-cuttable.

Int Ø	mm	<b>6</b>	<b>9</b>
<b>3186A</b>	Per meter	<b>2,30</b>	<b>2,58</b>



**3186A**

Product description as Art. 3186A

Mono-piped for propane, diameter 6mm. Orange colour.

Suitable for EWO tools and genuine parts and other brands.

Delivered in reels of approx. 40m., non-cuttable.

<b>3186G</b>	Per meter	<b>2,46</b>
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**3186G**

Product description as Art. 3186A

Mono-piped for propane. Blue colour.

Suitable for EWO tools and genuine parts and other brands.

Delivered in reels of approx. 40 m., non-cuttable.

Int Ø	mm	<b>6</b>	<b>9</b>
<b>3187G</b>	Per meter	<b>2,02</b>	<b>4,96</b>



**3187G**
**10**
**ACETYLENE AND OXYGEN WELDING AND CUTTING TOOLS**
**Prod. SCU**

Professional tools for welding and cutting in small/medium carpentry and bodywork. For 10 mm. thick weldings and up to 50 mm. thick cuttings. Hose connections for pipes with diameters 6/6 e 8/8mm.

Universal handgrip.

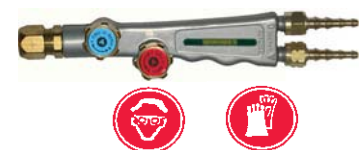
<b>3190A</b>	Each	<b>180,00</b>
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Hose for pipes Ø 6 and 8mm with 1/4 right nut for oxygen.

<b>O3190A 1</b>	Each	<b>9,50</b>
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Hose for pipes Ø 6 and 8mm with 1/4 left nut for acetylene.

<b>O3190A 2</b>	Each	<b>8,64</b>
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**3190A**

For direct connection valves see Art. 3190 P-R.

**3190B****SCU**

Professional tools for welding and cutting in small/medium carpentry and bodywork. For 10 mm. thick weldings and up to 50 mm. thick cuttings. Hose connections for pipes with diameters 8/8 mm. Welding lances for Art. 3190 A.

Size		1	2	3	4	5	6	7	8	9
For welding	mm	0,2	0,4	0,8	1,6	2,2	3	5	8	10
<b>3190B</b>	<b>Each</b>	<b>64,10</b>	<b>64,10</b>	<b>64,10</b>	<b>64,10</b>	<b>64,10</b>	<b>64,10</b>	<b>67,40</b>	<b>67,40</b>	<b>67,40</b>

**3190E****SCU**

Product description as Art. 3190B

Device for cutting from 1 to 50 mm. With 3 nozzles Art. 3190 M 10 - 25 - 50.

<b>3190E</b>	<b>Each</b>	<b>338,00</b>
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**3190L****SCU**

Product description as Art. 3190B

Spare copper nozzles for Art. 3190 B.

Size		1	2	3	4	5	6	7	8	9
For welding	mm	0,2	0,4	0,8	1,6	2,2	3	5	8	10
<b>3190L</b>	<b>Each</b>	<b>24,20</b>	<b>24,20</b>	<b>24,20</b>	<b>24,20</b>	<b>24,20</b>	<b>24,20</b>	<b>24,20</b>	<b>24,20</b>	<b>24,20</b>

**3190M****SCU**

Product description as Art. 3190B

Spare copper nozzles for Art. 3190 E.

For cutting max	mm	<b>10</b>	<b>25</b>	<b>50</b>
<b>3190M</b>	<b>Each</b>	<b>39,30</b>	<b>39,30</b>	<b>39,30</b>

**3190P****SCU**

Product description as Art. 3190B

Safety relief valves for acetylene, with handgrip connection Art 3190 A.

1/4" GAS connection, hose connection for pipes with 6/8 mm. internal diameter

<b>3190P</b>	<b>Each</b>	<b>35,50</b>
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**3190R****SCU**

Product description as Art. 3190B

Safety relief valves for oxygen, with handgrip connection Art 3190 A.

1/4" GAS connection, hose connection for pipes with 6/8 mm. internal diameter

<b>3190R</b>	<b>Each</b>	<b>35,50</b>
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**3200GA****ewo**

**Orig. Ewo - Art. 124.10**

Industrial tools for welding and cutting of iron, steel, plates and metals with acetylene and oxygen.

Connection diameter 17 mm. Hose connections for pipes with diameters 9/6 mm.

Universal handgrip.

<b>3200GA</b>	<b>Each</b>	<b>105,00</b>
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**3200GB****ewo**

**Orig. Ewo - Art. 116**

Product description as Art. 3200GA

Welding lances for Art. 3200 GA.

Size		0	1	2	3	4	5	6
For welding	mm	0,2-0,5	0,5-1	1-2	2-4	4-6	6-9	9-14
<b>3200GB</b>	<b>Each</b>	<b>35,10</b>	<b>35,10</b>	<b>35,10</b>	<b>35,10</b>	<b>36,30</b>	<b>37,10</b>	<b>41,10</b>

Size		7	8
For welding	mm	14-19	19-25
<b>3200GB</b>	<b>Each</b>	<b>42,10</b>	<b>44,90</b>

For spare nozzles see Art. 3244 GC.

**3200GC****ewo**

**Orig. Ewo - Art. 115.17**

Product description as Art. 3200GA

Device for cutting from 3 to 100 mm. For Art.3200 GA, with trolley, nozzles, tips and guide.

<b>3200GC</b>	<b>Each</b>	<b>195,00</b>
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For spare nozzles and tips see Art. 3244 GE-F

**Orig. Ewo - Art. 115.010**

Product description as Art. 3200GA

New device for cutting from 2mm to 100mm for Art. 3200 GA with single-piece nozzles and ring nut clamping device. The system allows better performances, a more homogeneous flame, an easier adjustment of the flame, a reduced risk of backfire.

Supplied standard only with cutting nozzle from 20mm to 50mm. (For nozzles from 2 to 20mm and 50 to 100mm see Art. 3200 GC x 20 and 100).

**3200GC 3** Each **139,00**

A device having the same characteristics but with lever control instead of a tap available on request.

Cutting nozzles 20 to 50mm for Art. 3200 G 3.

**O3200GC 3** Each **20,20**

**ewo**

**3200GC 3**



**Orig. Ewo - Art. 115**

Cutting nozzles 3 to 20mm for Art. 3200 GC 3.

**3200GC 20** Each **20,20**

**ewo**

**3200GC 20**



Cutting nozzles 50 to 100mm for Art. 3200 GC 3.

**3200GC 100** Each **20,20**

**ewo**

**3200GC 100**



Trolley and guide for Art. 3200 GC 3.

**3200GCA** Each **22,80**

**ewo**

**3200GCA**



**Orig. Ewo - Art. 124/23**

Installation wrench.

**3200GD** Each **8,22**

For spare welding nozzles and jet nozzles see Art. 3244 GC.

For cutting spare nozzles and tips see Art. 3244 GE-F. For direct connection valves see Art. 3246 GP-R.

**ewo**

**3200GD**



**Orig. Ewo - Art. 134**

Copper tube lances with diameter 6mm. Slightly flexible.

90° bending. Suitable for handgrips Art. 3200GA.

Suitable for welding in difficult positions.

Size		1	2	3	4
For welding	mm	1-2	2-4	4-6	6-9
<b>3201GE</b>	Each	<b>42,90</b>	<b>42,90</b>	<b>42,90</b>	<b>42,90</b>

**ewo**

**3201GE**



**Orig. Ewo - Art. 117**

Heating lances, suitable for handles Art. 3200GA. Suitable for heating and fusing.

Size		4	5	6	7
For heating	mm	4-6	6-9	9-14	14-19
<b>3204G</b>	Each	<b>58,30</b>	<b>58,30</b>	<b>62,30</b>	<b>64,60</b>

**ewo**

**3204G**



**Orig. Ewo - Art. 440.001**

High performance cutting torches. Improved model suitable for medium and large thick cuttings of steel and its alloys. Greater handiness. Lever control for quick oxygen regulation. Built-in backfire device. Long nozzles which concentrate the flame so as to improve cutting and reducing working times. Acetylene or oxygen use. Suitable for 3 to 300 mm. thick cuttings.

Delivered with 10-75 mm. nozzles, hose connections for pipes with diameters 9/6, without trolley and guide.

**3210G** Each **355,00**

**ewo**

**3210G**



**Orig. Ewo - Art. 440**

Product description as Art. 3210G

Cutting nozzles for Art. 3210 G.

For cutting	mm	3-6	5-12	10-75	70-100	90-150	140-200	190-300
<b>3211G</b>	Each	<b>37,20</b>	<b>37,20</b>	<b>37,20</b>	<b>37,20</b>	<b>37,20</b>	<b>37,20</b>	<b>37,20</b>

**ewo**

**3211G**



**3212G**

Product description as Art. 3210G  
Trolley with guide for Art. 3210 and 3242 GE.

**3212G** Each **43,40**



### PROPANE AND OXYGEN WELDING AND CUTTING TOOLS

**3239GB**

**Orig. Ewo - Art. 124.30**

Industrial tools for welding and autogenous cutting of copper, brass, aluminium etc. with propane and oxygen. Not suitable for iron and steel. Connection diameter 17 mm. Hose connections for pipes with diameters 4/6 mm.

Universal handgrip

**3239GB** Each **112,00**

**3239GC**

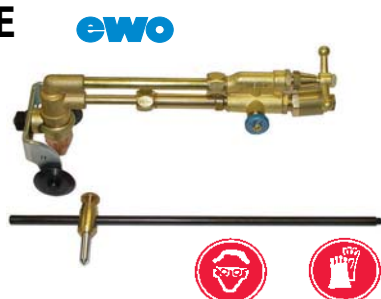
**Orig. Ewo - Art. 116**

Industrial tools for welding and autogenous cutting of copper, brass, aluminium etc. with propane and oxygen. Not suitable for iron and steel. Connection diameter 17 mm. Hose connections for pipes with diameters 9/6 mm.

Welding lances for Art. 3239 GB.

Size	1	2	3	4	5	6	7	8
For welding mm	0,5-1	1-2	2-4	4-6	6-9	9-14	14-19	19-25
<b>3239GC</b> Each	<b>40,90</b>	<b>40,90</b>	<b>40,90</b>	<b>42,60</b>	<b>44,80</b>	<b>48,10</b>	<b>49,10</b>	<b>52,10</b>

For spare nozzles see Art. 3244 GH.

**3239GE**

**Orig. Ewo - Art. 115.PA**

Product description as Art. 3239GC

Device for cutting from 3 to 100 mm. for Art. 3239 GB, complete with trolley, nozzles, tips and guide.

**3239GE** Each **213,00**

For spare nozzles and tips see Art. 3244 GM-P.

**3239GF**

**Orig. Ewo**

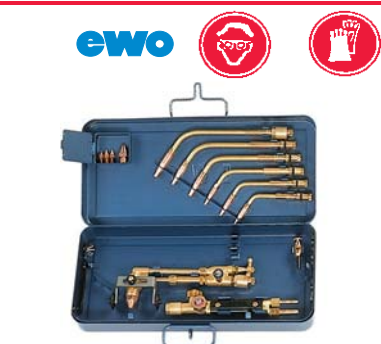
Product description as Art. 3239GC

Installation wrench.

**3239GF** Each **8,22**

For spare nozzles and jet nozzles for welding see Art. 3244 GH-L.

For nozzles and tips for cutting see Art. 3244 GM-P.

**3242G**

**Orig. Ewo - Art. 124.222**

Tools for medium welding.

The set is composed of :

1 universal handle with connection Ø 17mm Art. 3239 GB.

6 lances for welding from 0.5 to 14 mm. Art. 3239 GCx1 to 6

1 device for cutting from 3 to 100 mm. with trolley and guide Art. 3239 GE.

1 wrench Art. 3239 GF .

In sturdy enamelled steel box.

**3242G** Each **671,00**

**3242GE**

**Orig. Ewo - Art. 440.002**

High performance cutting torches. Improved model suitable for medium and large thick cuttings of steel and its alloys. Greater handiness. Lever control for quick oxygen regulation. Built-in backfire device. Long nozzles which concentrate the flame so as to improve cutting and reducing working times. Propane or oxygen use. Suitable for 3 to 300 mm. thick cuttings.

Delivered with 10-75 mm. nozzles, hose connections for pipes with diameters 9/6, without trolley and guide.

**3242GE** Each **355,00**

For trolley and guide see Art. 3212 G.





**Orig. Ewo - Art. 440**

Product description as Art. 3242GE

Cutting nozzles for Art. 3242 GE.

For cutting	mm	3-6	5-12	10-75	70-100	90-150	140-200	190-300
<b>3242GF</b>	Each	37,20	37,20	37,20	37,20	37,20	37,20	37,20



**3242GF**

**SPARE PARTS FOR EWO TORCHES**

**Orig. Ewo - Art. 112-116**

Copper nozzles for welding with oxygen and acetylene.

Suitable for Art. 3179 G - 3179 GA - 3180 GE - 3200 GB. Connection diameter 17 mm.

Size	0	1	2	3	4	5	6	7	8	
<b>3244GC</b>	Each	10,60	10,10	10,10	10,60	11,40	11,40	13,40	13,40	13,40



**3244GC**

**Orig. Ewo**

Copper nozzles for heating with oxygen and acetylene.

Suitable for Art.3179 G - 3179 GA - 3180 GE - 3200 GC. Connection diameter 17 mm.

For heating	mm	3-12	12-100
<b>3244GE</b>	Each	12,60	12,60



**3244GE**

Tips for cutting with oxygen and acetylene.

Suitable for Art. 3179 G - 3179 GA - 3180 GE - 3200 GC. Connection diameter 17 mm.

For cutting	mm	3-12	12-25	25-50	50-100
<b>3244GF</b>	Each	8,04	8,04	8,04	8,04



**3244GF**

Copper nozzles for welding with oxygen and propane.

Suitable for Art. 3239 GC - 3242 G. Connection diameter 17 mm.

Size	1	2	3	4	5	6	7	8	
<b>3244GH</b>	Each	10,70	10,70	11,30	12,30	12,30	14,20	14,20	14,20



**3244GH**

Copper nozzles for heating with oxygen and propane from 3 to 100 mm.

Suitable for Art. 3239 GE - 3242 G. Connection diameter 17 mm.

<b>3244GM</b>	Each	16,90
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**3244GM**

Tips for cutting with oxygen and propane.

Suitable for Art. 3239 GE - 3242 G. Connection diameter 17 mm.

For cutting	mm	3-10	10-25	25-50	50-100
<b>3244GP</b>	Each	9,24	9,24	9,24	9,24



**3244GP**

**SAFETY RELIEF VALVES FOR OXYACETYLENE AND PROPANE**

**Prod. SCU**

Made of solid brass. Back-firing proof. Maximum protection. To be fitted between torch and cylinder regulator. With 2 hose connections; if one connection is removed the valve may directly be coupled into regulator. (Only for Art. 3246 B-C).

For acetylene, propane, butane and hydrogen.

For rubber hoses. Total length 115mm.

<b>3246</b>	Each	29,40
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**3246**

Product description as Art. 3246

For oxygen only.

For rubber hoses. Total length 115mm.

<b>3246A</b>	Each	29,40
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**3246A**

Product description as Art. 3246

For acetylene, propane, butane and hydrogen.

Approved model. Total length 150mm.

<b>3246B</b>	Each	74,30
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**3246B**

Product description as Art. 3246

For oxygen only.

Approved model. Total length 150mm.

<b>3246C</b>	Each	74,30
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**3246C**

**Orig. Ewo - Art. T/T-A**

Made of brass. Back-firing proof. Maximum protection. Approved by German Safety Agency. Conform to DIN 8521.

Insertion between the torch and the cylinder adaptor. With 2 hose connections. For acetylene, propane, butane, hydrogen.

9mm. hose connections.

<b>3246GA</b>	Each	41,20
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**3246GA**

**3246GB****ewo****Orig. Ewo - Art. T/T-O**

Product description as Art. 3246GA

Insertion between the torch and the cylinder adaptor. With 2 hose connections. For oxygen, for rubber hoses only.

6 mm. hose connections.

**3246GB** Each **41,20****3246GF****ewo****Orig. Ewo - Art. DG-N-A**

Made of brass. Back-firing proof. Maximum protection. Approved by German Safety Agency. Conform to DIN 8521.

For acetylene, propane, butane, hydrogen, argon and helio with connection to regulator.

Male/female connections G 3/8" left.

**3246GF** Each **42,80****3246GL****ewo****Orig. Ewo - Art. DG-N-O**

Product description as Art. 3246GF

For oxygen, with connection to regulator.

Male/female connections G 1/4".

**3246GL** Each **43,20****3246GP****ewo****Orig. Ewo - Art. G/T-A**

Product description as Art. 3246GF

For acetylene, propane, butane, hydrogen, argon and helio with connection to torch.

Female connection/hose connection 9 mm./G 3/8" left.

**3246GP** Each **37,40****3246GR****ewo****Orig. Ewo - Art. C/T-O**

Product description as Art. 3246GF

For oxygen, with connection to torch.

Female connection/hose connection 6 mm./G 1/4".

**3246GR** Each **37,40****LIQUID GAS WELDING TOOLS****3247GA****ewo****Orig. Ewo - Art. 175**

All-purpose industrial fittings suitable for heavy tasks. Working pressure 1.5 bar.

Handgrip length 180mm.

**3247GA** Each **56,50****3247GB****ewo****Orig. Ewo**

Product description as Art. 3247GA

Handgrip with additional control lever and flame regulator.

**3247GB** Each **77,40****3247GC****ewo**

Product description as Art. 3247GA

Combustion pipe with diameter 19mm. With rest for copper welding hammer.

**3247GC** Each **42,70****3247GD****ewo**

Product description as Art. 3247GA

Copper welding hammer. Weight 250 g.

**3247GD** Each **22,30**

Product description as Art. 3247GA

Bonnet with hanger

<b>3247GE</b>	Each	<b>22,60</b>
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**ewo**



**3247GE**



Product description as Art. 3247GA

Chromium plated steel coupling extension, without combustion pipe Art. 3247 GH.

Overall length	mm	<b>130</b>	<b>350</b>	<b>750</b>
For pipes Ø	mm	30/38	45/50/60	45/50/60
<b>3247GF</b>	Each	<b>21,70</b>	<b>28,70</b>	<b>38,80</b>

**ewo**



**3247GF**



Product description as Art. 3247GA

Stainless steel combustion pipes for extensions Art. 3247 GF. For flame lengths over 150mm.

Ø	mm	<b>30</b>	<b>40</b>	<b>45</b>	<b>50</b>	<b>60</b>
For extensions length	mm	130	130	350/750	350/750	350/750
<b>3247GH</b>	Each	<b>26,10</b>	<b>32,60</b>	<b>35,90</b>	<b>40,90</b>	<b>45,90</b>

**ewo**



**3247GH**



Product description as Art. 3247GA

Lances with combustion pipe.

Overall length	mm	<b>100</b>	<b>120</b>	<b>140</b>
Ø	mm	16	17	20
<b>3247GL</b>	Each	<b>29,10</b>	<b>32,10</b>	<b>34,30</b>

**ewo**



**3247GL**



Product description as Art. 3247GA

Lances for plastic material,. Suitable also for removing paints.

Flat tip width 40 mm.

<b>3247GM</b>	Each	<b>43,60</b>
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**ewo**



**3247GM**



Product description as Art. 3247GA

Turbo-lances for heavy tasks

external Ø	mm	<b>15</b>	<b>17</b>	<b>20</b>	<b>23</b>
Overall length	mm	160	160	170	175
<b>3247GT</b>	Each	<b>33,30</b>	<b>34,30</b>	<b>35,60</b>	<b>39,80</b>

**ewo**



**3247GT**



**WELDING AND HEATING FITTINGS**

**Orig. Ewo - Art. 175.401**

Fittings for medium weldings.

USE WITH PROPANE GAS

The set contains:

- 1 handle Art. 3247 GB
- 1 combustion pipe Art. 3247 GC
- 1 copper welding hammer Art. 3247 GD
- 1 bonnet Art. 3247 GE
- 4 lances Art. 3247 GL x 100-120-140
- 1 extension Art. 3247 GF x 150
- 2 combustion pipes Art. 3247 GH x 30-40
- 1 lance Art. 3247 GM
- 1 rubber hose with connections
- 1 wrench included

In sturdy steel box.

<b>3248G</b>	Each	<b>518,00</b>
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**ewo**



**3248G**



3248GL



Orig. Ewo - Art. 175.411

Product description as Art. 3248G

USE WITH PROPANE GAS

The set contains:

1 handle Art. 3247 GA

4 lances Art. 3247 GL x 100-120-140

1 combustion pipe Art. 3247 GC

1 copper welding hammer Art. 3247 GD

1 bonnet Art. 3247 GE

1 rubber hose with connections

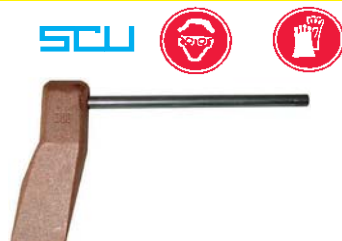
1 wrench included.

In sturdy steel box.

3248GL	Each	395,00
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### COPPER WELDING HAMMERS FOR LIQUID GAS WELDING

3248R



Prod. SCU

Hammer type, with cylinder connection for soldering with liquid gas

Size		250	400	500
Mallet weight	grams	250	350	500
3248R	Each	22,30	29,10	36,90

### TORCHES FOR LIQUID GAS

3249



Prod. SCU

For soldering, working pressure from 0.5 to 1.5 max. Atm. Combustion pipe diameter 22mm.

With 250 g. copper welding hammer and rest foot. Max working temperature 1100/1200 °C.

3249	Each	37,90
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3249E



Professional handles. With control valve and hose connection.

Threaded connection MF 18x1. Length 220mm.

3249E	Each	33,90
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3249F

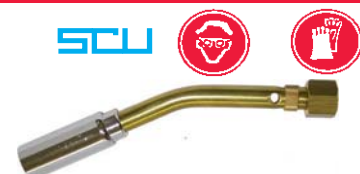


Product description as Art. 3249E

With quick control lever.

3249F	Each	49,70
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3249H



Professional lances with combustion pipe. For handles Art. 3249 E - F.

Ø	mm	10	15	17	20
Max temperature	°C	1400	1460	1500	1600
3249H	Each	21,60	26,60	29,10	27,30

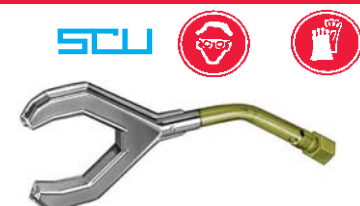
3249L



Professional forked lance for pipes with diameter up to 20mm. For handles Art. 3249 E - F.

Max temperature	°C	2400
3249L	Each	16,70

3249M



Professional forked lance for pipes with diameter up to 40mm. For handles Art. 3249 E - F.

Max temperature	°C	2400
3249M	Each	18,30

Bent chromium plated steel extensions, professional type, to be used with combustion pipes Art. 3249 PB. For handles Art. 3249 E - F.

Length	mm	165	350	600	750
<b>3249PA</b>	<b>Each</b>	<b>12,20</b>	<b>14,70</b>	<b>15,50</b>	<b>16,20</b>

SCU



**3249PA**

Chromium plated steel combustion pipes, professional type, to be used with extensions Art. 3249 PA.

Ø	mm	22	30	45	60	90
Max temperature	°C	1400	1450	1500	1600	1700
<b>3249PB</b>	<b>Each</b>	<b>5,74</b>	<b>6,64</b>	<b>7,54</b>	<b>8,26</b>	<b>13,50</b>

SCU



**3249PB**

Double forks for 2 combustion pipes Art. 3249 PB 22 to 90, to be used also with extensions Art. 3249 PA. Made of chrome plated steel.

Length	mm	160
<b>3249PE</b>	<b>Each</b>	<b>16,70</b>

SCU



**3249PE**

Professional kit composed of copper hammer 250g., bonnet and combustion pipe with diameter 22mm. Suitable for handles Art. 3249 E - F. With rest.

Max temperature	°C	1400
<b>3249PF</b>	<b>Each</b>	<b>43,60</b>

Spare parts available on request.

SCU



**3249PF**

Gas pipes made of strengthened rubber. Diameter 8x13 mm, IMQ approved, conform to UNI-CIG 7140, with cylinder connections.

Length	m	1,5	5	9
<b>3249PH</b>	<b>Each</b>	<b>9,86</b>	<b>19,20</b>	<b>26,00</b>

For gearboxes for liquefied gas see Art. 3156.

SCU



**3249PH**

Long assembled torches, professional type, made of components of Art. 3249 F - 3249 PA - 3249 PB. Suitable for heating, melting etc., and also for heavy tasks. Combustion pipe dia. 60mm.

Overall length	mm	670	920	1070
<b>3249PM</b>	<b>Each</b>	<b>68,50</b>	<b>69,30</b>	<b>70,10</b>

SCU



**3249PM**

**10**

**LONG TORCHES FOR LIQUID GAS**

**Prod. SCU**

Standard type. Suitable for melting, hardening, heating, tarring, waterproofing floors and roofs. Handle with quick control lever.

Length	mm	500
Pipe Ø	mm	45
<b>3249R</b>	<b>Each</b>	<b>21,20</b>

SCU



**3249R**

Product description as Art. 3249R

Length	mm	750
Pipe Ø	mm	60
<b>3249S</b>	<b>Each</b>	<b>24,30</b>

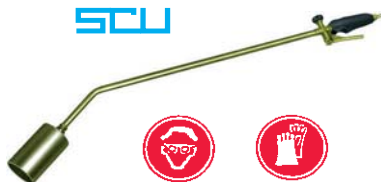
SCU



**3249S**

3249T

SCU



Product description as Art. 3249R

Length	mm	900
Pipe Ø	mm	60
<b>3249T</b>	<b>Each</b>	<b>25,50</b>

## SET OF NOZZLE CLEANERS

3249Z

ewo



Orig. Ewo - Art. 501.41

Set of 13 nozzle cleaners and knurled blade. In case.

<b>3249Z</b>	<b>Each</b>	<b>3,94</b>
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## LIGHTERS FOR TORCHES

3249ZA

ewo



Orig. Ewo - Art. 503/1

With interchangeable flint. Wind-proof.

<b>3249ZA</b>	<b>Each</b>	<b>4,80</b>
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Spare plaque for Art. 3249 ZA. Packing unit: 50pcs, not sold separately.

<b>O3249ZA</b>	<b>Per pack</b>	<b>24,10</b>
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## WELDERS PENCILS

3249ZL

SCU



Prod. SCU

Crayon markers in natural steatite for welding lines on metals.

Dimensions 100x10x10mm.

Packing unit: 50pcs. not sold separately.

<b>3249ZL</b>	<b>Per pack</b>	<b>16,50</b>
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## WELDERS PENCILS

3249ZR

SCU



Prod. SCU

Special pencil markers for welding lines on metals.

Particularly eraser-resistant also in presence of heat.

Indicative packing unit: 12pcs.

Colour: silver

<b>3249ZR</b>	<b>Each</b>	<b>1,12</b>
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3249ZT

SCU



Product description as Art. 3249ZR

Colour: red

<b>3249ZT</b>	<b>Each</b>	<b>1,12</b>
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## CYLINDERS FOR LIQUID GAS

3250

SCU



Prod. SCU

Made of steel. With gas cock.

Side valve for filling.

Threaded left connection diameter 20x14mm.

Without hose connection.

Capacity	Kg	<b>2</b>	<b>3</b>
Ø	mm	200	200
Height without tap	mm	220	275
Weight empty	Kg	3,2	4,2
Charging duration	ore	120	180
<b>3250</b>	<b>Each</b>	<b>55,80</b>	<b>60,70</b>

Flexible rubber hose for transfer, length 0.50 m, with connections, for Art. 3250.

**3250A** Each **15,10**



**3250A**

Hose connections for cylinders. Suitable for Art. 3250.

**3250B** Each **3,26**



**3250B**

**CARTRIDGE-TYPE SOLDERING IRONS**

**Prod. SCU**

Professional soldering iron, liquefied gas cartridge-type Art. 3250 CE. With metal cartridge holder and brass burner Ø 20mm. Necessary for small welding repairs on items in progress. Not suitable for inclined use.

With piezoelectric ignition.  
Supplied without cartridge.

Max temperature °C 1200  
Consumption gr/h 86

**3250C** Each **26,20**



**3250C**

Product description as Art. 3250C

With additional fork burner and flat burner.  
Supplied without cartridge.

Max temperature °C 1200  
Consumption gr/h 86

**3250CA** Each **33,10**



**3250CA**

Professional welding kit for liquefied gas cartridge-type Art. 3250 CE. The kit consists of metal cartridge holder, gas stop cock, rubber hose about 1.2m long, torch with cock complete with burner Ø 22mm.

Universal use such as welding, brazing, defrosting, heating, etc.  
Supplied without cartridge.

Max temperature °C 1400  
Consumption gr/h 190  
Weight grams 545

**3250CB** Each **42,10**



**3250CB**

**LIQUEFIED GAS CARTRIDGES**

Suitable for soldering irons Art. 3250 C - CA - CB. For cartridge lamps Art. 4461 T, with limiting pressure gas outlet.

Weight grams 190

**3250CE** Each **2,70**



**3250CE**

**EXPANDED POLYSTYRENE ELECTRIC TOOLS**

**Prod. SCU**

Tool suitable for cutting and processing rigid foam such as polystyrene, SAGEX, Alporit. Supplied with 3 interchangeable blades.

V 110-240. Power during heating phase 250 W, power during operation 45 W.

Heating time 6 min.  
Working temperature 200°C.  
Cutting depth 50 mm.

**3250F** Each **51,60**



**3250F**  
*new*

## ELECTRIC WARM AIR CONVEYORS

3250GA

SCU



Prod. SCU

Multi-purpose gun type suitable for paint removing, unglueing, bending and removing various materials. Light, compact with soft handle. Built-in rest for vertical standing.

Double heating stage 45/550 °C. Air outflow 500 l/min.

V 230 - Power W 2000.

Without fittings.

**3250GA** Each **86,30**

For soldering rods see Art. 3378 A - C - E.

3250GB

SCU



Multi-purpose gun type suitable for paint removing, unglueing, bending and removing various materials. Light, compact with soft handle. Built-in rest for vertical standing.

Ten heating stages 60/600 °C. Air outflow 500 l/min.

Power W 2000.

Without fittings.

**3250GB** Each **110,00**

For soldering rods see Art. 3378 A - C - E.

3250GB 3

SCU



Fittings for Art. 3250 GA - 3250 GB.

Flat nozzles, width 40mm.

**3250GB 3** Each **11,30**

3250GB 5

SCU



Product description as Art. 3250GB 3

Glass-shielding flat nozzles. Width 45mm.

**3250GB 5** Each **11,30**

3250GB 7

SCU



Product description as Art. 3250GB 3

Round reduction nozzles Ø 23mm.

**3250GB 7** Each **11,30**

3250GB 9

SCU



Product description as Art. 3250GB 3

Reflex nozzles for bending pipes.

**3250GB 9** Each **11,30**

10 3250GD

SCU



Professional straight type. Strong, powerful. Light and handy multipurpose model with many fittings.

Electronic gradual heating control from 100 °C to 600 °C.

Double air outflow 300/500 l/min. V 230 - Power W 2000. Total length 335mm.

Without fittings.

**3250GD** Each **219,00**

For soldering rods see Art. 3378 A - C - E.

3250GE

SCU



Professional gun-type. Strong, powerful. Light and handy multipurpose model with many fittings.

Vertical standing. Electronic gradual heating control from 100 °C to 630 °C.

Liquid crystal display of temperature. Triple air outflow from 150 to 500 l/min.

V 230 - Power W 2000. Total length 335mm.

Without fittings.

**3250GE** Each **185,00**

For soldering rods see Art. 3378 A - C - E.



FITTINGS FOR ART. 3250 GD - 3250 GE

Flat nozzles. Width 50mm.

**3250GF** Each **12,90**


**3250GF**

Product description as Art. 3250GF

Flat nozzles. Width 75mm.

**3250GH** Each **13,60**


**3250GH**

Product description as Art. 3250GF

Round reduction nozzles Ø 9mm.

**3250GL** Each **10,90**


**3250GL**

Product description as Art. 3250GF

Round reduction nozzles Ø 14mm.

**3250GM** Each **10,90**


**3250GM**

Product description as Art. 3250GF

Round reduction nozzles Ø 20mm.

**3250GM 1** Each **10,90**


**3250GM 1**

Product running out of stock.

Product description as Art. 3250GF

Reflecting nozzles for welding.

**3250GM 2** Each **15,10**


**3250GM 2**

Product description as Art. 3250GF

Nozzles for hose bending.

**3250GP** Each **14,90**


**3250GP**

Product description as Art. 3250GF

Nozzles for welding with plastic rods Ø up to 6mm. (Art. 3250 GL is required for assembly).

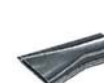
**3250GS 1** Each **20,30**


**3250GS 1**

Product description as Art. 3250GF

Rimate nozzle for welding plastic sheets. (Art. 3250 GL is required for assembly).

**3250GS 2** Each **11,10**


**3250GS 2**

Product running out of stock.

Product description as Art. 3250GF

Flat nozzles for welding plastic sheets. (Art. 3250 GM is required for assembly).

**3250GS 3** Each **15,20**


**3250GS 3**

Product description as Art. 3250GF

Roller compressors for plastic materials. Width 45mm.

**3250GT** Each **26,60**


**3250GT**
**10**
**WARM AIR ELECTRIC TORCHES FOR PLASTIC MATERIALS**
**Prod. SCU**

With power unit and built-in fan. Suitable for welding, heating and forming plastic materials.

Temperature control through rotating switch with 5 stages: from 50 °C to 700 °C.

Air outflow 500 l/min.V 220 - Power W 700.

Torch with nozzle Ø 6mm.

**3251** Each **620,00**


**3251**

Spare round nozzles Ø 6mm for Art. 3251.

**O3251** Each **40,20**

Spare resistors for Art. 3251.

**O3251R** Each **63,40**


For soldering rods see Art. 3378 A - C - E.

**3251E SCU**

With electronic control of air temperature.  
 Continuous temperature control from 50 °C to 650 °C.  
 With power unit and built-in fan.  
 Suitable for welding, heating and forming plastic materials. Air outflow 500 l/min.  
 V 220 - Power W 1000.  
 Torch with nozzle Ø 6mm.

**3251E** Each **786,00**

For spare round nozzles Ø 6mm. See Art. 03251.

Spare resistors for Art. 3251 E – 3251 S.

**03251RE** Each **63,40**

For soldering rods see Art. 3378 A - C - E.

**3251S SCU**

To be used with compressed-air Atm 0.1-1.  
 For welding all thermoplastic materials and for heating and shrinking.  
 Continuous electronic control of air temperature through rear potentiometer.  
 Temperature goes from 60 °C to 600 °C.  
 V 220 - Power W 1000.  
 Torch with nozzle Ø 5mm.

**3251S** Each **620,00**

For spare resistors see Art- 03251 RE.

Spare round nozzles Ø 5mm for Art. 3251 S.

**03251S** Each **40,20**

For soldering rods see Art. 3378 A - C - E.

**3252 SCU**

To be used with compressed-air Atm 0.5-1.  
 For welding PVC, polyethylene, polypropylene.  
 Control of air temperature through torch air inlet.  
 Max. temperature 600 °C.  
 V 220 - Power W 700.  
 Torch with nozzle Ø 4mm.

**3252** Each **338,00**

For spare resistors see Art- 03251 R.

Spare round nozzles Ø 4mm for Art. 3252.

**03252** Each **40,20**

For soldering rods see Art. 3378 A - C - E.

**3252 1 SCU**

FITTINGS FOR NOZZLES ART. 3251 - 3251 E - 3251 S - 3252

Flat nozzles. Width 20mm.

**3252 1** Each **42,30**

**3252 2 SCU**

Product description as Art. 3252 1

Flat nozzles. Width 40mm.

**3252 2** Each **52,90**

**3252 3 SCU**

Product description as Art. 3252 1

Nozzles for welding with plastic rods Ø up to 4mm.

**3252 3** Each **84,50**

**3252 5 SCU**

Product description as Art. 3252 1

Cap for paint removing. Width 40mm.

**3252 5** Each **59,20**

**3252 6 SCU**

Product description as Art. 3252 1

Cap for heating.

**3252 6** Each **55,10**

**3252 7 SCU**

Product description as Art. 3252 1

Nozzles for welding gaiters and tubes. (Art. 3252/6 required for assembly).

**3252 7** Each **108,00**

**3252 9 SCU**

Product description as Art. 3252 1

Roller compressor 45 mm.

**3252 9** Each **50,70**

**BATTERY-POWERED GLUE GUNS**

**Prod. SCU**

Professional model, light, handy, practical, and uses standard 12 mm glue sticks. Ergonomic dual component material handle to move through the soft glue trigger, LED voltage indicator, tip guard and docking station. Equipped with one 2600 mAH long-life LITHIUM battery, detachable and removable, 1 100-240 V charger, and 6 transparent glue sticks. Comes in practical casing.

**3252 30** Each **112,00**

Replacement LITHIUM battery as per Art. 3252 30.

**O3252 30** Each **67,90**

**SCU**

**3252 30**



**ELECTRIC GLUE GUNS**

**Prod. SCU**

Standard type, with trigger feeding. Use with glue sticks with diameter 12mm. Electronic thermostat. V 120-240. Input/output W 60. With rest. Without glue.

**3252A** Each **17,90**

**SCU**

**CE**

**3252A**



Semiprofessional type, with trigger feeding, versatile and practical. Thanks to the detachable cable, you can work connected to the electrical network or without connection to gluing in difficult to reach locations without electrical outlets. After reaching the working temperature, will have about 7 minutes of autonomy.

Use with glue sticks with diameter 12mm. Preset thermostat and burn-proof nozzle. V 220-240 - Power W 25(W250). Extrusion capacity 350 gr/min. With rest. Without glue.

**3252B** Each **51,60**

**SCU**

**CE**

**3252B**



**CORDLESS**

Semiprofessional heavy-duty type, with trigger feeding. Use with glue sticks with diameter 12mm. sturdy model, with pre-set thermostat and burn-proof nozzle. V 240 - Power W 50. Extrusion capacity 23 gr/min. With rest. Without glue.

**3252C** Each **95,30**

**SCU**

**CE**

**3252C**



Industrial high power type. Feeding through large trigger. Use with glue sticks with diameter 12mm. Short warming-up time, with adjustable thermostat on 2 stages (170 °C and 205 °C). Burn-proof nozzle. V 220-240. Power W 280 (W 380). Instantaneous extrusion capacity 1600 gr/h. With steady rest. Without glue.

**3252ES** Each **184,00**

**SCU**

**CE**

**3252ES**



**10**

Industrial model, very powerful, long life and low power consumption. With trigger. Use with Ø 12 mm glue sticks. Fast heating time, with adjustable thermostat on 5 positions (120°C - 145°C - 170°C - 195°C - 220°C). Spout protected against burns. V 220-240. Power W 220. Extrusion capacity 1600 g/h. With stable support. Without glue.

**3252ET** Each **190,00**

**SCU**

**CE**

**3252ET**  
*new*



**3252F 1**

SCU



STICKS OF GLUE FOR ART. 3252 - 3252 A - B - C - D - E - ES / 2810 T

Non-toxic, hot melting type.  
Sticks Ø 12mm, length 200mm.  
1 Kg pack, not sold separately.  
Transparent colour.

<b>3252F 1</b>	Per pack	<b>13,90</b>
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**3252F 3**

SCU



Product description as Art. 3252F 1  
White colour.

<b>3252F 3</b>	Per pack	<b>14,60</b>
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**3252F 5**

SCU



Product description as Art. 3252F 1  
Honey colour.

<b>3252F 5</b>	Per pack	<b>14,60</b>
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STICKS OF BLACK GLUE supplied on request.

**SOLDERING WIRE DISPENSERS****3252FA**

SCU

**Prod. SCU - Orig. Weller**

Stylus type, light and handy. Dual component antislip body. Operated with No.4 AA alkaline batteries (Art. 3600 E) (included). It reaches operating temperature in approx. 30 seconds. It performs 180 welding points with a battery charge. It reaches the temperature of 380°C at I° level (green led) and of 480°C at II° level (red led ). Power from 6 to 8 W.

Suitable for use in microelectronics, electronics, electrical applications, both hobbistic and professional. Supplied with No.1 conical tip 0.8mm and No. 1 flat tip (1.8mm). Unleaded solder alloy, service key, safety cap for tool turning off.  
In case.

<b>3252FA</b>	Each	<b>51,90</b>
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See also battery soldering iron Art. 3258 GL.

Spare conical tips 0.8mm for microwelding Art. 3252 FA.

<b>O3252FA 5</b>	Each	<b>12,20</b>
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Spare straight, flat tips 1.8mm, universal use, for Art. 3252 FA.

<b>O3252FA 8</b>	Each	<b>12,20</b>
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**GAS TORCHES****3252FL**

SCU

**Prod. SCU - Orig. Weller**

Gun model with support for use even on tables with piezo ignition power. For use with butane gas, which can be refilled in seconds.

For repairing vehicle parts, applying and removing paints, adhesives, labels, hydraulic repairs, for the production of handicrafts etc.

Operates at a temperature of up to 1300° C, with adjustable gas/flame. Operating time of approx. 50 minutes per charge.

In blister (gas cylinder not included).

<b>3252FL</b>	Each	<b>45,30</b>
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For filling see Butane gas bottles Art. 3252G 75.

**3252FR**

SCU



CE

**Prod. SCU**

Practical body model right for direct application on butane gas canister (art. 3252 FS) through bayonet mount. With piezo ignition

To make car repair, installation and removal of paints, adhesives, labels, hydraulic field repairs, to model the pipes, for production of handicraft items, etc.

With gas/flame adjustment. Time of high autonomy, thanks to the low power consumption and high capacity of the canister of butane gas (220 g).

In blister (without gas canister).

<b>3252FR</b>	Each	<b>16,10</b>
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Product running out of stock.

**3252FS**

SCU



BUTANE GAS canister that torch Art. 3252 FR.

With shut-off valve, gas output when you dismount the torch body. Hard hat

Contents 220 g.

Estimated contents of pack: 4 pcs., with box of 28 pcs.

<b>3252FS</b>	Each	<b>3,62</b>
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Product running out of stock.

**GAS SOLDERING IRONS**
**Prod. SCU - Orig. Weller**

Stylus type, light and handy, with piezoelectric ignition. Use with butane, rechargeable in a few seconds. Suitable for welding and brazing. For welding, heating and hot-cutting. Temperature adjustable up to 650 °C. Operating autonomy approx. 75 minutes per charge. Total length 210mm. Supplied with 1 conical tip for welding, 1 air nozzle, safety cap.

In box (without gas)

**3252G 3** Each **113,00**

For BUTANE GAS aerosols see Art. 3252 G 75.

Spare conical tip for welding for Art. 3252 G 3.

**O3252G 4** Each **25,40**

Spare air nozzle for Art. 3252 G 3.

**O3252G 5** Each **24,60**

Knife nozzle for cutting thermoshrinking material for Art. 3252 G 3.

**O3252G 6** Each **34,40**


**3252G 3**

**Prod. SCU**

Professional stylus type, light and handy, with piezoelectric ignition. Use with butane, rechargeable in a few seconds. Suitable for welding and brazing. Temperature adjustable from 250 °C to 1300 °C. Operating autonomy approx. 120 minutes per charge. Total length approx. 230mm. Supplied with 1 x 2.1mm tip for cut-sealing, 1 x 1mm pointed tip, 1 air nozzle Ø 5mm, 1 cutting tip, 1 nozzle for heating, safety cap, sponge, bench stand, tray and pack of solder.

In a box (without gas).

**3252G 7** Each **235,00**

For BUTANE GAS aerosols see Art. 3252 G 75.


**3252G 7**

**Prod. SCU - Orig. Weller**

Industrial stylus type, with piezoelectric ignition and controlled temperature. Use with butane. Temperature controlled through gas inlet variations. Rapid reaching of pre-set temperature (approx. 30 seconds). Suitable for welding and brazing. Tip temperature ranges from 350 °C to 500 °C. Autonomy of operation 180 min. approx. per charge. Total length 250mm. Supplied with 1 screwdriver tip 3mm. for welding, 1 air nozzle with diameter 5.7mm, sponge, bench stand, gas aerosol and wrench.

In metal box.

**3252G 20** Each **331,00**

For BUTANE GAS aerosols see Art. 3252 G 75.

Spare screwdriver tip for welding 3mm for Art.3252 G 20.

**O3252G 21** Each **25,00**

Spare air nozzle Ø 5.7mm for Art. 3252 G 20.

**O3252G 22** Each **31,10**

Screwdriver tip for welding 5mm for Art. 3252 G 20.

**O3252G 23** Each **30,50**

Straight conical tip for welding for Art. 3252 G 20.

**O3252G 24** Each **25,00**

Curved conical tip for welding for Art. 3252 G 20.

**O3252G 25** Each **25,50**

Flat tip for welding 2mm, for Art. 3252 G 20.

**O3252G 26** Each **25,50**

Flat tip for welding 3mm, for Art. 3252 G 20.

**O3252G 27** Each **25,50**

Air nozzle Ø 1,7mm for Art. 3252 G 20.

**O3252G 28** Each **37,70**

Air nozzle Ø 7mm for Art. 3252 G 20.

**O3252G 29** Each **32,60**


**3252G 20**

**10**

**BUTANE GAS BOTTLES**
**3252G 75** **SCU**

**Prod. SCU - Orig. Weller**

Refill gas cans per Art. FL-3252 3252 G 3-3252-3252 G 7 G 20.

Contents: iso-butane gas, 75ml.

<b>3252G 75</b>	Each	<b>11,10</b>
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**STYLUS ELECTRIC SOLDERING IRONS**
**3252GC** **SCU** **CE**

**Prod. SCU - Orig. Weller**

MINI type, industrial electronics use, miniaturized printed circuits. High performance, with iron-coated copper tips for longer life and perfect efficiency.

Conform to European Safety standards. With straight tip 2 mm. 15 Watt.

Voltage V 230.

<b>3252GC</b>	Each	<b>43,50</b>
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Spare tips for Art.3252GC.

<b>O3252G</b>	Each	<b>14,80</b>
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**3252H** **SCU** **CE**

**Prod. SCU**

Suitable for electronics, electrotechnics, and repairers. V 230.

Conform to European Safety standards, GS/TÜV.

With straight tip. W 30.

<b>3252H</b>	Each	<b>9,50</b>
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(Irreplaceable resistors)

**3252S** **SCU** **CE**


Product description as Art. 3252H

With bent tip. W 40.

<b>3252S</b>	Each	<b>10,10</b>
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(Irreplaceable resistors)

**3252T** **SCU** **CE**


Product description as Art. 3252H

With bent tip. W 60.

<b>3252T</b>	Each	<b>11,70</b>
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(Irreplaceable resistors)

**3252V** **SCU** **CE**


Product description as Art. 3252H

With bent tip. W 80.

<b>3252V</b>	Each	<b>13,50</b>
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(Irreplaceable resistors)

**3252Z** **SCU** **CE**


Product description as Art. 3252H

With bent tip. W 100.

	Power	W	100
<b>3252Z</b>	Each		<b>15,30</b>

(Irreplaceable resistors)

**3252ZE** **SCU** **CE**  
*new*

**Prod. SCU - Orig. Weller**

Innovative professional model, patented, with 3 high brightness LEDs that provide optimum illumination of the spot weld. Handle rounded in soft rubbery material, triangular socket for a better control of the tip and to avoid dangerous rollings of the welder on the worktop. Ideal in the field of electronics and electro-radio engineer. With tips of copper nickel (except Art. 3252 ZH with copper tip with iron coating).

Conform to European safety standards.

With straight flat tip 2 mm. V 230 - W 15 (400° C).

<b>3252ZE</b>	Each	<b>38,80</b>
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Spare tips for Art. 3252 ZE.

In packs of 3 pieces.

<b>O3252ZE</b>	Per pack	<b>8,32</b>
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Product description as Art. 3252ZE  
With straight flat tip 0.8 mm. V 230 - W 25 (400° C).

**3252ZF** Each **39,10**

Spare tips for Art. 3252 ZF.  
In packs of 3 pieces.

**O3252ZF** Per pack **6,34**



Product description as Art. 3252ZE  
With straight flat tip 6.3 mm. V 230 - W 40 (480° C).

**3252ZG** Each **43,80**

Spare tips for Art. 3252 ZG.  
In packs of 3 pieces.

**O3252ZG** Per pack **10,60**



Product description as Art. 3252ZE  
With straight flat tip 9.5 mm. V 230 - W 80 (480° C).

**3252ZH** Each **52,60**

Spare tips for Art. 3252 ZH.

**O3252ZH** Each **14,60**



Industrial use. Suitable for electronics - radio engineering and electrotechnics. High performance, with iron-coated copper tips for longer life and perfect efficiency. Conform to European Safety standards.

With straight flat tip 1.2mm. V 230 - W 15.

**3253GA** Each **104,00**

Spare tips for Art.3253 GA.

**O3253GA** Each **10,60**

Spare resistors for Art. 3253 GA.

**O3253GAR** Each **75,70**



Product description as Art. 3253GA  
With straight flat tip 1.2mm. V 230 - W 25.

**3253GB** Each **104,00**

Spare tips for Art.3253 GB.

**O3253GB** Each **10,60**

Spare resistors for Art. 3253 GB.

**O3253GBR** Each **75,70**



Product description as Art. 3253GA  
With straight flat tip 2mm. V 230 - W 40.

**3253GC** Each **104,00**

Spare tips for Art.3253 GC.

**O3253GC** Each **11,30**

Spare resistors for Art. 3253 GD.

**O3253GCR** Each **75,70**



Product description as Art. 3253GA  
With bent flat tip 5mm. V 230 - W 80.

**3253GD** Each **120,00**

Spare tips for Art.3253 GD.

**O3253GD** Each **21,80**

Spare resistors for Art. 3253 GD.

**O3253GDR** Each **82,60**



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**3258A** SCU CE



**Prod. SCU**  
 Suitable for radio - tele - electronics and printed circuits.  
 Glass fiber shatter-proof handle.  
 With cable. Conform to current regulations.  
 For voltage 230 V.

With straight tip.

Size		<b>1</b>	<b>2</b>
Power	W	18	25
Temperature	°C	360	380
<b>3258A</b>	Each	<b>36,80</b>	<b>36,80</b>

(Irreplaceable resistors)

Spare straight tips for Art. 3258 A.

Size		<b>1</b>	<b>2</b>
<b>O3258A</b>	Each	<b>4,96</b>	<b>4,96</b>

**3258B** SCU CE



Stylus type, for Voltage 230 V.  
 Changeable power: from 20 W to 40 W. Temperature ranges from 280 °C to 460 °C. For seam welding.

Max. power delivered by pressing the button.  
 With straight tip.

<b>3258B</b>	Each	<b>41,10</b>
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(Irreplaceable resistors)

Spare straight tip for Art. 3258 B.

<b>O3258B</b>	Each	<b>4,96</b>
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**BATTERY SOLDERING IRONS**

**3258GL**  
**3258GP** SCU CE



**Prod. SCU - Orig. Weller**  
 Suitable for radio - tele - electronics and printed circuits. Useful where electric connection is difficult. Max temperature 370 °C, battery may be recharged in 12 -14 hours.  
 Power 15 W. With battery charger 220 V.  
 Soldering iron with 1.5mm tip and battery charger.

<b>3258GL</b>	Each	<b>137,00</b>
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Product running out of stock.

Spare tips 1.5mm for Art. 3258 GL.

<b>O3258GL</b>	Each	<b>27,40</b>
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Product running out of stock.

Spare battery charger for Art. 3258 GL.

<b>3258GP</b>	Each	<b>48,10</b>
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For other battery soldering iron see Art. 3252 FA.

Product running out of stock.

**ELECTRIC SOLDERING IRONS**

**3260B** SCU CE



**Prod. SCU**  
 Standard type, for discontinuos application. With flat copper torch.  
 With attachment plug. V 220.

Power	W	<b>100</b>	<b>150</b>	<b>300</b>	<b>500</b>
Copper weight	grams	100	150	300	500
<b>3260B</b>	Each	<b>32,90</b>	<b>37,20</b>	<b>48,80</b>	<b>56,50</b>

Spare resistors for Art. 3260 B.

Power	W	<b>100</b>	<b>150</b>	<b>300</b>	<b>500</b>
<b>O3260B</b>	Each	<b>9,52</b>	<b>11,10</b>	<b>12,70</b>	<b>14,80</b>

**3261A** SCU CE



Industrial type. With round copper torch and flat tip.  
 With attachment plug.  
 Conform to CEI 186/68 safety standards. V 220.

Power	W	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>300</b>
Welder weight	grams	200	250	300	500	700
Tip Ø	mm	4,5	6	11	16	20
<b>3261A</b>	Each	<b>65,10</b>	<b>75,40</b>	<b>86,60</b>	<b>175,00</b>	<b>197,00</b>

Spare resistors for Art. 3261 A.

Power	W	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>300</b>
<b>O3261A</b>	Each	<b>36,70</b>	<b>39,90</b>	<b>45,40</b>	<b>68,80</b>	<b>86,10</b>

Spare copper tips for Art. 3261 A.

Power	W	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>300</b>
<b>O3261B</b>	Each	<b>10,70</b>	<b>13,60</b>	<b>18,70</b>	<b>57,60</b>	<b>77,90</b>



Industrial type. With rectangular flat copper torch.  
With attachment plug.

Conform to CEI 186/68 safety standards. V 220.

Power	W	100	200	300	450
Welder weight	grams	500	700	900	1350
Copper dimensions	mm	5x25	10x30	10x40	10x50
<b>3261E</b>	Each	<b>69,90</b>	<b>86,60</b>	<b>105,00</b>	<b>230,00</b>

Spare resistors for Art. 3261 E.

Power	W	100	200	300	450
<b>O3261E</b>	Each	<b>24,50</b>	<b>29,80</b>	<b>36,30</b>	<b>71,20</b>

Spare copper for Art. 3261 E.

Power	W	100	200	300	450
<b>O3261F</b>	Each	<b>18,70</b>	<b>39,40</b>	<b>53,80</b>	<b>101,00</b>



**3261E**



**SOLDERING IRONS WITH CONTROLLED TEMPERATURE.**

**Prod. SCU - Orig. Weller**

Suitable for radio - tele - electronics. Temperature is controlled through built-in thermostat. Safe connections. Light weight so as not to tire the operator. Stainless steel metallic parts. For soft soldering.

V 230. Conform to European safety standards. Choice of max. working temperature: 310 or 425 °C according to the tip being used.

With 1 tip (370 °C).

Power	W	60	100	200
With straight tip width	mm	2,4	7	10
<b>3263G</b>	Each	<b>177,00</b>	<b>200,00</b>	<b>255,00</b>



**3263G**



SPARE TIPS.

Type		1	3	9	10	11	12	14	17	18	19	20
For welders Art.		3263G 60	3263G 60	3263G 60	3263G 60	3263G 60	3263G 60	3263G 60	3263G 60	3263G 60	3263G 60	3263G 60
Power	W	60	60	60	60	60	60	60	60	60	60	60
Width	mm	1,6	3,2	1,6	2,4	3,2	5	2,4	1,6	2,4	3,2	5
Working temperature	°C	310	310	370	370	370	370	370	425	425	425	425
Type of tip		straight	straight	straight	straight	straight	straight	curved	straight	straight	straight	straight
<b>O3263G</b>	Each	<b>14,30</b>	<b>17,70</b>	<b>12,20</b>	<b>12,20</b>	<b>12,20</b>	<b>12,20</b>	<b>23,10</b>	<b>14,70</b>	<b>12,20</b>	<b>12,20</b>	<b>12,20</b>

Type		23	33	36	37	38	39	42	43	44	45	54
For welders Art.		3263G 60	3263G 100	3263G 100	3263G 100	3263G 100	3263G 100	3263G 100	3263G 100	3263G 100	3263G 100	3263G 200
Power	W	60	100	100	100	100	100	100	100	100	100	200
Width	mm	3,2	3,2	3,2	5	7	3,2	3,2	5	7	3,2	7
Working temperature	°C	425	310	370	370	370	370	425	425	425	425	370
Type of tip		curved	curved	straight	straight	straight	curved	straight	straight	straight	curved	straight
<b>O3263G</b>	Each	<b>23,70</b>	<b>22,40</b>	<b>24,10</b>	<b>24,10</b>	<b>24,10</b>	<b>31,10</b>	<b>24,10</b>	<b>24,10</b>	<b>24,10</b>	<b>22,40</b>	<b>43,80</b>

Type		55	56	57	58	59	61
For welders Art.		3263G 200	3263G 200	3263G 200	3263G 200	3263G 200	3263G 200
Power	W	200	200	200	200	200	200
Width	mm	10	7	10	7	10	10
Working temperature	°C	370	370	370	425	425	425
Type of tip		straight	curved	curved	straight	straight	curved
<b>O3263G</b>	Each	<b>43,40</b>	<b>44,50</b>	<b>44,50</b>	<b>43,40</b>	<b>43,40</b>	<b>44,30</b>

Sizes 33 and 45 running out of stock.

**HIGH-SPEED SOLDERING IRONS**

**Prod. SCU**

Suitable for radio - tele - electronics. Instant heating, low consumption, with lamp and interchangeable copper tip. Plastic body.

Power W 100 - V 230. sturdy and handy.

Conform to European safety standards.

<b>3264F</b>	Each	<b>28,90</b>
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Spare tips for Art.3264 F.

<b>O3264F</b>	Each	<b>1,26</b>
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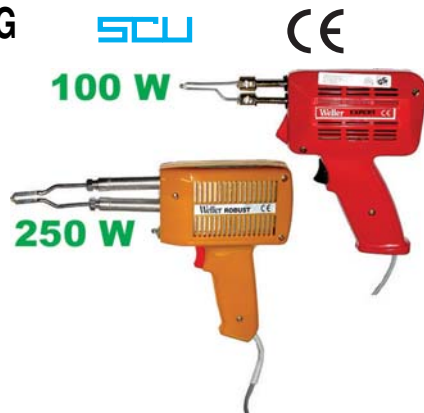


**3264F**



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3264G

**Prod. SCU - Orig. Weller**

Industrial type. Suitable for radio - tele - electronics. Instant heating, low consumption, with lamp. Copper tip easy to change. Sturdy and handy body, covered with plastic. Easy and secure soldering even in difficult positions. V 230. Conform to European safety standards.

Power	W	100	250
Weight	Kg	0,900	1,350
<b>3264G</b>	<b>Each</b>	<b>90,20</b>	<b>184,00</b>

Spare tips for welding for Art. 3264 G.

For welders	W	100	250
<b>O3264GA</b>	<b>Each</b>	<b>5,96</b>	<b>12,10</b>

The price of Art. O3264 GA x 100 refers to a 2pcs pack.

Spare tips for cutting for Art. 3264 G.

For welders	W	100	250
<b>O3264GB</b>	<b>Each</b>	<b>3,24</b>	<b>12,60</b>

Spare tips for smoothing for Art. 3264 G.

For welders	W	100	250
<b>O3264GC</b>	<b>Each</b>	<b>3,34</b>	<b>12,60</b>

3266G



Industrial type, with fittings. High speed heating and soldering.

With lamp.

With 2 interchangeable copper tips and 1 tip for plastic cutting, reel of soldering wire, 1 scribe.

With attachment plug.

Conform to European safety standards. Power W 1000 - V 230.

<b>3266G</b>	<b>Each</b>	<b>125,00</b>
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For spare tips see Art. 03264 GA - 03264 GB - 03264 GC 100 W.

**SOLDERING GUNS WITH AUTOMATIC FEED**

3266P

**Prod. SCU - Orig. Weller**

Professional gun-type with automatic feeding of soldering wire (with diameter of 1 and 1.5 mm).

To be used with one hand only. Electronic temperature control from 100 °C to 550 ° C. V 230.

Conform to European safety standards. Soldering wire to use: Sn/Pb 60/40 Art. 3361 GC/L/M.

With 1 "Longlife" tip Ø 2.5mm. and 2 wire guide tubes Ø 1 and 1.5mm.

Power	W	70
<b>3266P</b>	<b>Each</b>	<b>185,00</b>

Spare tips for Art.3266 P.

Width	mm	1	1,5	2,5	4
<b>O3266P</b>	<b>Each</b>	<b>20,20</b>	<b>20,20</b>	<b>20,20</b>	<b>20,20</b>

Spare wire guide tubes for Art. 3266P.

Ø	mm	1	1,5
<b>OT3266P</b>	<b>Each</b>	<b>22,10</b>	<b>22,10</b>

**SOLDERING WIRE DISPENSERS**

3266S

**Prod. SCU**

Bracket for soldering wires up to 2,5kg. for a wire diameter up to 2 mm. Wire is smoothly uncoiled through the mobile nozzle, thus improving the soldering efficiency.

Without reel.

<b>3266S</b>	<b>Each</b>	<b>68,50</b>
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**ANALOGIC SOLDERING STATIONS**

**Prod. SCU - Orig. Weller**

Professional type with steady temperature.  
 Suitable for soldering radio-tele-electronic connections. Autotransformer with input 230 V/output 24 V. Safe and secure. Soldering iron spring holder on a base and sponge for tip cleaning. Power 55 W.  
 Soldering iron with 3.2mm. tip: weight 100g.  
 External antistatic coating.  
 Conform to European safety standards. Max. working temperature 370 °C.  
 Transformer size: mm.116x165x101h approx.

**3267GA** Each **411,00**



Product description as Art. 3267GA

Soldering iron only W 50 - V 24.

**3267GB** Each **189,00**



For spare straight tips, length 13mm, for Art. 3267 GA / 3267 GB (new model) see Art. O3267 GZ.

Spare straight tips, length 37mm, for Art. 3267 GA / 3267 GB (old model).

Width	mm	1,6	2,4	3,2	5
<b>O3267GC</b>	<b>Each</b>	<b>10,40</b>	<b>10,40</b>	<b>10,40</b>	<b>10,40</b>

Spare tip cleaning sponges, for Art. 3267 GA - 3267 GT. Dimensions 70x55mm. In packs of 5 sponges, NOT SOLD SEPARATELY.

**O3267GD** Per pack **28,70**



**Prod. SCU**

Unsoldering unit to be used with Art. 3267 GB.

**3267GE** Each **134,00**



**Prod. SCU - Orig. Weller**

Standard type with temperature control from 200 °C to 450 °C.  
 Suitable for soldering radio-tele-electronic connections. Autotransformer with input 230 V/output 18 V. Safe and secure. Soldering iron spring holder on a base and sponge for tip cleaning. Power 40 W. Soldering iron with 2 mm. nickel-plated tip: weight 100g. Conform to European safety standards.  
 Size mm. 155x106x73h. approx.

**3267GF** Each **189,00**

Only soldering iron W 40 - V 18 for Art. 3267 GF / 3268 G.

**OS3267GF** Each **84,30**

Spare nickel-plated tips for Art. 3267 GF / 3268 G.

**O3267GF 2** Each **5,18**

Spare nickel-plated tips 3.5mm (3pcs folder) for Art. 3267 GF / 3268 G.

**O3267GF 3** Per pack **23,50**

Spare "Longlife" tips 0.4mm for Art. 3267 GF / 3268 G.

**O3267GF 5** Each **10,60**

Spare "Longlife" tips 2mm for Art. 3267 GF / 3268 G.

**O3267GF 7** Each **10,60**

Spare tip cleaning sponges, for Art. 3267 GF - 3268 G. Dimensions 35x55mm. In packs of 2 sponges, NOT SOLD SEPARATELY.

**O3267GF 9** Per pack **6,44**



Professional type, with electronic continuous control of temperature from 150 °C to 450 °C.  
 Suitable for soldering radio-tele-electronic connections. Autotransformer with input 230 V/output 24 V. Safe and secure. Soldering iron holder rest on a base and sponge for tip cleaning. Power 95 W. Soldering iron with 2.4 mm tip: weight 50g.  
 External antistatic coating.  
 Conform to European safety standards.  
 Transformer size mm. 116x165x101h approx.

**3267GT** Each **537,00**



Prices in EURO - VAT not included

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3267GV

SCU

CE



Product description as Art. 3267GT

Soldering iron only W 80 - V 24.

3267GV	Each	317,00
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Spare straight tips for soldering with pure tin, without lead, for Art. 3267 GT / 3267 GV / 3267 GA / 3267 GB.

Width	mm	0,8	1,6	2,4	3,2	4,6
O3267GZ	Each	10,40	10,40	10,40	10,40	10,40

## DIGITAL SOLDERING STATIONS

3268G

SCU

CE



Prod. SCU - Orig. Weller

Standard type, with electronic continuous control of temperature from 150 °C to 450 °C.

Suitable for soldering radio-tele-electronic connections. Both actual tip temperature and set temperature are shown on the display. Autotransformer with input 230 V/output 18 V. Safe and secure. Soldering iron spring holder on a base and sponge for tip cleaning. Power 40 W.

Soldering iron with 2 mm. "Longlife" tip: weight 100g. Conform to European safety standards.

Size mm. 155x106x73h. approx.

3268G	Each	278,00
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For spare soldering iron complete with cable see Art. OS3267 GF.

For spare tips see Art. O3267 GF 2-3-5-7.

For spare pads see Art. O3267 GF 9.

3268L

SCU

CE



Prod. SCU

Professional type with electronic continuous control of temperature from 150 °C to 480 °C.

Suitable for electric/electronic soldering. Both actual tip temperature and set temperature are shown on the display. Autotransformer with input 230 V/output 24 V. Safe and secure. Soldering iron holder on a base and sponge for tip cleaning. Power 60 W. Supplied with 0.8 mm. "Longlife" tip. Conform to European safety standards.

Transformer size mm. 133x130x100h approx.

3268L	Each	317,00
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3268L 1

SCU

CE



Product description as Art. 3268L

Soldering iron only W 55 - V 24.

3268L 1	Each	77,10
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Spare straight tips for Art. 3268 L / 3268 L 1.

Width	mm	0,2	0,8	1,6	2,8
O3268L	Each	9,54	9,54	9,54	9,54

Spare tip cleaning sponges, for Art. 3268 L - 3268 P - 3268 T - 3268 V. Dimensions Ø 55mm. In packs of 5 sponges, NOT SOLD SEPARATELY.

O3268L 3	Per pack	12,20
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3268P

SCU

CE



Industrial sturdy type with electronic continuous control of temperature from 150 °C to 480 °C.

Suitable for electric/electronic soldering. Both actual tip temperature and set temperature are shown on the display. Autotransformer with input 230 V/output 24 V. Safe and secure. Soldering iron holder on a base and sponge for tip cleaning. Power 75 W. Supplied with 2.5 mm. "Longlife" tip. Conform to European safety standards.

Transformer size mm. 133x155x115h approx.

3268P	Each	360,00
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3268P 1

SCU

CE



Product description as Art. 3268P

Soldering iron only W 70 - V 24.

3268P 1	Each	77,10
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Spare straight tips for Art. 3268 P/ 3268 P 1.

Width	mm	1	1,5	4
O3268P	Each	11,10	11,10	11,10

For spare sponges see Art. O3268 L 3.

Industrial model, very sturdy construction, with electronic temperature control and continuous adjustment from 50°C to 450°C.

For any electrical/electronic welding.

The actual temperature of the tip and the set temperature are shown on the display.

With autotransformer input 230 V output 24 V. No danger to the operator.

Complete with holder on base and sponge for cleaning tips. Power 95 W.

Weight of welder with 2.4 mm iron tip: 50 g. Antistatic outer coating.

Built in accordance with European safety standards.

Dimensions of transformer approx. mm 116x165x101 H.

**3268R** Each **654,00**

For welder and spare tips see Art. 3267 GV and GZ O3267 from 0.8 to 4.6.



**ELECTRIC UNSOLDERING IRONS**

**Prod. SCU**

Suitable for unsoldering electronic parts from printed circuits.

It may be operated with one hand only.

Start button for melted solder suction.

Voltage 230 V. Power 40 W. Nozzles Ø 1 and 1.3mm.

Conform to European safety standards.

**3268S** Each **78,70**

Spare nozzles for Art. 3268 S.

Ø	mm	<b>1</b>	<b>1,3</b>
<b>O3268S</b>	Each	<b>5,14</b>	<b>5,14</b>



**ANALOGIC UNSOLDERING UNITS**

**Prod. SCU**

Professional heavy-duty type with electronic continuous control of temperature from 0 °C to 500 °C.

Huge thermal capacity. Voltage 230 V. Power 170 W. With motor-driven suction pump controlled by a button placed on the handle. With 4 nozzles Ø 0.7-1-1.3-1.8mm. Conform to European safety standards.

Size approx. mm. 133x155x113h

**3268T** Each **445,00**



Product description as Art. 3268T

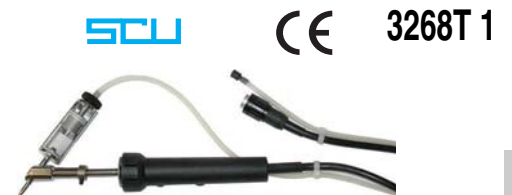
Soldering iron only W 80 - 230 V.

**3268T 1** Each **167,00**

Spare nozzles for Art. 3268 T / 3268 T 1.

Ø	mm	<b>0,7</b>	<b>1</b>	<b>1,3</b>	<b>1,8</b>
<b>O3268T</b>	Each	<b>5,14</b>	<b>5,14</b>	<b>5,14</b>	<b>5,14</b>

For spare sponges see Art. O3268 L 3.



**DIGITAL DESOLDERING UNITS**

**Prod. SCU**

Industrial, heavy-duty type with electronic continuous control of temperature from 150 °C to 480 °C. Suitable for any tin unsoldering. Huge thermal capacity. Voltage 230 V. Power 190 W. With motor-driven suction pump controlled by a button placed on the handle. With basement and sponge for nozzle cleaning.

With nozzles Ø 0.7-1-1.3-1.8mm. Conform to European safety standards.

Size approx. mm 133x275x115h.

**3268V** Each **787,00**



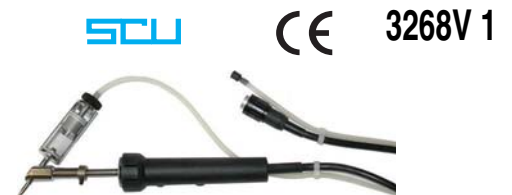
Product description as Art. 3268V

Soldering iron only W 100 - 240 V.

**3268V 1** Each **167,00**

For spare nozzles see Art. O3268 T mm 0.7 - 1 - 1.3 - 1.8.

For spare pads see Art. O3268 L 3.



**SUCTION PUMPS**
**3268VT****SCU****Prod. SCU**

Standard model.

Suitable for radio-tele-electronics and printed circuits.

For sucking solder from connections by means of an electric soldering iron.

Teflon tip, body in antistatic plastic material.

<b>3268VT</b>	Each	<b>21,90</b>
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Spare Teflon tips for Art. 3268 VT.

<b>O3268VT</b>	Each	<b>5,16</b>
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**3268Z****SCU**

Professional type.

Suitable for radio-tele-electronics and printed circuits.

For sucking solder from connections by means of an electric soldering iron.

PTFE interchangeable tip.

<b>3268Z</b>	Each	<b>19,70</b>
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Spare PTFE tips for Art. 3268 Z.

<b>O3268Z</b>	Each	<b>2,60</b>
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ESD antistatic/dissipating tips for Art. 3268 Z.

<b>O3268ZA</b>	Each	<b>3,02</b>
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**3268ZE****SCU**

Industrial model.

Suitable for radio-tele-electronics and printed circuits.

For sucking solder from connections by means of an electric soldering iron.

Teflon tip, body in antistatic aluminium.

<b>3268ZE</b>	Each	<b>37,40</b>
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Spare Teflon tips for Art. 3268 ZE.

<b>O3268ZE</b>	Each	<b>10,70</b>
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**ELECTRODE ARC-WELDING MACHINES**
**3269B****SCU****IP21****CE****Prod. SCU**

Portable electric arc-welding machines, with monophasic alternate current. Conform to European specifications EN 60974-6/ EN 60974-10. Forced air-cooling. Continuous current control by means of a graduated scale knob. Thermostatic protection against overloads. Voltage 230-400 V - 50Hz. Loadless voltage 48 V. Class H insulation. Protection IP 21. For rutile-coated electrode welding of soft steels, iron, steel plates etc.

Max absorbed power by	kW	2,5 to 4,5
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Min= max electrode	mm	2-4
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Min/max current regulation	A	55-150
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Weight approx.	Kg	19
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Dimensions	mm	420x280x330h
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<b>3269B</b>	Each	<b>294,00</b>
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For electrode holders, clamps and connectors see from Art. 3277 to 3284.

For kit cables, clamps, yoke, helmet etc. see Art. 3290.

Product running out of stock.

**3270****SCU****IP21****CE**

Professional electric arc-welding machines with trolley, with monophasic alternate current.

Compliant with European specifications EN 60974-6/ EN 60974-10. Forced air-cooling for continuous use. Continuous current control by means of a graduated scale knob. Thermostatic protection against overloads. Voltage 230-400 V - 50 Hz. Loadless voltage 50-70 V. Insulation class H. Protection IP 21. For strong rutile coated electrode welding of steel and steel alloys, iron, steel plates, etc.

Max absorbed power by	kW	5,5
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Min= max electrode	mm	1,6-5
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Min/max current regulation	A	40-210
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Weight approx.	Kg	39
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Dimensions	mm	500x310x450h
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<b>3270</b>	Each	<b>522,00</b>
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For electrode holders, clamps and connectors see from Art. 3277 to 3284.

For kit cables, clamps, yoke, helmet etc. see Art. 3290.

Product running out of stock.

**INVERTER WELDING MACHINES**

**Prod. SCU**

Professional portable electric welding machines, monophasic alternate current. Conform to European specifications EN 60974-1/EN 60974-10. Forced-air cooling for non-stop use. Continuous current control by means of a graduated scale knob. Automatic protection against overheating with automatic reset. Voltage 230 V - 50/60 Hz. SCHUKO plug. Loadless voltage 70V. Class H insulation. Suitable for welding with all kinds of electrodes (except those containing cellulose). Supplied with transport case, helmet with adiacinic glass, welding cap and brushes, electrode holder and earth clamp with 3 + 2m cable cross section 16mm<sup>2</sup> and joints Ø 25mm.

Max absorbed power by	kW	2
Min-max electrode	mm	1,6-3,2
Min/max current regulation	A	10-140
Weight approx.	Kg	4,5
Dimensions	mm	130x270x225h
<b>3271A</b>	<b>Each</b>	<b>602,00</b>



Professional electric welding machines, with monophasic alternate current. Compliant with European specifications EN 60974-1/ EN 60974-10. Forced air-cooling for continuous use. Continuous electronic current control by means of a graduated scale knob. Automatic protection against overheating with automatic reset. Voltage 230 V - 50/60 Hz. SCHUKO type plug. Loadless voltage 80 V. Insulation class H. For welding using all types of electrode (excluding those containing cellulose). Supplied with helmet with adiacinic glass, welding cap and brushes, electrode holder and earth clamp with 3 + 2m cable cross section 16mm<sup>2</sup> and joints Ø 25mm.

Max absorbed power by	kW	3,5
Min-max electrode	mm	1,6-4
Min/max current regulation	A	10-160
Weight approx.	Kg	4,8
Dimensions	mm	135x370x260h
<b>3271E</b>	<b>Each</b>	<b>739,00</b>



The technical characteristics of Art. 3271 A - E are subject to possible changes by the manufacturer.

Professional electric welding machines, monophasic alternate current. Conform to European specifications EN 60974-1/EN 60974-10. Forced-air cooling for non-stop use. Continuous current control by means of a graduated scale knob. INVERTER full bridge configuration. Remote control with 5m extension for potentiometer control. Voltage 230 V - 50/60 Hz. SCHUKO plug. Loadless voltage 65/70V. Class H insulation. Degree of protection: IP 23. Suitable for welding with all kinds of electrodes (except those containing cellulose). Supplied with helmet with adiacinic glass, welding cap and brushes, electrode holder and earth clamp with 3 + 2m cable cross section 25mm<sup>2</sup> and joints Ø 50mm.

Max absorbed power by	kW	6,9
Min-max electrode	mm	1,6-5
Min/max current regulation	A	5-200
Weight approx.	Kg	9,5
Dimensions	mm	135x390x280
<b>3271L</b>	<b>Each</b>	<b>1.380,00</b>



Product running out of stock.

10

**WELDING ELECTRODES**

**Prod. SCU**

Rutile-coated type, according to E 6013 specification. Suitable for welding iron, building steel, pressurized reservoirs etc. Suitable for welding machines Art. 3269 B a 3271 L and portable welding machine with standard voltage (45 V min.). In packing units, not sold separately.

Ø	mm	1,5	2	2,5	3,25	4
Length	mm	300	300	300	450	450
Indivisible pck.	Pz	250	400	250	150	100
Pck. weight	Kg	1,8	4,3	4,2	6,5	6,4
<b>3272A</b>	<b>Per pack</b>	<b>43,20</b>	<b>42,10</b>	<b>29,50</b>	<b>51,50</b>	<b>48,70</b>



Basic coating type, according to 7018-S1 specification. Suitable for strong welding of iron, steel, steel alloys etc. for heavy carpentry such as shipbuilding, heavy vehicles etc.. For welding machines Art. 3270 a 3271 L and high voltage welding machines (70 V min.) In packing units, not sold separately.

Ø	mm	2	2,5	3,25	4
Length	mm	300	300	450	450
Indivisible pck.	Pz	400	250	150	100
Pck. weight	Kg	4,8	4,3	6,0	6,0
<b>3272B</b>	<b>Per pack</b>	<b>79,10</b>	<b>49,90</b>	<b>63,20</b>	<b>57,40</b>



**3272E** SCU INOX


Type with Rutile coating with very low Carbonium level. Suitable for welding INOX, AISI 347 - 321 - 308 - 304L - 304 - 302 - 301. Suitable for welding machines Art. 3270 to 3271 L and high voltage welding machines (50 V mon.) both with direct and alternate current. In packing units, not sold separately.

Ø	mm	2	2,5	3,25
Length	mm	300	300	350
Indivisible pck.	Pz	240	142	77
Pck. weight	Kg	2,5	2,5	2,5
<b>3272E</b>	<b>Per pack</b>	<b>114,00</b>	<b>91,20</b>	<b>90,50</b>

**3272L** SCU INOX


Titanium-coated model with very low carbon content. Suitable for welding STAINLESS steel AISI 316 - 316L - 202 - 317.

To be used with welding machines Art. 3270 to 3271 L and high voltage welding machines, (min. 50 V) both direct and alternate current. In packing units not sold separately.

Ø	mm	2	2,5	3,25
Length	mm	300	300	350
Indivisible pck.	Pz	240	142	77
Pck. weight	Kg	2,5	2,5	2,5
<b>3272L</b>	<b>Per pack</b>	<b>127,00</b>	<b>110,00</b>	<b>107,00</b>

**3272R** SCU INOX


Basic-coated model with low carbon content. Suitable for welding STAINLESS steel AISI 309 - 309S - 310 310S with standard steel in dissimilar welding.

To be used with welding machines Art. 3270 to 3271 L and high voltage welding machines, (min. 50 V) both direct and alternate current. In packing units not sold separately.

Ø	mm	2,5	3,25
Length	mm	300	350
Indivisible pck.	Pz	142	77
Pck. weight	Kg	2,5	2,5
<b>3272R</b>	<b>Per pack</b>	<b>167,00</b>	<b>177,00</b>

**ELECTRODE-HOLDERS**
**3277** SCU

**Prod. SCU**

Straight type with electrode-holder jaws. Made of heavy brass. Totally insulated.

Cable connection inside the handle. Electrodes may be clamped in any direction. Conform to European specifications EN 60974-11.

Size		200	350	500	700
Capacity at 60%	A	150	200	250	300
For electrodes up to Ø	mm	3,2	3,2	5	6,3
Max cable section Ø	mm <sup>2</sup>	25	35	50	70
<b>3277</b>	<b>Each</b>	<b>10,70</b>	<b>14,50</b>	<b>17,20</b>	<b>20,90</b>

**3277G** SCU


Straight type with electrode-holder jaws. Totally insulated. Handle is made of special sintered material, fire-proof, shatter-proof with high insulating power.

Jaws are externally insulated through a thick protection. Strong spring. Conform to European specifications EN 60974-11.

Fine max load capacity	A	200	300	400	600
For electrodes up to Ø	mm	3	4	4	6
<b>3277G</b>	<b>Each</b>	<b>13,70</b>	<b>15,40</b>	<b>18,50</b>	<b>22,30</b>

Insulated protections for Art. 3277 G.

Fine max load capacity	A	200	300	400	600
<b>O3277G</b>	<b>Per pair</b>	<b>2,76</b>	<b>4,02</b>	<b>4,02</b>	<b>4,98</b>

**3277S** SCU


Straight type with electrode-holder hole. Totally insulated, including the lever.

Fiber-glass handle and tip with strongly insulated head.

Conform to European specifications EN 60974-11.

Size		300	400	500	600
Capacity at 60%	A	150	200	250	300
For electrodes up to Ø	mm	3,2	4	5	6,3
Max cable section Ø	mm <sup>2</sup>	25	35	50	70
<b>3277S</b>	<b>Each</b>	<b>19,90</b>	<b>22,40</b>	<b>25,40</b>	<b>27,50</b>

**3277V** SCU


Bent type with electrode-holder hole. Made of brass. Totally insulated.

Cable locking ring. Conform to European specifications EN 60974-11.

Size		400	600
Capacity at 60%	A	200	300
For electrodes up to Ø	mm	4	6,3
Max cable section Ø	mm <sup>2</sup>	35	70
<b>3277V</b>	<b>Each</b>	<b>45,50</b>	<b>52,30</b>



**CABLE LUGS AND EARTH CLAMPS**
**Prod. SCU**

Brass cable lugs


**3278**

Capacity	mm2	16	35	50	75	100
For cable Ø	mm	5	6	8	12	13
For screws Ø	M.	8	12	12	12	12
<b>3278</b>	<b>Each</b>	<b>1,74</b>	<b>2,42</b>	<b>4,26</b>	<b>5,40</b>	<b>4,94</b>



Product running out of stock.

Nickel-plated brass lugs.

Straight terminal.


**3278A**
*new*

Capacity	mm2	16	25	35	50	75	100
For cable Ø	mm	5,1	6,3	7,5	9,5	11	13
Bore Ø for screws	mm	8,5	8,5	10,5	10,5	13,25	14,3
Number of bolts	No.	2	2	2	4	4	4
<b>3278A</b>	<b>Each</b>	<b>1,76</b>	<b>2,04</b>	<b>2,36</b>	<b>3,84</b>	<b>4,70</b>	<b>4,94</b>



Spring clamps made of die-cast brass.

For the seizing of both plates and tubes with small diameters.

Conform to European specifications BS638-5.


**3279**

Size		300	650
Capacity at 60%	A	200	400
Max cable section Ø	mm2	50	95
Grip max.	mm	55	65
<b>3279</b>	<b>Each</b>	<b>11,50</b>	<b>19,40</b>



Spring clamps made of stamped and treated plate.

Internal copper wires. Conform to European specifications BS638-5.


**3279S**

Size		350	500	650	800
Capacity at 60%	A	250	300	500	650
Max cable section Ø	mm2	50	70	95	120
Grip max.	mm	74	74	80	80
<b>3279S</b>	<b>Each</b>	<b>9,66</b>	<b>12,60</b>	<b>17,50</b>	<b>19,50</b>



Screw clamps made of brass. Jaws opening up to 38mm. Conform to European specifications BS638-5.


**3281**

Capacity at 60%	A	300
Max cable section Ø	mm2	50
<b>3281</b>	<b>Each</b>	<b>25,30</b>



Screw clamps, heavy finish. Brass arc.

Conform to European specifications BS638-5.


**3281A**

Capacity at 60%	A	400	700
Max cable section Ø	mm2	85	120
Opening up to	mm	60	100
<b>3281A</b>	<b>Each</b>	<b>40,70</b>	<b>59,40</b>



Screw clamps with hollow hooking coated with insulating rubber.

Jaws opening up to 35mm. Total length 160mm.

Conform to European specifications BS638-5.


**3281E**

Capacity at 60%	A	500
Max cable section Ø	mm2	95
<b>3281E</b>	<b>Each</b>	<b>21,40</b>


**PANEL SOCKETS**
**Prod. SCU**

Made of brass. Coated with insulating material. Bayonet joint.


**3282R**

Male.

Max cable section Ø	mm2	25	70	95
Capacity at 60%	A	200	400	500
Jack length	mm	12	19	19
<b>3282R</b>	<b>Each</b>	<b>4,86</b>	<b>9,30</b>	<b>9,98</b>



Product description as Art. 3282R


**3282S**

Female.

Max cable section Ø	mm2	25	70	95
Capacity at 60%	A	200	400	500
<b>3282S</b>	<b>Each</b>	<b>2,54</b>	<b>5,22</b>	<b>6,66</b>



## CABLE CONNECTORS

3283

SCU



## Prod. SCU

Made of brass. Coated with insulating material. Bayonet joint.  
Conform to European specifications EN 60974-12.

Male.

Max cable section Ø	mm2	25	50	70	95
Capacity at 60%	A	200	300	400	500
Jack length	mm	12	19	19	19
	<b>3283</b>	<b>Each</b>	<b>2,54</b>	<b>5,64</b>	<b>7,66</b>

3284

SCU



Product description as Art. 3283

Female.

Max cable section Ø	mm2	25	50	70	95
Capacity at 60%	A	200	300	400	500
	<b>3284</b>	<b>Each</b>	<b>2,92</b>	<b>5,76</b>	<b>7,66</b>

## WELDING KIT

3290

SCU



## Prod. SCU

The kit contains:

- 1 electrode holder - A 150 complete with 3 m flexible cable 10mm<sup>2</sup> and cable lugs
  - 2 connectors Art. 3283x25
  - 1 earth clamp complete with 2 m flexible cable 10mm<sup>2</sup> and cable lugs
  - 1 welding hammer
  - 1 brush
  - 1 safety screen
  - 1 transparent safety glass 75x98mm
  - 1 coloured protective adiacinic glass 75x98mm
- Complete set.

	<b>3290</b>	<b>Each</b>	<b>62,60</b>
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## MAGNETIC SETSQUARES

3295A




## Orig. Peddinghaus

Fixed type. Sturdy steel sheet body, U-shaped section.

Allows coupling of any shape for easier welding or working without manual holding/fixing.  
Positioning them on different sides allows angles of 30° - 45° - 60° - 90° - 180°.

With 2 riveted side holes to allow the magnets to be connected in sets using screws.

Without magnet disconnection switch and central hole for an easier disconnection.

Length	mm	50	100
Height	mm	60	110
Diagonal	mm	70	110
Max magnetic force	Kg	5 to 12	25 to 36
Supplier code		0034660000	0346000000
	<b>3295A</b>	<b>Each</b>	<b>12,10</b>

Size mm 50 running out of stock.

3295E




Fixed type. Sturdy steel sheet body, U-shaped section.

Allows coupling of any shape for easier welding or working without manual holding/fixing.  
Positioning them on different sides allows angles of 45° - 90°.

With 2 riveted side holes to allow the magnets to be connected in sets using screws.

With magnet disconnection switch.

Length	mm	95	130
Height	mm	110	150
Diagonal	mm	100	140
Max magnetic force	Kg	31,5 to 36	54 to 63,5
Supplier code		0046000000	0048000000
	<b>3295E</b>	<b>Each</b>	<b>44,10</b>

Magnetic force varies according to the length of the used side.

**Prod. SCU**

Adjustable model. Ferrite magnets with high grip.  
Allow you to match bodies of any form for convenient processing or welding, without manual intervention.

Arms tilting from 45° to 90° with references at 60° and 75°.  
Max. magnetic force 250 N. Dimensions 115x115x35mm. Weight 1.5 Kg.

<b>3295L</b>	Each	<b>102,00</b>
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**3295L**

Adjustable angle



**SOLDER WIRE**

**Prod. SCU**

Solder wire with internal deoxidizer DIN EN 29453 (DIN 8516).  
For quick and tough, tin and plub soldering, without acids nor deoxidizers.  
Melting temperature: 183 °C - 235 °C.  
Alloy 40% of tin. Spools of 1 m approx.

Wire Ø	mm	<b>1,5</b>	<b>2</b>
<b>3361GA</b>	Each	<b>1,62</b>	<b>1,26</b>



**3361GA**



Solder wire with internal deoxidizer DIN EN 29453 (DIN 8516).  
For quick and tough, tin and plub soldering, without acids nor deoxidizers also in electric and electronic applications. Melting temperature: 183 °C - 190 °C.  
Alloy 60% of tin. Spools of 1 m approx.

Wire Ø	mm	<b>1</b>	<b>1,5</b>	<b>2</b>
<b>3361GB</b>	Each	<b>1,62</b>	<b>1,80</b>	<b>1,62</b>



**3361GB**



Solder wire with internal deoxidizer DIN EN 29453 (DIN 8516).  
For quick and tough, tin and plub soldering, without acids nor deoxidizers.  
Melting temperature: 183 °C - 235 °C.  
Alloy 40% of tin. In package units of 1 kg (corresponding to 4 skeins of kg 0.250).

Wire Ø	mm	<b>1</b>	<b>1,5</b>	<b>2</b>	<b>3</b>
<b>3361GC</b>	Per Kg	<b>56,20</b>	<b>55,30</b>	<b>54,60</b>	<b>54,40</b>



**3361GC**



Solder wire with internal deoxidizer DIN EN 29453 (DIN 8516).  
For quick and tough, tin and plub soldering, without acids nor deoxidizers.  
Melting temperature: 183 °C - 190 °C.  
Alloy 60% of tin. In package units of 1 kg (corresponding to 4 skeins of kg 0.250).

Wire Ø	mm	<b>1</b>	<b>1,5</b>	<b>2</b>	<b>3</b>
<b>3361GL</b>	Per Kg	<b>71,90</b>	<b>71,00</b>	<b>70,30</b>	<b>70,20</b>



**3361GL**



Solder wire with internal deoxidizer DIN EN 29453 (DIN 8516).  
For quick and tough, tin and plub soldering, without acids nor deoxidizers also in electric and electronic applications. Melting temperature: 183 °C - 190 °C.  
Alloy 60% of tin. In package units of 1 kg (corresponding to 4 skeins of kg 0.250).

Wire Ø	mm	<b>0,5</b>	<b>0,75</b>	<b>1</b>	<b>1,5</b>	<b>2</b>
<b>3361GM</b>	Per Kg	<b>98,80</b>	<b>80,20</b>	<b>71,90</b>	<b>71,00</b>	<b>70,30</b>



**3361GM**



Solder wire with internal deoxidizer DIN EN 29453 (DIN 8516).  
Soldering with lead alloy 70% .  
For quick soldering of tubes, lead sheets, lead-covered electrical and telephone cables.  
Easy to melt, slide and lay down. Melting temperature: 183 °C - 255 °C.  
Wire diameter 5mm. In skeins of 1kg.

<b>3361GP</b>	Per Kg	<b>37,20</b>
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**3361GP**



Solder wire, pure tin 99,9%. For lead-free soldering. Melting temperature: 232 °C. Wire diameter 2mm. In skeins of 1kg.

<b>3361GS</b>	Per Kg	<b>101,00</b>
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**3361GS**



Tin alloy. In bars, soldering DIN EN 29453 (DIN 8516), length 400mm.

Tin alloy %	<b>40</b>	<b>60</b>	<b>90</b>	
Fusion temperature °C	183-235	183-190	232	
<b>3362G</b>	Per Kg	<b>40,20</b>	<b>57,10</b>	<b>90,10</b>



**3362G**



## SOFT SOLDER FLUXES

3363G SCU



Prod. SCU

Liquid solder DIN EN 29454.1 apt for soldering different types of materials, steel, zinc, copper, brass, tin, etc. Water soluble. To be applied with the supplied brush. In plastic boxes.

Weight	grams	100	250	500	1000
3363G	Each	5,20	6,82	9,86	13,30

## SOLDERING FLUID

3364G SCU



Prod. SCU

Soldering fluid paste without deoxidizer DIN EN 29453. Alloy 40% of tin. Melting temperature: 183 °C - 235 °C. In plastic boxes.

Weight	grams	100	250	1000
3364G	Each	9,68	16,50	50,20

3364GL SCU



Soldering fluid paste DIN EN 29453 with pure tin 99,9%. Melting temperature: 232 °C. In plastic boxes of 1000g.

3364GL	Each	101,00
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## SALAMMONIAC SOLDERING STONES

3368G SCU



Prod. SCU

For tin soldering. Special sal ammoniac stone to deoxidize copper solders. In pressed stones.

Weight	grams	80	160	500
3368G	Each	1,40	1,94	5,92

## SPECIAL TIN SOLDERING PASTE

3371G SCU



gr. 70

gr. 250

gr. 500



Prod. SCU

For tin soldering without acids or deoxidizer. Always ready for use. Time and air contact do not alter it.

Weight	grams	70	100	250	500
3371G	Each	3,94	2,88	5,20	10,40
	Package	tube	box	box	can

**SOLDERING BARS FOR POLYPROPYLENE AND PVC**
**Prod. SCU**

In 1kg bundles of ca. 1m bars.  
 Can be used with welder Art. 3250 GA - B - D - E - 3251 - 3251 E - 3251 S - 3252.  
 PVC section Ø 3mm, grey.

<b>3378A</b>	Per Kg	<b>25,70</b>
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**3378A**


Product description as Art. 3378A

Polypropylene with flat section 3x5mm, beige.

<b>3378C</b>	Per Kg	<b>37,10</b>
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**3378C**


Product description as Art. 3378A

PVC with flat section 3x5mm, grey.

<b>3378E</b>	Per Kg	<b>25,70</b>
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**3378E**

**SOLDERING BARS**
**Prod. SCU**

Soldering bars in brass alloy have suitable internal deoxidizer.  
 For steel, brass, copper and its alloys, nickel. Operating temperature: 900 °C.  
 Length: 500mm.

<b>3379GB</b>	Per Kg	mm	<b>2,5</b>	<b>4</b>
			<b>44,90</b>	<b>42,10</b>


**3379GB**


Soldering bars in brass alloy have suitable external deoxidizer.  
 For steel, brass, copper and its alloys, nickel. Operating temperature: 900 °C.  
 Length: 500mm.

<b>3379GF</b>	Per Kg	mm	<b>2,5</b>	<b>4</b>
			<b>48,50</b>	<b>48,50</b>


**3379GF**


Soldering bars in nickel have suitable external deoxidizer.  
 For steel, cast iron, nickel and its alloys. Operating temperature: 910 °C.  
 Length 500mm.

<b>3379GP</b>	Per Kg	mm	<b>2,5</b>	<b>4</b>
			<b>59,20</b>	<b>60,80</b>


**3379GP**

**WELDING POWDERS**
**Prod. SCU**

Powder DIN EN 1045. For soldering copper, brass, bronze and steel. Indicated for mounting plates of Widia and other hard metal. Operating temperature range: 750 °C - 1100 °C. In plastic boxes of 500g.

<b>3380GB</b>	Each	<b>20,10</b>
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**3380GB**

**PROTECTIVE SHIELDS**
**Prod. SCU**

Apt for welders. With green adiactinic lens 75X98mm.  
 Inclined model.  
 To be handled, in fibre, light and handy.  
 In compliance with the European regulation currently in force.  
 Dimensions: 390x240mm.

<b>3381</b>	Each	<b>11,84</b>
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**3381**


**3381F** SCU

Product description as Art. 3381

Inclined model.

To be handled, in thermoplastic material reinforced by very sturdy and rigid glass fibre. In compliance with the European regulations currently in force.

Dimensions: 400x245mm.

<b>3381F</b>	Each	<b>25,14</b>
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**3381L** SCU

Product description as Art. 3381

Straight model.

To be handled, in sturdy and rigid thermoplastic material.

In compliance with the European regulations currently in force.

Dimensions: 400x240mm.

<b>3381L</b>	Each	<b>5,94</b>
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**3382** SCU

Product description as Art. 3381

Straight model.

To be handled, in fibre, light and handy.

In compliance with the European regulations currently in force.

Dimensions: 380x250mm.

<b>3382</b>	Each	<b>7,50</b>
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### PROTECTIVE HELMETS

**3383** SCU**Prod. SCU**

High insulation, apt for welders. With green adiactinic lens 75X98mm.

Helmet model, in fibre, light and handy. In compliance with the European regulations currently in force.

Dimensions: 320x200mm.

<b>3383</b>	Each	<b>18,44</b>
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**3383V** SCU

Product description as Art. 3383

Helmet model, in thermoplastic material reinforced by glass fibre.

In compliance with the European regulations currently in force.

Dimensions: 330x230mm.

<b>3383V</b>	Each	<b>21,04</b>
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**3383Z** SCU

Product description as Art. 3383

Helmet model. In thermoplastic material reinforced by glass fibre.

With tiltable adiactinic lense and fixed transparent lense.

In compliance with the European regulations currently in force.

Dimensions: 330x230mm (with 2 lens).

<b>3383Z</b>	Each	<b>40,68</b>
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**ADIACINIC LENSES**
**Prod. SCU**

Apt for shield and helmets from Art. 3381 to Art. 3383 Z. Dimensions: 75x98mm.  
In compliance with the European regulations currently in force.

Adiactinic type.

Shade: DIN 10 light green.

**3385A** Each **0,64**


**3385A**


CE

Product description as Art. 3385A

Adiactinic type.

Shade: DIN 11 medium green.

**3385C** Each **0,64**


**3385C**


CE

Product description as Art. 3385A

Adiactinic type.

Shade: DIN 12 dark green.

**3385D** Each **0,64**


**3385D**


CE

Product description as Art. 3385A

Adiactinic type.

Shade: DIN 103 very dark green.

**3385E** Each **0,64**


**3385E**


CE

Product description as Art. 3385A

Adiactinic mirror type.

Shade: DIN 10 light green.

**3385L** Each **1,86**


**3385L**


CE

Product description as Art. 3385A

Adiactinic mirror type.

Shade: DIN 11 medium green.

**3385P** Each **1,86**


**3385P**


CE

Product description as Art. 3385A

Adiactinic mirror type.

Shade: DIN 12 dark green.

**3385R** Each **1,86**


**3385R**


CE

Product description as Art. 3385A

Adiactinic mirror type.

Shade: DIN 13 very dark green.

**3385S** Each **1,86**


**3385S**


CE

Product description as Art. 3385A

Transparent type. Package contains 100 pcs.

**3385T** Each **0,14**


**3385T**


CE

**PROTECTIVE MASKS WITH INTERCHANGEABLE BATTERIES**
**Orig. Ewo - Art. E 26710**

Professional model high technology, latest generation with 2 INTERCHANGEABLE lithium BATTERIES 3 V (CR 2032 art. 3600 T), supplied. Fitted with solar cells that do not require maintenance.

LCD screen with special filters to protect from UV and IR, in synthetic fibre reinforced special and adjustable headband, particularly sturdy, protective, comfortable with sweat band. Test button function, adjustable sensitivity and reaction to the delay light.

Temperature range from -5° C to +55° c. 100 x 50 mm field of view.

Dimensions: height 230 mm, width 230 mm, 340 mm depth.

In conformity with the European norms.

Auto-dimming model regulating potentiometer accurately and continuously the degree of darkening from DIN 9-13 + DIN fixed 4 (minimum dimming). Suitable for all models of electrode welding, MIG/MAG/TIG, etc.

Weight 485 g.

Natural black.

**3386GR** Each **165,00**


**3386GR**
**3386GT**

**3386GR**
**3386GT**

CE

**Orig. Ewo - Art. E 26720**

Product description as Art. 3386GR

Metallic blue.

**3386GT** Each **180,00**

## SPARE PARTS FOR PROTECTION VISORS

- 3387**   **Prod. SCU**  
 With framed shield in carborock.  
 Plastic, adjustable, supporting helmet.  
 Dimensions: 330x220x180mm approx.  
 In compliance with the European regulations currently in force.
- |             |      |              |
|-------------|------|--------------|
| <b>3387</b> | Each | <b>36,70</b> |
|-------------|------|--------------|
- Spare shields for Art. 3387.
- |              |      |              |
|--------------|------|--------------|
| <b>O3387</b> | Each | <b>20,00</b> |
|--------------|------|--------------|
- 
- 3387A**   **Prod. SCU**  
 With framed shield in acetylcellulose, anti-scratch, anti-fog, high protection. Plastic adjustable supporting helmet. Dimensions: 330x220x180mm approx. In compliance with the European regulations currently in force.
- |              |      |              |
|--------------|------|--------------|
| <b>3387A</b> | Each | <b>57,30</b> |
|--------------|------|--------------|
- Spare shields for Art. 3387 A.
- |               |      |              |
|---------------|------|--------------|
| <b>O3387A</b> | Each | <b>40,40</b> |
|---------------|------|--------------|

## SPARE PARTS FOR PROTECTION GOGGLES

- 3387A 3**   **Prod. SCU**  
 One-lens type, completely in polycarbonate, anti-scratch, light and comfortable.  
 Wide field of view and very good protection against UV rays. Soft non-slip rubber nose pads.  
 Legs with holes for neck cord.  
 In conformity with the European norms.  
 Transparent lens and frame.
- |                |      |             |
|----------------|------|-------------|
| <b>3387A 3</b> | Each | <b>7,00</b> |
|----------------|------|-------------|
- 
- 3387A 5**   **Prod. SCU**  
 One-lens type, completely in polycarbonate, anti-scratch, light and comfortable.  
 Wide field of view and very good protection against UV rays. Soft non-slip rubber nose pads.  
 Legs with holes for neck cord.  
 In conformity with the European norms.  
 Dark grey lens and frame.
- |                |      |             |
|----------------|------|-------------|
| <b>3387A 5</b> | Each | <b>7,68</b> |
|----------------|------|-------------|
- 
- 3387B**   **Prod. SCU**  
 Light, comfortable wide protection and innovative design. Adjustable front inclination. Non-scratch polycarbonate lens, temples adjustable in length with holes for neck cord.  
 In conformity with the European norms.  
 With transparent lens.
- |              |      |             |
|--------------|------|-------------|
| <b>3387B</b> | Each | <b>7,90</b> |
|--------------|------|-------------|
- 
- 3387C**   **Prod. SCU**  
 One-lens type, sturdy and ergonomic with wide cover, protection and visibility. Comfortable silicone nose bridge, adjustable front inclination. Non-scratch polycarbonate lens, temples adjustable in length.  
 In conformity with the European norms.  
 With transparent lens.
- |              |      |             |
|--------------|------|-------------|
| <b>3387C</b> | Each | <b>7,94</b> |
|--------------|------|-------------|



One-lens type, light, wide cover and side protection. Adjustable front inclination. Polycarbonate lens, anti-scratch. Adjustable-length legs. In conformity with the European norms. Transparent lens.

**3387E** Each **4,84**



**3387E**


Product description as Art. 3387E  
With DIN 5 green lens.

**3387EL** Each **7,50**



**3387EL**


Single lens model, lightweight, with wide coverage, lateral protection and the possibility to put them over prescription glasses. Scratch resistant polycarbonate lens, very flexible beams covered with soft rubber material for comfort, adjustable in length. Compliant with European standards. With green lens DIN 5. UV 400 protection.

**3387EP** Each **21,70**



**3387EP**  
*new*


One-lens type, very comfortable, spherical lens, wide cover and side protections. Adjustable front inclination. Polycarbonate lens, anti-scratch, adjustable-length legs with extremities in non-slip rubber.

In conformity with the European norms.

Transparent lens.

**3387F** Each **7,40**



**3387F**


One-lens type, nylon frame, light. Spherical lens, wide cover and side protection. Close adhesion to the face thanks to soft rubber. Polycarbonate lens, anti-scratch, adjustable-length lens with elastic neck cord.

In conformity with the European norms.

Transparent lens. Approved in compliance with EN 166 (Par. 3 drops and sprays, Par. 4 powders).

**3387GA** Each **19,80**



**3387GA**


Professional model combined with interchangeability between rods, adjustable in length/angle and elastic band. You get the comfort and lightness of a pair of glasses and the maximum protection of a single lens mask, nylon frame, spherical lens with wide field of vision without distortion, wide coverage, body side mouldings and total adherence to the face with soft rubber of great depth. Sophisticated indirect ventilation system. Scratch resistant polycarbonate lens. In conformity with the European norms.

With colourless lenses. Approved in accordance with EN 166 (3 point drops and splashes, dust 4 point).

**3387GE** Each **25,90**



**3387GE**


**3387GL****SCU****CE**

One-piece type, particularly indicated for protection in general and to be worn over one's spectacles. In compliance with the European regulations currently in force. Transparent and made of carboflex.

<b>3387GL</b>	Each	<b>3,20</b>
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**3387GM****SCU****CE**

Product description as Art. 3387GL  
Green and made of carboflex.

<b>3387GM</b>	Each	<b>11,60</b>
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Product running out of stock.

**3387N****SCU****CE**

Model with transparent panoramic lens, PVC frame and direct ventilation holes. In compliance with the European regulations currently in force.

<b>3387N</b>	Each	<b>7,26</b>
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**3387P****SCU****CE**

With transparent panoramic lens, PVC frame and ventilation holes. In compliance with the European regulations currently in force.

<b>3387P</b>	Each	<b>8,82</b>
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Spare lenses for Art. 3387 P.

<b>O3387P</b>	Each	<b>5,60</b>
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**3387PE****SCU****CE**

model a mask with colourless, overview lens in polycarbonate with anti-fog treatment. Soft PVC transparent frame and loopholes around the entire perimeter of the mask for maximum indirect ventilation.

In compliance with the current European standards.

<b>3387PE</b>	Each	<b>4,02</b>
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**3387R****SCU****CE**

Model with transparent panoramic lens, comfortable, non-scratch, anti-misting treatment and very good protection against UV rays. Frame made from soft rubber, for use over own vision glasses. Indirect ventilation system and adjustable wide elastic band.

In conformity with the European norms.

Approved in compliance with EN 166 1B 349 (protection against sprays of liquids (chemicals), big dust particles, molten and solid metals).

<b>3387R</b>	Each	<b>13,10</b>
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Frame in light and indeformable plastic, lenses Ø 50mm. In conformity with the European norms.  
With transparent lenses made of carborock.

**3388A** Each **5,16**

SPARE LENSES Ø 50mm  
Carborock transparent lenses.

**O3388A** Per pair **1,84**



Product description as Art. 3388A  
With transparent lenses made of hardened glass.

**3388B** Each **6,04**

SPARE LENSES Ø 50mm  
Hardened glass transparent lenses.

**O3388B** Per pair **1,80**



Product description as Art. 3388A  
With green DIN 5 lenses made of glass.

**3388L** Each **6,42**

SPARE LENSES Ø 50mm  
Green DIN 5 glass lenses.

**O3388L** Per pair **1,80**



With frame made of comfortable, soft light rubber that adapts to the shape of the face and indirect air inlets. With transparent and DIN 5 green lenses made of glass, CAPSIZABLE, Ø 50 mm  
Complies with European standards.

**3388M** Each **10,20**

SPARE LENSES Ø 50MM  
Transparent glass lenses.

**O3388M 1** Per pair **3,10**

Product description as Art. O3388M 1  
Green glass lens DIN 5.

**O3388M 2** Per pair **1,14**



With aluminium frame, soft plastic borders, lenses Ø 50mm. In conformity with the European norms.

With transparent lenses made of carborock.

**3388N** Each **9,22**

Spare lenses see Art. O3388 A-B-L.



Product description as Art. 3388N  
With transparent lenses made of hardened glass.

**3388P** Each **12,90**

Spare lenses see Art. O3388 A-B-L.



Product description as Art. 3388N  
With green DIN 5 lenses made of glass.

**3388S** Each **11,20**

Spare lenses see Art. O3388 A-B-L.



























With side-pieces made from special lightweight plastic material, with side protection and central screw to facilitate lens replacement and make it safe. Lenses Ø 50mm  
Compliant with European standards.  
With transparent glass lenses.

**3393** Each **3,18**

Spare lenses see. Art. O3388 M 1.



3394 <i>new</i>	  	Product description as Art. 3393 With green glass lens DIN 5.	<b>3394</b> Each <b>3,60</b>	Spare lenses see. Art. O3388 M 1.
3395	  	Swinging legs in special light plastic material, with lateral protections. Lenses Ø 50mm. In compliance with the European regulations currently in force. With transparent lenses made of carborock.	<b>3395</b> Each <b>7,60</b>	Spare lenses see Art. O3388 A-B-L.
3395 1T	  	Product description as Art. 3395 With transparent lenses made of hardened glass.	<b>3395 1T</b> Each <b>11,20</b>	Spare lenses see Art. O3388 A-B-L.
3395 2	  	Product description as Art. 3395 With green DIN 5 lenses made of glass.	<b>3395 2</b> Each <b>8,66</b>	Spare lenses see Art. O3388 A-B-L.
3396	  	Transparent lenses in carborock and tiltable green DIN 5 lenses, Ø 50mm. In compliance with the European regulations currently in force.	<b>3396</b> Each <b>21,20</b>	Spare lenses see Art. O3388 A-B-L.
3396A	  	With standard legs and shaped lenses. Light, with lateral polyamide protection. In compliance with the European regulations currently in force. With transparent lenses made of carborock.	<b>3396A</b> Each <b>6,44</b>	SPARE SHAPED LENSES Carborock transparent lenses. <b>O3396A</b> Per pair <b>2,52</b>
3396B	  	Product description as Art. 3396A With green DIN 5 lenses made of glass.	<b>3396B</b> Each <b>12,40</b>	SPARE SHAPED LENSES Green DIN 5 glass lenses. <b>O3396B</b> Per pair <b>8,96</b>
3397H	  	Extra type with shaped lenses, sturdy and ergonomic with special cover, protection and comfort. Side ventilation slots. Adjustable front inclination. Non-scratch polycarbonate lenses, temples adjustable in length. In conformity with the European norms. With transparent lenses.	<b>3397H</b> Each <b>10,10</b>	

Extra type with shaped lenses, sturdy and ergonomic with special cover, protection and comfort. Adjustable front inclination. Non-scratch polycarbonate lenses, temples adjustable in length. In conformity with the European norms. With green DIN 5 lenses.

**3397L** Each **26,20**

SCU



**3397L**



Extra type with shaped legs and lenses. Light and comfortable frame with middle screw to make lenses replacement easy and safe. Lateral nylon protection. In conformity with the European norms.

With transparent polycarbonate lenses.  
**3397M** Each **5,52**

SCU



**3397M**



SPARE SHAPED LENSES  
Polycarbonate transparent lenses for Art. 3397 M.

**O3397M** Per pair **3,06**

With shaped legs and lenses. Light and comfortable frame with middle screw to make lenses replacement easy and safe. Lateral nylon protection. In conformity with the European norms. With transparent hardened glass lenses.

**3397Q** Each **11,50**

SCU



**3397Q**



SPARE SHAPED LENSES  
Hardened glass transparent lenses for Art. 3397 Q.

**O3397Q** Per pair **7,32**

Product description as Art. 3397Q  
With green DIN 5 polycarbonate lenses.

**3397R** Each **8,40**

SCU



**3397R**



SPARE SHAPED LENSES  
Green DIN 5 lenses, in polycarbonate for Art. 3397 R.

**O3397R** Per pair **4,82**

Type to enhance the laser beam or laser spot light intensity (Category up to 3 A).  
Red lenses.

**3397VA** Each **14,40**

SCU

**3397VA**



10

**BATTERY LED MINI-LAMPS**

Prod. SCU  
360° directional light model, with No. 2 hooking clips. Particularly suitable for use with leg glasses. In ABS, light and shock-resistant. Provided with switch. Double luminous flux with No. 2 ultra-bright LEDs. Length: 50mm. Provided with No. 3 long-lasting button batteries (Art. 3600 A).

**3397ZA** Each **11,70**

SCU





**3397ZA**



## GLOVES



3397ZT



**Prod. SCU**

5-finger type, in cotton seamless thread, 3-threads, with wristband, 15gr. approx. Size 9. In compliance with the European regulations currently in force.

Overall length approx. mm 250

**3397ZT** Per pair **0,72**

3397ZV  
*new*




5 finger model, made of cotton, continuous yarn, with elastic cuff.

PVC dotted palm for a more secure grip.

Size 9. Compliant with European standards.

Overall length approx. mm 250

**3397ZV** Per pair **1,82**

3398



**Orig. Gedore**

Classic 5-finger working glove, for universal use. Max. versatility, no sensitivity reduction and full finger mobility.

Performance level 5 according to EN 420/03 classification (assessment from 0 to 5). Skin-friendly. In sturdy synthetic transpiring material, reinforced inserts on palm and fingers in simi leather. Wrist elastic band.

Size	No.	8	9	10	11	12
Size	No.	S	M	L	XL	XXL
Overall length approx.	mm	210	215	220	225	230
Supplier code		920 8	920 9	920 10	920 11	920 12
<b>3398</b>	<b>Per pair</b>	<b>22,70</b>	<b>22,70</b>	<b>22,70</b>	<b>22,70</b>	<b>22,70</b>

3398 3



**Prod. SCU**

With 5 fingers, in coarse para rubber, breathable back, cuff in woven cotton. Cut and abrasion resistant.

CAT. 2. Size 10. In compliance with the European regulations currently in force.

Overall length approx. mm 260

**3398 3** Per pair **3,70**

10 3398A





With 5 fingers, palm with nail-protection and knuckle-protection in crust leather, cloth short sleeve. CAT. 1. Size 10. In compliance with the European regulations currently in force.

Overall length approx. mm 260

**3398A** Per pair **4,22**

3398B





Padded model, 5 fingers, for winter use and use in fridges and cold areas. In seamless polyester, inside in bouclette covered in black natural latex, wrinkled.

CAT. 1. Size 10. In compliance with the European regulations currently in force.

Overall length approx. mm 260

**3398B** Per pair **9,50**

With 5 fingers, completely in crust leather, with reinforced palm and short sleeve.  
 CAT. 2. Size: 10. In compliance with the European regulations currently in force.

Overall length approx. mm 270  
**3398C** Per pair **4,20**

**SCU** **CE**

**3398C**



Thin type. Finely worked.

With 5 fingers, completely made of high-quality crust leather, with reinforced palm and short sleeve.

CAT. 2. Size: 10. In compliance with the European regulations currently in force.

Overall length approx. mm 270  
**3398E** Per pair **7,88**

**SCU** **CE**

**3398E**



With 5 fingers, completely made of crust leather, with 150mm long sleeve.

CAT. 2. Size: 10.

In compliance with the European regulations currently in force.

Overall length approx. mm 350  
**3398M** Per pair **4,84**

**SCU** **CE**

**3398M**



Thin type. Finely worked.

With 5 fingers, completely made of high-quality crust leather, palm with inside reinforcement and 150mm long sleeve with closing strap.

CAT. 2. Size: 10.

In compliance with the European regulations currently in force.

Overall length approx. mm 350  
**3398P** Per pair **8,74**

**SCU** **CE**

**3398P**



With 5 fingers, with palm, nail protection and knuckle protection in pieces of leather, short sleeve and back of the glove in cloth.

CAT. 1. Size: 10.

In compliance with the European regulations currently in force.

Overall length approx. mm 260  
**3398R** Per pair **2,80**

**SCU** **CE**

**3398R**



**10**

Thin type with 5 fingers; palm, nail protection and knuckle protection in grain leather, short sleeve and back of the glove in cloth.

CAT. 2. Size: 10.

In compliance with the European regulations currently in force.

Overall length approx. mm 260  
**3398R 3** Per pair **7,18**

**SCU** **CE**

**3398R 3**



3398R 5





Thin type with 5 fingers. Finely worked.  
With 5 fingers, made of grain leather with back in fleece cotton. Wrist elastic knit fabric with velcro closure.

CAT. 2. Size 10.

In compliance with the European regulations currently in force.

Overall length approx.	mm	260
<b>3398R 5</b>	<b>Per pair</b>	<b>7,60</b>

3398R 8





Light type with 5 fingers, completely made of grain leather. Wrist elastic band and borders.  
CAT. 1. Size: 10.

In compliance with the European regulations currently in force.

Overall length approx.	mm	240
<b>3398R 8</b>	<b>Per pair</b>	<b>7,36</b>

3398S 1





Thin type. Finely worked, with big thickness.

With 5 fingers, completely in grain leather, thumb reinforcement, wrist elastic band and edging.  
CAT. 2. Size: 9.

In compliance with the European regulations currently in force.

Overall length approx.	mm	240
<b>3398S 1</b>	<b>Per pair</b>	<b>11,10</b>

3398S 2





Type with 5 fingers, in sheepskin grain leather, back in woven cotton, wrist elastic knit fabric.  
CAT. 2. Size 9.

In compliance with the European regulations currently in force.

Overall length approx.	mm	240
<b>3398S 2</b>	<b>Per pair</b>	<b>5,28</b>

3398S 3





With 5 fingers, light, tight and comfortable.

In polyamide with polyurethane protective coating. Elastic cuff.

Indicated in fine mechanics, electronics and all operations requiring high hand skill.

Size: 9.

In compliance with the European regulations currently in force.

Overall length approx.	mm	230
<b>3398S 3</b>	<b>Per pair</b>	<b>1,26</b>

3398S 5





With 5 fingers, with elastic cuff, resistant, comfortable, allows a precise and efficacious grip.  
Made of cotton coated by a thin nitrile layer.

Indicated for mechanics, handling and activities with risk of abrasion.

Size: 10.

In compliance with the European regulations currently in force.

Overall length approx.	mm	270
<b>3398S 5</b>	<b>Per pair</b>	<b>1,72</b>



5 fingers-model, highly resistant which allows a safe grip and effective.  
Coated cotton medium thick layer of NBR blue, ventilated back.  
Suitable for heavy mechanical handling and working with high risk of abrasion.  
Size 10.

Compliant with European standards.

With elastic wristband

Overall length approx.	mm	250
<b>3398T 3</b>	<b>Per pair</b>	<b>2,46</b>

Product description as Art. 3398T 3

With sleeve.

Overall length approx.	mm	250
<b>3398T 5</b>	<b>Per pair</b>	<b>2,68</b>

SCU


**3398T 3**  
**3398T 5**

3398T 3



3398T 5

In special synthetic Aramid fibre. Excellent resistance to cuts and discontinuous heat.  
Indicated for handling materials with sharp and cutting edges in metalworking, glasswork,  
packaging, etc.

Size: 10.

In compliance with the European regulations currently in force.

Overall length approx.	mm	260
<b>3398V</b>	<b>Per pair</b>	<b>14,10</b>

SCU

**3398V**

With 5 fingers, ambidextrous, tight, disposable. Made from very elastic natural latex for maximum  
freedom of hand movement; with edging. For universal use, resistant to alcohol, alkaline  
substances, etc. Size "L".

In compliance with the European regulations currently in force.

Package units of 100pcs. not sold separately.

<b>3399A</b>	<b>Per pack</b>	<b>10,00</b>
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SCU

**3399A**

With 5 fingers, ambidextrous, professional, high-resistance against perforation.  
Completely made of nitrile, antiallergic, with edging. Multipurpose, also resistant to alcohol,  
chemicals, irritating substances, etc

Package units of 100pcs. not sold separately. In compliance with the European regulations  
currently in force.

Size "M".

<b>3399A 3</b>	<b>Per pack</b>	<b>10,90</b>
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SCU

**3399A 3**

Product description as Art. 3399A 3

Size "L".

<b>3399A 5</b>	<b>Per pack</b>	<b>10,90</b>
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SCU

**3399A 5**

Product description as Art. 3399A 3

Size "XL".

<b>3399A 7</b>	<b>Per pack</b>	<b>10,90</b>
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SCU

**3399A 7**



With 5 fingers, in natural latex, flocculated inside.  
For professional use, high-resistant to a wide range of chemicals.  
Total length: 300mm approx.  
In compliance with the European regulations currently in force.  
One size fits all (8 1/2 - 9).

**3399B** Per pair **5,20**



Product description as Art. 3399B  
One size fits all (9 1/2 - 10).

**3399C** Per pair **5,20**



With 5 fingers, in nitrile, flocculated inside.  
For professional use, high-resistant to a wide range of chemicals and to tears and abrasions.  
Overall length 300mm approx.  
In compliance with the European regulations currently in force.  
Size 10.

**3399D** Per pair **3,60**



With 5 fingers, made from waterproof PVC, internal flocculation. Model resistant to light chemicals, greases, oils, petroleum products etc.  
Size 10. Complies with current European regulations.

Overall length approx. mm **350**  
**3399E** Per pair **4,48**



With 5 fingers, in neoprene, elastic even at low temperature.  
For industrial use, high-resistance to a wide range of chemicals, light acids, oils, petroleum, gasoline, etc.  
Good resistance to cuts, perforations, tears, abrasions and thermal variations.  
Size: 10.

In compliance with the European regulations currently in force.

Overall length approx. mm **310**  
**3399F** Per pair **3,90**



With 5 fingers, in high-quality neoprene, long lasting.  
Best protection against a wide range of chemicals and highly resistant to all mechanical risks.  
Suitable also for handling hot liquids in discontinuous activities.  
CAT.3. Size 10.

In compliance with the European regulations currently in force.

Overall length approx. mm **300**  
**3399G** Per pair **8,02**



With heat protection. With 5 fingers, made from extra-strong Aramidic fibre cloth, with lining.  
Very high insulating capacity makes it suitable to be used for operations requiring maximum safety. Protection levels higher than those of asbestos.  
One size (10).

Complies with current European regulations EN 388 4544 and EN 407434X4X.

Withstands temperatures of up to 350°.  
Overall length approx. mm **280**  
**3399P** Per pair **41,30**

Product description as Art. 3399P

With long sleeve.

Overall length approx. mm 380  
**3399R** Per pair **51,70**

SCU

CE

3399R



Product description as Art. 3399P

With extra-long cuff.

Overall length approx. mm 480  
**3399S** Per pair **58,50**

For VDE insulated gloves see Art. 357 GE-F.

SCU

CE

3399S



**APRONS**

**Prod. SCU**

In crust leather, soft tanning. Conform to European specifications EN 470, CAT. II.

Dimensions: 600x900mm approx.

**3401A** Each **13,70**

SCU

CE

3401A



In nylon and neoprene cloth, protected against abrasions, acids, solvents, etc.

Dimensions: 800x1100mm approx.

**3401E** Each **19,80**

Upon sale of all stock, a PVC apron with similar characteristics will be supplied instead of a Nylon and neoprene one.

SCU

3401E



With heat protection.

Made from extra-strong Aramidic fibre cloth, with lining, CE-compliant. Very high insulating capacity makes it suitable to be used for operations requiring maximum safety. Protection levels higher than those of asbestos.

Complies with current European regulations EN 340:2003 and EN 388:2003.

Dimensions: 600x1000mm approx.

**3401P** Each **90,40**

SCU

CE

3401P



10

**OVERSLEEVES**

**Prod. SCU**

In crust leather, provided with elastic bands on both sides.

In compliance with the European regulations currently in force EN 470, CAT. I.

Length: 400mm approx.

**3402** Per pair **14,40**

SCU

CE

3402



**GAITERS**

3403A

SCU

**Prod. SCU**

In hide crust with velcro lateral fasteners. Conform to EN 470, CAT. II.

Height: 300mm approx.

3403A	Per pair	11,40
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3403E

SCU



With protection against heat.

In highly resistant aramid fibre cloth, lining according to EU standards. Very high insulating capacity makes it advisable for activities which require maximum safety. Protection proprieties higher than amiantus. Conform to European specifications EN 420, CAT. I.

Height: 300mm approx.

3403E	Per pair	83,50
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**FIRE-PROOF COVERS**

3403E 1

SCU

**Prod. SCU**

Suitable for use in various sectors, are used to stop starting fire.

Conform to European specifications DIN EN 1869:1997, in high quality fiberglass textile. Coating on both sides.

Dimensions: 1000x1000mm

3403E 1	Each	17,30
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For smoke detectors see Art. 4475A.

**PROTECTIONS FOR KNEE**

3403E 2

SCU

**Prod. SCU**

model soft stretchy enough for universal use. Polyurethane foam, yellow for high visibility. New and effective system of detention to straps.

Certified according to DIN EN 14404.

3403E 2	Per pair	22,60
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3403E 3

SCU



Multi-purpose standard model to be used in workshops, gardening, etc. In cellular polyurethane. With ajustable fastening strap. Conform to DIN EN 14404.

3403E 3	Per pair	22,80
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3403E 7

SCU



To be used in workshops, light industry, gardening, etc. In plastic material with 2-bends accordion for good knee flexibility. With fastening strap.

3403E 7	Per pair	26,70
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Product running out of stock.

To be used in building applications (floor layers), workshops, carpentry and heavy duty industry, etc. In plastic, sturdy material, with 4-bends accordion to grant optimum knee flexibility. With 2 fastening straps. Conform to European specifications DIN EN 14404.

**3403E 9** Per pair **43,10**

SCU



**3403E 9**



To be used in building applications (floor layers), workshops and carpentry. In sturdy polyethylene with a particular joint which allows optimal knee movement. The wide profile grants an excellent protection of the knee articulation, even in extreme situations. With 2 fastening straps. According to the DIN EN 14404 standard.

**3403E 11** Per pair **36,30**

SCU



**3403E 11**



To be used in building applications (floor layers), workshops and carpentry. In soft and comfortable cloth material, with protection shells in flexible rubber. With 2 fastening straps.

**3403E 13** Per pair **21,40**

SCU

**3403E 13**

Product running out of stock.



Case-shaped, for universal use. Comfortable and tight. In sturdy, very thick rubber. Provided with No.2 fastening straps.

Certified in compliance with DIN EN 14404 standards.

**3403E 14** Per pair **20,40**

SCU

**3403E 14**



Case-shaped to be used in building applications (floor layers), road yards, light and heavy duty industry. In very sturdy, elastic rubber, very thick for maximum knee protection against heat and humidity. With 2 fastening straps. Conform to European specifications DIN EN 14404.

**3403E 17** Per pair **46,20**

SCU



**3403E 17**



To be used in building applications (floor layers), road yards, light and heavy duty industry. In very sturdy, elastic rubber, with 4-bends accordion that grants maximum knee flexibility. With 2 fastening straps. Conform to European specifications DIN EN 14404.

**3403E 19** Per pair **49,50**

SCU



**3403E 19**



**SAFETY BOOTS**
**3403ES SCU**

**CE**
**Prod. SCU**

Working footwear appropriate for all situations where you need total protection and waterproofing of the feet.

In special PVC, with steel toe cap and steel midsole, nylon inner lining, tank black outsole, antistatic, anti-slip, resistant to oils.

In compliance with the current European standard EN 345.

S Safety category 5.

N°	39	40	41	42	43	44	45
<b>3403ES</b> Per pair	<b>33,50</b>	<b>33,50</b>	<b>33,50</b>	<b>33,50</b>	<b>33,50</b>	<b>33,50</b>	<b>33,50</b>

**PROTECTIVE SHOES**
**3403F SCU**

**CE**
**Prod. SCU**

Safety work footwear apt for any use. With steel toe with resistance until J200, high-density polyurethan sole, high resistance to perforation, big flexibility, anti-static, resistant to hydrocarbons, non-slip. Anatomic, detachable, anti-mycotic, anatomic and anti-bacterial footbed. In compliance with the European regulation EN 345 in force.

Low type, light, in oil-tanned leather with ventilation holes. S1P safety category.

N°	39	40	41	42	43	44	45
<b>3403F</b> Per pair	<b>40,70</b>	<b>40,70</b>	<b>40,70</b>	<b>40,70</b>	<b>40,70</b>	<b>40,70</b>	<b>40,70</b>

**3403L SCU**

**CE**

Product description as Art. 3403F

Low type, in black pigmented leather crust. S1P safety category.

N°	39	40	41	42	43	44	45
<b>3403L</b> Per pair	<b>37,50</b>	<b>37,50</b>	<b>37,50</b>	<b>37,50</b>	<b>37,50</b>	<b>37,50</b>	<b>37,50</b>

**3403M SCU**

**CE**

Product description as Art. 3403F

High type, in black pigmented leather crust. S1P safety category.

N°	39	40	41	42	43	44	45
<b>3403M</b> Per pair	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>

Product description as Art. 3403F

Low type, light, in oil-tanned leather, with ventilation holes. Particularly comfortable and elegant. High abrasion resistant sole. Lining: with transpiring inner padding.

Safety class: S1P.

N°		39	40	41	42	43	44	45
3403MA	Per pair	56,60	56,60	56,60	56,60	56,60	56,60	56,60

SCU



3403MA



CE

Product description as Art. 3403F

Low type, laceless, practical, light, in oil-tanned leather and inserts in @, comfortable, large toed, elegant. Lining: with transpiring inner padding.

Safety class: S1P.

N°		39	40	41	42	43	44	45
3403MC	Per pair	65,90	65,90	65,90	65,90	65,90	65,90	65,90

SCU



3403MC



CE

Product description as Art. 3403F

Low type, practical, in oil-tanned leather and inserts in cordura, comfortable, large toed, elegant. Lining: with transpiring inner padding.

Safety class: S1P.

N°		39	40	41	42	43	44	45
3403ME	Per pair	62,60	62,60	62,60	62,60	62,60	62,60	62,60

SCU



3403ME



CE

Product description as Art. 3403F

High type, practical, protective, in oil-tanned leather and inserts in cordura, comfortable, large toed, elegant. Lining: with transpiring inner padding.

Safety class: S1P.

N°		39	40	41	42	43	44	45
3403MG	Per pair	65,60	65,60	65,60	65,60	65,60	65,60	65,60

SCU



3403MG



CE

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**3403MR** 


Product description as Art. 3403F

High type, for welders. With additional metatarsal protection, sole in nitrile rubber, heat resistant up to 300°C. Made of leather, big padding in the malleolus area, easily removable.

Safety category S3 (except no 39 safety category S1P).

N°		39	40	41	42	43	44	45
3403MR	Per pair	103,00	103,00	103,00	103,00	103,00	103,00	103,00


**3403MT** 


Product description as Art. 3403F

Low type, in grain leather, soft, comfortable, elegant. High abrasion resistant sole. Lining: with transpiring inner padding.

Safety class: S3

N°		39	40	41	42	43	44	45
3403MT	Per pair	42,10	42,10	42,10	42,10	42,10	42,10	42,10


**3403MV** 


Product description as Art. 3403F

High type, protective, in grain leather and inserts in cordura, comfortable, elegant. High abrasion resistant sole. Lining: with transpiring inner padding, easily removable.

Safety class: S3.

N°		39	40	41	42	43	44	45
3403MV	Per pair	42,90	42,90	42,90	42,90	42,90	44,20	42,90

For VDE insulated boots see Art. 357 GP.


**POLYETHYLENE FUNNELS**
**3403P** 


Prod. SCU

In anti-acid, unbreakable material with hole for fitting.

Provided with interchangeable filter.

Standard type.

Ø	mm	100	120	140	210	250
3403P	Each	3,66	4,10	2,38	4,52	5,20

**3403R** 


Product description as Art. 3403P

With flexible extension pipe, length: 400mm. Diameter: 210mm.

3403R	Each	7,78
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Product description as Art. 3403P

With flexible extension pipe, length: 400mm. Stepped end for non-leaded gasoline. Diameter: 210mm.

<b>3403S</b>	Each	<b>7,78</b>
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**3403S**

In anti-acid, unbreakable material.

Provided with interchangeable filter.

With lateral bend, flange and handle. Diameter: 190mm.

Total length: 400mm.

<b>3403T</b>	Each	<b>12,80</b>
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**3403T**

Heavy type, includes flexible, removable pipe and fixed spout.

With lid and pipe cap.

Spray-proof edge, filter included.

∅	mm	<b>180</b>	<b>220</b>
<b>3404</b>	Each	<b>8,84</b>	<b>9,50</b>



**3404**

**INOX FUNNELS**

Prod. SCU

In heavy duty, 18/10 AISI 304 stainless steel. Without filter.

∅	mm	<b>200</b>	<b>240</b>	<b>300</b>
<b>3404N</b>	Each	<b>23,40</b>	<b>26,50</b>	<b>34,30</b>



**3404N**

**INOX**

In heavy duty, AISI 304 stainless steel 18/10, with flexible pipe, antifreezing, non-toxic, with grip.

Without filter.

∅	mm	<b>200</b>	<b>240</b>	<b>300</b>
<b>3404P</b>	Each	<b>40,40</b>	<b>42,10</b>	<b>48,20</b>



**3404P**

**INOX**

Brass filter for Art. 3404 N-P all sizes.

<b>O3404P</b>	Each	<b>5,38</b>
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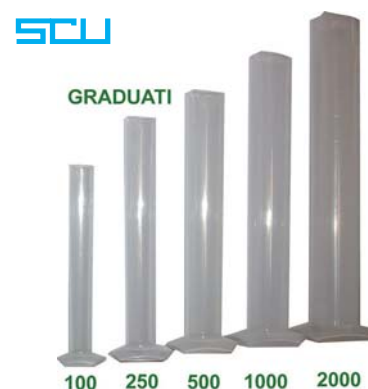
**10**

**GRADED CYLINDERS TO MEASURE LIQUIDS**

Prod. SCU

Shatterproof transparent polypropylene, with wider support base. Graduated with indelible reference marks, ISO tolerance 6706. Suitable for food contact, resistant to various chemicals. Autoclavable. Possibility of radiation sterilization.

Capacity	ml	<b>100</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>
Scale division	ml	10	20	50	100	200
∅ for length	mm	31x248	42x315	55x361	66x440	84x532
<b>3404R</b>	Each	<b>8,12</b>	<b>10,90</b>	<b>14,20</b>	<b>23,50</b>	<b>45,50</b>



**3404R**

**GRADUATI**  
100 250 500 1000 2000

**MAESURING BUCKETS**
**3404T** **SCU**

**Prod. SCU**

In semi-transparent polyethylene, anti-acid and unbreakable, with scaling. With handle. Not certified, for personal use only.

Capacity	l	0,5	1	3	5
<b>3404T</b>	Each	2,72	3,46	4,58	7,60

**3405A** **SCU**


In semi-transparent polyethylene, anti-acid and unbreakable, with scaling. With handle. Not certified, for personal use only.

Capacity	l	1	2	3	5
<b>3405A</b>	Each	7,04	9,06	10,80	14,10

Flexible extensions complete with filter for Art. 3405 Ax1-2-3-5.

<b>O3405A</b>	Each	3,74
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**3405C** **SCU**


Heavy type, in polyethylene, anti-acids and unbreakable, with raised scaling. Big stability large base. Wide and handy handle, lid flexible pipe with tap. Not certified, for personal use only.

Capacity	l	1	2	5
<b>3405C</b>	Each	5,42	6,52	10,90

**3405GE** **hz**

**Orig. Hallbauer**

In steel, with handle and scaling with seal. Not certified, for personal use only.

Capacity	l	1	2
<b>3405GE</b>	Each	13,80	17,80

**INOX MEASURING BUCKETS**
**3405M** **SCU**
**INOX**

**Prod. SCU**

In heavy duty AISI 304 stainless steel 18/10. Provided with spout, grip, reinforced edges and bottom.

Not certified, for personal use only.

Capacity	l	3	5	10
<b>3405M</b>	Each	36,10	42,10	55,70

**3405P** **SCU**
**INOX**


In heavy duty AISI 304 stainless steel 18/10. Funnel-shaped, with grip, reinforced edges and bottom.

Not certified, for personal use only.

Capacity	l	2	5	10
<b>3405P</b>	Each	43,10	63,70	76,10

In heavy duty AISI 304 stainless steel 18/10, funnel-shaped, with flexible pipe, antifreezing, non-toxic, with grip, reinforced edges and bottom.

Not certified, for personal use only.

Capacity	l	2	5
<b>3405R</b>	Each	46,30	68,50



**CANS**

**Prod. SCU**

Heavy, sturdy model made from certified plastic material, unbreakable. RID/ADR-approved, not certified, for personal use only. Complete with pourer and sealing plug.

Capacity	l	5	10	20
<b>3405T</b>	Each	6,30	8,78	12,80



**DROP OILERS**

**Prod. SCU**

In turned brass, smooth pin and polycarbonate glass.

Body Ø	mm	60
Pivot Ø	mm	19,5
Capacity	grams	130
<b>3406</b>	Each	53,80

Product running out of stock.

Spare glass for Art. 3406.

Body Ø	mm	60
<b>O3406</b>	Each	11,50

Product running out of stock.



Brass body nickel-plated, Plexiglas tank, threaded Stud.

Size		42	54	62	80	80A	105
Body Ø	mm	42	54	62	80	80A	105
Pivot thread	G	1/4	1/4	3/8	3/8	3/8	3/8
Capacity	cm3	35	75	150	250	450	750
<b>3406A</b>	Each	52,90	65,20	74,10	82,80	86,30	92,50

Spare tanks supplied on request.



**OIL PENS**

**Prod. SCU**

Pen-shaped, in synthetic plastic material, transparent tank. Push-button dispenser, clip, brass pipe and drip-catching cap. For the best regulation of small quantities of oil. Capacity: 5g. Length: 140mm.

<b>3407D</b>	Each	10,70
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**PLASTIC OILERS**

**Prod. SCU**

With tank, pipe and cap in flexible polyethylene, resistant to oils and light acids.

Capacity	ml	25
<b>3407M</b>	Each	0,64



**3407P** SCU

Product description as Art. 3407M

Capacity	ml	60
<b>3407P</b>	Each	<b>0,82</b>

**3407R** SCU

Product description as Art. 3407M

Capacity	ml	80
<b>3407R</b>	Each	<b>0,86</b>

**3408** SCU

Tank in flexible polyethylene, transparent, which can't be attacked by oils and light acids.  
With fixed brass pipe.

Capacity	ml	125	250	500
<b>3408</b>	Each	<b>1,84</b>	<b>2,18</b>	<b>2,48</b>

**3408A** SCU

Product description as Art. 3408  
With fixed plastic pipe.

Capacity	ml	125	250	500
<b>3408A</b>	Each	<b>1,42</b>	<b>1,72</b>	<b>2,02</b>

**3408C** SCU

Product description as Art. 3408  
With retractable brass pipe, screw valve.

Capacity	ml	125	250	500
<b>3408C</b>	Each	<b>4,40</b>	<b>4,82</b>	<b>5,16</b>

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### SPRAYERS

**3409** SCU

Prod. SCU

Tank and pipe in flexible transparent polyethylene. For light acids, water distilled in chemical labs, workshops.

Capacity	ml	250	500	1000
<b>3409</b>	Each	<b>1,72</b>	<b>2,02</b>	<b>2,78</b>

### MIST SPRAYERS

**3410E** SCU

Prod. SCU

Professional model.

Spraying pump for light oils, diesel fuel and detergent products (acids excluded). Spout with adjustable nozzle. Polyethylene tank.

Capacity	ml	500
<b>3410E</b>	Each	<b>2,96</b>

Product description as Art. 3410E

Capacity	ml	1000
<b>3410F</b>	<b>Each</b>	<b>3,38</b>



**3410F**

Product description as Art. 3410E

With Viton brass ring, for liquids with moderately aggressive acid agents.

Capacity	ml	1000
<b>3410L</b>	<b>Each</b>	<b>4,88</b>



**3410L**

Industrial model.

Pressure-operated with big capacity mist spraying pump, with Viton ring, for light oils, diesel fuel, detergent (not acid).

Spout with adjustable nozzle and brass jet.

Sturdy, polyethylene tank, with scaling and supporting base.

Capacity	ml	1250
<b>3410P</b>	<b>Each</b>	<b>16,20</b>



**3410P**

Product description as Art. 3410P

Capacity	ml	2200
<b>3410R</b>	<b>Each</b>	<b>19,10</b>



**3410R**

Industrial model.

Big-capacity, pressure-operated model, with big capacity, Viton ring and mist spraying pump and tube rod (length: 1.75m)

For light oils, diesel fuel, detergents and chemicals (acids excluded).

Trigger double position for continuous or intermittent spraying.

Spout with adjustable nozzle. Sturdy, polyethylene tank, with scaling, supporting base, safety valve and strap.

Capacity	l	5
<b>3410T</b>	<b>Each</b>	<b>46,90</b>



**3410T**
**10**
**PLASTIC OIL SQUIRT CANS**
**Prod. SCU**

Indeflexible plastic tank. Stabilised plastic pump, vertical flexible pipe.

Capacity	ml	150	250
<b>3411</b>	<b>Each</b>	<b>4,58</b>	<b>5,08</b>



**3411**

**3415A**

Indeformable plastic tank. Stabilised plastic pump, horizontal screwable pipe.  
With hard pipe.

Capacity	ml	200	300	500	700
<b>3415A</b>	Each	5,42	5,60	5,76	6,20

Spare hard pipe (for all capacities), for Art. 3415 A.

<b>O3415A</b>	Each	1,88
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**3415B**

Product description as Art. 3415A  
With flexible pipe.

Capacity	ml	200	300	500	700
<b>3415B</b>	Each	5,42	5,60	5,76	6,20

Spare flexible pipe (for all capacities), for Art. 3415 B.

<b>O3415B</b>	Each	2,14
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### METAL OIL SQUIRT CANS

**3416A****Prod. SCU**

With horizontal, screwable pipe. Tank in sturdy, enameled steel, brass pump.  
With hard pipe.

Capacity	ml	200	300	500	700
<b>3416A</b>	Each	5,56	6,28	6,98	8,10

Spare hard pipe (for all capacities), for Art. 3416 A.

<b>O3416A</b>	Each	1,34
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**3416B**

Product description as Art. 3416A  
With flexible pipe.

Capacity	ml	200	300	500	700
<b>3416B</b>	Each	5,56	6,28	6,98	8,10

Spare flexible pipe (for all capacities), for Art. 3416 B.

<b>O3416B</b>	Each	1,34
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### OIL/PETROL SYRINGES

**3418GA****Orig. Hallbauer**

Push-type, system with reentering piston. Metal body.

Capacity: 180g.

With flared nozzle.

<b>3418GA</b>	Each	36,10
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**3418GB**

Product description as Art. 3418GA

With pointed nozzle.

<b>3418GB</b>	Each	35,20
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**3419G**

Made of heavy galvanized steel. With hard pipe.

Capacity	ml	250	500	1000
Body Ø	mm	55	55	55
<b>3419G</b>	Each	12,10	15,10	17,90

Spare flexible pipe (for all capacities), for Art. 3419 G.

<b>O3419G</b>	Each	7,02
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**3420****Prod. SCU**

Made of brass. With hard pipe.

Capacity	ml	250	500
Body Ø	mm	40	50
<b>3420</b>	Each	24,90	31,60

Made of sturdy synthetic material. With flexible pipe.

Capacity	ml	500
<b>3421C</b>	<b>Each</b>	<b>16,10</b>

SCU



**3421C**

**Orig. Hallbauer**

Simultaneous double effect of filling and drain. Heavy steel type, galvanized. Double speed and 2 flexible pipes. Length of each pipe: 500m.

Capacity	ml	500
Body Ø	mm	55
<b>3421G</b>	<b>Each</b>	<b>45,30</b>

hv



**3421G**

**LEVER OIL GUNS**

**Orig. Hallbauer**

For oil. Professional model, steel body manufactured in compliance with DIN 1283 standards and with the approval of "TÜV" - "GS". Capacity: 500ml. Connecting thread M 10x1. Without flexible pipes and nozzles. Operating pressure: 400 bar. In cardboard box.

<b>3421GT</b>	<b>Each</b>	<b>45,50</b>
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For flexible pipes and nozzles see Art. 3425.

hv



**3421GT**

**OIL POURING SYSTEMS**

**Prod. SCU**

Manual type, with tank. Suitable for pouring oils, gearbox oils and differential oils. Lever pump, with rubber hose approx. 2m in length and spout.

Tank capacity	Kg	12	16
<b>3422A</b>	<b>Each</b>	<b>123,00</b>	<b>130,00</b>

SCU



**3422A**

**PNEUMATIC OIL PUMPS**

**Prod. SCU**

With compressed air motor, high-performance. Apt for pouring oils, gearbox oils, differential oils, etc. In anti-rust material and anti-wear gaskets. Pressure ratio 1 : 3 Maximum pressure: 8 bar (Atm). Maximum capacity: l/min 14. Compressed air connection with diameter G 1/4". Bung adaptor G 2". Gun with hard pipe and pouring tube with length 3m. Rigid suction tube with filter. Without trolley and barrel.

For drums content	l	60	220
Take-up tube max length	mm	730	940
<b>3422E</b>	<b>Each</b>	<b>567,00</b>	<b>588,00</b>

Trolleys for barrels for Art. 3422 E 60-220.

For drums content	l	60	220
<b>03422E</b>	<b>Each</b>	<b>187,00</b>	<b>348,00</b>

SCU



**3422E**

CE

10

**OIL EXTRACTOR PUMPS**

**Prod. SCU**

Manual model, with tank. Suitable for exhausted oil extract from vehicle engines, marine engines, machine tools, engines, static etc.

Reciprocating pump with grip, plastic tube about 1 m long and 2 flexible probes, diameter 6 and 8 mm, total length m 1 each

Tank capacity 6,5 litres.

<b>3422H</b>	<b>Each</b>	<b>394,00</b>
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SCU



**3422H**

**PUSH-TYPE GUNS WITH GREASE**
**3422P****Orig. Hallbauer**

Push-type system with reentering piston, provided with No.1 cartridge Art. 3424 C 100 to screw inside the aluminium cap thus forming a solid, compact unit, a greasing system quickly available without dirtying the operator's hands.

Gun with flared nozzle, universal use. Capacity 100g.

<b>3422P</b>	Each	<b>17,70</b>
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**3422R**

Product description as Art. 3422P

Gun with pointed nozzle. Capacity 100g.

<b>3422R</b>	Each	<b>17,30</b>
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**PUSH-TYPE GREASE GUNS**
**3422S****Prod. SCU**

Small dimensions, Push-type system with reentering piston.

Body in synthetic material.

(Capacity 60g is Orig. Hallbauer).

Gun with flared nozzle.

Capacity	grams	60	100	150
<b>3422S</b>	Each	<b>8,12</b>	<b>5,30</b>	<b>5,26</b>

**3422T**

Product description as Art. 3422S

Gun with pointed nozzle.

Capacity	grams	60	100	150
<b>3422T</b>	Each	<b>7,84</b>	<b>5,26</b>	<b>5,26</b>

For grease cartridge, only for Art. 3422 S-Tx60 see Art. 3424 C 60.

**3423A**

Push-type system with reentering piston.

Metal body.

Capacity: 200g. With nozzle Art. 3425 E.

<b>3423A</b>	Each	<b>8,24</b>
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**3423B**

Product description as Art. 3423A

Capacity: 200g. With nozzle Art. 3425 A.

<b>3423B</b>	Each	<b>10,50</b>
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**3423GA****Orig. Hallbauer**

Professional type.

Capacity: 340g. With flared nozzle.

<b>3423GA</b>	Each	<b>39,90</b>
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**3423GB**

Product description as Art. 3423GA

Capacity: 340g. With pointed nozzle.

<b>3423GB</b>	Each	<b>39,20</b>
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**HIGH PRESSURE LEVER GREASE GUNS FOR SCREW-IN CARTRIDGES**
**3423GBF**  
*new***Orig. Hallbauer**

Professional pistol used with SCREWABLE CARTRIDGES Art. 3423 GBM, for rapid, simple and clean greasing. With the chance to adjust for more pressure or greater capacity. With flexible and professional rod of the length of 500 mm and high quality head with 4 jaws. Steel body and zinc-plated lever for use with one hand, lockable. With exhaust valve.

Supplied without cartridges.

<b>3423GBF</b>	Each	<b>77,10</b>
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High quality universal grease in handy SCREWABLE CARTRIDGES for use in combination with lever compressors Art. 3423 GBF.  
Automatic grease compaction system during application.  
Capacity g. 500, Ø mm 53.

<b>3423GBM</b>	Each	<b>12,20</b>
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Adapter to fill grease cartridges Art. 3423 GBM, emptied, with the grease filling pumps Art. 3426 GE 10-20-25-50.

<b>O3423GBM</b>	Each	<b>22,30</b>
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**3423GBM**  
*new*

**HIGH PRESSURE LEVER GREASE GUNS**

**Orig. Hallbauer**

Gun type, with rigid hose and universal nozzle. Can be used with one hand to reach and grease small places. Connecting thread M 10x1. Art. 3423 GCx500 can be refilled with bulk grease by means of pumps Art. 3426 GE. Art. 3423 GCx100 and 500 can be refilled with grease cartridges Art. 3424 Cx60-100 and 400.

Capacity	grams	<b>100</b>	<b>150</b>	<b>500</b>
Grease for pumping	cc	0,2	0,4	0,8
<b>3423GC</b>	Each	<b>22,70</b>	<b>49,90</b>	<b>53,30</b>

Capacity 150 gr. only is provided with 2 grease cartridges, included.



**3423GC**

For grease. Professional type, with steel body. Manufactured in compliance with DIN 1283 standards and with the approval of "TÜV" - "GS" (only gr 500).

Automatic forward movement of bulk grease or grease cartridge.  
With air valve.

Possible automatic refilling of bulk grease by means of pumps Art. 3426 GE. Connecting thread M 10x1. Without flexible pipes and nozzles  
Operating pressure: 400bar (Atm).

In cardboard box.

Capacity	grams	<b>500</b>	<b>600</b>
<b>3423GD</b>	Each	<b>25,10</b>	<b>45,90</b>

For grease cartridges see Art. 3424 Cx400.  
Flexible pipes and nozzles see Art. 3425.



**3423GD**

**HIGH-PRESSURE LEVER GREASE GUNS IN SET**

**Orig. Hallbauer**

Set consisting of:  
1 compressor Art. 3423 GDx500  
1 flexible connection Art. 3425 Mx300  
a 4-jaw nozzle Art. 3425 A  
In cardboard box.

<b>3423GE</b>	Each	<b>30,66</b>
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**3423GE**

**HIGH PRESSURE LEVER GREASE GUNS**

**Prod. SCU**

For grease. Steel body. Automatic forward movement of bulk grease or cartridge grease.  
With air valve. Possible automatic refilling of bulk grease by means of pumps Art. 3426 GE.  
Connecting thread M 10x1.  
Without flexible pipes and nozzles.

Capacity	grams	<b>300</b>	<b>500</b>	<b>750</b>	<b>1000</b>
Body Ø	mm	45	56,5	56,5	56,5
<b>3423H</b>	Each	<b>14,70</b>	<b>17,70</b>	<b>19,90</b>	<b>21,60</b>

For grease cartridges 500g see Art. 3424 Cx400.  
For grease cartridges 750-1000g see Art. 3424 Cx600.  
For flexible pipes and nozzles see Art. 3425.



**SCU**

**3423H**

**HIGH-PRESSURE LEVER GREASE GUNS IN SET**

**Prod. SCU**

Set consisting of:  
1 compressor Art. 3423 Hx500  
1 flexible connection Art. 3425 Lx300  
a 4-jaw nozzle Art. 3425 A  
In cardboard box.

<b>3423L</b>	Each	<b>22,90</b>
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**SCU**

**3423L**

## HIGH PRESSURE LEVER GREASE GUNS

3423LE **Prod. SCU**

With optimal price/quality ratio.

For grease. Steel body. Anti-slip matt painting.

Automatic forward movement of bulk grease or cartridge grease by means of oversized lever. With air valve.

Possible automatic refilling of bulk grease by means of pumps Art. 3426GE.

Connecting thread M10x1. Without flexible pipes and nozzles.

Capacity grams 500

Body Ø mm 56,5

3423LE	Each	14,10
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For cartridges and grease see Art. 3424 Cx400.

Flexible pipes and nozzles see Art. 3425.

## HIGH-PRESSURE LEVER GREASE GUNS WITH MANOMETER

3423MG **Orig. Hallbauer**

For grease. Industrial type with steel body. With manometer up to 400 bar. Automatic forward movement of bulk grease or cartridge grease. With air valve. Possible automatic refilling of bulk grease by means of pumps Art. 3426 GE. Connecting thread G 1/8. Without hoses, flexible pipes and nozzles. Operating pressure: 400bar (Atm). In cardboard box.

Capacity grams 500

3423MG	Each	137,00
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For cartridges and grease see Art. 3424 Cx400.

Hard pipe, connecting thread G 1/8, length 150mm, complete with 4-jaws nozzle, professional, for Art. 3423 MG.

O3423MG 1	Each	7,10
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Flexible pipe, connecting thread G 1/8, reinforced, length 300mm, complete with 4-jaws nozzle, professional, for Art. 3423 MG.

O3423MG 2	Each	21,40
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## COMPRESSED AIR AUTOMATIC HIGH-PRESSURE GREASE GUNS

3423S 

CE

**Prod. SCU**

For bulk grease or cartridges Art. 3424 Cx600.

Automatic forward movement of grease. Capacity 750g.

Delivery: 450Atm. Operating pressure: 6Atm. Equipped with air valve.

Standardized quick connection.

With flexible pipe and nozzle. Connecting thread M 10x1.

3423S	Each	118,00
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10 3423T 

CE

For bulk greas with steel tank.

forward movement and automatic pushing of grease. Capacity: 1000g.

Delivery: 450Atm. Operating pressure: 6Atm. Equipped with air valve.

Standardized quick connection.

With flexible pipe and nozzle. Connecting thread M 10x1.

3423T	Each	162,00
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**BATTERY GREASE GUNS**

**Orig. Hallbauer**

Professional type which works with 12V - 1,5 Ah battery, detachable and rechargeable. High-performance pump (approx. 100 ccm/min.) ideal to grease difficult places without compressed air or electricity. For bulk grease or cartridges Art. 3424 Cx400. Automatic forward movement of grease. Capacity: 500g. Battery recharging time: 60min approx. Operating pressure: 400bar (Atm). Supplied with plastic case complete with batteries, battery charger, flexible pipe with length 1000mm, professional 4-jaw nozzle.

**3423ZG** Each **438,00**

Spare flexible pipes and nozzles are supplied on demand.



**3423ZG**



18V CE

**GREASE CARTRIDGES**

**Prod. SCU**

Universal high-quality grease in handy cartridges.

Size	<b>60</b>	<b>100</b>
Capacity	60 cc	100 g
Ø	mm	-
Suitable for compressors Art.	3422Sx60 - 3422Tx60 - 3423GCx100	3422P - 3422R - 3423GCx150
<b>3424C</b>	Each <b>5,68</b>	<b>4,96</b>
Size	<b>400</b>	<b>600</b>
Capacity	400 g	600 ml
Ø	mm	53
Suitable for compressors Art.	3423GC - 3423GD - 3423GE - 3423Hx500 - 3423L - 3423LE - 3423MG - 3423ZG	3423Hx750/1000 - 3423S
<b>3424C</b>	Each <b>5,52</b>	<b>7,66</b>



**3424C**



**GREASE FITTINGS**

**Prod. SCU**

Brass. Screw cover model, mod. STAUFFER.

Size	<b>1</b>	<b>2</b>	<b>3</b>
Thread drive	Gas 1/8	1/4	1/4
Body Ø	mm 17	20	31
<b>3424E</b>	Each <b>2,10</b>	<b>2,40</b>	<b>6,48</b>



**3424E**



Extensions for greasers mod. STAUFFER Art. 3424E

Size	<b>1</b>	<b>2</b>
Overall length	mm 120	120
Thread drive	Gas 1/8	1/4
<b>3424EP</b>	Each <b>8,10</b>	<b>9,52</b>



**3424EP**



**Orig. Hallbauer**

In special hardened steel, ANTI-RUST, ANTI-OXIDANT.

Hydraulic spheric head. DIN 71412. Straight type. In pack of approx. 100 pcs

Size	<b>1</b>	<b>2</b>	<b>2A</b>	<b>3</b>	<b>3A</b>	<b>4</b>	<b>5</b>
Thread drive	M. 6x1	8x1	8x1,25	10x1	10x1,5	1/8 Gas	1/4 Gas
Hexagon	mm 7	9	9	11	11	11	14
<b>3424GF</b>	Each <b>1,28</b>	<b>1,60</b>	<b>1,78</b>	<b>1,74</b>	<b>1,74</b>	<b>1,74</b>	<b>6,68</b>



**3424GF**



**10**

In zinc-coated hardened steel. Hydraulic spheric head. DIN 71412.

In pack of approx. 100 pcs

Straight.

Size	<b>1</b>	<b>2</b>	<b>2A</b>	<b>3</b>	<b>3A</b>	<b>3B</b>	<b>4</b>
Thread drive	M. 6x1	8x1	8x1,25	10x1	10x1,5	12x1,5	1/8 Gas
Hexagon	mm 7	9	9	11	11	14	11
<b>3424GR</b>	Each <b>0,24</b>	<b>0,26</b>	<b>0,26</b>	<b>0,32</b>	<b>0,32</b>	<b>1,04</b>	<b>0,32</b>



**3424GR**



Size	<b>5</b>	<b>6</b>
Thread drive	M. 1/4 Gas	1/8 NPT
Hexagon	mm 14	11
<b>3424GR</b>	Each <b>0,60</b>	<b>0,32</b>

## 3424GS



Product description as Art. 3424GR

45° angled.

Size		1	2	2A	3	3A	3B	4
Thread drive	M.	6x1	8x1	8x1,25	10x1	10x1,5	12x1,5	1/8 Gas
Hexagon	mm	9	9	9	11	11	14	11
<b>3424GS</b>	<b>Each</b>	<b>0,58</b>	<b>0,58</b>	<b>0,60</b>	<b>0,66</b>	<b>0,68</b>	<b>2,26</b>	<b>0,66</b>

Size		5	6
Thread drive	M.	1/4 Gas	1/8 NPT
Hexagon	mm	14	11
<b>3424GS</b>	<b>Each</b>	<b>1,22</b>	<b>0,96</b>

## 3424GT



Product description as Art. 3424GR

90° angled.

Size		1	2	2A	3	3A	3B	4
Thread drive	M.	6x1	8x1	8x1,25	10x1	10x1,5	12x1,5	1/8 Gas
Hexagon	mm	9	9	9	11	11	14	11
<b>3424GT</b>	<b>Each</b>	<b>0,58</b>	<b>0,58</b>	<b>0,60</b>	<b>0,66</b>	<b>0,70</b>	<b>2,26</b>	<b>0,66</b>

Size		5	6
Thread drive	M.	1/4 Gas	1/8 NPT
Hexagon	mm	14	11
<b>3424GT</b>	<b>Each</b>	<b>1,06</b>	<b>0,96</b>

## 3424GTP



Prod. SCU

PVC caps with retaining ring for spherical head grease fittings.

In packages of approx. 100 pcs.

<b>3424GTP</b>	<b>Each</b>	<b>0,10</b>
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## 3424GU



With flat head. In pack of approx. 100 pcs

With single upper hexagon 15mm for all sizes.

Size		00	0	0A	1	01	1A	2
Thread drive	M.	6x1	8x1	8x1,25	10x1	10x1,25	10x1,5	1/8 Gas
<b>3424GU</b>	<b>Each</b>	<b>0,46</b>	<b>0,46</b>	<b>0,46</b>	<b>0,46</b>	<b>0,58</b>	<b>0,46</b>	<b>0,46</b>

Size		3	7	8
Thread drive	M.	1/4 Gas	1/4 Ww	5/16 Ww
<b>3424GU</b>	<b>Each</b>	<b>0,46</b>	<b>0,80</b>	<b>0,80</b>

Sizes 7 and 8 running out of stock.

## 3424GW



Product description as Art. 3424GU

With double hexagon 15mm for all sizes.

Size		00	0	0A	1	01	1A	2
Thread drive	M.	6x1	8x1	8x1,25	10x1	10x1,25	10x1,5	1/8 Gas
<b>3424GW</b>	<b>Each</b>	<b>0,52</b>	<b>0,52</b>	<b>0,52</b>	<b>0,52</b>	<b>0,64</b>	<b>0,52</b>	<b>0,52</b>

Size		3	4	5	7	8
Thread drive	M.	1/4 Gas	12x1,5	12x1,75	1/4 Ww	5/16 Ww
<b>3424GW</b>	<b>Each</b>	<b>0,52</b>	<b>0,52</b>	<b>0,52</b>	<b>0,86</b>	<b>0,86</b>

Sizes 7 and 8 running out of stock.

## 3424GZ



Orig. Hallbauer

With concave head. DIN 3405. In pack of approx. 100 pcs

Size		1	2	2A	3	3A	4	5
Thread drive	M.	6x1	8x1	8x1,25	10x1	10x1,5	1/8 Gas	1/4 Gas
Hexagon	mm	7	9	9	11	11	11	14
<b>3424GZ</b>	<b>Each</b>	<b>0,42</b>	<b>0,46</b>	<b>0,46</b>	<b>0,46</b>	<b>0,60</b>	<b>0,62</b>	<b>0,88</b>

## 3424GZ 110



Set of grease fittings.

In handy box to have them readily available.

It contains No. 110 pcs:

No.30 pcs. Art. 3424 GR x 1

No.20 pcs. Art. 3424 GR x 2

No.10 pcs. per type Art. 3424 GR x 3-4

No.5 pcs. per type Art. 3424 GS x 1-4

No.10 pcs. Art. 3424 GS x 2

No.5 pcs. per type Art. 3424 GT x 1-4

No.10 pcs. Art. 3424 GT x 2

Complete set.

<b>3424GZ 110</b>	<b>Each</b>	<b>70,20</b>
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Set of grease fittings.  
 In handy box which makes them readily available.  
 Contains 230 pieces:  
 50 pieces Art. 3424 GR x 1  
 25 pieces Art. 3424 GR x 3-4  
 10 pieces per type Art. 3424 GS x 1-2-3-4  
 10 pieces per type Art. 3424 GT x 1-2-3-4  
 Complete set.

**3424GZ 230** Each **168,00**

Set of 475 pcs is available on request.



**3424GZ 230**



**Prod. SCU**

In hardened, galvanized steel. Bayonet grease nipple. GAS pitch thread.

Thread drive	M.	1/8	1/4
<b>3424GZE</b>	Each	<b>2,82</b>	<b>3,42</b>

For grease nipple see Art. 3425 HE.



**3424GZE**

**HEADS AND FLEXIBLES**

**Prod. SCU**

Connecting thread M 10x1.  
 3-jaw nozzles in zinc-coated hardened steel, for grease.

**3425** Each **2,12**



**3425**

Product description as Art. 3425  
 4-jaw zinc-coated hardened steel, turned, for grease.

**3425A** Each **2,22**



**3425A**  
**3425A 4**

Product description as Art. 3425  
 EXCELLENTE professional type, 4-jaw zinc-coated hardened steel, turned, machine finished, finely galvanised, for grease and oil.

**3425A 4** Each **2,32**

**Orig. Hallbauer**

Product description as Art. 3425  
 4-jaw zinc-coated hardened steel, turned and ground for maximum grease and oil seal.

**3425B** Each **4,00**



**3425B**

**Prod. SCU**

Product description as Art. 3425  
 Nickel-plated steel caps with spheric nozzle for fittings.

**3425D** Each **0,40**



**3425D**

Product description as Art. 3425  
 Galvanised steel caps with flared nozzle for fittings.

**3425E** Each **0,40**



**3425E**

Product description as Art. 3425  
 Convex zinc-plated brass caps for fittings with hexagon or round nozzle 15mm.

**3425F** Each **5,30**



**3425F**

Product description as Art. 3425  
 Standard brass caps for fittings with hexagon or round nozzle 15mm.

**3425G** Each **3,82**



**3425G**

**Orig. Hallbauer**

Product description as Art. 3425  
 Standard zinc-coated brass caps for fittings with hexagon or round nozzle 15mm.

**3425G 16** Each **9,28**



**3425G 16**

3425G 22



Product description as Art. 3425  
Zinc-coated brass caps for tracks, for hexagon-shaped fittings 22mm.

<b>3425G 22</b>	Each	<b>16,30</b>
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3425H



**Prod. SCU**  
Product description as Art. 3425  
Zinc-plated brass caps for tracks, for hexagon-shaped fittings 22mm.

<b>3425H</b>	Each	<b>10,50</b>
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3425HE



Product description as Art. 3425  
Zinc-plated brass caps for bayonet grease nipples Art. 3424 GZE 1/8 - 1/4.

<b>3425HE</b>	Each	<b>19,90</b>
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3425L



Product description as Art. 3425  
Reinforced nylon flexible pipes.

Overall length	mm	<b>300</b>	<b>400</b>	<b>500</b>
<b>3425L</b>	Each	<b>2,96</b>	<b>3,20</b>	<b>3,52</b>

3425M



Product description as Art. 3425  
Safety flexible pipes according to DIN 1283 standards, in reinforced rubber with high-performance steel braid, tested at a pressure of max. 1000bar. Diameter: 11mm.

Overall length	mm	<b>300</b>	<b>500</b>	<b>700</b>
<b>3425M</b>	Each	<b>3,34</b>	<b>4,20</b>	<b>5,08</b>

3425T



**Orig. Hallbauer**  
Product description as Art. 3425  
Safety flexible pipes according to DIN 1283 standards, in reinforced rubber with high-performance steel braid, tested at a pressure of max. 1600bar. Diameter: 13mm.

Overall length	mm	<b>300</b>	<b>500</b>	<b>1000</b>
<b>3425T</b>	Each	<b>15,30</b>	<b>23,10</b>	<b>37,10</b>

3425V



**Prod. SCU**  
Product description as Art. 3425  
Rigid steel pipes with total length: 150mm.

<b>3425V</b>	Each	<b>1,42</b>
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### GREASE REFILLING PUMPS FOR GUNS

10 3426GE



**Orig. Hallbauer**  
For refilling lever guns and grease guns equipped with air/refilling valve.  
For Art. 3423 GCx150-500 - 3423 GD - 3423 H - 3423 MG.  
The follower plate allows to check the grease level. Dust cover with fastening hooks. Approved by "TÜV" and "GS".

Without barrel.

For drums content	Kg	<b>10</b>	<b>20</b>	<b>25</b>	<b>50</b>
For drums int Ø	mm	215-230	285-305	300-335	355-387
<b>3426GE</b>	Each	<b>220,00</b>	<b>236,00</b>	<b>236,00</b>	<b>305,00</b>

Only for refilling of guns, not for greasing.

### HAND-OPERATED LUBRICATION SYSTEMS

3426GH



**Orig. Hallbauer**  
Hand-operated.  
Lubricates by using grease directly from barrels.  
Consists of:  
1 lever pump with suction tube.  
1 follower plate.  
1 dust cover with fastening hooks.  
1 rubber hose of 1.5m and connecting thread.  
1 rigid rod with length 150mm complete with professional 4-jaw nozzle.

Without barrel.

For drums content	Kg	<b>20</b>	<b>50</b>
For drums int Ø	mm	285-305	355-387
<b>3426GH</b>	Each	<b>320,00</b>	<b>428,00</b>

**Prod. SCU**

Hand-operated.  
Lubricates by using grease directly from barrels.  
Consists of:  
1 lever pump with suction tube.  
1 follower plate.  
1 dust cover with fastening hooks.  
1 rubber hose of 3m complete with rigid rod and nozzle.  
Without barrel.

For drums content	Kg	25
For drums int Ø	mm	280-310
<b>3426L</b>	<b>Each</b>	<b>166,00</b>

SCU



**3426L**

Manual type with tank.

Lubricates by using grease from barrel made from sturdy painted steel.  
Lever pump with rubber hose approx. 1.5m in length, complete with rigid rod and nozzle.

Tank capacity	Kg	<b>8</b>	<b>12</b>	<b>16</b>
<b>3426P</b>	<b>Each</b>	<b>116,00</b>	<b>120,00</b>	<b>130,00</b>

SCU



**3426P**

**AIR OPERATED LUBE EQUIPMENTS**

**Orig. Hallbauer**

Air-operated, with very high performances for oils and greases up to consistency grade 3.  
In anti-rust material and special anti-wear gaskets.  
Pump capacity: 600g per min., with output pressure 400bar (Atm).  
Pistol for one-hand use, 360° swinging.  
Safety valve set up to 8bar (Atm).

Consists of:  
1 pump with compressed air motor.  
1 pistol with connection and nozzle.  
1 follower plate.  
1 high-pressure tube length 3.5m.  
1 dust cover.  
1 trolley for barrels.

For drums content	Kg	<b>20</b>	<b>25</b>	<b>50</b>
For drums int Ø	mm	275-300	300-335	355-387
<b>3427GE</b>	<b>Each</b>	<b>1.550,00</b>	<b>1.550,00</b>	<b>1.620,00</b>

h7



**3427GE**

Spare follower plate for Art. 3427 GE.

For drums content	Kg	<b>20</b>	<b>25</b>	<b>50</b>
<b>O3427GE</b>	<b>Each</b>	<b>59,40</b>	<b>80,50</b>	<b>115,00</b>

CE

**Prod. SCU**

Motor-operated with compressed air.  
In anti-rust material and special anti-wear gaskets.  
Pump capacity: 500g per min., with output pressure 400bar (Atm).  
Pistol for one-hand use.

Consists of:  
1 pump with compressed air motor.  
1 pistol with connection and nozzle.  
1 follower plate.  
1 high-pressure tube length 3m.  
1 dust cover with fastening hooks.  
1 trolley for barrels.

Size		<b>30</b>	<b>60</b>
For drums content	Kg	20-30	50-60
For drums int Ø	mm	265-290	355-390
<b>3427H</b>	<b>Each</b>	<b>856,00</b>	<b>979,00</b>

SCU



**3427H**

CE

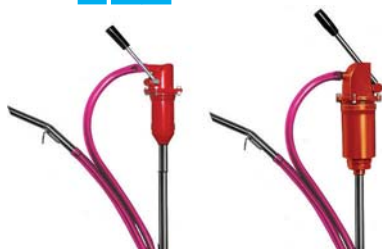
Spare follower plate for Art. 3427 H.

Size		<b>30</b>	<b>60</b>
<b>O3427H</b>	<b>Each</b>	<b>59,20</b>	<b>70,50</b>

**10**

## LEVER ACTION PUMPS

3427L SCU

**Prod. SCU**

Pump with metal piston and valve for continuous suction of liquids. Lever-operated. Connecting thread M 64x4 and bung adaptor G 2". Suction tube max length: 800mm. Liquids output, PVC hose with max length: 1000mm. Apt for naphtha, diesel fuel, oils, antifreezers and petroleum. Not apt for solvents, detergents, gearbox oils, acids and gasoline.

Load capacity	l/min.	25	60
<b>3427L</b>	Each	<b>56,10</b>	<b>66,20</b>

3427LG

**Orig. Hallbauer**

Pump with metal piston and valve for continuous suction of liquids. Lever-operated. Connecting thread for big barrels (200l). Suction tube in synthetic material with max length: 800mm. Liquids output, PVC hose with max length: 1000mm. Apt for naphtha, diesel fuel, heating oils, hydraulic oils and motor oils, etc. Not apt for solvents, detergents, gearbox oils, acids and gasoline. Output: 0.2l per stroke.

<b>3427LG</b>	Each	<b>53,90</b>
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3427LH SCU

**Prod. SCU**

Heavy type, semi-rotary double acting (suction and filler) pump, lever-operated. Complete with liter-counter and hand delivery pistol. Bung adaptor G 2". Suction tube max length: 1000mm. Liquids output rubber hose with max length: 2000mm. Apt for naphtha, diesel fuel, antifreezers and petroleum. Not apt for solvents, detergents, gearbox oils, acids and gasoline. Output: 25l/min. Weight: 11.5kg

<b>3427LH</b>	Each	<b>1.060,00</b>
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3427M SCU



Rotary double acting (suction and filler) pump, crank-operated.

Bung adaptor G 2". Suction tube max length: 1000mm. Liquids output PVC hose with max length: 1000mm. Apt for naphtha, diesel fuel, antifreezers and petroleum. Not apt for solvents, detergents, gearbox oils, acids and gasoline. Output: 0,4l each turn.

<b>3427M</b>	Each	<b>81,10</b>
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3427P SCU



Rotary double acting (suction and filler) pump, crank-operated. In stainless steel AISI 316.

Bung adaptor G 2". Stainless steel AISI 316 suction tube max. length: 1000mm. Liquid output reinforced rubber hose max length: 2000mm. Ending part in stainless steel AISI 316.

Apt for petrol, alcohol, acids, solvents, detergents, liquid food, water, etc. Output: 44l/min.

<b>3427P</b>	Each	<b>2.290,00</b>
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INOX



**BARREL PVC PUMPS**

**Prod. SCU**

Apt for naphtha, diesel fuel, kerosene. With filter and ballgrip.

Takeup pipe length	mm	<b>750</b>	<b>1000</b>
<b>3427R</b>	Each	<b>23,40</b>	<b>24,90</b>



**3427R**

**BARREL PUMPS FOR FUELS**

**Prod. SCU**

Lever-operated pump with diaphragm. Body in special synthetic material, diaphragm in Viton and metal components in stainless steel. Can work both in horizontal and vertical position by fastening it with 4 screws or directly on the barrel by means of bung adaptor G 2". Supplied without tubes, but arranged for 3 connections Ø 27-33-38mm. Suction tube max length: 5m, delivery hose max length: 8m. For gasoline, fuels in general, fuel oils and water. Max length when closed: 350mm. Output: 40l/min. Weight: 0.750kg

<b>3427S</b>	Each	<b>170,00</b>
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**3427S**

**BARREL PUMPS FOR LIQUIDS**

**Prod. SCU**

Lever-operated pump with diaphragm. Body in special synthetic material, highly corrosion-resistant. Can work both in horizontal and vertical position (wall-mounted), or directly on barrels by means of the special support with bung adaptor M 64x4 and G 2". Suction tube length: about 1.20m, with filter. Delivery hose length: about 2m, with nozzle. Fastening screws and ties in stainless steel.

Output: 25l/min. Weight: 2.95kg. Operating temperature: -10° to +40° C.

Apt for water, seawater, diesel oil, mineral and synthetic oil, engine oil, glycol (anti-freeze), dielectric liquid (kerosene), heating oil, emulsions.

<b>3427SE</b>	Each	<b>89,10</b>
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**3427SE**

Pumps suitable for decanting liquid foodstuffs are available on request.

**BARREL PUMPS**

**Prod. SCU**

Lever-operated pump with metal body.

Bung adaptor G 2".

Suction telescopic tube max length: 900mm approx.

Liquids output PVC hose with max length: 1000mm approx.

Apt for naphtha, diesel fuel and all fluid oils.

Not apt for solvents, detergents, acids and gasoline.

Output: 30l/min.

<b>3427T</b>	Each	<b>82,50</b>
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**3427T**

**Orig. Hallbauer**

Professional type, lever-operated pump with heavy metal body.

Connecting thread M 64x4 and bung adaptor G 2".

Suction telescopic tube max length: 900mm approx. Output: 0.5l per stroke. PVC hose length: 2m with spout and anti-bending spring. Apt for naphtha, diesel fuel and all fluid and thick oils. Not apt for solvents, detergents, acids and gasoline.

<b>3428GB</b>	Each	<b>74,10</b>
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**3428GB**

**10**

3428GC

SCU

**Prod. SCU**

model with lever and pump body in polypropylene.

Threaded connection G 2".

Possibility of pumping by hand or with continuous flow system (siphon effect).

Max length of telescopic tube 1000 mm draught c.ca.

Provision for pumped 1 0.5. PVC corrugated pipe length. m 2.

For urea (AdBlue®), high viscosity oils, water-based liquids, detergents, soaps, washer fluid, antifreeze, lubricants, herbicides and pesticides.

Not suitable for motor fuel, thinners, solvents, etc.

3428GC Each 140,00

### BARREL PUMPS FOR CHEMICALS

3428GD

hv

**Orig. Hallbauer**

Indicated for aggressive chemicals. Not apt for diluents and solvents. Bung adaptor G 2".

Polypropylene body with inside stainless steel rod and gaskets in special synthetic material.

Ballgrip.

Output: 0.25l per stroke.

3428GD Each 64,30

3428GDA

hv



Indicated for very aggressive chemicals, solvents NITRO diluents and varnishes. Bung adaptor G 2".

Polypropylene body with inside stainless steel rod and gaskets in special synthetic material.

Ballgrip.

Output: 0.25l per stroke.

3428GDA Each 173,00

Adaptors for connecting threads 38-64mm, for Art. 3428 GD / 3428 GDA.

O3428G 1 Each 8,94

Connecting thread "Tri-Sure 2", for Art. 3428 GD / 3428 GDA.

O3428G 2 Each 8,66

3428GE

hv



Indicated for very aggressive chemicals and acid solvents.

Connecting thread M 64x4 and bung adaptor G 2".

Output: 0.5l per stroke. Steel body. Suction telescopic tube max length: 900mm. PTFE gaskets.

Special rubber hose, 2m long, valve with outlet tube, metal spout and anti-bending spring.

3428GE Each 120,00

3428GF

hv



Special type for NITRO thinners and thinners for paints.

Connecting thread M 64x4 and bung adaptor G 2".

Output: 0.5l per stroke. Steel body. Suction telescopic tube max length: 900mm. Gaskets in special material.

Special rubber hose, 2m long, valve with outlet tube, metal spout and anti-bending spring.

3428GF Each 120,00

**Prod. SCU**

Indicated for very aggressive chemicals. Not apt for diluents and solvents.  
 Bung adaptor G 2".  
 Lever pump with acid-proof rubber diaphragm, alternate movement.  
 Output: 38l/min. Body in metal/special synthetic material. Suction PVC hose with length: 1000mm. Liquids output, flexible rubber tube with length 2000mm with spout.

**3428L** Each **582,00**

SCU



**3428L**

**BATTERY ELECTRIC PUMPS**

**Prod. SCU**

Pump in special synthetic material, highly corrosion-resistant, with metal parts in galvanized steel.  
 Connecting thread M 64x4 and bung adaptor G 2". Hose connection Ø 18mm for suction pipe extension up to 1m. Intake filter. Rubber delivery tube, about 2,5m long. Fuelling gun. Clamps.  
 Operating temperature -10° C to +40° C.  
 12V battery operated, with cables.  
 Apt for diesel oil and naphtha (not for petrol).  
 Output: 35l/min.

**3428P** Each **271,00**

SCU



**3428P**



12 V for battery operation.  
 Indicated for naphtha and diesel fuel (not for gasoline or colza oil). Pump supplied with suction tube, 1m long, filter and barrel Adaptor G 2". Connecting cable, 1.8m LONG, with clamps. Gun and 4m long tube. Output: 40l/min.

**3428R** Each **487,00**

SCU



**3428R**



**SPARE PARTS FOR ELECTRIC PUMPS**

**Prod. SCU**

Pump in special synthetic material, highly corrosion-resistant, with metal parts in galvanized steel.  
 Connecting thread M 64x4 and bung adaptor G 2". Hose connection Ø 18mm for suction pipe extension up to 1m. Intake filter. Rubber delivery tube, about 2,5m long. Fuelling gun. Clamps.  
 Operating temperature -10° C to +40° C.  
 230 V - 50 Hz monophase motor with double insulation, supplied with cable and plug. On/off switch.  
 Apt for diesel oil and naphtha (not for petrol).  
 Output: 40l/min.

**3428RE** Each **244,00**

SCU



**3428RE**



Indicated for naphtha and diesel fuel (not for gasoline or colza oil). 230 V monophase engine.  
 Suction tube, 1m long, filter and barrel adaptor G 2".  
 On/off switch and 1.8. long cable with plug.  
 Gun and 4m long tube. Output: 40l/min.

**3428S** Each **514,00**

SCU



**3428S**



3428TG

**Orig. Hallbauer**

Industrial model. Particularly indicated for naphtha, diesel fuel and biodegradable fuels (not for gasoline or colza oil). Automatic delivery of liquid when the engine is started.

V 230 50 Hz - kW 0.37 monophase engine. Suction tube, 1.6m long, filter and barrel adaptor G 2". On/off switch and 3m long cable with plug. Equipped with automatic gun with limit switch operated when filling is complete.

(According to the distribution system). Special rubber suction hose with length 4m.

Output: 60l/min.

3428TG	Each	767,00
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Digital liter-counter, with zerosetting and summation for Art. 3428 TG.

O3428TG 1	Each	326,00
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Non-resettable mechanical litre meter for Art. 3428 TG.

O3428TG 2	Each	162,00
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Product running out of stock.

Spare automatic pistol for Art. 3428 TG.

O3428TG 3	Each	188,00
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3428TL

SCU

INOX

**Prod. SCU**

Pump in special synthetic material, highly corrosion-resistant, with metal parts in stainless steel. Connecting thread M 64x4 and bung adaptor G 2". Hose connection Ø 18mm for suction pipe extension up to 1m. Intake filter. Rubber delivery tube, about 3m long. Fuelling gun. Clamps. Operating temperature -10° C to +40° C.

230 V - 50 Hz monophase motor with double insulation, supplied with cable and plug. On/off switch. Apt for oils, lubricants, glycol (anti-freeze), dielectric oils, heating oil, diesel oil, water and emulsions.

Output: 40l/min.

3428TL	Each	295,00
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The same pump but 12 V battery operated, with cables is available on request.

**WALL-MOUNTED ELECTRIC PUMPS**

3428V

SCU

**Prod. SCU**

Industrial type. Particularly indicated to be mounted on walls.

Apt for diesel fuel, naphtha (not for gasoline or colza oil).

V 230 monophase engine. Mechanic liter-counter and automatic gun with limit switch when filling is complete (According to the distribution system).

Suction tube with filter, 4m long. Delivery tube, 4m long.

Output: 58l/min.

3428V	Each	1.110,00
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**SUCTION AND DELIVERY HOSES FOR FUELS AND OILS**

3428Z

SCU

**Prod. SCU**

Sturdy and flexible PVC hoses, blue colour. Semi-smooth outside surface. Operating temperature: -10 °C +60 °C. Can be used to deliver fuels and industrial oils, etc. Working pressure: 5-8 bar (Atm). Rolls of 30m approx. Not sold separately.

Ø	mm	50
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Thickness	mm	5
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3428Z	Per meter	15,50
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Product running out of stock.

**ADHESIVES, SEALING AGENTS AND GLUES**
**Prod. SCU**

Anaerobic adhesives for metallic threads.  
 Operating temperature from -50° C to + 150° c.  
 Average setting time up to 3 hours (for stainless steel up to 6 hours).

**THREAD LOCKER**

MEDIUM BRAKING type for dismantling of assembled pieces using conventional tools. Resistant to common lubricant oils and solvents that are not excessively aggressive. For threads with maximum Ø M 36. In 50 ml bottles. Blue.

**3429 2** Each **13,20**



**3429 2**

Product description as Art. 3429 2

**THREAD LOCKER**

STRONG BRAKING type for complete unlocking of assembled pieces; gives good resistance to oils, solvents etc.. For threads with maximum Ø M 20. In 50 ml bottles. Green.

**3429 4** Each **13,20**



**3429 4**

Anaerobic sealants for metal threads.

Operating temperature from -50° C to + 150° c.  
 Average setting time up to 3 hours (for stainless steel up to 6 hours).

**THREAD LOCKER**

MEDIUM RESISTANCE type sealing all types of thread from water, air, gas and making them particularly resistant to oils. For threads with maximum Ø up to 2". In 50 ml bottles. Red.

**3429 6** Each **13,20**



**3429 6**

Product description as Art. 3429 6

**THREAD SEAL**

HIGH RESISTANCE type sealing all types of thread from water, air, gas etc. For threads with maximum Ø up to 2". In 75 ml bottles. Fluorescent yellow.

**3429 8** Each **16,60**



**3429 8**

Anaerobic Fixer Blocker for metallic threads.

Operating temperature from -50° C to + 150° c.  
 Average setting time up to 3 hours (for stainless steel up to 6 hours).

**THREAD LOCKER**

HIGH RESISTANCE type to lock threaded joints to cylindrical connections, including very large ones. In 50 ml bottles. Green.

**3429 10** Each **13,20**



**3429 10**

Instant universal adhesives based on cyanoacrylate, ethyl ester. Allow paste firmly various kinds of materials such as steel, rubber, leather, wood, plastics, cardboard etc.

In 20 gram bottles.

**3429 12** Each **8,98**



**3429 12**
**10**

Instant universal adhesives based on cyanoacrylate, ethyl ester. High viscosity GEL, that allows to fill any spaces without strain and vertical applications. Suitable for gluing, steels, plastics rubber on metal surfaces.

In 20 gram tubes.

**3429 14** Each **13,90**



**3429 14**

Adhesives, sealants "GASKET SHAPE" silicone resists high temperatures up to 315° c. Thanks to polymerization for reaction to the atmospheric humidity is ideal for sealing oil cups, differentials, gear boxes, flanges, compressors, pipes with hot liquids. The elastic seal that forms is resistant to vibration, high temperature, oils, chemical agents, etc. Hardening time up to 24 hours.

In 80 gram tubes. Red.

**3429 18** Each **10,40**



**3429 18**

**WASHING AND LUBRICATING SPRAY GUNS**
**3429A****SCU****Prod. SCU**

Body in special die-cast aluminium. Unified quick coupling. Apt for naphtha and graphitized oil. Tank capacity: 1l. Operated by compressed air.

Operating pressure: 3-4bar (Atm).

With painted steel tank.

<b>3429A</b>	Each	<b>15,40</b>
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**3429B****SCU**

Product description as Art. 3429A

With aluminium tank.

<b>3429B</b>	Each	<b>20,50</b>
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**3430G****ewo****Orig. Ewo - Art. 125**

With straight brass pipe. High-performance spray. Forged aluminium body. Tank made of nylon, unbreakable, indeformable and protected against oils or solvents. Constant check of the content. Does not leave any sign when it collides against glass surfaces. Does not bruise when it falls down. Capacity: 0.700l. Total length: 450mm. Operated by compressed air.

Operating pressure: 3-4bar (Atm). Unified quick coupling.

<b>3430G</b>	Each	<b>115,00</b>
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**3434G****ewo****Orig. Ewo - Art. 355**

Spray model. Great liquid economy. Does not poison the environment. Straight brass pipe. Aluminium body. Tank made of nylon, unbreakable, indeformable and protected against oils and solvents. Constant check of the content. Does not leave any sign when it collides against glass surfaces. Does not bruise when it falls down. Capacity: 0.700l. Operated by compressed air.

Operating pressure: 3-4bar (Atm). Unified quick coupling.

<b>3434G</b>	Each	<b>148,00</b>
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**SAND BLASTING GUNS**
**3435L****SCU****Prod. SCU**

Apt for eliminating rust on all metal surfaces. Body in aluminium die casting, aluminium tank. Hole nozzle 6 mm. Operating pressure 6-8 bar (Atm). Unified quick coupling.

Tank capacity: 1kg.

<b>3435L</b>	Each	<b>16,10</b>
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**3435S****SCU**

Apt for eliminating rust on all metal surfaces. nickel-plated brass body, aluminium body. Nozzle hole: 6mm. Operating pressure 2-8 bar (Atm). Unified quick coupling.

Tank capacity: 1kg.

<b>3435S</b>	Each	<b>59,30</b>
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Spare nozzle for Art. 3435 S.

<b>O3435S</b>	Each	<b>15,80</b>
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**Orig. Ewo - Art. 390**

Particularly indicated for eliminating rust from car bodies. The renewed surface can then be painted again. Also useful in any sand blasting activity.  
 Optimal operating distance: 300mm.  
 Operating pressure: 4-6bar (Atm).  
 Nozzle in hardened alloy steel Ø 4mm.  
 Unified quick coupling.  
 Forged aluminium body. Plastic tank with capacity: 1kg.

**3436G** Each **125,00**

Spare nozzle for Art. 3436 G.

**O3436G** Each **24,30**

**ewo**

**3436G**



**Prod. SCU**

Type to eliminate rust on large metal surfaces. With reinforced pipe and metal sand extraction pipe. Nickel-plated brass body.  
 Nozzle aperture 6mm. Unified quick coupling. Pipe length 1.8 m.

**3436R** Each **85,20**

Spare nozzle for Art. 3436 R.

**O3436R** Each **6,92**

**SCU**

**3436R**



**SPRAY GUNS FOR UNDERBODY MATERIAL**

**Prod. SCU**

Apt for spraying antinoise, underbody, bituminous, antivibrations products.  
 Body in aluminium die casting, aluminium tank. Unified quick coupling.  
 Tank capacity: 1kg.

**3437C** Each **16,10**

**SCU**



**3437C**



Apt for spraying antinoise, underbody, bituminous, antivibrations products.  
 nickel-plated brass body, aluminium tank. Unified quick coupling.  
 Tank capacity: 1kg.

**3437E** Each **50,10**

Spare nozzle for Art. 3437 E.

**O3437E** Each **2,34**

**SCU**

**3437E**



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**Orig. Ewo - Art. 318**

Particularly indicated for car body shops and repair shops in general. Ideal to spray underbody paint. Body and tank in aluminium. Big-capacity gun for all kinds of paints. Unified quick coupling.  
 Tank capacity: 1l. Adjusting screw for fine spraying.

**3437G** Each **223,00**

Spare nozzle for Art. 3437 G.

**O3437G** Each **14,30**

Plastic, flexible extension, length 700mm, for Art. 3437 G.

**O3437GP** Each **18,10**

**ewo**

**3437G**



**PAINT SPRAY GUNS**
**3440 SCU**

**Prod. SCU**

Nickel-plated brass body, aluminium lower tank.  
Nozzle hole 1.5mm. Adjustable round-shaped and fan-shaped spray. Unified quick connection.  
Tank capacity: 1kg

<b>3440</b>	Each	<b>31,40</b>
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Spout-nozzle and adjusting plug series.

With nozzle Ø	mm	1,2	1,5	2	2,5
<b>O3440</b>	Per set	5,78	5,78	5,78	5,78

**3440B SCU**

**CE**

Professional type. nickel-plated brass body, aluminium lower tank.  
Finely adjustable round-shaped or fan-shaped spray, with stainless steel needle.  
Nozzle hole: 1.5mm Unified quick coupling.  
Tank capacity: 1kg.

<b>3440B</b>	Each	<b>91,90</b>
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Spout-nozzle and adjusting plug series.

With nozzle Ø	mm	1,2	1,5	1,9	2,5
<b>O3440C</b>	Per set	21,80	21,80	21,80	21,80

**3442A SCU**


Nickel-plated brass body, aluminium upper tank.  
Nozzle hole: 1.5mm. Adjustable round-shaped or fan-shaped spray. Unified quick coupling.  
Tank capacity 0.5kg.

<b>3442A</b>	Each	<b>31,40</b>
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Series nozzle/spout and adjusting plug see Art. 03440.

**3442D SCU**  
**3442E**

**CE**

Professional model. Nickel-plated brass body, aluminium upper tank.  
Finely adjustable round-shaped or fan-shaped spray, with stainless steel needle.  
Nozzle hole: 1.5mm Unified quick coupling.  
Tank capacity: 0.5kg.

<b>3442D</b>	Each	<b>77,30</b>
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Series nozzle/spout and adjusting plug see Art. 03440 C.

Product description as Art. 3442D

Tank capacity: 1kg.

<b>3442E</b>	Each	<b>78,80</b>
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Series nozzle/spout and adjusting plug see Art. 03440 C.

**3442GP ewo**

**CE**
**Orig. Ewo - Art. 250**

High-performance industrial type. Manufactured in compliance with European standards. Good paint saving. Does not poison the environment. Adjusting inside plug and additional spray adjustment which allows performing basic and finish works. Interchangeable spouts. Body in cleaned, nickel-plated aluminium alloy. Light and handy; spouts/nozzles/adjusting plugs in stainless steel, tank in white-transparent polyethylene with drip-catcher and scaling, capacity 0.68l. Operating pressure: 2 bar (Atm). External connecting thread G 1/4" and nipple. Supplied in handy plastic box with cleaning-maintenance set and spare filters. Max operating temperature: 40°C, air consumption at 2 bar: 200 l/mm.

Hole nozzle 1.3mm.

<b>3442GP</b>	Each	<b>257,00</b>
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Spout-nozzle and adjusting plug series.

With nozzle Ø	mm	1,3	1,5	1,7	1,9	2,2
<b>O3442GP</b>	Per set	64,60	64,60	64,60	64,60	64,60



**MINI PAINT SPRAY GUNS**

**Prod. SCU**

Professional model.  
Apt for modelling, touching up, decorations and small works.  
Nickel-plated brass body, white polyamide upper tank.  
Nozzle hole: 0.5mm. Unified quick coupling. Tank capacity: 0.125 kg. Operating pressure 1-2 bar (Atm).

**SCU**

**3443**



**3443** Each **73,80**

Spout-nozzle and adjusting plug series.

With nozzle Ø	mm	0,3	0,5	0,7
<b>O3443</b>	<b>Per set</b>	<b>20,60</b>	<b>20,60</b>	<b>20,60</b>

**Orig. EWO - Art. 250 - MINIPAINT**

High-performance super-industrial type.  
Manufactured in compliance with European standards. Good paint saving. Does not poison the environment. Adjusting inside plug and additional spray adjustment which allows to perform finish applications, modelling, touching up, decorations. Interchangeable spouts. Body in polished, nickel-plated aluminium alloy. Very light and handy, spouts/nozzles/adjusting plugs in stainless steel, 2 interchangeable tanks in white-transparent polyethylene with drip-catcher, capacity 0.25l and 0.075l.  
Operating pressure: 2 bar (Atm). External connecting thread G 1/4" and nipple. Supplied in handy plastic box with cleaning-maintenance set and spare filters. Max operating temperature: 40°C, air consumption at 2 bar: 100 l/mm.  
Hole nozzle 0.7mm.

**ewo**

**CE**

**3443G**



**3443G** Each **155,00**

Spout-nozzle and adjusting plug series.

With nozzle Ø	mm	0,7	1	1,2
<b>O3443G</b>	<b>Per set</b>	<b>48,80</b>	<b>48,80</b>	<b>48,80</b>

**MICROMETRIC ADJUSTERS**

**Orig. Ewo - Art. 250.01**

Micrometric adjuster, light and small size model for low pressure. Especially required for air inlet fine adjustment. Supplied with pressure gauge. Adjustable from 0 to 2.5 bar (Atm).  
Direct connection to the handgrip of spray guns Ewo Art. 3442 GP and 3443 G or other devices having similar characteristics.  
Inner/outer threaded connector G 1/4".

**ewo**

**3443GE**



**3443GE** Each **40,60**

**ELECTRIC PAINT SPRAY GUNS**

**Prod. SCU**

Professional model.  
With double insulation approved by "TÜV" and "GS". Apt for paints, lakes, oils, disinfectants, insecticides. Adjustable spray up to 300 gr/min.  
Viscosity according to DIN standards. Power: W 100, V 230.  
Tank: 900ml.  
With 3 nozzles 0.6 / 0.8 / 1.0mm and a flexible nozzle.

**SCU**

**CE**

**3444GA**



**3444GA** Each **49,10**

Spare nozzles for guns Art. 3444 GA are not available.

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**GUNS FOR SILICON, SEALING AND FIXING**

**Prod. SCU**

Made of steel. With clutch movement which grants high extrusion force. For cartridges of 280/310ml.  
Without cartridge.

**SCU**

**3444M**



**3444M** Each **2,96**

**3444M 1** SCU

Professional model with aluminium body. High-resistance hexagon-shaped pushing rod. Clutch movement with sealing drip-catching system. For cartridges of 280/310g.

Without cartridge.

**3444M 1** Each **4,62**

**3444M 5** SCU

Professional model with body in aluminium. Clutch movement, reinforced, with rotating cartridge holder. Epoxydic powder painting. For 280/310ml cartridges.

Without cartridge.

**3444M 5** Each **20,40**

**3444P** SCU

Professional model with handle and die-cast lever.

Clutch movement, with rotating cartridge holder, ideal for works in progress.

For cartridges of 280/310ml.

Without cartridge.

**3444P** Each **7,02**

**3444P 1** SCU

Industrial model with body in light alloy, sturdy and ergonomic. Pushing rod with wear compensation (W.D.C), which allows constant high performances, even after long use. For cartridges of 280/310g.

Without cartridge.

**3444P 1** Each **28,40**

**3444Q** SCU

Industrial model with very sturdy handle and lever.

Clutch movement, with rotary cartridge holder and square lubricated rod which allows soft operation and powerful pressure.

For cartridges of 280/310ml.

Without cartridge.

**3444Q** Each **91,40**

**3444R** SCU

Operated by compressed air; high-performance industrial model, to be used with cartridge.

Nickel-plated brass body, aluminium tank.

For cartridges of 280/310ml.

Without cartridge.

**3444R** Each **72,10**

Battery silicone guns available on request.

### SILICON-SEALING AND FIXING CARTRIDGES

**3444T** SCU

Prod. SCU

Cartridges of pure transparent acetic silicone of 280g. For glasses, crystals, metal casing in aluminium, ceramic, metals, concrete, masonry, etc. Inalterable in time, resistant to U.V. rays.

**3444T** Each **4,50**

Package unit of 24 cartridges.

**3444V** SCU

Cartridges of single-component polyurethane sealing, white, of 300ml, for building, carpentry, tinkers, etc. Can be painted over.

**3444V** Each **9,64**

Package unit of 12 cartridges.

Cartridges of chemical fixative, fast hardening, made of styrene-free polyester resin for injection with 2 components from 280 ml. For drilled and filled building materials, in ceilings, walls, floors, etc.

Equipped with mixing nozzle.

**3444VE** Each **11,20**

Pack of 12 cartridges.

SCU

**3444VE**  
new



**GUNS FOR POLYURETHANE FOAM**

Prod. SCU

Light type with cast body, handle made from synthetic material and adjustment screw. Triple seal gasket made from PTFE. Suitable for cartridges Art. 3444 ZA - B.

**3444Z** Each **33,70**

SCU

**3444Z**



**POLYURETHANE FOAM CARTRIDGES**

Prod. SCU

Polyurethane foam in screw cartridges of 750ml. Apt for fixing, refilling and insulating. According to B3 DIN 4102-1 standards. Can be used with gun Art. 3444 Z.

**3444ZA** Each **9,36**

Package unit of 12 cartridges.

SCU

**3444ZA**



**GUN-CLEANER CARTRIDGES**

Prod. SCU

Polyurethane foam gun-cleaner in screw cartridges of 500ml. Indicated for cleaning guns after use so that they do not block themselves.

**3444ZB** Each **10,30**

Package unit of 12 cartridges.

SCU

**3444ZB**



**COMPRESSED AIR DUSTING PISTOLS**

Org. Ewo - Art. 270

Industrial model, straight, compact, in which air is delivered progressively, by pushing on the lever. To dust and clean motors from any kind of powder and to dry wet parts quickly. Body in aluminium alloy. Powerful spray with minimum compressed air consumption. Spout with nozzle 2mm. Hose connection 6mm and unified quick coupling.

**3445** Each **18,30**

This air gun can be equipped with all the accessories from Art. O3448 GB to O3448 GD 1 and from Art. 3448 GV to 3448 GZ 1.

ewo

**3445**



Prod. SCU

To dust and clean motors, mechanical parts from any kind of powder and to dry wet parts quickly. In die-cast aluminium. Powerful spray with minimum air consumption. Unified quick coupling. with standard nozzle.

**3445A** Each **5,14**

SCU

CE

**3445A**



10

Product description as Art. 3445A

With extended straight pipe, length mm 300.

**3445B** Each **6,76**

SCU

CE

**3445B**



Product description as Art. 3445A

With safety nozzle.

**3445E** Each **7,42**

SCU

CE

**3445E**



**3445F**

Product description as Art. 3445A  
With air intensifier (Venturi system).

**3445F** Each **7,26**

**3448G**

**Orig. Ewo - Art. 269**

Industrial.

To dust and clean motors, mechanical parts from any kind of powder and to dry wet parts quickly. Body in forged aluminum, protected against corrosion. Powerful spray with minimum consumption of compressed air. Spout with nozzle 1.5mm.

Unified quick coupling.

**3448G** Each **18,00**

**3448GB**

ewo



**Orig. Ewo - Art. 5269**

Industrial type. Air is delivered progressively, by pushing on the lever. Flow adjustment by means of a knurled ring nut. Particularly suitable to dust, clean, dry and cool items that could be damaged in case of a too violent air pressure. The required pressure is regularly delivered. In conformity with safety BIA, BGV, 98/37/E and OSHA standards.

Used in electronics, precision mechanics, food and pharmaceutical fields, etc.

In Alu-elox alloy, protected against corrosion. Powerful spray with minimum consumption of compressed air. Spout with nozzle 1.5mm.

Unified quick coupling.

**3448GB** Each **42,50**

Spare nozzles 1.5mm for Art. 3445 - 3448 G - 3448 GB - 3448 GP.

**O3448GB** Each **1,72**

Spare extension 150mm for Art. 3445 - 3448 G - 3448 GB - 3448 GP.

**O3448GC** Each **9,84**

Spare extension 250mm for Art. 3445 - 3448 G - 3448 GB - 3448 GP.

**O3448GC 1** Each **10,30**

Spare extension 400mm for Art. 3445 - 3448 G - 3448 GB - 3448 GP.

**O3448GC 2** Each **14,90**

Spare bent extension 150mm for Art. 3445 - 3448 G - 3448 GB - 3448 GP.

**O3448GD** Each **9,76**

Spare bent extension 250mm for Art. 3445 - 3448 G - 3448 GB - 3448 GP.

**O3448GD 1** Each **10,30**

**3448GE**

ewo



**Orig. Ewo - Art. 269**

Industrial type. Body in forged aluminium. Powerful spray with minimum consumption of compressed air. Unified quick coupling. Nozzle with SAFETY SILENCER/INTENSIFIER.

**3448GE** Each **41,30**

For spare nozzles see Art. 3448 GZ\_1

**3448GL**

ewo



Industrial type. Body in forged aluminium. Powerful spray with minimum consumption of compressed air. Unified quick coupling. With bent barrel, 125mm long, removable, safety nozzle with silencer.

**3448GL** Each **28,10**

Spare barrel for Art. 3448 GL - 3448 GM - 3448 GT.

**O3448GL** Each **9,58**

Industrial type. Air is delivered progressively, by pushing on the lever. Flow adjustment by means of a knurled ring nut. Particularly suitable to dust, clean, dry and cool items that could be damaged in case of a too violent air pressure. The required pressure is regularly delivered. In conformity with safety BIA, BGV, 98/37/E and OSHA standards. Used in electronics, precision mechanics, food and pharmaceutical fields, etc. In Alu-elox alloy, protected against corrosion. Powerful spray with minimum consumption of compressed air. With bent barrel, 125mm long, removable, safety nozzle with silencer. Unified quick coupling.

**3448GM** Each **50,90**

For spare barrel, see Art. O3448 GL.



**3448GM**

**Orig. Ewo - Art. 470**

Air is delivered progressively, by pushing on the lever. Body in special indeformable resine, brass inside parts, ergonomic handle. Possible bent extension. To dust and clean motors, mechanical parts from any kind of powder and to dry wet parts quickly. In Alu-elox alloy, protected against corrosion. Powerful spray with minimum consumption of compressed air. Spout with nozzle 1.5mm. Unified quick coupling.

**3448GP** Each **15,50**

Spare bent extension 110mm for Art. 3448 GP.

**O3448GR** Each **5,06**



**3448GP**

Industrial model in which air is delivered progressively, by pushing on the lever. Body in special indeformable resine, brass inside parts. Unified quick coupling. Nozzle with SAFETY SILENCER/INTENSIFIER.

**3448GS** Each **36,40**

For spare nozzles see Art. 3448 GZ\_1



**3448GS**

Industrial type; air is delivered progressively, by pushing on the lever. Body in special indeformable resine, brass inside parts. Unified quick coupling. With bent barrel, 125mm long, removable, safety nozzle with silencer.

**3448GT** Each **23,70**

For spare barrels see Art. O3448 GL.



**3448GT**

**Orig. Ewo - Art. 470-61**

FLAT NOZZLE

FLAT NOZZLE. Made from special synthetic resin with 6 air outlet holes. Width 24mm. For guns Art. 3445 - 3448 G - 3448 GB - 3448 GP. With threaded coupling M 12x1.25.

**3448GTP** Each **26,70**



**3448GTP**

**Orig. Ewo - Art. 470-84**

DISPENSER NOZZLE

DISPENSER NOZZLE. Aluminium body, spout and special synthetic resin ring. Makes it possible to optimally adjust the air outlet, for more accurate jobs, cleaner air, saving and noise reduction. For handguns. 3445-3448-3448 GB G-3448 GP. With thread connection M 12 x 1 .25.

**3448GTR** Each **25,40**



**3448GTR**

**Orig. Ewo - Art. 269-33**

SILENCER for guns Art. 3445 - 3448 G - 3448 GB - 3448 GP. Eliminates hissing in outgoing air. With threaded coupling M 12x1.25.

**3448GV** Each **4,12**



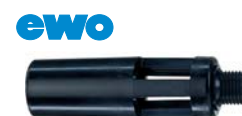
**3448GV**

**Orig. Ewo - Art. 269-45**


AIR INTENSIFIER.

Cylindrical type for guns Art. 3445 - 3448 G - 3448 GB - 3448 GP. With threaded coupling M 12x1.25.

**3448GZ** Each **6,60**



**3448GZ**

**NOZZLES FOR COMPRESSED AIR GUNS**
**3448GZ 1** 

**Orig. Ewo - Art. 470**

Nozzle combined with SAFETY SILENCER/INTENSIFIER. Patented unit in light alloy which allows to eliminate air hissing, to increase air power and, with the round-shaped nozzle, to avoid direct contact between output air and the material to be worked. At a pressure of 6 bar it reduces noise from 90 dB to 74 dB approx. Approved by the European safety institutes. Max Operating pressure: 16bar. Weight: 20g. Particularly indicated for guns orig. Ewo Art. 3445 - 3448 G - 3448 GB - 3448 GE - 3448 GP - 3448 GS.

Connecting thread M 12x1.25.

<b>3448GZ 1</b>	Each	<b>22,80</b>
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**COMPRESSED AIR DUSTING PISTOLS**
**3449A** 

**Prod. SCU**

Professional model in which air is delivered progressively, by pushing on the lever. Body in special indeformable resine, brass inside parts, ergonomic handle. Unified quick coupling.

With bent barrel of 105mm.

<b>3449A</b>	Each	<b>7,68</b>
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**3449A 4** 


Professional type. Air is delivered progressively, by pushing on the lever. Body in special indeformable resine, brass inside parts, ergonomic handle. Unified quick coupling.

With bent barrel, 105mm long and spiral pipe, 4m long.


<b>3449A 4</b>	Each	<b>27,80</b>
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**3449B** 


Professional model in which air is delivered progressively, by pushing on the lever. Body in special indeformable resine, brass inside parts, ergonomic handle. Unified quick coupling.

With straight barrel of 30mm.

<b>3449B</b>	Each	<b>12,70</b>
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**3449E** 


Product description as Art. 3449B

With straight barrel of 200mm.

<b>3449E</b>	Each	<b>14,50</b>
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Spare silencer for guns 3449 A-B-E.

<b>O3449 1</b>	Each	<b>10,70</b>
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Spare intensifier for guns 3449 A-B-E.

<b>O3449 2</b>	Each	<b>9,92</b>
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Product running out of stock.

**3449H** 


Professional model in which air is delivered progressively, by pushing on the lever. Body in special indeformable resine, brass inside parts, ergonomic handle. Unified quick coupling. Non-removable silencer nozzle.

<b>3449H</b>	Each	<b>20,30</b>
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**WASHING PISTOLS**
**3449L** 

**Prod. SCU**

For washing with water at medium pressure. Adjustable jet. Nozzle diameter: 2.5mm. Unified quick coupling

<b>3449L</b>	Each	<b>37,70</b>
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**Orig. Ewo - Art. 160**

Professional type.

For washing with water.

Operates at the normal water pressure in the pipe when the 4mm nozzle is fitted. Operates at the pressure of the relevant washing machine

when the 2mm nozzle is fitted. These two nozzles are supplied with the gun.

Jet can be adjusted from full to nebulised. Sturdy, precise manufacture, made from solid brass.

Unlimited duration. 1/2" hose connection. Pressure up to 40 bar (Atm). Weight 0.920 Kg.

<b>3454G</b>	Each	<b>99,40</b>
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Spare spouts for Art. 3454 G.

Bore Ø	mm	2	4
<b>O3454G</b>	Each	<b>7,02</b>	<b>7,02</b>


**3454G**

**Orig. Ewo - Art. 404**

Heavy-duty Industrial type.

For washing with water.

Particularly indicated for use with washing machines, when the 2mm nozzle (supplied) is fitted. It operates at the normal water pressure in the pipe when the 4 and 6mm nozzles (supplied on request) are fitted. The jet can be adjusted from full to nebulised. Aluminium body, control lever, adjustment ring nut and brass internal components, ergonomic Ultramide shatter-proof grip and guard for the operator's hand. 1/2" hose connection.

Pressure up to 40 bar (Atm). Weight 1.120 Kg.

<b>3455GA</b>	Each	<b>165,00</b>
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Spare spouts for Art. 3455 GA.

Bore Ø	mm	2	4	6
<b>O3455GA</b>	Each	<b>7,02</b>	<b>7,02</b>	<b>6,42</b>


**3455GA**

**Orig. Ewo - Art. 412**

Industrial model heavy duty and continuous work.

For washing with water.

Thanks to all-aluminium body, soft rubber grip thick, composite lever has reached a considerable weight saving and optimal grip allowing high cost savings effort of the arm and hand. By applying the 2 mm nozzle (supplied) works with the normal pressure of water piping, applying the nozzle 4 mm (on request) the Jet is adjustable from full down to misting. 1/2 rubber coupling ".

Pressure up to 25 bar (Atm). Weight 700 Kg.

<b>3455GE</b>	Each	<b>133,00</b>
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Spare nozzle for Art. 3455 GE.

Bore Ø	mm	2	4
<b>O3455GE</b>	Each	<b>7,88</b>	<b>7,88</b>


**3455GE**

**Prod. SCU**

Apt for washing with water and compressed air.

Adjustable jet. Compressed air unified quick coupling 1/4". Water coupling for tube with inside diameter of 18mm. Nickel-plated brass body. Operating pressure: 5-8 bar (Atm).

<b>3455L</b>	Each	<b>55,70</b>
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**3455L**

**10**
**HAND PRESSURE GAUGES**
**Prod. SCU**

1/10 graduations

Scale 0-12 Atm.

With rubber hose and coupling. Rubber protective cover for manometer.

<b>3456</b>	Each	<b>10,50</b>
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**3456**


**HAND TYRE INFLATOR AND PRESSURE GAUGES**
**3456B****SCU****Prod. SCU**

With check manometer Ø 63mm.

Scale 0-12 bar (Atm). 1/10 graduations.

Rubber protective cover for manometer. Rubber hose with inflation nozzle.

Unified quick coupling.

<b>3456B</b>	Each	<b>14,80</b>
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**3456G****ewo****Orig. Ewo - Art. 471**

model with special resin body reinforced polyamide, polyurethane foam. Lightweight and durable with brass internal parts, ergonomic grip. With fine dosing system, to control the pressure and tire inflation. Precision gauge with rubber, diameter 63 mm, protected against shocks and weatherproof. For pressures from 0-10 bar (Atm). Subdivision 1/10. With unified quick coupling.

With extended shaft and dual function inflating head for cars, motorcycles and bicycles.

<b>3456G</b>	Each	<b>102,00</b>
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**3456GA****ewo**

Product description as Art. 3456G

With rubber hose and standard inflation nozzle.

<b>3456GA</b>	Each	<b>62,10</b>
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**3456GB****ewo**

Product description as Art. 3456G

With rubber hose and nozzle complete with handle and extended rod.

<b>3456GB</b>	Each	<b>85,10</b>
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**3457G****ewo****Orig. Ewo - Art. 356**

Standard safety model to control tyre pressure and inflation. Precision manometer with rubber coating, Ø 63mm.

Shock-proof and weather-proof.

For pressures from 0-10 bar (Atm). 1/10 graduations.

Rubber hose with inflation nozzle. Rubber coupling Ø 6mm.

<b>3457G</b>	Each	<b>86,80</b>
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**3458GA****ewo****Orig. Ewo - Art. 151**

Reinforced safety model to control tyre pressure and inflation. Precision manometer with rubber coating, Ø 80mm.

Shock-proof and weather-proof.

For pressures from 0-10 bar (Atm). 1/10 graduations.

Rubber hose with inflation nozzle.

Quick coupling for taps (Art. 3480 GA-B-C/3480 GP-R-S).

<b>3458GA</b>	Each	<b>161,00</b>
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Product description as Art. 3458GA

For pressures from 0-25 bar (Atm). 1/5 graduations.

Rubber hose with inflation nozzle with 90° lever.

Quick coupling for taps (Art. 3480 GA-B-C/3480 GP-R-S).

**3458GA 1** Each **185,00**


**3458GA 1**


Product description as Art. 3458GA

For pressures from 0-10 bar (Atm). 1/10 graduations.

Rubber hose with extended inflation nozzle.

Quick coupling for taps (Art. 3480 GA-B-C/3480 GP-R-S).

**3458GB** Each **174,00**


**3458GB**  
**3458GB 1**


Product description as Art. 3458GA

For pressures from 0-25 bar (Atm). 1/5 graduations.

Rubber hose with extended inflation nozzle.

Quick coupling for taps (Art. 3480 GA-B-C/3480 GP-R-S).

**3458GB 1** Each **200,00**

Spare manometers for Art. 3458 GA e B.

**O3458GC** Each **91,30**

Spare manometer for Art. 3458 GA 1 e B 1.

**O3458GC 1** Each **91,30**

**Orig. Ewo - Art. 152**

Digital model with large display (digit height 15mm), 4 digits, to control tyre pressure and inflation. Precision manometer with rubber coating, Ø 80mm. IP 54 protection against shocks, dust and water-sprays.

For pressures 0-12 bar (Atm). (Max. air inlet pressure 16 bar). 0.05 bar graduations.

Operated with No.3 lithium batteries (mod. CR 2450) (included). Automatic switch-off after 20 sec.

Operating temperature ranging from -10° C to +60° C.

Rubber hose with inflation nozzle.

Quick coupling for taps (Art. 3480 GA-B-C/3480 GP-R-S).

**3459G** Each **282,00**


**3459G**

**IP54**

**PORTABLE FLOOR-TYRE INFLATOR-TESTER WITH AIR TANK**

**Prod. SCU**

Portable, handy, floor-tyre inflator. Tank capacity 12l with manual or automatic charge. Inflator with manometer, rubber hose, nozzle and safety valve set at 7bar. Weight: 10kg.

Equipment complete with charging valve.

**3461** Each **392,00**


**3461**


Spare gun for Art. 3461.

**O3461** Each **26,50**

**10**

**3461G****ewo****Orig. Ewo - Art. 350**

Portable tester with air-tank, handy and very sturdy. Tank capacity 6l can be charged up to 16 bar (Atm). Relief valve to protect from overcharge. Special inside spring in BERYLLIUM/COPPER grants optimal precision testing also for AZOTE inflation. Can inflate completely 4 car tyres or more if they are to be checked and re-inflated. Manometer in 20° tilted position for easy reading. Scale plate diameter: 160mm. Condensation is drained with manual valve. Individually tested.

Easy to use.

Inflation handle with double-nozzle rod. Push buttons on the handle to operate the 3 phases:

Check = Insert the rod in the tyre valve and read the manometer.

Inflation = Push the button (+)

Drainage = Push the button (-).

Manometer range: 0-10 bar (Atm)/0-140 PSI with double-nozzle rod, weight 7.1 kg.

Equipment complete with charging valve.

<b>3461G</b>	Each	<b>1.080,00</b>
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Automatic charge.

Air is charged (with idle equipment) by means of a pipe union placed at the end of the carrying handle. This union between handle and the quick coupling allows automatic charge as far as the necessary operating pressure is reached.

**3461GA****ewo**

Only charging valve for Art. 3461 G.

<b>3461GA</b>	Each	<b>31,20</b>
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**3461GB****ewo**

Spare inflator complete with hose for Art. 3461 G.

<b>3461GB</b>	Each	<b>212,00</b>
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### AIRVISION L COMBINATION AIR TREATMENT UNITS

**3461GL****ewo****Orig. Ewo - Art. 460**

AIRVISION L FILTERS FOR COMPRESSED AIR

Modular model with small dimensions. Supplied with manual drain valve. Polyethylene porous filter 50µm. Polycarbonate unbreakable glass.

Max operating temperature 50 °C.

Drive inches 1/4

Dimensions (A) mm 40

Dimensions (B) mm 110

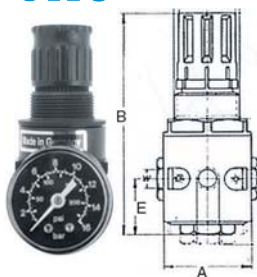
Dimensions (E) mm 11

<b>3461GL</b>	Each	<b>25,40</b>
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Standard operating pressure: 6 bar (Atm).

Pair of threaded connection reductions from 1/4 to 1/8 inch for all AIRVISION "L" components from Art. 3461 GL to Art. 3461 GR.

<b>O3461GL</b>	Per pair	<b>2,66</b>
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**3461GM****ewo****Orig. Ewo - Art. 461**

AIRVISION L REGULATORS COMPRESSED AIR

Modular model with small dimensions. Supplied with manometer. Adjustable from 0.5 to 10 bar (atm). Max operating temperature 50 °C.

Drive inches 1/4

Dimensions (A) mm 40

Dimensions (B) mm 80

Dimensions (E) mm 11

<b>3461GM</b>	Each	<b>44,10</b>
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Standard operating pressure: 6 bar (Atm). Spare manometers are supplied on demand.

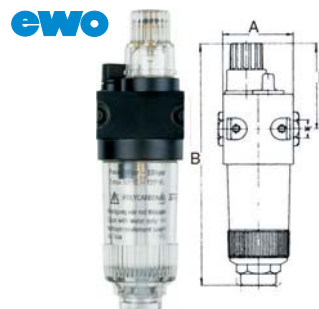
**Orig. Ewo - Art. 462**

**AIRVISION L LUBRICATORS FOR COMPRESSED AIR**

Modular model with small dimensions. With pilot light to check oil falling. Polycarbonate unbreakable glass. Max operating temperature 50 °C.

Drive	inches	1/4
Dimensions (A)	mm	40
Dimensions (B)	mm	135
Dimensions (E)	mm	47
<b>3461GP</b>	<b>Each</b>	<b>29,10</b>

Standard operating pressure: 6 bar (Atm).



**3461GP**

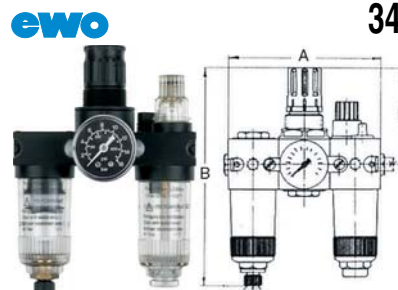
**Orig. Ewo - Art. 465**

**AIRVISION L FILTER-REGULATOR-LUBRICATOR COMBINATIONS**

Combination of 3 pieces with the same features of the elements Art. 3461 GL-M-P. Adjustable from 0.5 to 10 bar (Atm).

Drive	inches	1/4
Dimensions (A)	mm	120
Dimensions (B)	mm	170
Dimensions (E)	mm	69
<b>3461GP 3</b>	<b>Each</b>	<b>103,00</b>

Standard operating pressure: 6 bar (Atm). Spare manometers are supplied on demand.



**3461GP 3**

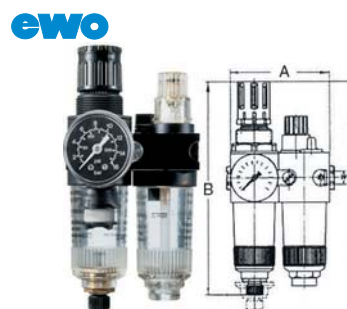
**Orig. Ewo - Art. 464**

**AIRVISION L FILTER-REGULATOR-LUBRICATOR COMBINATIONS**

Combination of 2 pieces with the same features of the elements Art. 3461 GL-M-P. Adjustable from 0,5 to 10 bar (Atm).

Drive	inches	1/4
Dimensions (A)	mm	80
Dimensions (B)	mm	178
Dimensions (E)	mm	79
<b>3461GP 5</b>	<b>Each</b>	<b>88,90</b>

Standard operating pressure: 6 bar (Atm). Spare manometers are supplied on demand.



**3461GP 5**

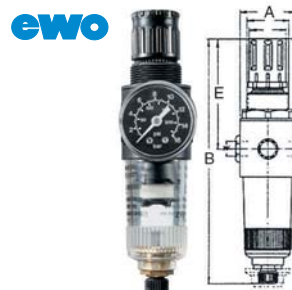
**Orig. Ewo - Art. 463**

**AIRVISION L FILTER-REGULATOR COMBINATIONS**

Combination of 1 piece with the same features of the elements Art. 3461 GL-M.

Drive	inches	1/4
Dimensions (A)	mm	40
Dimensions (B)	mm	160
Dimensions (E)	mm	65
<b>3461GR</b>	<b>Each</b>	<b>54,50</b>

Standard operating pressure: 6 bar (Atm). Spare manometers are supplied on demand.



**3461GR**

**AIRVISION COMBINATION AIR TREATMENT UNITS**

**Orig. Ewo - Art. 445-7445**

**AIRVISION FILTERS FOR COMPRESSED AIR**

Modular model with small dimensions, to be used alone or as a spare part for combinations Art. 3462 GP-T-V. Supplied with manual drain valve. Polyethylene porous filter 50µm. Body in metal alloy (zinc/cast iron). Polycarbonated unbreakable glass. Max operating temperature 50°C.

Drive	inches	1/8	1/4	3/4	1
Dimensions (A)	mm	40	40	70	70
Dimensions (B)	mm	120	120	215	215
Dimensions (E)	mm	25	25	35	35
<b>3462GA</b>	<b>Each</b>	<b>41,60</b>	<b>41,60</b>	<b>136,00</b>	<b>136,00</b>

Standard operating pressure: 6 bar (Atm).  
 Sizes 3/4 and 1 running out of stock.



**3462GA**

Prices in EURO - VAT not included

**10**

## 3462GE

ewo



## Orig. Ewo - Art. 444-7444

## AIRVISION REGULATORS FOR COMPRESSED AIR

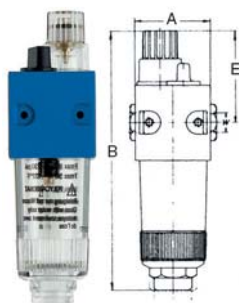
Modular model with small dimensions, to be used alone or as a spare part for combinations Art. 3462 GP-T-V. Body in metal alloy (zinc/cast iron). Supplied with manometer. Adjustable from 0.5 to 10 bar (Atm). Max operating temperature 50 °C.

Drive	inches	1/8	1/4	3/4	1
Dimensions (A)	mm	40	40	70	70
Dimensions (B)	mm	90	90	145	145
Dimensions (E)	mm	25	25	41	41
<b>3462GE</b>	<b>Each</b>	<b>55,80</b>	<b>55,80</b>	<b>183,00</b>	<b>182,00</b>

Standard operating pressure: 6 bar (Atm). Spare manometers are supplied on demand.  
Sizes 3/4 and 1 running out of stock.

## 3462GH

ewo



## Orig. Ewo - Art. 446-7446

## AIRVISION LUBRICATORS FOR COMPRESSED AIR

Modular model with small dimensions, to be used alone or as a spare part for combinations Art. 3462 GP-T. With pilot light to check oil falling. Body in metal alloy (zinc/cast iron). Polycarbonate unbreakable glass. Max operating temperature 50 °C.

Drive	inches	1/8	1/4	1/2	3/4	1
Dimensions (A)	mm	40	40	62	70	70
Dimensions (B)	mm	140	140	175	230	230
Dimensions (E)	mm	50	50	60	65	65
<b>3462GH</b>	<b>Each</b>	<b>45,40</b>	<b>45,40</b>	<b>78,40</b>	<b>140,00</b>	<b>140,00</b>

Standard operating pressure: 6 bar (Atm).  
Sizes 1/2 - 3/4 and 1 running out of stock.

## 3462GP

ewo



## Orig. Ewo - Art. 450-7450

## AIRVISION FILTER-REGULATOR-LUBRICATOR COMBINATIONS

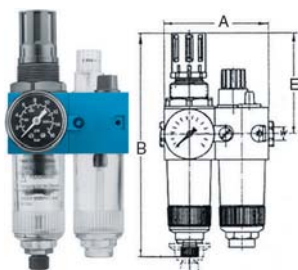
Combination of 3 pieces with the same features of the elements Art. 3462 GA-E-H.

Drive	inches	1/8	1/4	3/8	1/2	3/4	1
Dimensions (A)	mm	120	120	186	186	210	210
Dimensions (B)	mm	160	160	220	220	274	274
Dimensions (E)	mm	65	65	95	95	100	100
<b>3462GP</b>	<b>Each</b>	<b>156,00</b>	<b>156,00</b>	<b>270,00</b>	<b>270,00</b>	<b>486,00</b>	<b>483,00</b>

Standard operating pressure: 6 bar (Atm). Spare manometers are supplied on demand.  
Sizes 3/8 - 1/2 - 3/4 and 1 running out of stock.

## 3462GT

ewo



## Orig. Ewo - Art. 449-7449

## AIRVISION FILTER-REGULATOR-LUBRICATOR COMBINATIONS

Combination of 2 pieces with the same features of the elements Art. 3462 GA-E-H.

Drive	inches	1/8	1/4	3/4	1
Dimensions (A)	mm	80	80	140	140
Dimensions (B)	mm	160	160	270	270
Dimensions (E)	mm	65	65	100	100
<b>3462GT</b>	<b>Each</b>	<b>125,00</b>	<b>125,00</b>	<b>399,00</b>	<b>398,00</b>

Standard operating pressure: 6 bar (Atm). Spare manometers are supplied on demand.  
Sizes 3/4 and 1 running out of stock.

## 3462GV

ewo



## Orig. Ewo - Art. 443-7443

## AIRVISION FILTER-REGULATOR COMBINATIONS

Combination of 1 piece with the same features of the elements Art. 3462 GA-E.

Drive	inches	1/8	1/4	3/8	3/4	1
Dimensions (A)	mm	40	40	62	70	70
Dimensions (B)	mm	160	160	220	270	270
Dimensions (E)	mm	65	65	95	100	100
<b>3462GV</b>	<b>Each</b>	<b>73,10</b>	<b>73,10</b>	<b>133,00</b>	<b>244,00</b>	<b>244,00</b>

Standard operating pressure: 6 bar (Atm). Spare manometers are supplied on demand.  
Sizes 3/8 - 3/4 and 1 running out of stock.

**COMBIBLOC PROFESSIONAL COMBINATION AIR TREATMENT UNITS**

**Orig. Ewo - Art. 423**

PATENTED SINGLE-BLOCK COMBINATIONS OF FILTER-REGULATOR-LUBRICATOR

New patented system, very compact.

Technology and quality components allow to filter, reduce and lubricate air by means of a very small combination.

Glass in sturdy transparent polycarbonate, unbreakable, coupled on a single line.

With lubricator pilot light.

Adjustable from 0.5 to 16 bar (Atm).

With manometer from 0 to 25 bar (Atm).

Porous filter in sintered bronze 50-75 µm.

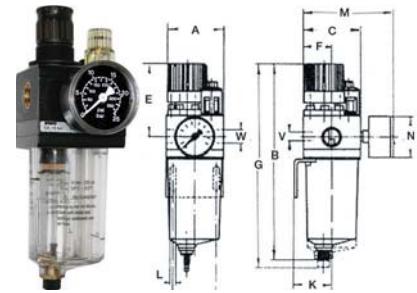
Operating pressure range: 0 °C +50 °C.

Condensation manual drain valve.

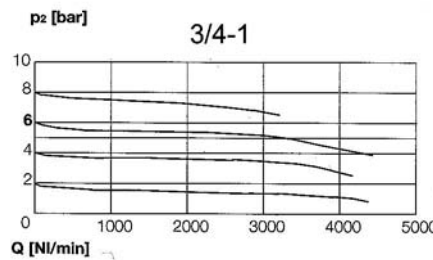
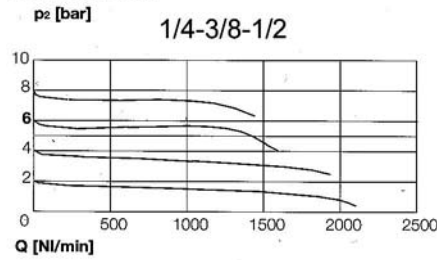
Drive	inches	1/4	3/8	1/2	3/4	1
<b>3463GA</b>	Each	174,00	174,00	174,00	267,00	267,00



**3463GA**



**3463GA-GB - AIR FLOW QUANTITY Q**



Misure in mm

Da	1/4-3/8-1/2	3/4-1
A	66	93
B**	200	295
C	69	96
E	65	105
F	34,5	48
G**	220	325
J	82	112
K	43	61
L	6,5	9
M	105	135

\*\* con scarico automatico +10mm

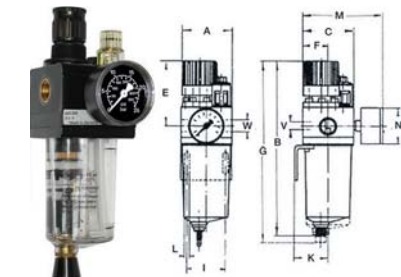
Product description as Art. 3463GA

Condensation automatic drain valve.

Drive	inches	1/4	3/8	1/2	3/4	1
<b>3463GB</b>	Each	205,00	205,00	205,00	299,00	299,00



**3463GB**



SPARE PARTS AND ACCESSORIES FOR COMBINATIONS ART 3463 GA-B

Spare glasses with manual valve.

Size		1	2
For drive groups	inches	1/4-3/8-1/2	3/4-1
<b>3463GF</b>	Each	31,70	57,70



**3463GF**



Product description as Art. 3463GF

Spare glasses with automatic valve inside the glass.

Size		1	2
For drive groups	inches	1/4-3/8-1/2	3/4-1
<b>3463GL</b>	Each	61,10	85,40



**3463GL**



Product description as Art. 3463GF

Metal guards.

Size		1	2
For drive groups	inches	1/4-3/8-1/2	3/4-1
<b>3463GP</b>	Each	17,80	27,10



**3463GP**



Product description as Art. 3463GF

Brackets complete with screws.

Type		1	2
<b>3463GPE</b>	Each	6,68	12,30



**3463GPE**  
*new*



**10**

VARIOBLOC FILTERS FOR COMPRESSED AIR

3463GS



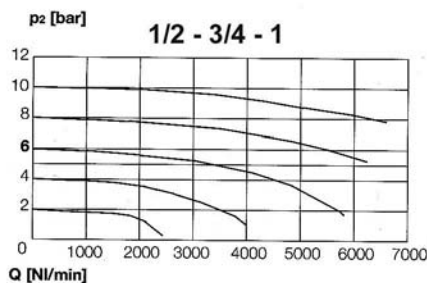
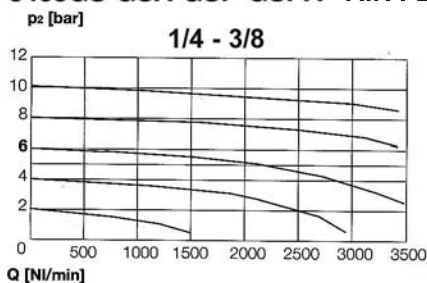
Orig. Ewo - Art. 482

New modular filter which can be used alone or as a spare part for combinations Art. 3464 GC - 3464 GCA. Can be supplied either with manual or automatic drain valve. Porous filter in polyethylene 40µm. Metal glass, quick-release, which can stand high temperatures up to 80 °C and stronger pressures up to 20bar.

Condensation manual drain valve.

Drive	inches	1/4	3/8	1/2	3/4	1
3463GS	Each	87,90	87,90	127,00	127,00	172,00

3463GS-GSA-GSP-GSPA - AIR FLOW QUANTITY Q



Misure in mm

Da	1/4-3/8	1/2-3/4	1
A	48	70	125
B**	158	202	202
C	48	70	70
E	22	26	26
F	24	35	35
H	32	44	44
J	43	62	62
K	14,5	18	18
L	4,4	5,4	5,4

\*\* con scarico automatico +10mm

3463GSA



Product description as Art. 3463GS

Condensation automatic drain valve.

Drive	inches	1/4	3/8	1/2	3/4	1
3463GSA	Each	120,00	120,00	158,00	158,00	203,00

3463GSP



The newly designed modular filter, can be used individually or as part of the Art groups. 3464 GCP-GCPA 3464. Can be supplied in version with manual or automatic discharge. Porosity of polyethylene filter 40 µm. Glass in sturdy polycarbonate, unbreakable, with quick release, to withstand temperatures up to 50° C and at pressures up to 16 bar.

With manual condensation drain.

Drive	inches	1/4	3/8	1/2	3/4	1
3463GSP	Each	50,10	50,10	83,70	83,70	129,00

3463GSPA



Product description as Art. 3463GSP

With automatic condensation drain.

Drive	inches	1/4	3/8	1/2	3/4	1
3463GSPA	Each	81,30	81,30	115,00	115,00	161,00

**VARIOBLOC REGULATORS FOR COMPRESSED AIR**

**Orig. Ewo - Art. 481**

New concept modular regulator, can be used individually or as a spare part for units Art. 3463GZ - 3463GZA - 3463GZP - 3463GZPA - 3464 GC - 3464 GCA - 3464 GCP - 3464 GCPA - 3464GF - 3464GFA - 3464GFP - 3464GFPA.

Maximum working pressure 25 bar.

Pressure gauge scale from 0 to 16 bar (Atm). Adjustable from 0.5 to 10 bar (Atm).

Working temperature up to 50 °C.

Drive	inches	1/4	3/8	1/2	3/4	1
<b>3463GT</b>	<b>Each</b>	<b>72,10</b>	<b>72,10</b>	<b>104,00</b>	<b>104,00</b>	<b>149,00</b>

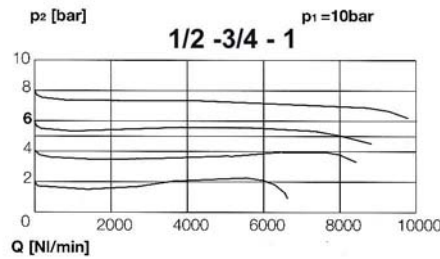
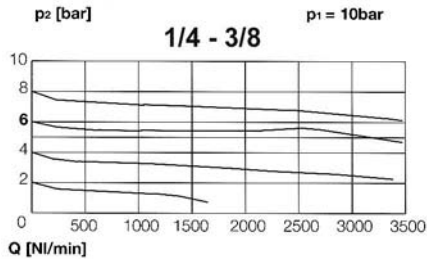
On request, "VARIOBLOC" gearboxes with key for pressure lock can be supplied.



**3463GT**



**3463GT - AIR FLOW QUANTITY Q**



Misure in mm

Da	1/4-3/8	1/2-3/4	1
A	48	70	125
B	98	134	134
C	48	70	70
D	28	39	39
E	68	98	98
F	24	35	35
H	26	33	33
I	M30x1,5	M42x1,5	M42x1,5
J	43	62	62
K	14,5	18	18
L	4,4	5,4	5,4
M	84	106	106
N	40	50	50
V	G1/4	G1/4	G1/4

**VARIOBLOC LUBRICATORS FOR COMPRESSED AIR**

**Orig. Ewo - Art. 483**

New modular lubricator which can be used alone or as a spare part for the combinations Art.

3464 GC - 3464 GCA - 3464 GF - 3464 GFA.

Metal glass, quick-release, which can stand very aggressive synthetic oils, high temperatures up to 80 °C and stronger pressures up to 20bar. With metal oil regulator.

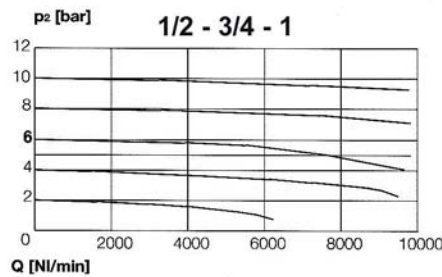
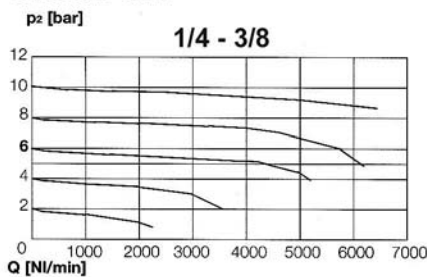
Drive	inches	1/4	3/8	1/2	3/4	1
<b>3463GV</b>	<b>Each</b>	<b>109,00</b>	<b>109,00</b>	<b>148,00</b>	<b>148,00</b>	<b>193,00</b>



**3463GV**



**3463GV-GVP - AIR FLOW QUANTITY Q**



Misure in mm

Da	1/4-3/8	1/2-3/4	1
A	48	70	125
B**	171	224	224
C	48	70	70
D	22	22	22
E	52	57	57
F	24	35	35
H	32	44	44
J	43	62	62
K	14,5	18	18
L	4,4	5,4	5,4

Newly designed modular Lubricator for use individually or as part of the Art groups. 3464 GCP- 3464-3464 GCPA GFP-3464 GFPA.

Glass in sturdy polycarbonate, unbreakable, with quick release, to withstand temperatures up to 50° C and at pressures up to 16 bar. With polycarbonate oil dispenser.

Drive	inches	1/4	3/8	1/2	3/4	1
<b>3463GVP</b>	<b>Each</b>	<b>61,10</b>	<b>61,10</b>	<b>93,70</b>	<b>93,70</b>	<b>139,00</b>



**3463GVP**



VARIOBLOC COMBINATION AIR TREATMENT UNITS

3463GZ

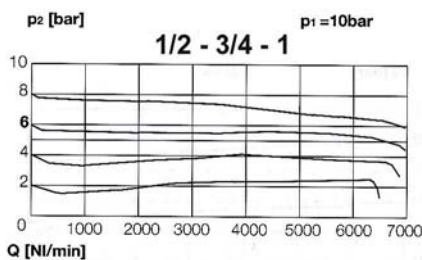
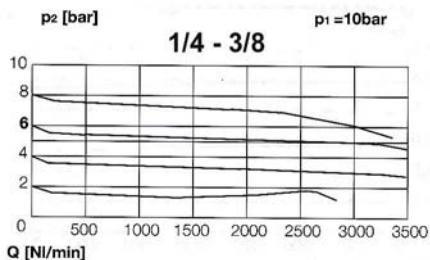


Orig. Ewo - Art. 480

Coaxial filter-regulator combination, according to the new Variobloc technique.  
 Can be used alone or as a spare part of combinations  
 Art. 3464 GF - 3464 GFA.  
 Can be supplied with manual or automatic condensation drain valve.  
 Porous filter in polyethylene  $\mu\text{m}$  40.  
 Metal glass, quick-release, which can stand high temperature up to 80 °C and higher pressures up to 20 bar.  
 Manometer range: 0-16 bar (Atm).  
 Adjustable from 0.5 to 10 bar (Atm).  
 Manual condensation drain valve.

Drive	inches	1/4	3/8	1/2	3/4	1
<b>3463GZ</b>	Each	<b>137,00</b>	<b>137,00</b>	<b>199,00</b>	<b>199,00</b>	<b>244,00</b>

3463GZ-GZA-GZP-GZPA - AIR FLOW QUANTITY Q



Misure in mm

Da	1/4-3/8	1/2-3/4	1
A	48	70	125
B**	203	273	273
C	48	70	70
D	28	39	39
E	68	96	96
F	24	35	35
H	32	44	44
I	M30x1,5	M42x1,5	M42x1,5
J	43	62	62
K	14,5	18	18
L	4,4	5,4	5,4
M	84	106	106
N	40	50	50
V	G1/4	G1/4	G1/4

\*\* con scarico automatico +10mm

3463GZA



Product description as Art. 3463GZ  
 Automatic condensation drain valve.

Drive	inches	1/4	3/8	1/2	3/4	1
<b>3463GZA</b>	Each	<b>168,00</b>	<b>168,00</b>	<b>230,00</b>	<b>230,00</b>	<b>275,00</b>

3463GZP



Coaxial reducer-filter groups according the Variobloc European technique.  
 Can be used individually or as part of the groups  
 Art. 3464 GFP-3464 GFPA.  
 Can be supplied in version with manual or automatic discharge of condensate.  
 Porosity of polyethylene filter 40  $\mu\text{m}$ .  
 Glass in sturdy polycarbonate, unbreakable, with quick release, to withstand temperatures up to 50° C and at pressures up to 16 bar.  
 Pressure gauge with scale from 0 to 16 bar (Atm).  
 Adjustment capacity from 0.5 to 10 bar (Atm).  
 With manual condensation drain.

Drive	inches	1/4	3/8	1/2	3/4	1
<b>3463GZP</b>	Each	<b>98,90</b>	<b>98,90</b>	<b>156,00</b>	<b>156,00</b>	<b>201,00</b>

3463GZPA



Product description as Art. 3463GZP  
 With automatic condensation drain.

Drive	inches	1/4	3/8	1/2	3/4	1
<b>3463GZPA</b>	Each	<b>130,00</b>	<b>130,00</b>	<b>187,00</b>	<b>187,00</b>	<b>233,00</b>



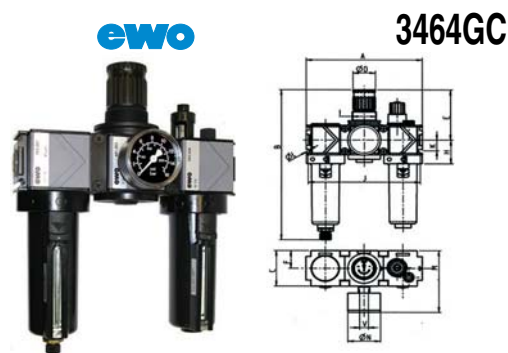
**VARIOBLOC COMBINATION AIR TREATMENT UNITS**

**Orig. Ewo - Art. 489**

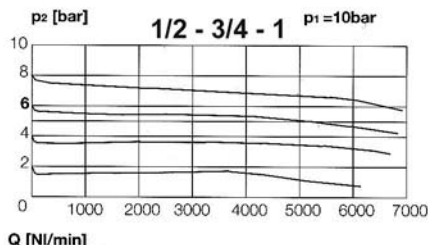
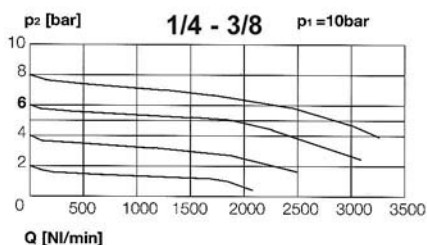
3-pieces combination. New modular combination with small overall dimensions. Technique and components materials grant the best performances for air filtering-regulation and lubrication. Filter, regulator and nebulizer are assembled in the order indicated by the arrows printed on the unit. Metal glass, quick-release, which can stand very aggressive synthetic oils, temperatures up to 50°C and stronger pressures up to 20bar. With metal oil regulator. Manometer range: 0-16 bar (Atm). Adjustable from 0.5 to 10 bar (Atm). Porous filter in polyethylene 40µm.

Manual condensation drain valve.

Drive	inches	1/4	3/8	1/2	3/4	1
<b>3464GC</b>	Each	282,00	282,00	402,00	402,00	447,00



**3464GC-GCA-GCP-GCPA - AIR FLOW QUANTITY Q**



Misure in mm

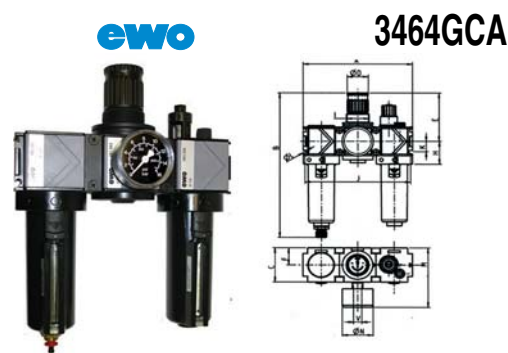
Da	1/4-3/8	1/2-3/4	1
A	144	210	265
B**	203	273	273
C	48	70	70
D	28	39	39
E	68	98	98
F	24	35	35
H	32	44	44
I	M30x1,5	M42x1,5	M42x1,5
J	139	194	194
K	14,5	18	18
L	4,4	5,4	5,4
M	84	106	106
N	40	50	50
V	G1/4	G1/4	G1/4

\*\* con scarico automatico +10mm

**Product description as Art. 3464GC**

Automatic condensation drain valve.

Drive	inches	1/4	3/8	1/2	3/4	1
<b>3464GCA</b>	Each	313,00	313,00	433,00	433,00	478,00



**Groups of 3 units. Newly developed modular construction with reduced dimensions.**

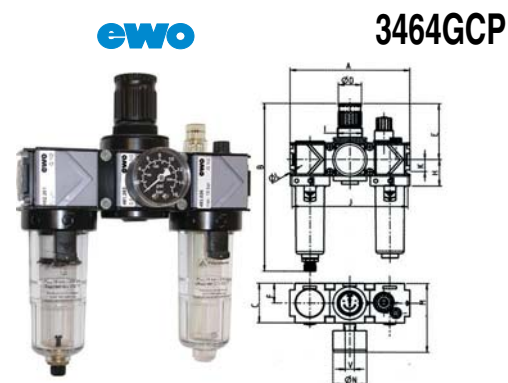
The technique and materials of the components ensures the best performance-reducing and filtering air lubrication. Filter, regulator and lubricant are installed in the order indicated by arrows imprinted on the group. Polycarbonate tumblers, unbreakable, with quick release, to withstand temperatures up to 50° C and at pressures up to 16 bar. With polycarbonate oil dispenser.

Pressure gauge with scale from 0 to 16 bar (Atm). Adjustment capacity from 0.5 to 10 bar (Atm).

Porosity of polyethylene filter 40 µm.

With manual condensation drain.

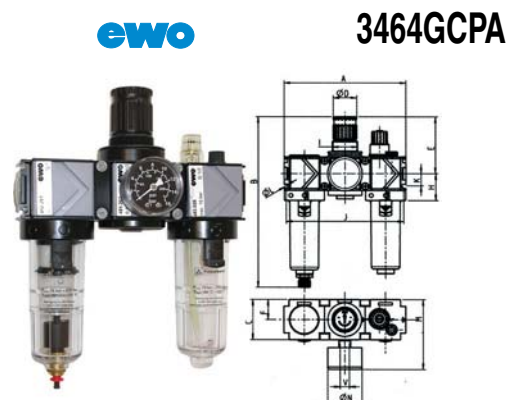
Drive	inches	1/4	3/8	1/2	3/4	1
<b>3464GCP</b>	Each	197,00	197,00	305,00	305,00	350,00



**Product description as Art. 3464GCPA**

With automatic condensation drain.

Drive	inches	1/4	3/8	1/2	3/4	1
<b>3464GCPA</b>	Each	228,00	228,00	339,00	339,00	384,00



### 3464GF



**Orig. Ewo - Art. 488**

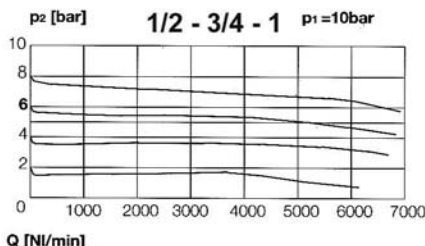
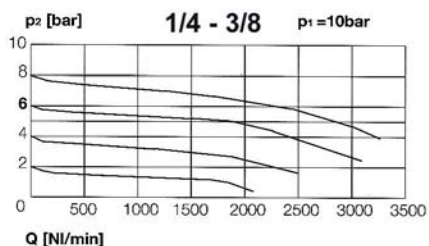
2-pieces combination. Compact model for small places. New modular combination. Metal glass, quick-release, which can stand very aggressive synthetic oils, temperatures up to 50°C and stronger pressures up to 20 bar. Metal oil regulator.

Manometer range: 0-16 bar (Atm). Adjustable from 0.5 to 10 bar (Atm). Porous filter in polyethylene 40µm.

Manual condensation drain valve.

Drive	inches	1/4	3/8	1/2	3/4	1
<b>3464GF</b>	<b>Each</b>	<b>252,00</b>	<b>252,00</b>	<b>352,00</b>	<b>352,00</b>	<b>397,00</b>

#### 3464GF-GFA-GFP-GFPA - AIR FLOW QUANTITY Q



Misure in mm

Da	1/4-3/8	1/2-3/4	1
A	96	140	195
B**	203	273	273
C	48	70	70
D	28	39	39
E	68	98	98
F	24	35	35
H	32	44	44
I	M30x1,5	M42x1,5	M42x1,5
J	91	132	132
K	14,5	18	18
L	4,4	5,4	5,4
M	84	106	106
N	40	50	50
V	G-1/4	G-1/4	G-1/4

\*\* con scarico automatico +10mm

### 3464GFA



Product description as Art. 3464GF

Automatic condensation drain valve.

Drive	inches	1/4	3/8	1/2	3/4	1
<b>3464GFA</b>	<b>Each</b>	<b>283,00</b>	<b>283,00</b>	<b>383,00</b>	<b>383,00</b>	<b>429,00</b>

### 3464GFP



Groups of 2 units. Compact model for the exploitation of spaces. Newly developed modular construction. Sturdy glasses polycarbonate, unbreakable, quick-release, for temperatures up to 50° C and pressures up to 16 bar. With polycarbonate oil dispenser.

Pressure gauge with scale from 0 to 16 bar (Atm). Adjustment capacity from 0.5 to 10 bar (Atm). Porosity of polyethylene filter 40 µm.

With manual condensation drain.

Drive	inches	1/4	3/8	1/2	3/4	1
<b>3464GFP</b>	<b>Each</b>	<b>167,00</b>	<b>167,00</b>	<b>262,00</b>	<b>262,00</b>	<b>307,00</b>

### 3464GFPA



Product description as Art. 3464GFP

With automatic condensation drain.

Drive	inches	1/4	3/8	1/2	3/4	1
<b>3464GFPA</b>	<b>Each</b>	<b>198,00</b>	<b>198,00</b>	<b>293,00</b>	<b>293,00</b>	<b>338,00</b>

**Orig. Ewo - Art. 480**

SPARE PARTS AND ACCESSORIES FOR VARIOBLOC COMBINATIONS (Art. 3463 GA-B excluded)

Spare metal glasses for filters with manual valve with connection 1/4-3/8 inches

**3464GR 1** Each **58,40**


**3464GR 1**

Product description as Art. 3464GR 1

Spare polycarbonate Belleville washers for filters with manual valve, 1/4-3/8 inch coupling.

**3464GR 1P** Each **19,60**


**3464GR 1P**

Product description as Art. 3464GR 1

Spare metal glasses for filters with manual valve with connection 1/2-3/4 inches

**3464GR 2** Each **70,80**


**3464GR 2**

Product description as Art. 3464GR 1

Spare polycarbonate Belleville washers for filters with manual valve, 1/2-3/4-1 inch coupling.

**3464GR 2P** Each **25,70**


**3464GR 2P**

Product description as Art. 3464GR 1

Spare metal glasses for filters with automatic valve with connection 1/4-3/8 inches

**3464GR 3** Each **90,10**


**3464GR 3**

Product description as Art. 3464GR 1

Spare polycarbonate Belleville washers for filters with automatic internal valve, 1/4-3/8 inch coupling.

**3464GR 3P** Each **51,00**


**3464GR 3P**
**10**

Product description as Art. 3464GR 1

Spare metal glasses for filters with automatic valve with connection 1/2-3/4 inches

**3464GR 4** Each **103,00**


**3464GR 4**

Product description as Art. 3464GR 1

Spare polycarbonate Belleville washers for filters with automatic internal valve, 1/2-3/4-1 inch coupling.

**3464GR 4P** Each **57,10**


**3464GR 4P**

N.B. For external valves with automatic discharge, see Art. 3468 GV.



**Orig. Ewo - Art. 483**  
 Product description as Art. 3464GR 1  
 Spare metal glasses for lubricators connection 1/4-3/8 inches

<b>3464GR 5</b>	Each	<b>53,30</b>
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Product description as Art. 3464GR 1  
 Spare polycarbonate Belleville washers for lubricators, 1/4-3/8 inch coupling.

<b>3464GR 5P</b>	Each	<b>14,40</b>
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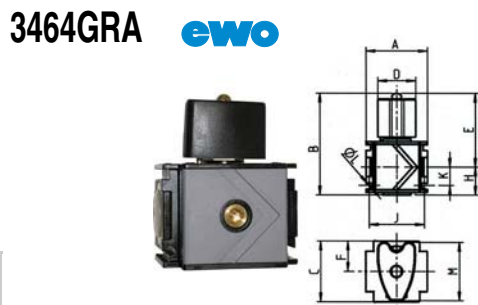
Product description as Art. 3464GR 1  
 Spare metal glasses for lubricators with connection 1/2-3/4 inches

<b>3464GR 6</b>	Each	<b>66,10</b>
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Product description as Art. 3464GR 1  
 Spare polycarbonate Belleville washers for lubricators, 1/2-3/4-1 inch coupling.

<b>3464GR 6P</b>	Each	<b>20,80</b>
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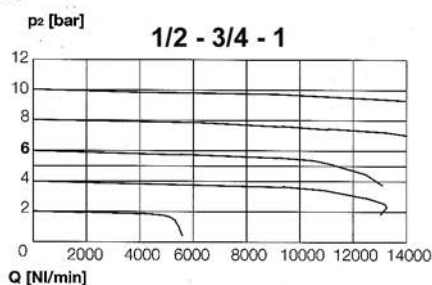
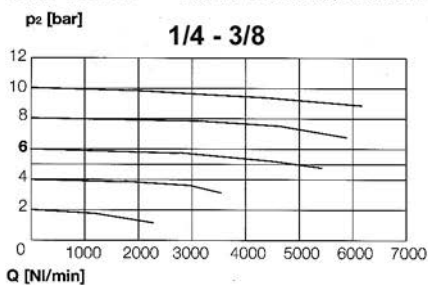


**Orig. Ewo - Art. 487**  
 Product description as Art. 3464GR 1  
 Manual air drain valve. Max operating pressure: 25 bar. Ideal for draining the remaining air from compressed-air circuits.

Drive	inches	<b>1/4</b>	<b>3/8</b>	<b>1/2</b>	<b>3/4</b>	<b>1</b>
<b>3464GRA</b>	Each	<b>55,90</b>	<b>55,90</b>	<b>83,90</b>	<b>83,90</b>	<b>122,00</b>

On demand, DRAIN ELECTROVALVES, PROGRESSIVE STARTERS AND AIR DISTRIBUTORS WITH OR WITHOUT CHECK VALVE.

**3464GRA - AIR FLOW QUANTITY Q**



sizes in mm

Da	1/4-3/8	1/2-3/4	1
A	48	70	125
B	80	92	92
C	48	70	70
D	30	30	30
E	58	64	64
F	24	35	35
H	22	28	28
J	43	62	62
K	14,5	18	18
L	4,4	5,4	5,4
M	45	45	45

10

**Orig. Ewo - Art. 480**

Product description as Art. 3464GR 1

Sets of modular COMPACT joints with gaskets.

Drive	inches	1/4	3/8	1/2	3/4-1
Dimensions (A)	mm	30,4	30,4	41,6	41,6
Dimensions (B)	mm	11	11	16	16
Dimensions (C)	mm	24	24	29	29
Dimensions (D)	mm	40	40	52	52
<b>3464GRE</b>	<b>Each</b>	<b>5,14</b>	<b>8,64</b>	<b>10,10</b>	<b>10,10</b>


**3464GRE**


Product description as Art. 3464GR 1

Sets of modular COMPACT joints with gaskets and wall bracket.

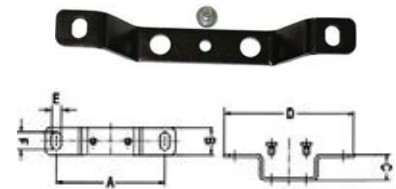
Drive	inches	1/4	3/8	1/2	3/4-1
Dimensions (A)	mm	75	75	110	110
Dimensions (B)	mm	19	19	16	16
Dimensions (C)	mm	35	35	55	55
Dimensions (D)	mm	90	90	130	130
Dimensions (E)	mm	6,5	6,5	6,5	6,5
Dimensions (F)	mm	12	12	9,5	9,5
<b>3464GRF</b>	<b>Each</b>	<b>9,76</b>	<b>9,76</b>	<b>18,60</b>	<b>18,60</b>


**3464GRF**


Product description as Art. 3464GR 1

Wall brackets for modular COMPACT joints.

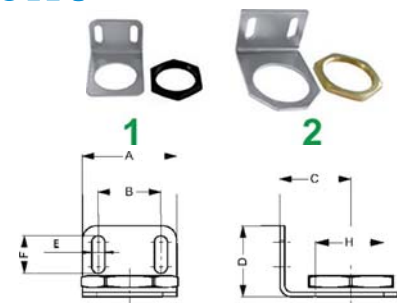
Type		1	2
Drive	inches	1/4-3/8	1/2-3/4-1
Dimensions (A)	mm	75	110
Dimensions (B)	mm	16	16
Dimensions (C)	mm	14	26
Dimensions (D)	mm	90	130
Dimensions (E)	mm	6,5	6,5
Dimensions (F)	mm	9,5	9,5
<b>3464GRL</b>	<b>Each</b>	<b>6,42</b>	<b>8,74</b>


**3464GRL**

**Orig. Ewo - Art. 443**

Product description as Art. 3464GR 1

Brackets complete with nuts to mount gearboxes and assemblies to the base of the adjustment ring.

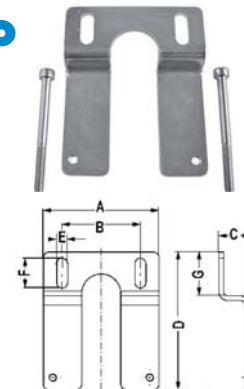
Type		1	2
Drive	inches	1/4-3/8	1/2-3/4-1
Dimensions (A)	mm	40	55
Dimensions (B)	mm	26,5	35
Dimensions (C)	mm	30	42,5
Dimensions (D)	mm	30	40
Dimensions (E)	mm	5,5	7
Dimensions (F)	mm	16	20
Dimensions (H)	mm	30,5	43
<b>3464GRT</b>	<b>Each</b>	<b>6,86</b>	<b>11,40</b>


**3464GRT**  
*new*

**Orig. Ewo - Art. 480**

Product description as Art. 3464GR 1

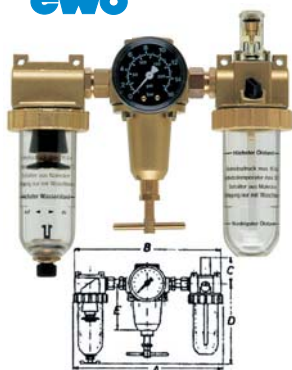
Brackets complete with screws to mount gearboxes, filters, lubricators and assemblies.

Type		1	2
Dimensions (A)	mm	50	74
Dimensions (B)	mm	34	50
Dimensions (C)	mm	15	20
Dimensions (D)	mm	71	88
Dimensions (E)	mm	5,5	7
Dimensions (F)	mm	16	19
Dimensions (G)	mm	25	28
<b>3464GRV</b>	<b>Each</b>	<b>13,70</b>	<b>14,60</b>


**3464GRV**  
*new*


**EWO TOP PROFESSIONAL COMBINATION AIR TREATMENT UNITS**

**3465G**



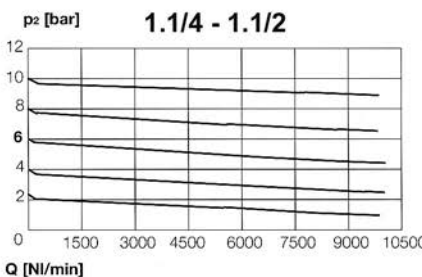
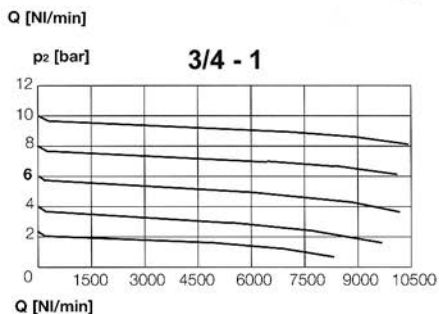
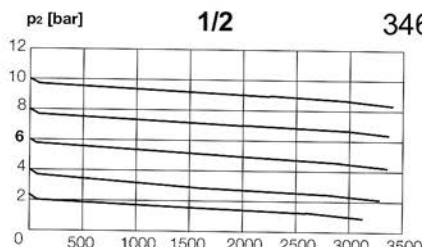
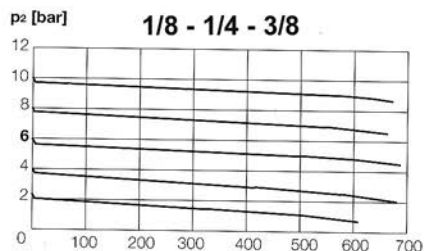
**Orig. Ewo - Art. 333-334**  
**FILTER - REGULATOR - LUBRICATOR COMBINATION**

Product which is high-qualified for its material and for the fine working of all its details. These combinations grant constant filtering and lubrication both at high and low pressures. They are installed upstream of the pneumatic circuit. Filter, regulator and lubricator must be assembled in the order indicated by the arrows printed on the body. They supply downstream clean dry air, at the right pressure and appropriately lubricated.

Adjustable from 0.5 to 10 bar (Atm). Glasses in sturdy, unbreakable transparent plastic.

Drive	inches	1/8	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2
Series		klein	klein	klein	mittel	gross	gross	max	max
Gauge Ø	mm	50	50	50	63	63	63	63	63
Filter porosity	micron	50/75	50/75	50/75	50/75	50/75	50/75	50/75	50/75
Lubricant content	cc	40	40	40	135	360	360	360	360
<b>3465G</b>	<b>Each</b>	<b>188,00</b>	<b>188,00</b>	<b>188,00</b>	<b>304,00</b>	<b>806,00</b>	<b>806,00</b>	<b>1.300,00</b>	<b>1.300,00</b>

On demand: metal glasses and metal oil regulators. Available on request GROUPS AND COMPONENTS for compressed air in STAINLESS STEEL AISI 316.



Sizes in mm

Da	1/8-1/4-3/8	1/2	3/4
A	196	281	426
B	197	274	382
C	51	55	58
D	135	172	206
E	67	85	130
Da	1	1.1/4	1.1/2
A	426	426	426
B	370	382	370
C	58	58	58
D	206	206	206
E	130	130	130

**3465GA**



**Orig. Ewo - Art. 322**  
**SPARE PARTS AND ACCESSORIES FOR COMBINATIONS ART. 3465 G**  
 Filter with manual condensation drain valve.

Drive	inches	1/8	1/4	3/8	1/2	3/4	1	1.1/4
<b>3465GA</b>	<b>Each</b>	<b>50,40</b>	<b>50,40</b>	<b>50,40</b>	<b>94,10</b>	<b>253,00</b>	<b>253,00</b>	<b>363,00</b>
Drive	inches	1.1/2						
<b>3465GA</b>	<b>Each</b>	<b>363,00</b>						

On demand: metal glasses.

**3465GB**



**Orig. Ewo - Art. 323-280**  
 Product description as Art. 3465GA  
 Regulator.

Drive	inches	1/8	1/4	3/8	1/2	3/4	1	1.1/4
<b>3465GB</b>	<b>Each</b>	<b>73,10</b>	<b>73,10</b>	<b>73,10</b>	<b>105,00</b>	<b>291,00</b>	<b>291,00</b>	<b>527,00</b>
Drive	inches	1.1/2						
<b>3465GB</b>	<b>Each</b>	<b>527,00</b>						

On demand: spare manometers.

10

**Orig. Ewo - Art. 327-300**

Product description as Art. 3465GA

Lubricator.

Drive	inches	1/8	1/4	3/8	1/2	3/4	1	1.1/4
<b>3465GC</b>	<b>Each</b>	55,80	55,80	55,80	95,10	229,00	229,00	357,00

Drive	inches	1.1/2
<b>3465GC</b>	<b>Each</b>	359,00

On demand: metal glasses and metal oil regulators.



**3465GC**

**Orig. Ewo**

Product description as Art. 3465GA

Filter glass.

Drive	inches	1/8	1/4	3/8	1/2	3/4	1	1.1/4
<b>3465GD 1</b>	<b>Each</b>	19,30	19,30	19,30	33,20	65,90	65,90	65,90

Drive	inches	1.1/2
<b>3465GD 1</b>	<b>Each</b>	65,90



**3465GD 1**

**Orig. Ewo**

Product description as Art. 3465GA

Lubricator glass.

Drive	inches	1/8	1/4	3/8	1/2	3/4	1	1.1/4
<b>3465GD 2</b>	<b>Each</b>	13,80	13,80	13,80	26,70	58,30	58,30	58,30

Drive	inches	1.1/2
<b>3465GD 2</b>	<b>Each</b>	58,30



**3465GD 2**

**Orig. Ewo**

Product description as Art. 3465GA

Metal guard with ring for Art. 3465 GD 1-2.

Drive	inches	1/8	1/4	3/8	1/2	3/4	1	1.1/4
<b>3465GE</b>	<b>Each</b>	35,60	35,60	35,60	50,10	98,40	98,40	98,40

Drive	inches	1.1/2
<b>3465GE</b>	<b>Each</b>	98,40



**3465GE**

**Orig. Ewo**

Product description as Art. 3465GA

Nipples.

Drive	inches	1/8	1/4	3/8	1/2	3/4	1	1.1/4
<b>3465GF</b>	<b>Each</b>	2,48	2,66	2,82	3,60	9,00	14,90	23,50

Drive	inches	1.1/2
<b>3465GF</b>	<b>Each</b>	23,50



**3465GF**

**FILTER WITH AUTOMATIC DRAIN VALVE**

**Orig. Ewo - Art. 370**

Differently from other traditional filters, this filter automatically drains liquid and oil impurities.

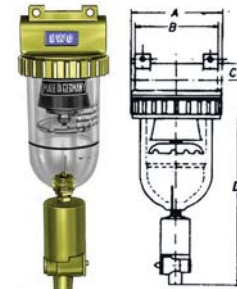
Collection glass in transparent plastic.

Unbreakable, resistant up to 50°C.

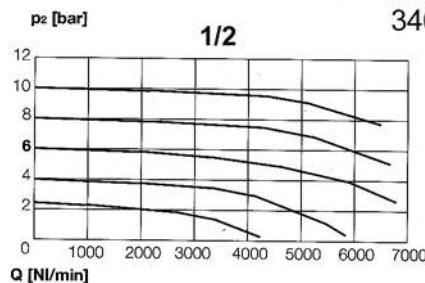
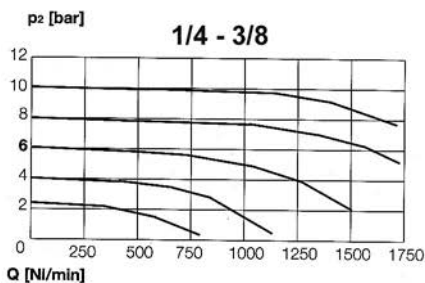
Sintered bronze filter with porosity 50/75 Micron.

Drive	inches	1/4	3/8	1/2
Dimensions (A)	mm	56	56	87
Dimensions (B)	mm	57	57	80
Dimensions (C)	mm	19	19	24
Dimensions (D)	mm	225	225	261
Series		klein	klein	mittel
<b>3468G</b>	<b>Each</b>	119,00	119,00	163,00

For spare glass see Art. 3465 GD 1.  
Standard operating pressure 6bar (Atm).



**3468G 10**



**3468G - AIR FLOW QUANTITY Q**

Misure in mm	1/4	3/8	1/2
Da	1/4	3/8	1/2
A	56	56	87
B	57	50	80
C	19	19	24
D	225	225	262

**AUTOMATIC DRAIN VALVES**

**3468GP**

**ewo**



**Orig. Ewo - Art. 441**

Automatic condensation drain valve to be installed inside the air filters glass with hole Ø 14mm and hexagon guide 19mm.

One size for all the EWO filter dimensions. Body in brass and synthetic material Ø 24mm. Min/max operating pressure: 1/12 bar (Atm).

**3468GP** Each **36,80**

**3468GV**

**ewo**



**Orig. Ewo - Art. 5370**

External automatic drain valves made of metal. One size for all the combinations COMBIBLOC - VARIOBLOC - EWO TOP. Min/max operating pressure 4/16 bar (Atm). To be screwed on the filter glass in place of the manual valve.

**3468GV** Each **77,10**

**MINI LUBRICATORS**

**3469E**

*new*

**ewo**



**Orig. Ewo - Art. 317.10**

Mini-lubricators to be connected directly to the compressed air tools. Small. Oil level visible.

Aluminium alloy body and polycarbonate container. Working pressure: approx. 6 bar (Atm). Working temperature: 0°/50°C. Contents: 5.5 cm<sup>3</sup> oil with viscosity VG 32 (Art. 1730 G).

Inner/outer connection. 1/4 GAS.

**3469E** Each **16,90**

**3469G**

**ewo**



**Orig. Ewo**

Mini-lubricators to be connected directly on pen-shaped or handled tools which work at rhythmical impulses. Characterised by small dimensions and light weight. Oil lever is visible. Adjustable oil flow.

Made of aluminium, with polycarbonate glass. Nebulising and regulating components made of brass. Operating pressure: 6bar (Atm) approx. Operating temperature range: 0°/50 °C. Content: 12 cm<sup>3</sup> of oil with viscosity VG 32 (Art. 1730 G). Regulation: 0.4 cm<sup>3</sup> per 100 pulses approx.

Drive inches **1/4** **3/8**

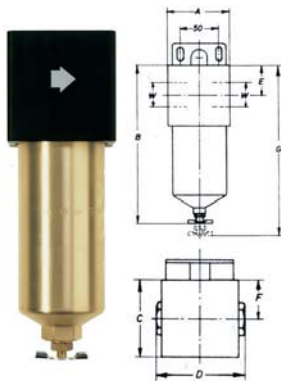
Supplier code 317.12 317.14

**3469G** Each **49,90** **49,90**

**FILTERS FOR COMPRESSED AIR UP TO 40 BAR**

**3470GT**

**ewo**

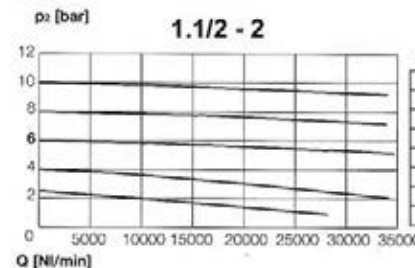
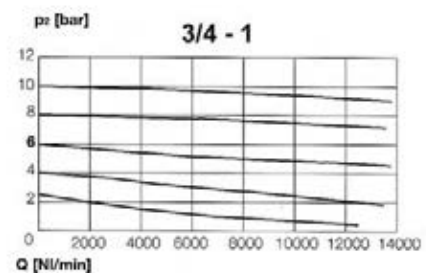
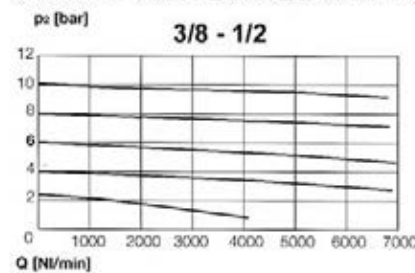


**Orig. Ewo - Art. 445-454**

Modular type for very high pressures up to 40 bar. Apt for filtering, upstream, the air of circuits. Sintered brass filter, aluminium body, brass glass. Manual drain valve. Supplied with test certification.

Drive inches **3/8** **1/2** **3/4** **1** **1.1/2** **2**  
**3470GT** Each **214,00** **214,00** **247,00** **247,00** **960,00** **960,00**

**3470GT - AIR FLOW QUANTITY Q**



sizes in mm	3/8	1/2	3/4	1	1.1/2	2
Da	3/8	1/2	3/4	1	1.1/2	2
A	62	62	80	80	140	140
B	200	200	210	210	285	285
C	62	62	80	80	140	140
D	70	62	92	80	160	140
E	30	30	45	45	42.5	42.5
F	31	31	40	40	70	70
G	250	250	285	285	350	350



10



**REGULATORS FOR COMPRESSED AIR UP TO 40 BAR**

**Orig. Ewo - Art. 280**

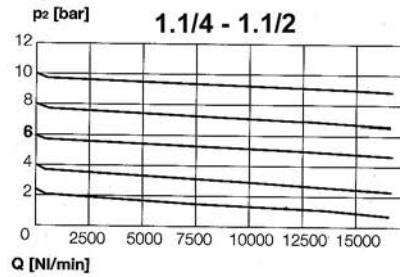
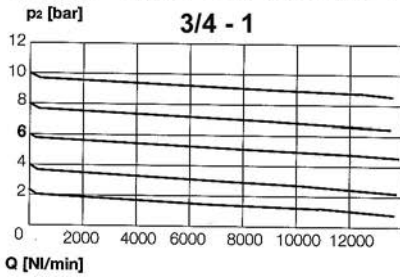
For very high input pressures up to actual 40 bar. Apt for regulating, upstream, the pressure of compressed air. With manometer. Adjustable output pressure from 0.5 to 25 bar.

Drive	inches	<b>3/4</b>	<b>1</b>	<b>1.1/4</b>	<b>1.1/2</b>
<b>3471G</b>	Each	<b>291,00</b>	<b>291,00</b>	<b>527,00</b>	<b>527,00</b>

Compressed air pressure regulators for up to 60 BAR, 1 inch connection, available on request.



**3471G - AIR FLOW QUANTITY Q**



sizes in mm

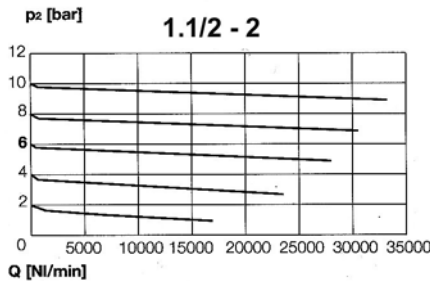
Da	3/4	1	1.1/4	1.1/2
A	116	116	116	116
B	95	83	128	114
C	41	41	50	50
D	175	175	190	190

**Orig. Ewo - Art. 417**

For very high input pressures up to actual 40 bar. Apt for regulating, upstream, the pressure of compressed air. With 2 manometers. Adjustable output pressure from 0.5 to 25 bar.

Drive	inches	<b>1.1/2</b>	<b>2</b>
<b>3471GP</b>	Each	<b>914,00</b>	<b>914,00</b>

**3471GP - AIR FLOW QUANTITY Q**



sizes in mm

Da	<b>1.1/2</b>	<b>2</b>
A	180	160
C	78	78
D	170	170



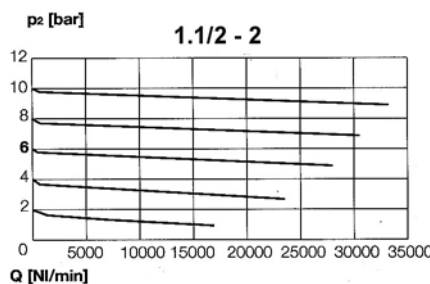
**LUBRICATORS FOR COMPRESSED AIR UP TO 25 BAR**

**Orig. Ewo - Art. 457**

For very high pressures up to 24 bar. Oil can be refilled also under pressure. Aluminium body, glass and oil regulator made of metal and resistant to very aggressive synthetic oils, high temperatures up to 80°C and strong pressures up to 25 bar.

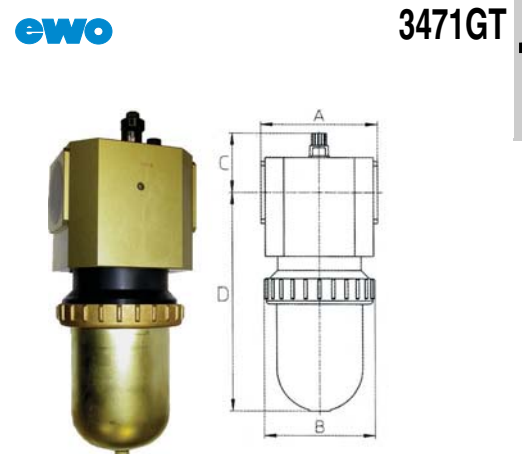
Drive	inches	<b>1.1/2</b>	<b>2</b>
Dimensions (A)	mm	140	140
Dimensions (B)	mm	140	140
Dimensions (C)	mm	72	72
Dimensions (D)	mm	360	360
<b>3471GT</b>	Each	<b>994,00</b>	<b>994,00</b>

**3471GT - AIR FLOW QUANTITY Q**



sizes in mm

Da	1.1/2	2
A	140	140
B	140	140
C	72	72
D	360	360



**SILENCERS FOR COMPRESSED AIR CIRCUITS**

**3472G**

**ewo**



**Orig. Ewo - Art. 391**

High-performance silencer for maximum capacity and silentness of air draining. Metal body with internal, polyester filter. Axial one-direction air output to grant the operators' safety. Easy to remove and washable with gasoline.

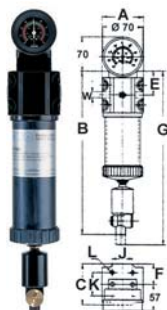
Operating temperature from -10 °C to +90 °C. Max counterpressure : 6 bar.

Drive	inches	<b>1/2</b>	<b>3/4</b>	<b>1</b>	<b>1.1/4</b>	<b>1.1/2</b>	<b>2</b>
Level of noiseleness	dB	88	88	88	89	91	92
	<b>3472G</b>	<b>Each</b>	<b>68,80</b>	<b>73,10</b>	<b>106,00</b>	<b>109,00</b>	<b>180,00</b>
				<b>182,00</b>			

**SPARE PARTS FOR EWOBLOC BIG AIR TREATMENT UNITS, FILTER SYSTEMS V -M - A**

**3473GA**

**ewo**



**Orig. Ewo - Art. 429**

High qualified product for extreme filtering of compressed air up to total purification. Used where standard filters are not sufficient any more. Body in special aluminium alloy with surface protection against corrosion. Differential manometer indicates pressure drop in the filter. Double scale with range from 0 to 2 bar. Combinations of 3 different types of internal filters are available to suit the different needs of air purification. Each combination can also be integrated with another one for higher filtering.

**1-PIECE FILTER COMBINATION**

1-piece combination with internal filter in sintered polyethylene for filtering solid particles over 2 µm.

Particularly indicated as a pre-filter in installations for compressed air and gas in general.

With automatic drain valve and manometer.

Drive	inches	<b>1/4</b>	<b>3/8</b>	<b>1/2</b>	<b>3/4</b>	<b>1</b>
	<b>3473GA</b>	<b>Each</b>	<b>445,00</b>	<b>445,00</b>	<b>497,00</b>	<b>497,00</b>
				<b>658,00</b>		

For spare drain valves see Art. 3468 GV.

Size in mm

From	1/4-3/8	1/2-3/4	1
A	83	83	118
B	335	405	420
C	83	83	118
E	57	57	72
F	41,5	41,5	59
G**	410	550	430
J	40	40	70
K	48	48	80
L	M6	M6	M8
Peso g	2.100	2.300	4.800

\*\* with space for the substitution of the cartridge

**3473GA - AIR FLOW QUANTITY Q**

Air flow quantity Q

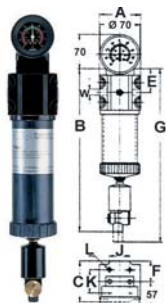
in Nm3 (NI/min) gauging at a pressure of 6 bar and at a differential pressure of 0,05 bar

Da	1/4-3/8	1/2-3/4	1
Q	60 (1000)	120 (2000)	180 (3000)



**3473GB**

**ewo**



**Orig. Ewo - Art. 430**

Product description as Art. 3473GA

**1-PIECE FILTER COMBINATION**

1-piece combination with internal filter in borosilicate for filtering aerosols and solid particles over 0.01 µm.

Particularly indicated for painting installations, sandblasting, decompression installations, measure instruments and machines, air-conditioning, technical air and production process.

With automatic drain valve and manometer.

Drive	inches	<b>1/4</b>	<b>3/8</b>	<b>1/2</b>	<b>3/4</b>	<b>1</b>
	<b>3473GB</b>	<b>Each</b>	<b>445,00</b>	<b>445,00</b>	<b>497,00</b>	<b>497,00</b>
					<b>658,00</b>	

For spare drain valves see Art. 3468 GV.

Sizes in mm

From	1/4-3/8	1/2-3/4	1
A	83	83	118
B	335	405	420
C	83	83	118
E	57	57	72
F	41,5	41,5	59
G**	410	550	430
J	40	40	70
K	48	48	80
L	M6	M6	M8
Weight g.	2.100	2.300	4.800

\*\* with space for the substitution of the cartridge

**3473GB - AIR FLOW QUANTITY Q**

Air flow quantity Q

in Nm3 (NI/min) gauging at a pressure of 6 bar and at a differential pressure of 0,1 bar

Da	1/4-3/8	1/2-3/4	1
Q	78 (1300)	120 (2000)	245 (4080)

10

**Orig. Ewo - Art. 431**

High qualified product for extreme filtering of compressed air up to total purification. Used where standard filters are not sufficient any more. Body in special aluminium alloy with surface protection against corrosion. Combinations of 3 different types of internal filters are available to suit the different needs of air purification. Each combination can also be integrated with another one for higher filtering.

**1-PIECE FILTER COMBINATION**

1-piece combination with internal filter in activated carbon for absorbing liquids which produce vapours.

Particularly indicated for food and packaging industry, drink production, air breathed out from organisms, pressure chambers, medicine, dentists.

With manual drain valve, without manometer.

Drive	inches	1/4	3/8	1/2	3/4	1
<b>3473GC</b>	<b>Each</b>	<b>262,00</b>	<b>262,00</b>	<b>314,00</b>	<b>314,00</b>	<b>475,00</b>

Size in mm			
From	1/4-3/8	1/2-3/4	1
A	83	83	118
B	245	315	330
C	83	83	118
E	57	57	72
F	41,5	41,5	59
G**	320	460	440
J	40	40	70
K	48	48	80
L	M6	M6	M8
Weight g.	1.890	2.090	4.590

\*\* with space for the substitution of the cartridge


**3473GC**

**3473GC - AIR FLOW QUANTITY Q**

Air flow quantity Q  
in Nm3 (NI/min) gauging at a pressure of 6 bar  
and at a differential pressure of 0,12 bar

From	1/4-3/8	1/2-3/4	1
Q	30 (500)	60 (1000)	90 (1500)

**Orig. Ewo - Art. 432**

High qualified product for extreme filtering of compressed air up to total purification. Used where standard filters are not sufficient any more. Body in special aluminium alloy with surface protection against corrosion. Differential manometer indicates pressure drop in the filter. Double scale with range from 0 to 2 bar. Combinations of 3 different types of internal filters are available to suit the different needs of air purification. Each combination can also be integrated with another one for higher filtering.

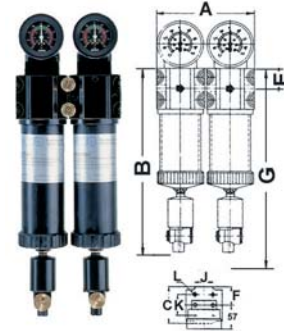
**2-PIECES FILTER COMBINATION**

Combination of filters Art. 3473 GA and 3473 GB. Complete.

Drive	inches	1/4	3/8	1/2	3/4	1
<b>3473GE</b>	<b>Each</b>	<b>904,00</b>	<b>904,00</b>	<b>1.020,00</b>	<b>1.020,00</b>	<b>1.350,00</b>

Sizes in mm			
From	1/4-3/8	1/2-3/4	1
A	166	166	236
B	335	405	420
C	83	83	118
E	57	57	72
F	41,5	41,5	59
G**	410	550	430
J	40	40	70
K	48	48	80
L	M6	M6	M8
Weight g.	4.200	4.600	9.600

\*\* with space for the substitution of the cartridge


**3473GE**

**3473GE - AIR FLOW QUANTITY Q**

Air flow quantity Q  
in Nm3 (NI/min) gauging at a pressure of 6 bar  
and at a differential pressure of 0,1 bar

From	1/4-3/8	1/2-3/4	1
Q	78 (1300)	120 (2000)	245 (4080)

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**Orig. Ewo - Art. 433**

Product description as Art. 3473GE

**2-PIECES FILTER COMBINATION**

Combination of filters Art. 3473 GB and 3473 GC. Complete.

Drive	inches	1/4	3/8	1/2	3/4	1
<b>3473GF</b>	<b>Each</b>	<b>739,00</b>	<b>739,00</b>	<b>825,00</b>	<b>825,00</b>	<b>1.160,00</b>

Size in mm			
From	1/4-3/8	1/2-3/4	1
A	166	166	236
B	335	405	420
C	83	83	118
E	57	57	72
F	41,5	41,5	59
G**	410	550	430
J	40	40	70
K	48	48	80
L	M6	M6	M8
Weight g	3.990	4.390	9.390

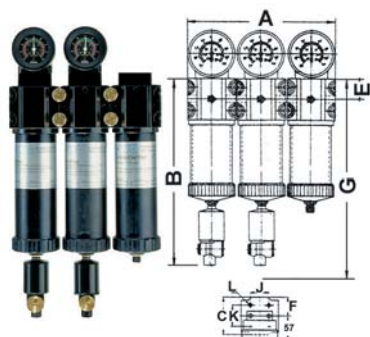
**3473GF - AIR FLOW QUANTITY Q**

Air flow quantity Q  
in Nm3 (NI/min) gauging at a pressure of 6 bar  
and at a differential pressure of 0,12 bar

Da	1/4-3/8	1/2-3/4	1
Q	30 (500)	60 (1000)	90 (1500)


**3473GF**


### 3473GL ewo



**Orig. Ewo - Art. 434**

**3-PIECES FILTER COMBINATION**

Combination of filters Art. 3473 GA - 3473 GB - 3473 GC.

Complete.

Drive	inches	1/4	3/8	1/2	3/4	1
<b>3473GL</b>	<b>Each</b>	<b>1.190,00</b>	<b>1.190,00</b>	<b>1.350,00</b>	<b>1.350,00</b>	<b>1.840,00</b>

Sizes in mm

From	1/4-3/8	1/2-3/4	1
A	166	166	236
B	335	405	420
C	83	83	118
E	57	57	72
F	41,5	41,5	59
G**	410	550	430
J	40	40	70
K	48	48	80
L	M6	M6	M8
Weight g.	6.090	6.690	14.190

### 3473GL - AIR FLOW QUANTITY Q

Air flow quantity Q

in Nm<sup>3</sup> (Nl/min) gauging at a pressure of 6 bar and at a differential pressure of 0,12 bar

From	1/4-3/8	1/2-3/4	1
Q	30 (500)	60 (1000)	90 (1500)

### 3473GP 1 ewo



**Orig. Ewo - Art. 429**

SPARE FILTERS FOR FILTER COMBINATIONS ART. 3473 GA-B-C-E-F-L.

In sintered polyethylene for combinations with connection 1/4 - 3/8.

<b>3473GP 1</b>	<b>Each</b>	<b>85,30</b>
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### 3473GP 2 ewo



Product description as Art. 3473GP 1

In sintered polyethylene for combinations with connection 1/2 - 3/4.

<b>3473GP 2</b>	<b>Each</b>	<b>103,00</b>
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### 3473GP 3 ewo



Product description as Art. 3473GP 1

In sintered polyethylene for combinations with connection 1.

<b>3473GP 3</b>	<b>Each</b>	<b>133,00</b>
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### 3473GR 1 ewo



**Orig. Ewo - Art. 430**

Product description as Art. 3473GP 1

In borosilicate for combinations with connection 1/4 - 3/8.

<b>3473GR 1</b>	<b>Each</b>	<b>85,30</b>
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### 3473GR 2 ewo



Product description as Art. 3473GP 1

In borosilicate for combinations with connection 1/2 - 3/4.

<b>3473GR 2</b>	<b>Each</b>	<b>103,00</b>
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### 3473GR 3 ewo



Product description as Art. 3473GP 1

In borosilicate for combinations with connection 1.

<b>3473GR 3</b>	<b>Each</b>	<b>133,00</b>
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### 3473GS 1 ewo



**Orig. Ewo - Art. 431**

Product description as Art. 3473GP 1

In activated carbon for combinations with connection 1/4 - 3/8.

<b>3473GS 1</b>	<b>Each</b>	<b>85,30</b>
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Product description as Art. 3473GP 1

In activated carbon for combinations with connection 1/2 - 3/4.

**3473GS 2** Each **103,00**

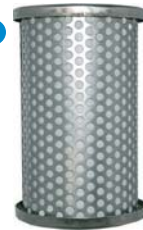


**3473GS 2**

Product description as Art. 3473GP 1

In activated carbon for combinations with connection 1.

**3473GS 3** Each **133,00**



**3473GS 3**

**Orig. Ewo - Art. 5429**

SPARE MANOMETERS FOR FILTER COMBINATIONS ART. 3473 GA-B-E-F-L.

Diameter: 48mm (one size for all combinations).

**3473GT** Each **128,00**



**3473GT**

**Orig. Ewo - Art. 429**

SPARE FIXING BRACKETS FOR FILTER COMBINATIONS ART. 3473 GA-B-C-E-F-L.

For combinations with connection 1/4 - 3/8 - 1/2 - 3/4.

**3473GV 1** Each **11,10**

Product description as Art. 3473GV 1

For combinations with connection 1

**3473GV 2** Each **13,70**



**3473GV 1**  
**3473GV 2**

**NYLON CABLE TIES**

**Prod. SCU**

In nylon 6/6 resistant to atmospheric agents, chemicals and self-extinguishing.

Highly resistant to tearing, for any type of cable.

White ties are marked by the letter B.

Black ties are marked by the letter N.

Width: 2.5mm. Package unit of 100pcs not sold separately.

Overall length	mm	75B	75N	100B	100N	135B	135N	160B	160N
<b>3473H</b>	<b>Per pack</b>	0,78	0,78	0,68	0,68	1,22	1,22	1,66	1,66

Overall length	mm	200B	200N
<b>3473H</b>	<b>Per pack</b>	1,72	1,72

Product description as Art. 3473H

Width: 3.6mm. Package unit of 100pcs not sold separately.

Overall length	mm	140B	140N	200B	200N	280B	280N	360B	360N
<b>3473L</b>	<b>Per pack</b>	1,68	1,70	2,62	2,62	3,76	3,76	5,56	5,56

Product description as Art. 3473H

Width: 4.8mm. Package unit of 100pcs not sold separately.

Overall length	mm	160B	160N	200B	200N	250B	250N	280B	280N
<b>3473M</b>	<b>Per pack</b>	2,98	2,98	3,12	3,12	4,06	4,06	5,20	5,20

Overall length	mm	360B	360N	430B	430N	530B	530N
<b>3473M</b>	<b>Per pack</b>	6,22	6,22	9,94	9,94	14,10	14,10

Product description as Art. 3473H

Width: 7.5mm. Package unit of 100pcs not sold separately.

Overall length	mm	180B	180N	240B	240N	280B	280N	360B	360N
<b>3473P</b>	<b>Per pack</b>	7,48	7,48	8,70	8,70	10,30	10,30	12,30	12,30

Overall length	mm	450B	450N	540B	540N	750B	750N
<b>3473P</b>	<b>Per pack</b>	24,60	25,80	32,60	34,30	40,90	42,80

Product description as Art. 3473H

Width: 9mm. Package unit of 100pcs not sold separately.

Overall length	mm	430B	430N	550B	550N	780B	780N
<b>3473PE</b>	<b>Per pack</b>	29,70	31,20	35,10	37,20	48,80	51,60

Product description as Art. 3473H

Width: 12.5mm. Package unit of 50pcs not sold separately.

Overall length	mm	250B	250N	500B	500N	750B	750N	1000B	1000N
<b>3473PF</b>	<b>Per pack</b>	14,90	15,70	24,30	25,70	31,20	32,70	45,70	47,90



**3473H**  
**3473L**  
**3473M**  
**3473P**  
**3473PE**  
**3473PF**



**10**

**REUSABLE NYLON CABLE TIES**

3473PS


**Prod. SCU**

7-packages assorted set of 6/6 nylon cable ties.

Colour BLACK.

The set consists of:

No.1 cable ties pliers Art. 3473 T

No.1 package per type, tape width 2.5mm Art. 3473 H 75N - 100N

No.1 package per type, tape width 3.6mm, Art. 3473 L 140N - 200N

No.1 package per type, tape width 4.8mm, Art. 3473 M 200N - 250N - 280N.

In plastic case.

<b>3473PS</b>	Each	<b>66,06</b>
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3473PT




Product description as Art. 3473PS

Colour WHITE.

The set consists of:

No.1 cable ties pliers Art. 3473 T

No.1 package per type, tape width 2.5mm, Art. 3473 H 75B - 100B

No.1 package per type, tape width 3.6mm, Art. 3473 L 140B - 200B

No.1 package per type, tape width 4.8mm, Art. 3473 M 200B - 250B - 280B.

In plastic case.

<b>3473PT</b>	Each	<b>66,04</b>
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**NYLON CABLE TIES WITH STAINLESS STEEL CATCH**

3473RA



3473RB

3473RF

3473RL

**Prod. SCU**

With stainless steel catch which grants a big load. Cable tie body in nylon 6/6 resistant to atmospheric agents, chemicals and self-extinguishing, with SMOOTH surface for more flexibility and resistant to tearing.

Ideal for cables in the more advanced technological sectors, i.e. naval, aeronautical, transport, electrical, etc. White ties are marked by the letter B. Black ties are marked by the letter N.

Width: 2.5mm. Max load: 18N. Package unit of 100pcs not sold separately.

Overall length	mm	100B	100N	200B	200N
<b>3473RA</b>	Per pack	3,90	4,08	10,80	11,30

Product description as Art. 3473RA

Width: 3.5mm. Max load: 28N. Package unit of 100pcs not sold separately.

Overall length	mm	140B	140N	200B	200N	280B	280N
<b>3473RB</b>	Per pack	5,76	6,00	11,20	11,70	20,70	21,70

Product description as Art. 3473RA

Width: 4.5mm. Max load: 40N. Package unit of 100pcs not sold separately.

Overall length	mm	200B	200N	290B	290N	360B	360N
<b>3473RF</b>	Per pack	15,40	16,10	29,20	30,70	33,10	34,70

Product description as Art. 3473RA

Width: 7.5mm. Max load: 80N. Package unit of 50pcs not sold separately.

Overall length	mm	220B	220N	360B	360N
<b>3473RL</b>	Per pack	16,60	17,40	25,50	26,80

Sizes mm 220B and 220N running out of stock.

**REUSABLE NYLON CABLE TIES**

3473S


**Prod. SCU**

Reusable cable tie with release lock. In nylon 6/6 resistant to atmospheric agents, chemicals and self-extinguishing. Highly resistant to tearing, for any kind of cable.

White ties are marked by the letter B.

Black ties are marked by the letter N.

Band length: 7.6mm. Package unit of 100pcs not sold separately.

Overall length	mm	150B	150N	200B	200N	250B	250N	300B
<b>3473S</b>	Per pack	8,34	8,34	9,86	9,86	12,10	12,10	14,20

Overall length	mm	300N	370B	370N
<b>3473S</b>	Per pack	14,20	17,10	17,10

**NYLON CABLE TIES**

**Prod. SCU**

Reusable, with simple lock.  
 In nylon 12, particularly resistant to atmospheric agents, chemicals and self-extinguishing. Highly resistant to tearing, for any kind of cable.  
 Colour: black.

Package unit of 100pcs not sold separately.

Overall length	mm	115	175	180	265	360	500	750
Width	mm	6	6	9	9	9	9	9
<b>3473SE</b>	<b>Per pack</b>	<b>10,40</b>	<b>12,60</b>	<b>15,70</b>	<b>24,70</b>	<b>35,10</b>	<b>68,40</b>	<b>91,30</b>

SCU



**3473SE**

**CABLE TIES PLIERS**

**Prod. SCU**

Professional manual model to clamp and cut.  
 In painted steel, for cable ties up to 9.5mm of width.

Overall length	mm	180
<b>3473T</b>	<b>Each</b>	<b>37,30</b>

SCU



**3473T**

Professional automatic model with adjustable traction to clamp and cut.  
 In sturdy, synthetic material, operating parts in steel. For cable ties of 2.5 - 4.8mm of width.

Overall length	mm	165
<b>3473V</b>	<b>Each</b>	<b>31,10</b>

SCU



**3473V**

Industrial automatic model with adjustable traction to clamp and cut. For continuous use.  
 Completely made of steel. For cable ties of 2.2 - 4.8mm of width.

Overall length	mm	165
<b>3473VE</b>	<b>Each</b>	<b>56,80</b>

SCU



**3473VE**

**NYLON CABLE TIES CUTTERS**

**Prod. SCU**

Model with special-shaped blades to cut Nylon cable-ties without damaging the tight cables.  
 High shear force, special steel blades, hardened, plastic-coated handles, spring and latch.

For clamps up to width	mm	10
Overall length	mm	150
<b>3473VR</b>	<b>Each</b>	<b>18,90</b>

SCU



**3473VR**  
*new*

**BAND, NYLON CABLE TIES**

**Prod. SCU**

Band cable ties for clamping any diameter. In nylon 6/6 resistant to atmospheric agents, chemicals and self-extinguishing. Highly resistant to tearing. To be used together with clamping clips Art. 3473 Z/40 and 3473 Z/70. No special tool is required for stretching and clamping. Clips and band are reusable. Colour: black.

Band width: 4mm. In packages of 25m, not sold separately.

<b>3473Z 4</b>	<b>Per pack</b>	<b>21,90</b>
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Product running out of stock.

SCU



**3473Z 4**

**10**

Product description as Art. 3473Z 4

Band width: 7mm. In packages of 20m, not sold separately.

<b>3473Z 7</b>	<b>Per pack</b>	<b>25,10</b>
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Product running out of stock.

SCU



**3473Z 7**

## 3473Z 40 SCU



CLIPS FOR ART. 3473 Z/4 - 3473 Z/7

In nylon 6/6. Colour: black.

For band with width: 4mm. In packages of 200pcs, not sold separately.

3473Z 40	Per pack	20,80
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Product running out of stock.

## 3473Z 70 SCU



Product description as Art. 3473Z 40

For band with width: 7mm. In packages of 100pcs, not sold separately.

3473Z 70	Per pack	20,60
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Product running out of stock.

## HOSE CLAMPS

## 3474A SCU



Prod. SCU

Completely made of zinc-coated steel, perforated band.

Width: 9mm.

Capacity	mm	7-11	25-45	32-52
3474A	Each	0,14	0,20	0,22

Product running out of stock.

## 3474BN SCU

INOX



DIN 3017 type with band and housing made from stainless steel INOX 430, galvanised screw highly resistant to oxidation. Embossed band, rounded, raised edges. 7mm hex screw.

Width: 9mm. Driving torque: 4.5Nm

Capacity	mm	8-12	10-16	12-20	16-25	20-32	25-40	32-50
3474BN	Each	0,42	0,42	0,42	0,46	0,48	0,52	0,54

Capacity	mm	40-60	50-70	60-80	70-90	80-100	90-110	100-120
3474BN	Each	0,60	0,64	0,70	0,74	0,78	0,86	0,86

Capacity	mm	110-130
3474BN	Each	0,86

10

## 3474CN SCU

INOX



DIN 3017 type with band and housing made from stainless steel INOX 430, W 2, galvanised screw extremely resistant to oxidation. Embossed band, rounded, raised edges. 7mm hex screw. Width 12mm. Locking torque Nm 6.

Capacity	mm	16-27	20-32	25-40	30-45	32-50	40-60	50-70
3474CN	Each	0,76	0,78	0,78	0,84	0,84	0,86	0,88

Capacity	mm	60-80	70-90	80-100	90-110	100-120	110-130	120-140
3474CN	Each	1,32	1,40	1,52	1,56	1,60	1,62	1,76

Capacity	mm	130-150	140-160	150-170	160-180	170-190	180-200
3474CN	Each	1,80	1,84	1,86	1,86	2,08	2,24

## 3474EN SCU

INOX



DIN 3017 type, made entirely from stainless steel INOX 304, W 4. Embossed band, rounded, raised edges. 7mm hex screw.

Width: 9mm. Driving torque: 4.5Nm

Capacity	mm	8-12	10-16	12-20	16-25	20-32	25-40	32-50	40-60
3474EN	Each	0,90	0,94	0,96	1,06	1,10	1,16	1,22	1,28

Capacity	mm	50-70	60-80	70-90	80-100	90-110	100-120	110-130
3474EN	Each	1,34	1,42	1,48	1,54	1,62	1,66	1,80



Product description as Art. 3474EN

Width 12mm. Locking torque Nm 6.

Capacity	mm	16-27	20-32	25-40	30-45	32-50	40-60	50-70
<b>3474FN</b>	Each	1,26	1,32	1,32	1,38	1,50	1,50	1,56
Capacity	mm	60-80	70-90	80-100	90-110	100-120	110-130	120-140
<b>3474FN</b>	Each	1,88	2,02	2,14	2,42	2,52	2,52	2,62
Capacity	mm	130-150	140-160	150-170	160-180	170-190	180-200	
<b>3474FN</b>	Each	2,76	2,84	2,94	3,04	3,62	3,98	

SCU

INOX

3474FN



model DIN 3017, 316 stainless steel, W 5. Drawn band, rounded edges and raised. Screw with Hexagon mm 7.

Width 9mm. Locking torque 4.5 Nm.

Suitable for the food, maritime, petrochemical sector etc.

Capacity	mm	8-12	10-16	12-20	16-25	20-32	25-40	32-50
<b>3474G</b>	Each	1,24	1,30	1,32	1,48	1,52	1,60	1,68
Capacity	mm	40-60	50-70	60-80	70-90	80-100		
<b>3474G</b>	Each	1,76	1,86	1,94	2,04	2,12		

SCU

INOX

3474G



Product description as Art. 3474G

Width 12mm. Locking torque 6 Nm.

Suitable for the food, maritime, petrochemical sector etc.

Capacity	mm	16-27	20-32	25-40	30-45	32-50	40-60	50-70
<b>3474H</b>	Each	2,10	2,16	2,26	2,26	2,38	2,50	2,62
Capacity	mm	60-80	70-90	80-100	90-110	100-120	110-130	120-140
<b>3474H</b>	Each	2,98	3,12	3,26	3,38	3,50	3,64	3,78
Capacity	mm	130-150	140-160	150-170	160-180	170-190	180-200	
<b>3474H</b>	Each	3,88	4,02	4,02	4,26	4,26	4,26	

SCU

INOX

3474H



Collar type.

In W1 galvanized steel, band in one smooth unit, round esges.

Width: 9mm. Ensure a low driving torque. Suitable for automotive industry, household appliances, gas system components , etc.

Capacity	mm	7-9	8-10	9-11	10-12	11-13	12-14	13-15
<b>3474L</b>	Each	0,32	0,32	0,32	0,32	0,32	0,32	0,32
Capacity	mm	14-16	15-17	16-18	17-19	18-20	19-21	
<b>3474L</b>	Each	0,32	0,32	0,32	0,32	0,32	0,32	

SCU

3474L



### BAND, HOSE CLAMPS

**Prod. SCU**

Suitable for frequent clamping, non-heavy applications. Suitable for hose clamps Art. 3474 BN - CN - EN - FN - L as well for any hose clamp with hexagonal screw, opening 7mm.

HOSE CLAMP PLASTIC KEYS

<b>3474LG</b>	Each	0,62
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SCU

3474LG



### HOSE CLAMPS WITH RUBBER

**Prod. SCU**

Type in W1 galvanized steel, smooth band with raised edges and hex-end screw. The bolt is directly fixed on the threaded barrel, therefore collars can be tighten with electric or pneumatic screwdrivers.

Ensure high clamping capacities. To be employed in agruculture, building, hydraulic sectors, etc.

Capacity Ø	mm	23-25	26-28	29-31	32-35	36-39	40-43	44-47
Screw	M	6	6	6	6	6	6	6
Belt width x thickness	mm	20x0,6	20x0,6	20x0,6	20x0,6	20x0,6	20x0,6	22x0,8
<b>3474M</b>	Each	1,30	1,30	1,34	1,38	1,72	1,80	1,80
Capacity Ø	mm	48-51	52-55	56-59	60-63	64-67	68-73	74-79
Screw	M	6	6	6	6	6	8	8
Belt width x thickness	mm	22x0,8	22x0,8	22x0,8	22x0,8	22x0,8	24x0,8	24x0,8
<b>3474M</b>	Each	1,82	1,84	1,86	1,90	1,94	2,04	2,08
Capacity Ø	mm	80-85	86-91	92-97	98-103	104-112	113-121	122-130
Screw	M	8	8	8	8	8	8	8
Belt width x thickness	mm	24x0,8	24x0,8	24x0,8	24x0,8	24x0,8	24x0,8	24x0,8
<b>3474M</b>	Each	2,16	2,20	2,24	2,26	2,34	2,62	3,60
Capacity Ø	mm	131-140	140-148	149-161	162-174	175-187	188-200	
Screw	M	10	10	10	10	10	10	
Belt width x thickness	mm	26x1	26x1	26x1	26x1	26x1	26x1	
<b>3474M</b>	Each	3,68	3,80	3,98	4,02	4,14	4,40	

SCU

3474M



**3474ME**



INOX

Type made entirely from stainless steel INOX 304, W 4. Smooth band with raised edges and hex screw. The bolt is directly fixed on the threaded barrel, so that collars can be tightened with electric or pneumatic screwdrivers.

Ensure high clamping capacities. Particularly suitable for nautical and food sectors.

Capacity Ø	mm	<b>23-25</b>	<b>26-28</b>	<b>29-31</b>	<b>32-35</b>	<b>36-39</b>	<b>40-43</b>	<b>44-47</b>
Screw	M	6	6	6	6	8	8	8
Belt width x thickness	mm	21x0,8	21x0,8	21x0,8	21x0,8	21x0,8	21x0,8	21x0,8
<b>3474ME</b>	<b>Each</b>	<b>3,46</b>	<b>3,46</b>	<b>3,46</b>	<b>3,46</b>	<b>5,76</b>	<b>5,80</b>	<b>5,84</b>
Capacity Ø	mm	<b>48-51</b>	<b>52-55</b>	<b>56-59</b>	<b>60-63</b>	<b>64-67</b>	<b>68-73</b>	<b>74-79</b>
Screw	M	8	8	8	8	8	8	8
Belt width x thickness	mm	21x0,8	21x0,8	21x0,8	21x0,8	21x0,8	24x1,2	24x1,2
<b>3474ME</b>	<b>Each</b>	<b>5,88</b>	<b>5,92</b>	<b>6,00</b>	<b>6,06</b>	<b>6,10</b>	<b>6,14</b>	<b>6,18</b>
Capacity Ø	mm	<b>80-85</b>	<b>86-91</b>	<b>92-97</b>	<b>98-103</b>	<b>104-112</b>	<b>113-121</b>	<b>122-130</b>
Screw	M	8	8	8	8	8	8	8
Belt width x thickness	mm	24x1,2	24x1,2	24x1,2	24x1,2	24x1,2	24x1,2	24x1,5
<b>3474ME</b>	<b>Each</b>	<b>6,24</b>	<b>6,32</b>	<b>6,40</b>	<b>6,46</b>	<b>6,50</b>	<b>6,54</b>	<b>6,58</b>
Capacity Ø	mm	<b>131-140</b>	<b>140-148</b>	<b>149-161</b>	<b>162-174</b>	<b>175-187</b>	<b>188-200</b>	
Screw	M	8	8	8	8	8	8	
Belt width x thickness	mm	26x1,5	26x1,5	26x1,5	26x1,5	26x1,5	26x1,5	
<b>3474ME</b>	<b>Each</b>	<b>6,72</b>	<b>6,80</b>	<b>6,90</b>	<b>6,98</b>	<b>7,08</b>	<b>7,20</b>	

**BAND, HOSE CLAMPS**
**3474PA**



Prod. SCU

Assorted sets of No. 100 hose clamps Art. 3474 BN, in practical case Art. 2083 T 10. Empty compartments are provided to allow the customer to add new items to his set.

The set consists of:

- No.20 hose clamps Art. 3474 BN 8-12
- No.30 hose clamps Art. 3474 BN 10-16
- No.20 hose clamps Art. 3474 BN 12-20
- No.20 hose clamps Art. 3474 BN 16-25
- No.10 hose clamps Art. 3474 BN 20-32.

Complete set.

<b>3474PA</b>	<b>Each</b>	<b>55,00</b>
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**3474PE**



Composition:

- 17 hose clamps Art. 3474 CN 16-27
- 5 hose clamps Art. 3474 CN 20-32
- 5 hose clamps Art. 3474 CN 25-40
- 10 hose clamps Art. 3474 CN 32-50
- 10 hose clamps Art. 3474 CN 40-60
- 3 hose clamps Art. 3474 CN 50-70.

Complete set.

<b>3474PE</b>	<b>Each</b>	<b>51,96</b>
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**BAND, HOSE CLAMPS**
**3474R**




Prod. SCU

Band type, to clamp any kind of diameter.

In stainless steel (AISI 301). Package unit in rolls of 30m approx. Not sold separately.

Width	mm	<b>6,3</b>	<b>9,5</b>	<b>12,7</b>	<b>15,8</b>	<b>19</b>
Thickness	mm	0,51	0,65	0,75	0,75	0,75
<b>3474R</b>	<b>Per pack</b>	<b>22,40</b>	<b>25,40</b>	<b>39,10</b>	<b>47,20</b>	<b>50,40</b>

Band type, to clamp any kind of diameter.

In stainless steel INOX (AISI 304) for a higher resistance to oxidation. Package unit in rolls of 30m approx. Not sold separately.

Width	mm	6,3	9,5	12,7	15,8	19
Thickness	mm	0,51	0,65	0,75	0,75	0,75
<b>3474RE</b>	<b>Per pack</b>	<b>24,70</b>	<b>28,10</b>	<b>43,40</b>	<b>52,20</b>	<b>55,70</b>

Band type hose clamps and fastening claws in stainless steel AISI 316 available on request.



#### FASTENING CLAWS FOR ART.3474R - 3474 RE

In stainless steel (AISI 304). Package unit or 100 pcs not sold separately.

For belt width	mm	6,3	9,5	12,7	15,8	19
<b>3474S</b>	<b>Per pack</b>	<b>12,70</b>	<b>14,10</b>	<b>21,80</b>	<b>25,40</b>	<b>26,80</b>



#### CLAWS WITH FASTENING SCREW FOR ART. 3474 R-3474 RE.

In stainless steel (AISI 304) to be used many times and for an even safer fastening.

Packages of 25m, not sold separately.

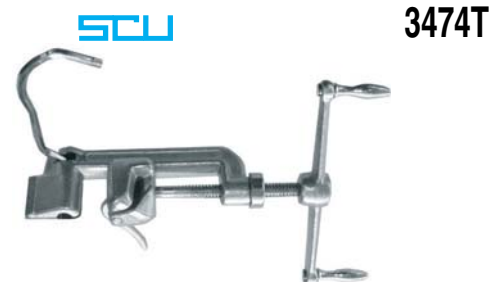
<b>3474SE</b>	<b>Per pack</b>	<b>56,10</b>
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#### DEVICE FOR BAND, HOSE CLAMPS ART.3474R - 3474 RE

In forged steel. Apt for stretching, clamping and cutting band hose clamps of any width.

<b>3474T</b>	<b>Each</b>	<b>150,00</b>
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### HOSE CLAMPS WITH RUBBER

#### Prod. SCU

In stainless steel 430 (W 3). Shaped band coated with anti-vibration rubber. With fastening holes. Ideal to support and fasten hoses, protecting them from vibrations and breaks due to clamping.

Fastening hole 8mm

(capacity diam. 45-50-60 fastening hole 10.5mm).

Capacity Ø	mm	6	8	10	12	14	16	18
Belt width x thickness	mm	16x0,6	16x0,6	16x0,6	16x0,6	16x0,6	16x0,8	16x0,8
<b>3474V</b>	<b>Each</b>	<b>0,52</b>	<b>0,56</b>	<b>0,56</b>	<b>0,62</b>	<b>0,68</b>	<b>0,68</b>	<b>0,74</b>

Capacity Ø	mm	20	22	25	28	30	32	35
Belt width x thickness	mm	16x0,8	16x0,8	16x0,8	16x0,8	16x0,8	16x0,8	16x0,8
<b>3474V</b>	<b>Each</b>	<b>0,74</b>	<b>0,76</b>	<b>0,76</b>	<b>0,88</b>	<b>1,04</b>	<b>1,04</b>	<b>1,16</b>

Capacity Ø	mm	40	45	50	60
Belt width x thickness	mm	16x0,8	20x1	20x1	20x1
<b>3474V</b>	<b>Each</b>	<b>1,44</b>	<b>1,70</b>	<b>1,82</b>	<b>2,16</b>



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## TWO-WIRE SPRING CLAMPS

**3474VE**  
*new*



## Prod. SCU

Self-locking model with double blade of special steel, galvanized, recommended to tighten pipes with embossed spirals, very soft tubes, thin tubes, etc.

Capacity Ø	mm	6,6-7	7-7,5	7,3-7,8	7,8-8,3	8,3-8,8	8,8-9,3	9,3-9,8
Wire Ø	mm	1	1	1	1	1	1	1
<b>3474VE</b>	Each	<b>0,08</b>	<b>0,08</b>	<b>0,08</b>	<b>0,08</b>	<b>0,08</b>	<b>0,08</b>	<b>0,08</b>
Capacity Ø	mm	9,8-10,4	10,4-11	11-11,6	11,6-12,2	12,2-12,9	12,4-13,1	12,9-13,6
Wire Ø	mm	1,2	1,2	1,2	1,5	1,5	1,2	1,5
<b>3474VE</b>	Each	<b>0,10</b>	<b>0,10</b>	<b>0,10</b>	<b>0,12</b>	<b>0,12</b>	<b>0,12</b>	<b>0,12</b>
Capacity Ø	mm	13,3-14,1	13,6-14,4	14,4-15,1	14,8-15,9	15,1-15,9	15,5-16,3	15,9-16,8
Wire Ø	mm	1,5	1,5	1,8	1,6	1,8	1,8	1,8
<b>3474VE</b>	Each	<b>0,12</b>	<b>0,12</b>	<b>0,14</b>	<b>0,14</b>	<b>0,14</b>	<b>0,14</b>	<b>0,14</b>
Capacity Ø	mm	16,8-17,7	17,7-18,7	18,7-19,5	19,6-20,5	20,6-21,6	21,5-22,6	22-23,1
Wire Ø	mm	1,8	1,9	2	2	2	2,2	2,2
<b>3474VE</b>	Each	<b>0,16</b>	<b>0,16</b>	<b>0,18</b>	<b>0,18</b>	<b>0,20</b>	<b>0,22</b>	<b>0,22</b>
Capacity Ø	mm	22,4-23,6	23,5-24,7	24,5-25,8	25,1-26,4	25,6-26,9	26,7-28,1	27,9-29,4
Wire Ø	mm	2,2	2,2	2,5	2,5	2,5	2,5	2,5
<b>3474VE</b>	Each	<b>0,22</b>	<b>0,22</b>	<b>0,34</b>	<b>0,34</b>	<b>0,34</b>	<b>0,34</b>	<b>0,34</b>
Capacity Ø	mm	29,3-30,9	30,4-32	31,8-33,4	33,2-34,8	33,9-35,7	34,6-36,4	36,2-38
Wire Ø	mm	2,8	2,8	2,8	2,8	2,8	3	3
<b>3474VE</b>	Each	<b>0,42</b>	<b>0,42</b>	<b>0,42</b>	<b>0,42</b>	<b>0,56</b>	<b>0,58</b>	<b>0,58</b>
Capacity Ø	mm	37,7-39,7	38,5-40,5	39,4-41,4	40,7-42,3	41-43,2	42,8-45	44,6-46,8
Wire Ø	mm	3,2	3,2	3,2	3,2	3,2	3,2	3,2
<b>3474VE</b>	Each	<b>0,62</b>	<b>0,62</b>	<b>0,62</b>	<b>0,62</b>	<b>0,62</b>	<b>0,62</b>	<b>0,64</b>
Capacity Ø	mm	46,5-48,9	48,8-50,9	50,6-53,2	52,7-55,4	56-58,8	58,2-61	
Wire Ø	mm	3,2	3,5	3,5	3,5	3,5	3,5	
<b>3474VE</b>	Each	<b>0,86</b>	<b>0,86</b>	<b>0,86</b>	<b>0,86</b>	<b>1,04</b>	<b>1,10</b>	

For continuous and perfect clampings see pliers Art. 283 GL.

## CLICK HOSE CLAMPS

**3474VL**  
*new*



## Prod. SCU

Stainless steel 304 model, W4 endless belt, formed by a hook and a locking tooth that prevent the accidental release of the clamp. The ease and speed of installation make these clamps ideal for standard assemblies.

Width of clamps 6 mm from Art. 3474 VL 8.5-9.5 to 14-15.

Width of clamps 8 mm from Art. 3474 VL 14.5-15.5 to 24-25.5.

Capacity Ø	mm	8,5-9,5	9-10	9,5-11	10-11,5	10,5-11,5	11-12	11,5-12,5
Closed clamp Ø	mm	8	8,5	9	9,5	10	10,5	11
<b>3474VL</b>	Each	<b>0,42</b>	<b>0,42</b>	<b>0,42</b>	<b>0,42</b>	<b>0,42</b>	<b>0,42</b>	<b>0,42</b>
Capacity Ø	mm	12-13	12,5-13,5	13-14	13,5-14,5	14-15	14,5-15,5	15-16
Closed clamp Ø	mm	11,5	12	12,5	13	13,5	14	14,5
<b>3474VL</b>	Each	<b>0,42</b>	<b>0,42</b>	<b>0,42</b>	<b>0,42</b>	<b>0,42</b>	<b>0,42</b>	<b>0,42</b>
Capacity Ø	mm	15,5-16,5	16-17	16,5-17,5	17-18	17,5-18,5	18-19	18,5-19,5
Closed clamp Ø	mm	15	15,5	16	16,5	17	17,5	18
<b>3474VL</b>	Each	<b>0,42</b>	<b>0,42</b>	<b>0,42</b>	<b>0,42</b>	<b>0,42</b>	<b>0,42</b>	<b>0,52</b>
Capacity Ø	mm	19-20	19,5-21	20-21,5	20,5-22	21-22,5	21,5-23	22-23,5
Closed clamp Ø	mm	18,5	19	19,5	20	20,5	21	21,5
<b>3474VL</b>	Each	<b>0,52</b>	<b>0,52</b>	<b>0,52</b>	<b>0,52</b>	<b>0,52</b>	<b>0,52</b>	<b>0,52</b>
Capacity Ø	mm	22,5-24	23-24,5	23,5-25	24-25,5			
Closed clamp Ø	mm	22	22,5	23	23,5			
<b>3474VL</b>	Each	<b>0,52</b>	<b>0,52</b>	<b>0,52</b>	<b>0,52</b>			

For continuous and perfect clampings see pliers Art. 283 G.

## HOSE CLAMPS

**3474Z**



## Prod. SCU

Hose clips made from galvanised steel W1. Allows a strong, concentric clamping in a few seconds with simple pincers. It is the cheapest system for permanent clamping of small and medium sized pipes.

Capacity Ø	mm	5-7	7-9	9-11	10-12	11-13	13-15	14-17
Width x thickness	mm	6x0,6	6x0,8	6,5x0,8	6,5x0,9	6,5x0,9	7x1	7x1,2
Indivisible pck.		50	50	50	50	50	50	50
<b>3474Z</b>	Per pack	<b>12,70</b>	<b>14,00</b>	<b>14,70</b>	<b>15,50</b>	<b>16,30</b>	<b>16,40</b>	<b>16,80</b>
Capacity Ø	mm	15-18	17-20	18-21	20-23	22-25	23-27	25-28
Width x thickness	mm	7,5x1,2	7,5x1,2	8x1,2	8x1,3	8,5x1,4	8,5x1,4	9x1,4
Indivisible pck.		50	50	50	50	25	25	25
<b>3474Z</b>	Per pack	<b>16,90</b>	<b>18,80</b>	<b>25,10</b>	<b>22,60</b>	<b>13,70</b>	<b>15,40</b>	<b>17,10</b>
Capacity Ø	mm	28-31	31-34	34-37	37-40			
Width x thickness	mm	9x1,4	9,5x1,4	9,5x1,6	10x1,6			
Indivisible pck.		25	25	25	25			
<b>3474Z</b>	Per pack	<b>18,10</b>	<b>20,10</b>	<b>20,90</b>	<b>22,70</b>			

For continuous and perfect clamping see pliers Art. 285 GE - 285 GL.

**FITTING LINE**
**Orig. Ewo - Art. 397**

model with built-in filter for a circuit PRE-FILTERING on compressed air, gas, water, oil etc.  
 In brass and cast iron with double stainless steel filter for dirt particles greater than 0.2 mm. Screw cap to access the filter cleaning.  
 For pressures up to 10 bar (Atm).  
 Straight type with 2 internal threads.

Thread Ø		1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
<b>3475</b>	Each	6,26	9,08	10,50	18,10	27,40	41,40	49,30	82,30


**3475**


FILTRO

**Prod. SCU**

In pressed brass, nickel-plated.  
 For compressed air up to 10 bar (Atm).  
 Elbow with internal and external thread.

Thread Ø	inches	1/4	3/8	1/2
<b>3475A</b>	Each	1,86	3,10	4,54


**3475A**


Product description as Art. 3475A

Union T with 2 internal threads and 1 external thread.

Thread Ø	inches	1/4	3/8	1/2
<b>3475B</b>	Each	2,72	4,12	6,70


**3475B**


Product description as Art. 3475A

Cross with 4 internal threads.

Thread Ø	inches	1/4	3/8
<b>3475C</b>	Each	3,84	5,66


**3475C**


Product description as Art. 3475A

Nipples with external threading.

Thread Ø	inches	1/4x1/4	1/4x3/8	3/8x3/8	3/8x1/2	1/2x1/2
<b>3475E</b>	Each	0,72	1,10	1,14	1,86	2,26


**3475E**


Product description as Art. 3475A

Coupling with internal thread.

Thread Ø	inches	1/8-1/4	1/8-3/8	1/8-1/2	1/4-1/4	1/4-3/8	1/4-1/2	3/8-3/8
<b>3475F</b>	Each	0,86	1,42	2,30	0,86	1,26	2,28	1,18


**3475F**


Thread Ø	inches	3/8-1/2	1/2-1/2
<b>3475F</b>	Each	2,28	2,10

Product description as Art. 3475A

Reductor with external and internal thread.

Thread Ø	inches	1/4x1/4	1/4x3/8	3/8x3/8	3/8x1/2
<b>3475G</b>	Each	0,88	1,30	1,30	2,10


**3475G**


Product description as Art. 3475A

Threaded cap.

Thread Ø	inches	1/4	3/8	1/2
<b>3475H</b>	Each	0,60	0,92	1,54


**3475H**


**COMPRESSED AIR ACCESSORIES**
**3476A ewo**

**Orig. Ewo - Art. 113**

Brass bar stock execution. Robust and precise execution.

For compressed air up to 40 bar (Atm).

Hose connection with female thread, enbloc.

Size		1	2	3	4	5	6	7
GAS thread Ø	inches	1/8	1/8	1/4	1/4	1/4	3/8	3/8
Rubber holder Ø	mm	4	6	4	6	9	6	9
Overall length	mm	33	36	36	40	40	42	42
Hexagonal opening	mm	12	12	17	17	17	19	19
<b>3476A</b>	<b>Each</b>	<b>2,32</b>	<b>2,40</b>	<b>2,66</b>	<b>2,74</b>	<b>3,00</b>	<b>3,42</b>	<b>3,42</b>
Size		8	9	10	11	12	13	14
GAS thread Ø	inches	3/8	1/2	1/2	1/2	3/4	3/4	3/4
Rubber holder Ø	mm	13	6	9	13	9	13	19
Overall length	mm	47	42	42	47	47	52	58
Hexagonal opening	mm	19	24	24	24	32	32	32
<b>3476A</b>	<b>Each</b>	<b>3,42</b>	<b>3,94</b>	<b>3,94</b>	<b>3,94</b>	<b>5,66</b>	<b>5,66</b>	<b>5,66</b>
Size		15	16	17				
GAS thread Ø	inches	1	1	1				
Rubber holder Ø	mm	19	25	32				
Overall length	mm	60	66	70				
Hexagonal opening	mm	36	36	36				
<b>3476A</b>	<b>Each</b>	<b>12,20</b>	<b>12,40</b>	<b>19,50</b>				

**3476B ewo**


Product description as Art. 3476A

Hose connection with male thread, enbloc.

Size		1	2	3	4	5	6	7
GAS thread Ø	inches	1/8	1/8	1/4	1/4	1/4	3/8	3/8
Rubber holder Ø	mm	4	6	4	6	9	6	9
Overall length	mm	34	37	36	40	40	43	43
Hexagonal opening	mm	14	14	17	17	17	17	17
<b>3476B</b>	<b>Each</b>	<b>2,48</b>	<b>2,48</b>	<b>2,66</b>	<b>2,66</b>	<b>2,66</b>	<b>2,66</b>	<b>2,66</b>
Size		8	9	10	11	12	13	14
GAS thread Ø	inches	3/8	1/2	1/2	1/2	3/4	3/4	3/4
Rubber holder Ø	mm	13	6	9	13	9	13	19
Overall length	mm	48	44	44	49	49	54	58
Hexagonal opening	mm	19	24	24	24	32	32	32
<b>3476B</b>	<b>Each</b>	<b>3,34</b>	<b>4,36</b>	<b>4,36</b>	<b>4,80</b>	<b>7,36</b>	<b>7,36</b>	<b>7,36</b>
Size		15	16	17				
GAS thread Ø	inches	1	1	1				
Rubber holder Ø	mm	19	25	32				
Overall length	mm	60	66	70				
Hexagonal opening	mm	36	36	36				
<b>3476B</b>	<b>Each</b>	<b>9,42</b>	<b>11,10</b>	<b>18,70</b>				

**3476E ewo**


Brass bar stock execution. Robust and precise execution.

Double hose connector according to EN ISO 560 (DIN 8542) standards.

Size		1	2	3	4
Rubber holder Ø	mm/mm	6/6	6/9	9/9	13/13
Overall length	mm	70	70	70	70
Max Ø	mm	9	12	12	16
<b>3476E</b>	<b>Each</b>	<b>2,48</b>	<b>3,86</b>	<b>3,86</b>	<b>4,28</b>

**3477E SCU**

**Prod. SCU**

Nickel-plated brass finish.

For compressed air up to 10 bar (Atm).

Bayonet connection. Male thread.

Thread Ø		1/4	3/8
<b>3477E</b>	<b>Each</b>	<b>0,84</b>	<b>1,10</b>

**3477L SCU**


Product description as Art. 3477E

Bayonet connection. Female thread.

Thread Ø		1/4	3/8
<b>3477L</b>	<b>Each</b>	<b>0,84</b>	<b>1,10</b>

**3477P SCU**


Product description as Art. 3477E

Bayonet connection. Hose connector.

For pipes Ø		6	8	10
<b>3477P</b>	<b>Each</b>	<b>0,70</b>	<b>0,72</b>	<b>0,74</b>

Product description as Art. 3477E

Bayonet joint. Pipe holder in rubber and polyurethane.

For pipes Ø	mm	<b>6x14</b>	<b>8x17</b>
<b>3478A</b>	Each	<b>1,78</b>	<b>1,88</b>



**3478A**

Product description as Art. 3477E

Hose connector. Pipe holder in rubber and polyurethane

Size		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Thread Ø	inches	1/4	1/4	3/8	3/8
For pipes Ø	mm	6x14	8x17	6x14	8x17
<b>3478B</b>	Each	<b>1,88</b>	<b>2,06</b>	<b>2,46</b>	<b>2,52</b>



**3478B**

Product description as Art. 3477E

Hose connector. Pipe holder in rubber and polyurethane.

Size		<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
Thread Ø	inches	1/4	1/4	3/8	3/8
For pipes Ø	mm	6x14	8x17	6x14	8x17
<b>3478C</b>	Each	<b>1,88</b>	<b>2,06</b>	<b>2,46</b>	<b>2,52</b>



**3478C**

Product description as Art. 3477E

Bayonet joint for connections Art. 3478 A - With external thread.

Thread Ø	inches	<b>1/4</b>	<b>3/8</b>
<b>3478D</b>	Each	<b>1,12</b>	<b>1,54</b>



**3478D**

Product description as Art. 3477E

Bayonet joint for connections Art. 3478 A - With internal thread.

Thread Ø	inches	<b>1/4</b>	<b>3/8</b>
<b>3478E</b>	Each	<b>1,34</b>	<b>1,66</b>



**3478E**

Product description as Art. 3477E

Quick tap coupling. Bayonet connection.

To be used with Art. 3478 A- I-L-M-N-P-R-S-T-V-Z.

<b>3478EA</b>	Each	<b>1,38</b>
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**3478EA**

Product description as Art. 3477E

Coupling for quick cocks - Pipe holder in rubber and polyurethane. Can be used with Art. 3478 I-L-M-N-P-R-S-T-V-Z.

For pipes Ø	mm	<b>6x14</b>	<b>8x17</b>
<b>3478F</b>	Each	<b>1,78</b>	<b>1,90</b>



**3478F**

Product description as Art. 3477E

Coupling for quick cocks - With external thread. Can be used with Art. 3478 I-L-M-N-P-R-S-T-V-Z.

Thread Ø	inches	<b>1/4</b>	<b>3/8</b>	<b>1/2</b>
<b>3478G</b>	Each	<b>0,88</b>	<b>1,10</b>	<b>1,86</b>



**3478G**

Product description as Art. 3477E

Quick tap coupling - With internal thread.

To be used with Art. 3478 I-L-M-N-P-R-S-T-V-Z.

Thread Ø	inches	<b>1/4</b>	<b>3/8</b>	<b>1/2</b>
<b>3478GA</b>	Each	<b>0,98</b>	<b>1,30</b>	<b>1,98</b>



**3478GA**
**10**

Product description as Art. 3477E

Quick coupling + bayonet joint. Can be used with Art. 3478 D-E and I-L-M-N-P-R-S-T-V-Z.

<b>3478H</b>	Each	<b>1,14</b>
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**3478H**

Product description as Art. 3477E

Quick tap coupling. With male hose connector for pipes.

To be used with Art. 3478 I-L-M-N-P-R-S-T-V-Z.

For pipes Ø	mm	<b>6</b>	<b>8</b>	<b>10</b>
<b>3478HA</b>	Each	<b>1,02</b>	<b>1,02</b>	<b>1,02</b>



**3478HA**

Product description as Art. 3477E

Quick tap for couplings Art. 3478 EA- F-G-GA-H-HA - Pipe holder in rubber and polyurethane.

For pipes Ø	mm	<b>6x14</b>	<b>8x17</b>
<b>3478I</b>	Each	<b>6,08</b>	<b>6,28</b>



**3478I**



Product description as Art. 3477E  
Quick tap for couplings Art. 3478 F-G-H - With external thread.

Thread Ø	inches	1/4	3/8	1/2
<b>3478L</b>	Each	4,36	4,36	5,34



Product description as Art. 3477E  
Quick tap for couplings Art. 3478 EA-F-G-GA-H-HA. With internal thread.

Thread Ø	inches	1/4	3/8	1/2
<b>3478M</b>	Each	4,54	4,54	6,32



Product description as Art. 3477E  
Quick tap for coupling Art. 3478 EA-F-G-GA-H. With coil for elastic pipes.

For pipes Ø	mm	6x8	8x10
<b>3478N</b>	Each	5,58	5,74

For elastic pipes (RISLAN) see Art. 1733 and 1733 1.



Product description as Art. 3477E  
Quick tap for couplings Art. 3478 EA-F-G-GA-H-HA. With male connection for hose.

For pipes Ø	mm	6	8	10
<b>3478P</b>	Each	4,50	4,50	4,68



Product description as Art. 3477E  
Rapid tap with air vent safety system, for coupling Art. 3478 EA-F-G-GA-H-HA. With rubber and polyurethane hose connector.

For pipes Ø	mm	6x14	8x17
<b>3478R</b>	Each	19,80	20,10



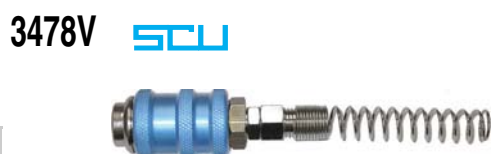
Product description as Art. 3477E  
Rapid tap with air vent safety system, for coupling Art. 3478 EA-F-G-GA-H-HA. With external thread.

Thread Ø	inches	1/4	3/8	1/2
<b>3478S</b>	Each	18,80	19,30	19,90



Product description as Art. 3477E  
Rapid tap with air vent safety system, for coupling Art. 3478 EA-F-G-GA-H-HA. With internal thread.

Thread Ø	inches	1/4	3/8	1/2
<b>3478T</b>	Each	18,10	19,30	20,10



Product description as Art. 3477E  
Rapid tap with air vent safety system, for coupling Art. 3478 EA-F-G-GA-H-HA. With coil for elastic pipes.

For pipes Ø	mm	6x8	8x10
<b>3478V</b>	Each	19,70	19,80

For elastic pipes (RISLAN) see Art. 1733 and 1733 1.



Product description as Art. 3477E  
Rapid tap with air vent safety system, for coupling Art. 3478 EA-F-G-GA-H-HA. With male hose connection for pipes.

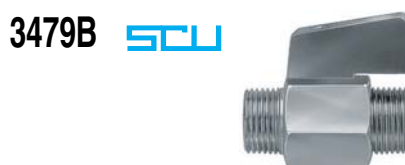
For pipes Ø	mm	6	8	10
<b>3478Z</b>	Each	18,90	18,90	18,90

## VALVES



**Prod. SCU**  
Ball type, in pressed brass, nickel-plated.  
For compressed air up to 10 bar (Atm).  
With internal thread on 2 sides.

Drive	inches	1/4x1/4	3/8x3/8	1/2x1/2
<b>3479A</b>	Each	6,12	6,28	7,16



Product description as Art. 3479A  
With external thread on 2 sides.

Drive	inches	1/4x1/4	3/8x3/8	1/2x1/2
<b>3479B</b>	Each	7,96	8,08	9,28



Product description as Art. 3479A  
With external and internal thread.

Drive	inches	1/4x1/4	3/8x3/8	1/2x1/2
<b>3479E</b>	Each	6,12	6,12	7,16



**3479E**
**QUICK COUPLING AUTOMATIC VALVE CLOSING**

**Orig. Ewo - Art. 308**

For air at 1-15 bar (Atm).  
In bar brass. Sturdy and precise finish. The tap is automatically closed when the coupling is removed.

quick cocks for couplings with external thread.

Thread Ø	inches	1/4	3/8	1/2
<b>3480GA</b>	Each	6,68	6,68	6,68


**3480GA**


Product description as Art. 3480GA

Quick cocks for couplings with internal thread.

Thread Ø	inches	1/4	3/8	1/2
<b>3480GB</b>	Each	6,68	6,68	6,68


**3480GB**


Product description as Art. 3480GA

Quick cocks for couplings with hose connector.

Rubber holder Ø	mm	6	9	13
<b>3480GC</b>	Each	8,04	8,04	9,34


**3480GC**


Product description as Art. 3480GA

Couplings for quick cocks.

Rubber holder Ø	mm	6	9	13
<b>3480GD</b>	Each	1,28	1,28	1,88


**3480GD**


Product description as Art. 3480GA

Couplings for quick cocks Ø 9mm with external thread.

Thread Ø	inches	1/4	3/8	1/2
<b>3480GE</b>	Each	1,64	1,88	3,68


**3480GE**


Product description as Art. 3480GA

Couplings for quick cocks Ø 9mm with internal thread.

Thread Ø	inches	1/4	3/8	1/2
<b>3480GF</b>	Each	1,64	1,88	3,68


**3480GF**


Product description as Art. 3480GA

Couplings with screw for clamping synthetic tubes.

For pipes Ø	mm	6x4	8x6	10x8
<b>3480GH</b>	Each	5,32	5,32	5,32


**3480GH**


**Orig. Ewo - Art. 128**

Product description as Art. 3480GA

Branches with quick cocks, 2 ways, with internal thread 3/8.

<b>3480GL</b>	Each	22,10
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**3480GL**


Product description as Art. 3480GA

Branches with quick cocks, 3 ways, with internal thread 3/8.

<b>3480GM</b>	Each	32,60
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**3480GM**


**QUICK COUPLING AUTOMATIC VALVE CLOSING WITH SAFETY SYSTEM**
**3480GP****ewo****Orig. Ewo - Art. 455**

For air at 1-15 bar (Atm).

In heavy brass, nickel-plated. Sturdy and precise finish. Equipped with release ring with double subsequent action system: first the air tube is emptied and then released. The valve is automatically closed when the coupling is removed.

Quick cocks with external thread, for couplings.

Thread Ø	inches	1/4	3/8	1/2
<b>3480GP</b>	<b>Each</b>	<b>38,00</b>	<b>38,00</b>	<b>38,00</b>

**3480GR****ewo**

Product description as Art. 3480GP

Quick cocks with internal thread, for couplings.

Thread Ø	inches	1/4	3/8	1/2
<b>3480GR</b>	<b>Each</b>	<b>38,00</b>	<b>38,00</b>	<b>38,00</b>

**3480GS****ewo**

Product description as Art. 3480GP

Quick cocks with hose connection, for couplings.

Rubber holder Ø	mm	6	9	13
<b>3480GS</b>	<b>Each</b>	<b>38,00</b>	<b>38,00</b>	<b>38,00</b>

**3480GT****ewo****Orig. Ewo - Art. 308**

Product description as Art. 3480GP

Couplings for quick cocks.

Rubber holder Ø	mm	6	9	13
<b>3480GT</b>	<b>Each</b>	<b>3,00</b>	<b>3,26</b>	<b>5,14</b>

**3480GV****ewo**

Product description as Art. 3480GP

Couplings for quick cocks Ø 9mm with external thread.

Thread Ø	inches	1/4	3/8	1/2
<b>3480GV</b>	<b>Each</b>	<b>3,18</b>	<b>3,78</b>	<b>5,14</b>

**3480GZ****ewo**

Product description as Art. 3480GP

Couplings for quick cocks Ø 9mm with internal thread.

Thread Ø	inches	1/4	3/8	1/2
<b>3480GZ</b>	<b>Each</b>	<b>3,18</b>	<b>3,78</b>	<b>5,14</b>

**3485GA****ewo****Orig. Ewo - Art. 411**

Air-model bar (Atm) 1-12 according to ISO 4414.

Aluminium body with hardened steel internal parts, brass mount, springs and balls made from stainless steel, NBR. Robust and precise execution. Equipped with dual-release button: pressing the action once it gets air flushing, with a second pressure gets uncoupling of the graft. Removing the connector, the valve closes automatically.

Quick cocks with external thread, for couplings.

Thread Ø	inches	1/4	3/8	1/2
<b>3485GA</b>	<b>Each</b>	<b>31,70</b>	<b>31,70</b>	<b>33,40</b>

**3485GB****ewo**

Product description as Art. 3485GA

Quick cocks with internal thread, for couplings.

Thread Ø	inches	1/4	3/8	1/2
<b>3485GB</b>	<b>Each</b>	<b>31,70</b>	<b>31,70</b>	<b>33,40</b>

**3485GC****ewo**

Product description as Art. 3485GA

Quick cocks with hose connection, for couplings.

Rubber holder Ø	mm	6	8	9	10	13
<b>3485GC</b>	<b>Each</b>	<b>31,70</b>	<b>31,70</b>	<b>31,70</b>	<b>33,40</b>	<b>33,40</b>

Snap-on taps Art. 3485 GA/B/C can also be used  
with connectors Art. 3480 GD/E/F/H and 3480 GT/V/Z.

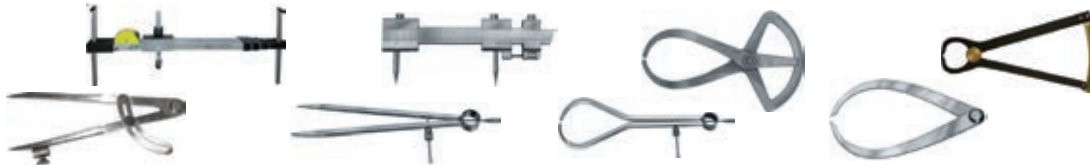
**All items are in sequence. It's very easy to find them!**

Batteries  
Rechargeable batteries  
Battery chargers  
Magnifying lenses  
Binocular visors



From **3600A**  
To **3695B**

Dividers



From **3699**  
To **3742G**

Measure and control tools  
Calipers - Micrometers  
Screw pitch gauges  
Feeler gauges - Goniometers  
Tapes, rulers, measuring tapes, meters  
Squares - Surface gauges - Hand scribes  
Precision V blocks - Surface plates



From **3743G**  
To **4345GB**

Plug and ring gauges  
Addition timers



From **4350GA**  
To **4390G**

Dial indicators and supports  
Dial bore gauges  
Dial caliper gauges



From **4400G**  
To **4424T**

Work counters  
Revolution counters  
Stroke counters  
Meter counters  
Impulse counters



From **4425G**  
To **4460GB**

Stroboscopes  
Working lamps  
Headlamps  
Cable drums  
sockets, plugs and electrical panels  
Detectors



From **4461**  
To **4475GP**

Electric and air engraves  
Pastels  
Markers



From **4475GS**  
To **4476 35**

Thermometers - Hygrometers  
Multimeters - Light meters  
Hardness testers  
Battery chargers  
Tension tester  
Electronic car testers



From **4476AB**  
To **4482GT**

Balances  
Dynamometers  
Anchorage systems  
Tie rads



From **4483A**  
To **4490FB**



## ALKALINE BATTERIES

**3600A SCU****Prod. SCU**

Micro button cell battery LR44, for digital instruments, pocket lux torches, remote controls, etc.  
In blister single packing unit.

Voltage	Volt	1,5
Ø	mm	11,5
Height	mm	5,1
<b>3600A</b>	<b>Each</b>	<b>1,46</b>

**3600B SCU**

Micro-stiilo LRV08, for remote controls, etc.  
In blister single packing unit.

Voltage	Volt	12
Ø	mm	10
Height	mm	28
<b>3600B</b>	<b>Each</b>	<b>1,96</b>

**3600C SCU**

Micro LR03 (AAA), universal model.

Blister packing unit: 4 pcs. not sold separately.

Voltage	Volt	1,5
Ø	mm	10,5
Height	mm	44,5
<b>3600C</b>	<b>Per pack</b>	<b>3,04</b>

**3600E SCU**

Mignon LR6 (AA), universal model.

Blister packing unit: 4 pcs. not sold separately.

Voltage	Volt	1,5
Ø	mm	14,5
Height	mm	50,5
<b>3600E</b>	<b>Per pack</b>	<b>2,74</b>

**3600F SCU**

Baby LR14 (C), universal model.

Blister packing unit: 2 pcs. not sold separately.

Voltage	Volt	1,5
Ø	mm	25,7
Height	mm	50
<b>3600F</b>	<b>Per pack</b>	<b>3,26</b>

**3600L SCU**

Mono LR20 (D), universal model.

Blister packing unit: 2 pcs. not sold separately.

Voltage	Volt	1,5
Ø	mm	33,6
Height	mm	61,5
<b>3600L</b>	<b>Per pack</b>	<b>4,98</b>

**3600M SCU**

Rectangular type, transistor 6LR61 for remote controls, universal model.

In blister single packing unit.

Voltage	Volt	9
<b>3600M</b>	<b>Each</b>	<b>3,44</b>

NB: From Art. 3600A to Art. 3600M, the manufacturer reserves the right to change the image and packaging of the product.

**LITHIUM BATTERIES**
**Prod. SCU**

Button cell battery CR2016 for digital instruments, remote controls, etc.

Blister packing unit: 2 pcs. not sold separately.

Voltage	Volt	3
Ø	mm	20
Height	mm	1,6

<b>3600R</b>	<b>Per pack</b>	<b>3,88</b>
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**3600R**

Button cell battery CR2032 for digital instruments, remote control, etc.

Blister packing unit: 2 pcs. not sold separately.

Voltage	Volt	3
Ø	mm	20
Height	mm	3,2

<b>3600T</b>	<b>Per pack</b>	<b>3,88</b>
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**3600T**

NB: From Art. 3600R to Art. 3600T, the manufacturer reserves the right to change the image and packaging of the product.

**RECHARGEABLE BATTERIES AND CHARGERS**
**Prod. SCU**

Rechargeable P6I AA NiMH/NiCd batteries, capacity up to 1900 mAh, for universal use.

Blister packing unit: 2 pcs. not sold separately.

Voltage	Volt	1,2
Ø	mm	14,5
Height	mm	50,5

<b>3602</b>	<b>Per pack</b>	<b>13,60</b>
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**3602**

Rechargeable P03I AAA NiMH/NiCd batteries, capacity up to 750 mAh, for universal use.

Blister packing unit: 4 pcs. not sold separately.

Voltage	Volt	1,2
Ø	mm	10,5
Height	mm	44,5

<b>3603</b>	<b>Per pack</b>	<b>26,10</b>
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**3603**

Battery charger 100-240 V for rechargeable AA up to 1900 mAh and AAA up to 750 mAh.

Suitable for charging batteries Art. 3602 and Art. 3603. Overload system protection and temperature control.

<b>3604</b>	<b>Each</b>	<b>55,10</b>
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**3604**

NB: From Art. 3602 to Art. 3604, the manufacturer reserves the right to change the image and packaging of the product.

**POCKET MAGNIFIERS**
**Prod. SCU**

In optical glass, square frame in transparent plastic.

Comes with a protective synthetic frame.

Lens Ø	mm	45
Magnifications		4x

<b>3665</b>	<b>Each</b>	<b>18,10</b>
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**3665**

In optical glass, square frame in ABS.

Comes with a protective synthetic frame.

Lens Ø	mm	60
Magnifications		2½x

<b>3665A</b>	<b>Each</b>	<b>21,40</b>
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**3665A**

**3665P** SCU

In optical glass, housing frame in sturdy synthetic material (ABS). With one lens.

Lens Ø	mm	11	17
Magnifications		12x	8x
<b>3665P</b>	Each	14,60	14,60

**3665T** new MIB GERMANY**Orig. MIB - Art. 01005092**

In optical crystal, frame and grip metal housing. Ø 21 mm lens, 10x magnification.

<b>3665T</b>	Each	7,18
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**3666** SCU**Prod. SCU**

In optical crystal, with grip metal housing.

Size		19	20
Lens Ø approx	mm	22	16
Magnifications		10x	20x
<b>3666</b>	Each	44,70	48,70

**HAND-HELD MAGNIFIERS****3667** SCU**Prod. SCU**

Hand-use type with round lens. Sturdy synthetic frame.

Lens Ø	mm	45
Magnifications		3x
<b>3667</b>	Each	18,90

**3667G** SCU

Hand-use type with round lens. Sturdy synthetic transparent frame.

Lens Ø	mm	60
Magnifications		3x
<b>3667G</b>	Each	16,60

**3668** new MIB GERMANY**Orig. MIB**

Type for use by hand with round lens. Metal frame.

Lens Ø	mm	60	75	100
Magnifications		5x	3x	2x
Supplier code		01005089	01005090	01005091
<b>3668</b>	Each	5,02	6,46	8,62

**3670** SCU**Prod. SCU**

Hand-use type with round lens in optical glass. Stainless steel frame.

Lens Ø	mm	50	60	80	100
Magnifications		3 1/2x	3x	2 1/2x	2 1/4x
<b>3670</b>	Each	39,40	42,80	49,70	63,40

**3673** SCU

Hand-use type with 2 aplanatic lenses, in white optical glass. Stainless steel frame. Clear and neat lens.

Lens Ø	mm	60	80
Magnifications		4x	3x
<b>3673</b>	Each	61,70	80,50

**3674** SCU

Hand-use type with rectangular lens, in white optical glass. Stainless steel frame. Clear and neat lens.

Lenses dimensions	mm	65x30	80x40
Magnifications		3 1/2x	2 1/2x
<b>3674</b>	Each	59,90	66,80

**ILLUMINATED MAGNIFIERS FOR TECHNICAL PURPOSES****3677B** new MIB GERMANY**Orig. MIB - Art. 01005087**

Suitable for technical, mechanical, photographic uses and for teaching, etc. Made of sturdy unbreakable plastic. Interior light with 6 long life LEDs with high brightness. Operation with 2 AAA alkaline batteries (see Art. 3600 C), not supplied. Optical white lens.

<b>3677B</b>	Each	18,70
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**Orig. MIB - Art. 01005086**

Indicated for technical, mechanical, photographic and educational purposes. In sturdy, unbreakable plastic. Internal illumination with 2 alkaline batteries LR 14 (see Art. 3600 F), not included. Aplanatic lens.

Magnification 5x, Ø lens 50mm

**3677G** Each **21,60**



**3677G**

**Orig. MIB - Art. 01005085**

Product description as Art. 3677G

Magnification 10x, Ø lens 35mm

**3677GA** Each **21,60**



**3677GA**

**THREAD COUNTERS**

**Prod. SCU**

In plastic material.  
Clear and neat lens.

With fenster mm 20x20

Magnifications 8x

**3679P** Each **3,94**

**SCU**



**3679P**

In metal. Clear and neat lens.

With window mm **10x10** **15x15** **20x20** **30x30**

Magnifications 12x 10x 6x 5x

**3680** Each **13,10** **14,80** **17,50** **24,30**

**SCU**



**3680**

**HAND-HELD MAGNIFIERS**

**Prod. SCU**

Focus magnifier in unbreakable plastic. Ø lens mm 22

Focal distances inches **1** **2** **3**

Magnifications 8x 6x 4x

**3681** Each **19,70** **18,10** **16,30**

**SCU**



**3681**

With post, in unbreakable plastic.

Transparent base for a perfect lighting.

Lens Ø mm **27** **56**

Magnifications 10x 4x

Body Ø mm 45 70

Body height mm 49 60

**3681E** Each **18,80** **26,70**

**SCU**



**3681E**

With post, in unbreakable plastic.

Transparent base for a perfect lighting.

Graduated aplanatic lens 0 to 15mm. Increments 1/10mm.

Lens Ø mm 27

Magnifications 10x

Body Ø mm 45

Body height mm 49

**3681L** Each **24,60**

**SCU**



**3681L**

Self-illuminating lenses for stamp-collectors. Ring black frame Ø 45mm.

Magnification 6x.

**3683** Each **51,40**

**SCU**



**3683**

For tweezers with magnifying lens see. Art. 165.

**MICRO-MAGNIFIERS**

**Prod. SCU**

Pen type with achromatic lens.

Metal body, precise apparatus with adjusting ring for magnification range: 40-50-60x.

For any kind of technical check or measurement.

Comes with pouch.

**3683G** Each **91,80**

**SCU**



**3683G**

**HAND-HELD MAGNIFIERS**
**3683M SCU**

**Prod. SCU**

Set of No.3 binocular lenses, magnifications 2x / 2.5x / 3x, corresponding to working distances 250 / 180 / 125mm.

To be mounted on your own glasses on the dedicated supplied support.  
Plastic coated, with integrated prism for optical convergence optimization.  
In package.

**3683M Each 119,00**

Product running out of stock.

**MAGNIFIERS GOGGLES**
**3683R SCU**

**Prod. SCU**

Twin rectangular lenses, magnification 2x and 3x and additional single round lens, magnification 4x and 5x, tilting.

Adjustable band, velcro fastener.

Body in plastic material with No.2 side lamps for optimal lighting. Operated by No.4 AAA alkaline batteries (Art. 3600 C), not included. It can be used without removing one's own glasses.

**3683R Each 43,70**
**3684 SCU**


Apt for precision works.

Rectangular lenses. Adjustable head-band. Adjustable focal distance for a more relaxing vision. Lenses can be tilted when not used. Interchangeable lenses.

Users can use this magnifier while wearing their own glasses. Magnification 3x.

**3684 Each 160,00**
**STAND MAGNIFIER WITH FLEXIBLE GOOSENECK**
**3688 SCU**

**Prod. SCU**

Stand-type with base.

Stainless steel frame with round, white glass lens.

Lens Ø 100mm. Magnification 2.25x. Gooseneck total length: 250mm.

**3688 Each 180,00**
**3689 SCU**


Stand-type with clamp fastening.

Stainless steel frame with round, white glass lens.

Lens Ø 100mm. Magnification 2.25x. Gooseneck total length: 250mm.

**3689 Each 151,00**
**3690 SCU**


Stand-type with base.

Stainless steel frame with rectangular lens 75x150mm.

Magnification 2x, with big field of view. Gooseneck total length: 250mm.

**3690 Each 283,00**
**3691 SCU**


Stand-type with clamp fastening.

Stainless steel frame with rectangular lens 75x150mm.

Magnification 2x, with big field of view. Gooseneck total length: 250mm.

**3691 Each 226,00**

Product running out of stock.



**ILLUMINATED STAND MAGNIFIERS WITH PANTOGRAPH ARM**

**Prod. SCU**

Quick start, cold light.  
 With clamp fastening. With circular fluorescent tube of W 22.  
 Metal frame with pantograph arms and spring balanced joints.  
 Pantograph arms: 100cm. Connection to power supply 230 V.  
 Optical glass lens with magnification 0,75x (3 dioptries).  
 Lens diameter: 120mm.

**3694A** Each **337,00**



CE

Quick start, cold light.  
 With round, cast iron base. With circular fluorescent tube of W 22. Metal frame with pantograph arms and spring balanced joints.  
 Pantograph arms: 100cm. Connection to power supply 230 V.  
 Optical glass lens with magnification 0,75x (3 dioptries).  
 Lens diameter: 120mm.

**3694B** Each **445,00**



CE

Quick start, cold light.  
 With clamp fastening. With circular fluorescent tube of W 22. Metal frame with pantograph arms and joints balanced by mechanic clutch for maximum stability. Pantograph arms: 90cm.  
 Connection to power supply 230 V.  
 Optical glass lens with magnification 0,75x (3 dioptries).  
 Lens diameter: 120mm. Wire cable completely inside.

**3694E** Each **406,00**



CE

**Orig. MIB - Art. 01005096**

Light with 60 LEDs. With a rectangular base 31x21 cm. Metal frame with pantograph arm and friction joint. Not suitable to light reflective or irregular surfaces.  
 Arm length 60 cm. Connection to mains 100-240 V.  
 Optical crystal lens with zoom 2.25x (5 dioptries).  
 Lens diameter 120 mm.

**3695A** Each **165,00**



CE

**Orig. MIB - Art. 01005095**

Light with 60 LEDs. With clamp connection. Metal frame with pantograph arm and friction joint. Not suitable to light reflective or irregular surfaces.  
 Arm length 80 cm. Connection to mains 100-240 V.  
 Optical crystal lens with zoom 2.25x (5 dioptries).  
 Lens diameter 120 mm.

**3695B** Each **130,00**



CE

**11**

**METRIC CALIPERS**

**Prod. SCU**

In duraluminium, sturdy, light, extensible. Direct reading of the measured value on millimeter rod and through dedicated window. The three adjustable tips allow to check squarings, pitches, shaped part crowning, etc. Indicated for: automotive and in particular workshops, body works, etc.  
 Maximum length 3m, Minimum length 0,90m

**3699** Each **572,00**

Product running out of stock.



**3699**

**DIVIDERS**

3700G


**Prod. SCU**

In forged steel. Double hinge. Hardened tips. Polished finish.

Overall length	mm	150	200	250	300	400	500
3700G	Each	7,66	9,64	14,80	17,50	34,40	49,20

3702G




In forged steel. Type with guide. Double hinge. Hardened tips. Polished finish.

Overall length	mm	150	200	250	300	400	500
3702G	Each	10,30	14,20	17,70	21,50	42,30	50,70

3705G


**Orig. MIB**

In forged steel. Pencil leads DIN model 6484, with guides. Double hinge. Hardened tips. Polished finish.

Overall length	mm	150	200	300	500
Supplier code		040480	040480	040480	040480
		20	21	23	24
3705G	Each	15,80	19,10	31,60	78,90

3720G


**Prod. SCU**

Spring-type, reinforced. In steel. Square rods. Through screw for rapid opening/closing. Polished finish. Hardened tips.

Overall length	mm	100	125	150	200	250	300
3720G	Each	7,18	7,18	8,66	9,72	11,50	13,80

**INSIDE DIVIDERS**

3721G


**Prod. SCU**

Spring-type, reinforced. In steel. Square rods. Through screw for rapid opening/closing. Polished finish. Hardened tips.

Overall length	mm	125	150	200	250	300
3721G	Each	7,90	8,66	10,30	11,90	14,10

**OUTSIDE DIVIDERS**

3723G


**Prod. SCU**

Product description as Art. 3721G

Overall length	mm	100	150	200	250
3723G	Each	7,90	8,66	10,30	11,90

**DIVIDERS**

3725G


**Prod. SCU**

Reinforced hardened tips model. Spring-type, reinforced. In steel. Square rods. Through screw for rapid opening/closing. Polished finish. Hardened tips.

Overall length	mm	100	125	150	200	250	300
3725G	Each	8,68	8,68	8,66	10,40	12,20	14,10

Spare steel tips (for any length) for Art. 3725 G.

O3725G	Each	0,52
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Spare tips in HARD METAL (for any length) for Art. 3725 G.

O3725GA	Each	5,40
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**INSIDE DIVIDERS**

3726G


**Prod. SCU**

Flat execution. In steel. Polished finish.

Overall length	mm	150	200	250	300	400	500
3726G	Each	6,86	9,42	12,40	14,40	23,40	27,60

**OUTSIDE DIVIDERS**

**Prod. SCU**

Product description as Art. 3726G

Overall length	mm	150	200	250	300	400	500
<b>3727G</b>	Each	6,86	9,42	12,40	14,40	23,40	27,60

**SCU**

**3727G**



**INSIDE-OUTSIDE DIVIDERS**

**Orig. MIB**

Product description as Art. 3726G

Overall length	mm	150	200	250	300
Supplier code		04051030	04051032	04051033	04051034
<b>3728G</b>	Each	20,10	23,10	26,60	33,10

**MIB**  
MESSZUGE  
GERMANY

**3728G**



**SCRIBING COMPASSES**

**Prod. SCU**

Micrometer screw. Vernier scale 1/20. In special steel, hardened steel tips.

Useful opening	mm	300	500	1000	1500	2000
<b>3733</b>	Each	117,00	165,00	244,00	287,00	452,00

300MM size is not supplied with micrometer screw.

Spare tips in hard metal for 3733 mm 300-500.

<b>O3733</b>	Per pair	31,60
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Spare tips in hardened steel for Art. 3733 mm 500 - 1000 - 1500 - 2000.

<b>O3733A</b>	Per pair	39,50
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**SCU**

**INOX**

**3733**



**1/20**

**PRECISION SPRING COMPASSES OF STEEL WITH BRASS SCALE**

**Prod. SCU**

Combination model for outside and inside measurements. In special steel. Graduation in mm.

Max opening	mm	120	160	200
Overall length	mm	190	250	310
<b>3741G</b>	Each	208,00	255,00	303,00

**SCU**

**3741G**



Return spring. Steel body. Brass scale. Graduation: 1/10 mm.

Max opening	mm	10	15	20
<b>3742G</b>	Each	15,30	16,90	18,20

**SCU**

**3742G**



**1/10**

**DIGITAL SLIDING CALIPER GAUGES**

**Prod. digiMax - Swiss made - Art. 2001**

Precision digital calipers. For inside, outside and depth measurements. Technical-professional fields of application. In super-polyamid with 60% glass fiber reinforcement.

Measuring range 150mm/6in (accuracy ±0.1 mm).

Direct reading on display 0.1 (1/10) mm and 0.001 (1/1000) inch.

Zero setting button for relative and incremental measurements.

Inch/metric toggle switch conversion. On/off switch. Depth rod.

Environmental-friendly, long life battery. Light and handy construction, unbreakable, antiacid, antireflection glass, large digits for easy readout. High quality and cost effective instrument.

In practical case.

<b>3743G</b>	Each	119,00
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**digiMax**

**3743G**



**1/10mm 1/1000"**

**DIALMAX SLIDING CALIPER GAUGES**
**3744G** 


1/10

**Prod. dialMax - Swiss made - Art. 2921**

Precision dial calipers. For inside, outside and depth measurements. Technical-professional fields of applications. In super-polyamid with 60% glass fiber reinforcement.

Measuring range: 150mm. One complete dial revolution corresponds to 10 mm, in 1/10 mm increments, precision according to DIN 862. Light and handy construction. Unbreakable, antiacid. Provided with zero setting, antireflection glass, scratch-resistant. Patented knurled wheel and cursor guide.

Supplied in handy case.

<b>3744G</b>	Each	<b>39,80</b>
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**CALIMAX SLIDING CALIPER GAUGES**
**3745GE** 


1/10

**Prod. caliMax - Swiss made - Art. 2901**

Precision caliper with vernier scale. For inside, outside and depth measurements. Technical-didactic field of application. In super-polyamid with 60% glass fiber reinforcement. Measuring range: 150mm. Vernier scale 1/10 mm. Precision according to DIN 862. Reading without parallax errors. Light and handy construction. Unbreakable, antiacid, fluorescent vernier scale.

Double reading caliper 0.1mm and 1/64inch. Supplied in handy case.

<b>3745GE</b>	Each	<b>28,90</b>
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**3745GF** 


1/10

**Prod. caliMax - Swiss made - Art. 2902**

Product description as Art. 3745GE

Single reading caliper 0.1mm. Supplied in handy case.

<b>3745GF</b>	Each	<b>28,90</b>
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**SMALL POCKET VERNIER CALIPERS**
**3746G** 


1/10

**Prod. SCU**

Pocket model. In brass. Mm/inch graduation. Vernier scale 1/10mm. Tapered jaws also for outside measurements.

Measuring capacity	mm	<b>60</b>	<b>80</b>	<b>100</b>
	Each	<b>10,10</b>	<b>10,10</b>	<b>10,60</b>

**PRECISION POCKET CALIPERS**
**3746GF**  **INOX**


1/20

**Orig. MIB**

Precision according to DIN 862. In stainless steel. Model with lock screw. Totally hardened, tempered jaw and tips. Graduation and vernier scale reading in 1/20 mm increments. Chrome plated finish.

Useful opening	mm	<b>70</b>	<b>100</b>
	Jaws length	mm	20 30
Supplier code		01004010	01004008
<b>3746GF</b>	Each	<b>28,70</b>	<b>27,30</b>

**3746GL**  **INOX**


1/20

Precision according to DIN 862. In stainless steel, MONOBLOCK, finely worked.

MA threading table. Model with lock screw. Totally hardened, tempered jaw and tips.

Graduation and vernier scale reading in 1/20 mm, 1/128 inch increments. Chrome plated finish.

Useful opening	mm	<b>150</b>	<b>200</b>	<b>300</b>
	Jaws length	mm	40	50
Supplier code		01001002	01001016	01001025
<b>3746GL</b>	Each	<b>28,70</b>	<b>44,50</b>	<b>78,90</b>

**3746GM**  **INOX**


1/50

Product description as Art. 3746GL

Graduation and vernier scale reading in 1/50 mm, 1/1000 inch increments. Chrome plated finish.

Useful opening	mm	<b>150</b>	<b>200</b>
	Jaws length	mm	40 50
Supplier code		01001041	01001043
<b>3746GM</b>	Each	<b>30,20</b>	<b>45,90</b>

**Prod. SCU**

Precision DIN 862. Made from stainless steel. Type with lock-down lever.  
 Totally hardened, tempered jaws and tips.  
 Scale and nonius with readings 1/20 of a mm, 1/128 of an inch. With table for MA and Withworth threads. In a bag.

Useful opening	mm	150	200
Jaws length	mm	40	50
<b>3747B</b>	<b>Each</b>	<b>13,40</b>	<b>22,30</b>

**SCU**
**INOX**
**3747B**

**1/20**
**Orig. MIB**

Precision according to DIN 862. In stainless steel, MONOBLOCK, finely worked.  
 MA threading table. Lock down lever. Totally hardened, tempered jaw and tips.  
 Graduation and vernier scale reading 1/20 mm, 1/128 inches, chrome plated, matt.

Useful opening	mm	150	200	300
Jaws length	mm	40	50	60
Supplier code		01001001	01001015	01001026
<b>3747D</b>	<b>Each</b>	<b>28,70</b>	<b>44,50</b>	<b>78,90</b>


**INOX**
**3747D**

**1/20**
**Orig. MIB - Art. 01001013**

Product description as Art. 3747D  
 With round depth rod Ø 2mm.  
 Graduation and vernier scale reading in 1/20 mm, 1/128 inch increments. Chrome plated finish.

Useful opening	mm	150
Jaws length	mm	40
<b>3747DP</b>	<b>Each</b>	<b>36,60</b>


**INOX**
**3747DP**

**Round Rod 1/20**
**Orig. MIB - Art. 01001018**

Precision according to DIN 862. In stainless steel, finely worked.  
 MA and Whitworth threading table. Lock down screw. Totally hardened, tempered jaw and tips.  
 Graduation and vernier scale reading in 1/20 mm. Chrome plated finish.

Useful opening	mm	150
Jaws length	mm	40
<b>3747DT</b>	<b>Each</b>	<b>45,90</b>


**INOX**
**3747DT**

**1/20**
**Orig. MIB - Art. 01001004**

Product description as Art. 3747DT  
 Scale and nonius with readings 1/20 of a mm, 1/128 of an inch. With level tables.  
 PARALLAX-FREE READINGS.  
 Opaque chrome finish.

Useful opening	mm	150
Jaws length	mm	40
<b>3747DV</b>	<b>Each</b>	<b>47,40</b>


**INOX**
**3747DV**

**1/20**
**Orig. MIB - Art. 01001003**

Accuracy DIN 862. Stainless steel execution.  
 With thread table BUT and Whitworth. model with locking lever.  
 Entirely hardened, beaks and hardened tips.  
 Scale and nonius with readings 1/20 of a mm, 1/128 of an inch. With level tables.  
 PARALLAX-FREE READINGS.  
 Opaque chrome finish.

Useful opening	mm	150
Jaws length	mm	40
<b>3747DZ</b>	<b>Each</b>	<b>47,40</b>


**INOX**
**3747DZ**

**1/20**
**Orig. MIB**

Precision according to DIN 862. In stainless steel, MONOBLOCK, finely worked.  
 MA and Whitworth threading table. Lock down lever. Totally hardened, tempered jaw and tips.  
 Graduation and vernier scale reading in 1/50 mm, 1/1000 inch increments. Chrome plated finish.

Useful opening	mm	150	200
Jaws length	mm	40	50
Supplier code		01001040	01001042
<b>3747E</b>	<b>Each</b>	<b>30,20</b>	<b>45,90</b>


**INOX**
**3747E**

**1/50**

**3747F** SCU INOX

1/50

**Prod. SCU**

Precision according to DIN 862. In stainless steel, MONOBLOCK, extra series, long noses. MA and Whitworth threading table. Lock down lever. Totally hardened, tempered jaws and tips. Graduation and vernier scale reading 1/50 mm, chrome plated.

Useful opening mm 150  
Jaws length mm 50

<b>3747F</b>	Each	<b>45,10</b>
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**3747G** MIB GERMANY INOX

1/50

**Orig. MIB - Art. 01001036**

Accuracy DIN 862. Stainless steel.

With double prismatic Guide, accurate execution. model with screw.

Entirely hardened, beaks and hardened tips.

Scale and nonius with readings 1/50 of a mm. With level tables.

PARALLAX-FREE READINGS.

Opaque chrome finish.

Useful opening mm 150  
Jaws length mm 40

<b>3747G</b>	Each	<b>78,90</b>
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**3747H** MIB GERMANY INOXFor  
Left-handed

1/20

**Orig. MIB - Art. 01004001**

For LEFT hand users.

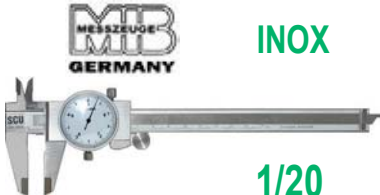
Precision according to DIN 862. In stainless steel. Lock down lever.

Totally hardened, tempered jaw and tips.

Graduation and vernier scale reading in 1/20 mm, 1/128 inch increments. Chrome plated finish.

Useful opening mm 150  
Jaws length mm 40

<b>3747H</b>	Each	<b>44,50</b>
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**DIAL CALIPERS****3747L** MIB GERMANY INOX

1/20

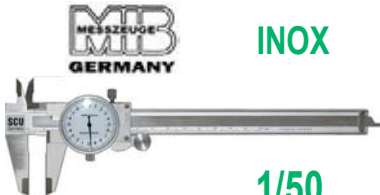
**Orig. MIB - Art. 01004002**

Pocket model. Precision according to DIN 862. In stainless steel, hardened, with lock screw.

Reading accuracy 1/20 mm (0.05). With dial for easy and rapid readout. With action roller.

Useful opening mm 150  
Jaws length mm 40

<b>3747L</b>	Each	<b>43,80</b>
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**3747R** MIB GERMANY INOX

1/50

**Orig. MIB**

Pocket model. Precision according to DIN 862. In stainless steel, hardened, with lock screw.

Reading accuracy 1/50 mm (0.02). With dial for easy and rapid readout.

Useful opening	mm	100	150	200	300
Jaws length	mm	30	40	50	60
Supplier code		01004007	01004003	01004009	01004005

<b>3747R</b>	Each	<b>47,40</b>	<b>50,20</b>	<b>78,90</b>	<b>144,00</b>
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**3747S** MIB GERMANY INOX

1/50

TOP model, high precision according to DIN 862. Pocket execution in stainless steel, hardened, with lock screw. Reading accuracy 1/50 mm (0.02). With dial for easy and rapid readout.

Useful opening	mm	150	200
Jaws length	mm	40	50

Supplier code		01004016	01004018
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<b>3747S</b>	Each	<b>57,40</b>	<b>80,40</b>
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**3747T** MIB GERMANY INOX

1/100

**Orig. MIB - Art. 01004004**

Pocket model. Precision according to DIN 862. In stainless steel, hardened, with lock screw.

Reading accuracy 1/100 mm (0.01). With dial for easy and rapid readout. With action roller.

Useful opening	mm	150
Jaws length	mm	40

<b>3747T</b>	Each	<b>56,10</b>
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**3747V** MIB GERMANY INOX

1/100

**Orig. MIB - Art. 01004015**

TOP model, high precision according to DIN 862. Pocket execution in stainless steel, hardened, with lock screw. Reading accuracy 1/100 mm (0.01). With dial for easy and rapid readout.

Useful opening	mm	150
Jaws length	mm	40

<b>3747V</b>	Each	<b>61,70</b>
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**ELECTRONIC-DIGIT-CALIPERS WITH BRIDGES FOR DEPTH MEASURING**
**Orig. MIB - Art. 02026109**

Accuracy DIN 862. Stainless steel, hardened.  
 Direct reading on display with large digits for easy reading. Reset button for measures relating, compare, switching on and off. Keyboard conversion mm/inch.  
 With set screw. Powered by 1.5 V battery.  
 Reading 0.01 mm/0.0005 inches. Accuracy  $\pm 0.03$  mm.  
 In slipcase.

With flat depth rod. Without operating wheel. With BRACKET FOR MEASURES OF DEPTH length 80 mm, special steel, with clamping screw.

Useful opening	mm	150
Jaws length	mm	40
<b>3747VB</b>	Each	<b>60,30</b>


**BRIDGES FOR DEPTH MEASURING**
**Orig. MIB - Art. 01001014**

In special steel. Lock screw. Suitable for all pocket and digital calipers up to 200mm.  
 Dimensions 100x8mm.

<b>3747VE</b>	Each	<b>22,30</b>
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**ELECTRONIC-DIGIT-CALIPERS**
**Orig. MIB**

Precision according to DIN 862. In hardened stainless steel.  
 Direct reading on display, high digits for easy reading. Zero setting button for relative and incremental measurements, on/off switch. Inch/metric toggle switch conversion.  
 With lock screw. 1,5 V lithium battery.  
 Reading 0.01 mm/0.0005 inch. Precision  $\pm 0.03$  mm.  
 In case.

With flat depth rod. Without operating wheel. With data output.

Useful opening	mm	<b>150</b>	<b>200</b>
Jaws length	mm	40	50
Supplier code		02026005	02026002
<b>3747VEA</b>	Each	<b>41,60</b>	<b>78,90</b>



Product description as Art. 3747VEA

Metal casing, with flat depth rod. Without operating wheel. Without data output.

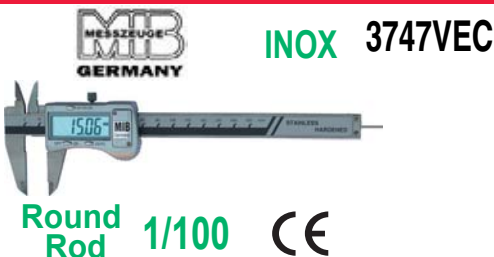
Useful opening	mm	<b>100</b>	<b>150</b>	<b>200</b>	<b>300</b>
Jaws length	mm	30	40	50	60
Supplier code		02026085	02026086	02026087	02026088
<b>3747VEB</b>	Each	<b>50,20</b>	<b>51,70</b>	<b>90,40</b>	<b>144,00</b>


**Orig. MIB - Art. 02026089**

Product description as Art. 3747VEA

Metal casing, with round depth rod  $\varnothing 1.7$ mm. Without operating wheel. Without data output.

Useful opening	mm	150
Jaws length	mm	40
<b>3747VEC</b>	Each	<b>57,40</b>


**Orig. MIB**

Professional. Accuracy DIN 862. Stainless steel, hardened.  
 Direct reading on display with large digits for easy reading. Reset button for relative and compared measurements, on and off and additional functions "ABS" (ABSOLUTE REFERENCE VALUE) and "ORIGIN" (THE PRESET VALUES REMAIN UNCHANGED EVEN WHEN THE BATTERY IS CHANGED). Keyboard conversion mm/inch.  
 With set screw. Powered by a long life 3 V ecological lithium battery.  
 Reading 0.01 mm/1.0005 inches. Accuracy  $\pm 0.03$  mm.  
 In slipcase.

With metal shell, flat depth rod. Ability to drive with or without removable wheel. With data output.

Useful opening	mm	<b>150</b>	<b>200</b>
Jaws length	mm	40	50
Supplier code		02026110	02026111
<b>3747VED</b>	Each	<b>63,20</b>	<b>89,10</b>



3747VEP



INOX

Round  
Rod

IP65 1/100 CE

Orig. MIB - Art. 02026066

Precision according to DIN 862. In hardened stainless steel. Direct reading on display, high digits for easy reading. Zero setting button for relative and incremental measurements, on/off switch. Inch/metric toggle switch conversion. With lock screw. 1,5 V lithium battery. Reading 0.01 mm/0.0005 inch. Precision  $\pm 0.03$  mm. In case.

IP 65 protection against water-sprays, oils, dust, etc. With flat depth rod  $\varnothing 1.6$ mm. Without operating wheel. Without data output.

Useful opening	mm	150
Jaws length	mm	40

3747VEP	Each	165,00
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Product running out of stock.

3747VES



INOX

Round  
Rod

IP67 1/100 CE

Orig. MIB - Art. 02026054

Product description as Art. 3747VEP

IP 67 protection against temporary immersion in liquids and dust penetration. Metal casing, with round depth rod  $\varnothing 1.6$ mm. Without operating wheel. Without data output.

Useful opening	mm	150
Jaws length	mm	40

3747VES	Each	165,00
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WARNING: Gauges Art. 3747 VER and 3747 VES are constructed with a magnetic band system, so they must not be used near magnetic sources.

Product running out of stock.

3747VET

new



INOX



IP67 1/100 CE

Orig. MIB

With professional electronics "SYLVAC". Accuracy DIN 862. Stainless steel, hardened. Direct reading on display with large digits for easy reading. "MODE" and "SET" keys for relative and compared measurements, mm/inch conversion, on and off.

With screw. Ecological battery power lithium 3 V, long lasting. 0.01 mm/0.0005 reader inches. Accuracy  $\pm 0.03$  mm.

In slipcase.

With IP 67 protection against temporary immersion in liquids and dust penetration. With flat depth rod. Without operating wheel. Without data output.

Useful opening	mm	150	200
Jaws length	mm	40	50

Supplier code	02026093	02026094
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3747VET	Each	216,00	259,00
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Occasionally may be provided with round shaft.

3747VGL



INOX

Round  
Rod 1/100 CE

Orig. MIB - Art. 02026065

Precision according to DIN 862. In hardened stainless steel. Direct reading on display, high digits for easy reading. Zero setting button for relative and incremental measurements, on/off switch. Inch/metric toggle switch conversion.

With lock screw. 1,5 V lithium battery.

Reading 0.01 mm/0.0005 inch. Precision  $\pm 0.03$  mm.

In case.

With round depth rod  $\varnothing 1.6$ mm. With actioning roller. With possibility of data output.

Useful opening	mm	150
Jaws length	mm	40

3747VGL	Each	50,20
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3747VGP



INOX



1/100 CE

Orig. MIB

Product description as Art. 3747VGL

With flat depth rod. With actioning roller. With possibility of data output.

Useful opening	mm	150	200	300
Jaws length	mm	40	50	60

Supplier code	02026006	02026007	02026008
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3747VGP	Each	43,10	77,50	122,00
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3747VGR



INOX



HARTMETALL 1/100 CE

Product description as Art. 3747VGL

With contacts reported in hard metal, both on jaws and tips.

With flat depth rod. With operating wheel. With data output.

Useful opening	mm	150	200
Jaws length	mm	40	50

Supplier code	02026033	02026041
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3747VGR	Each	86,10	138,00
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Product description as Art. 3747VGL

With "ABS" (Absolute Value) additional function. With flat depth rod. With operating wheel. With data output.

Useful opening	mm	150	200
Jaws length	mm	40	50
Supplier code		02026037	02026038
<b>3747VGS</b>	<b>Each</b>	<b>47,40</b>	<b>80,40</b>



Professional. Accuracy DIN 862. In hardened stainless steel. Vitrified pole for a more accurate scan.

Direct reading on display with large digits for easy reading. Reset button for relative and compared measurements, on and off and additional functions "ABS" (ABSOLUTE REFERENCE VALUE) and "ORIGIN" (THE PRESET VALUES REMAIN UNCHANGED EVEN WHEN THE BATTERY IS CHANGED). Keyboard conversion mm/inch.

With set screw. Ecological battery power lithium 3 V, long lasting.

0.01 mm/0.0005 reader inches. Accuracy  $\pm 0.03$  mm.

In slipcase.

With IP 54 protection from moisture and dust penetration. With flat depth rod. With data output (RB6).

Ability to drive with or without removable wheel.

Useful opening	mm	150	200	300
Jaws length	mm	40	50	60
Supplier code		02026210	02026211	02026212
<b>3747VGTa</b>	<b>Each</b>	<b>112,00</b>	<b>143,00</b>	<b>187,00</b>



Precision according to DIN 862. In hardened stainless steel.

Direct reading on display, high digits for easy reading. Zero setting button for relative and incremental measurements, on/off switch. Inch/metric toggle switch conversion.

With lock screw. 1,5 V lithium battery.

Reading 0.01 mm/0.0005 inch. Precision  $\pm 0.03$  mm.

In case.

With "HOLD" (MEMORY) additional function. With flat depth rod. With operating wheel. With data output.

Useful opening	mm	150	200	300
Jaws length	mm	40	50	60
Supplier code		02026025	02026026	02026027
<b>3747VGu</b>	<b>Each</b>	<b>47,40</b>	<b>80,40</b>	<b>144,00</b>



**Orig. MIB - Art. 02026034**

Product description as Art. 3747VGu

For LEFT hand users. With additional "ABS" (ABSOLUTE VALUE OF REFERENCE).

With flat depth rod. Without operating wheel. Without data output.

Useful opening	mm	150
Jaws length	mm	40
<b>3747ZE</b>	<b>Each</b>	<b>93,30</b>



**Orig. MIB - Art. 02026049**

Product description as Art. 3747VGu

Tips 35mm long, for inside and outside measurements from 8mm. Metal casing, with flat depth rod. Without operating wheel. Without data output.

Useful opening	mm	150
Jaws length	mm	40
<b>3747ZG</b>	<b>Each</b>	<b>131,00</b>



**Orig. MIB - Art. 02026053**

Product description as Art. 3747VGu

Noses 80mm long. Metal casing, with flat depth rod, without operating wheel. Without data output.

Useful opening	mm	200
Jaws length	mm	80
<b>3747ZL</b>	<b>Each</b>	<b>173,00</b>



**3747ZP**

**INOX****1/100** **Orig. MIB - Art. 02026101**

Product description as Art. 3747VGU

With thin noses, 0.75mm, to measure necks. With metal shell, flat depth rod, without drive wheel. Not set up for data output.

Useful opening	mm	150
Noses overall length	mm	40
Noses thin side length	mm	18

<b>3747ZP</b>	<b>Each</b>	<b>90,40</b>
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**3747ZT**

**INOX****POINTED BEAKS****1/100** **Orig. MIB - Art. 02026103**

Product description as Art. 3747VGU

With acute pointed noses, 15°, to measure in hard-to-access areas. With metal shell, flat depth rod, without drive wheel. Not set up for data output.

Useful opening	mm	150
Jaws length	mm	40

<b>3747ZT</b>	<b>Each</b>	<b>87,50</b>
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**PRECISION POCKET CALIPERS****3748**

**1/20****Orig. MIB**

In special steel, chrome plated graduated rod and vernier scale, matt. Micromatic screw, completely hardened.

Graduation and vernier scale reading in 1/20 mm. In case.

Tipped.

Useful opening	mm	<b>200</b>	<b>300</b>
Jaws length	mm	50	50
Supplier code		01001020	01001021

<b>3748</b>	<b>Each</b>	<b>47,40</b>	<b>70,30</b>
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**3748 3**

**INOX****1/20**

Professional model, long jaws. Precision according to DIN 862. In stainless steel MONOBLOCK. Chrome plated graduated rod and vernier scale, matt finish. Totally hardened. Finely ground surface. Graduation and vernier scale reading in 1/20 mm, 1/128 inch.

Round tips.

Useful opening	mm	<b>200</b>	<b>300</b>	<b>500</b>
Jaws length	mm	60	90	150
Supplier code		01011050	01011052	01011059

<b>3748 3</b>	<b>Each</b>	<b>78,90</b>	<b>132,00</b>	<b>330,00</b>
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**3748 4**

**INOX****1/20**

Product description as Art. 3748 3

Tipped.

Useful opening	mm	<b>200</b>	<b>300</b>	<b>500</b>
Jaws length	mm	60	90	150
Supplier code		01013040	01013042	01013046

<b>3748 4</b>	<b>Each</b>	<b>94,70</b>	<b>173,00</b>	<b>411,00</b>
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**3748 5**

**INOX****1/20**

Long noses model. Precision according to DIN 862. In stainless steel MONOBLOCK, graduated rod and vernier scale, matt finish. With micrometric screw. Totally hardened. Ground surface. Graduation and vernier scale reading in 1/20 mm, 1/128 inch.

Round tips.

Useful opening	mm	<b>200</b>	<b>300</b>
Jaws length	mm	60	100
Supplier code		01009060	01009062

<b>3748 5</b>	<b>Each</b>	<b>77,50</b>	<b>120,00</b>
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**3748 5E**

**INOX****1/20**

Product description as Art. 3748 5

Tipped.

Useful opening	mm	<b>200</b>	<b>300</b>
Jaws length	mm	60	100
Supplier code		01009065	01009067

<b>3748 5E</b>	<b>Each</b>	<b>86,10</b>	<b>137,00</b>
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**3748 6**

**INOX****1/20**

Industrial, extra-heavy model, long jaws. Precision according to DIN 862. In stainless steel. Chrome plated graduated rod and vernier scale, matt finish. Micrometer screw. Totally hardened. Finely ground surface. Graduation and vernier scale reading in 1/20 mm, 1/128 inch.

Round tips.

Useful opening	mm	<b>200</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>800</b>	<b>1000</b>
Jaws length	mm	60	90	125	150	150	150
Supplier code		01012050	01012052	01012055	01012059	01012067	01012071

<b>3748 6</b>	<b>Each</b>	<b>94,70</b>	<b>153,00</b>	<b>316,00</b>	<b>366,00</b>	<b>703,00</b>	<b>789,00</b>
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Product description as Art. 3748 6

Tipped.

Useful opening	mm	200	300	400	500	800	1000
Jaws length	mm	60	90	125	150	150	150
Supplier code		01014040	01014042	01014043	01014046	01014051	01014054
<b>3748 7</b>	Each	111,00	198,00	379,00	458,00	868,00	947,00



**Prod. SCU**

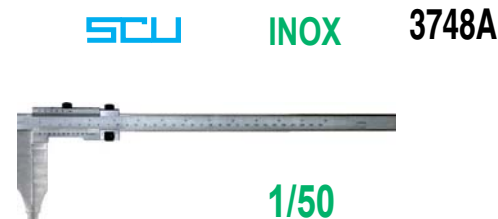
Professional model, long jaws. Precision according to DIN 862. In stainless steel. Chrome plated graduated rod and vernier scale, matt finish.

Micrometer screw. Totally hardened. Finely ground surface.

Graduation and vernier scale reading in 1/50 mm. In case.

Round tips.

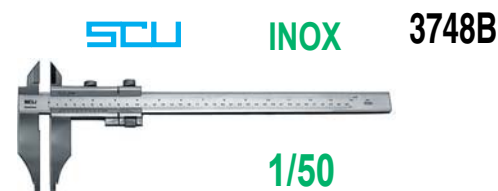
Useful opening	mm	300	400	500	800	1000
Jaws length	mm	90	125	150	150	150
<b>3748A</b>	Each	183,00	293,00	365,00	746,00	868,00



Product description as Art. 3748A

Tipped.

Useful opening	mm	300	400	500	800	1000
Jaws length	mm	90	125	150	150	150
<b>3748B</b>	Each	208,00	398,00	505,00	916,00	1.040,00



**ELECTRONIC-DIGIT-CALIPERS**

**Orig. MIB**

Precision DIN 862.

Made from stainless steel. With micrometer screw and graded rod. Reading directly on display with extra-large figures for easy reading. Reset button for relative and incremental measurements and for switching on/off. Metric/inches conversion button. "ABS" (Absolute Reference Value) and "PRESET" button. With lock-down screw. Powered by ecological, long-life 3V lithium batteries.

Readings 0.01 mm/ 0.0005 inch.

Without tips. With predisposed data output

Useful opening	mm	300	500	1000
Jaws length	mm	150	150	150
Precision	mm	0,03	0,05	0,07
Supplier code		02026057	02027009	02027008
<b>3748C</b>	Each	287,00	316,00	761,00



Precision DIN 862.

Made from stainless steel. With micrometer screw and graded rod (only size 1500 with ungraded rod). Reading directly on display with extra-large figures for easy reading. Reset button for relative and incremental measurements and for switching on/off. Metric/inches conversion button. "ABS" (Absolute Reference Value) and "PRESET" button. With lock-down screw. Powered by ecological, long-life 3 V lithium batteries.

Readings 0.01 mm/ 0.0005 inch.

With tips. With predisposed data output

Useful opening	mm	300	500	1000	1500
Jaws length	mm	90	150	150	200
Precision	mm	0,03	0,05	0,07	0,10
Supplier code		02027011	02027015	02027016	02027017
<b>3748D</b>	Each	244,00	431,00	804,00	1.890,00



The Art. 3748 D 300 without "ABS" and "PRESET" functions and it is supplied with battery 1.5 V.

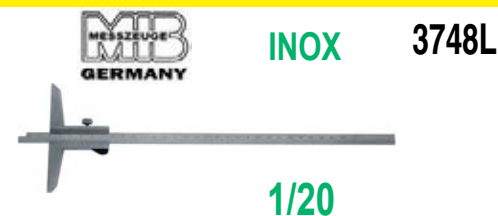
**SLIDING GAUGES FOR DEPTH MEASUREMENTS**

**Orig. MIB**

Precision according to DIN 862. In stainless steel. With graduated rod and vernier scale, matt finish. Lock screw. Totally hardened. Finely ground surface.

Graduation and vernier scale reading in 1/20 mm. Tapered rod end.

Useful opening	mm	150	200	300	400	500
Support base length	mm	100	100	100	150	150
Supplier code		01015041	01015043	01015048	01015052	01015053
<b>3748L</b>	Each	40,20	45,90	57,40	111,00	137,00



**3748P**

Precision according to DIN 862. In stainless steel. Chrome plated graduated rod and vernier scale, matt finish. Lock screw. Totally hardened. Finely ground surface. Graduation and vernier scale reading in 1/20 mm. Combination model with a rod extremity bent at 90° and the other one tapered.

Useful opening	mm	200	300
Support base length	mm	100	150
Supplier code		01016023	01016028
<b>3748P</b>	Each	<b>81,80</b>	<b>101,00</b>

**3748PE****Orig. MIB - Art. 01016051**

Precision according to DIN 862. In stainless steel, chrome plated graduated rod and vernier scale, matt. With lock screw. Completely hardened. Finely ground surface. Graduation and vernier scale reading in 1/20 mm. Pivot rod end.

Useful opening	mm	200
Support base length	mm	100
Pivot Ø	mm	1,6
Pivot length	mm	6
<b>3748PE</b>	Each	<b>60,30</b>

**3748PG****Orig. MIB - Art. 01015015**

In special steel, chrome plated graduated rod and vernier scale, matt. With lock screw. Completely hardened. Finely ground surface. Graduation and vernier scale reading in 1/50 mm. Hooked rod end.

Useful opening	mm	200
Support base length	mm	100
Hook extension	mm	7,5
<b>3748PG</b>	Each	<b>57,40</b>

### ELECTRONIC DIGIT DEPTH GAUGES STAINLESS STEEL WITH DIAL

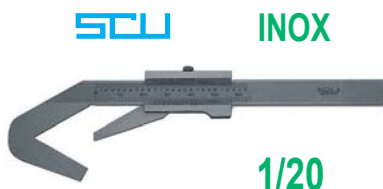
**3748R****Orig. MIB**

Precision according to DIN 862. In hardened stainless steel. Direct reading on display, high digits for easy reading. Zero setting button for relative and incremental measurements, on/off switch. Inch/metric toggle switch conversion. With lock screw. 1,5 V lithium battery. Reading 0.01 mm/0.0005 inch.

Tapered rod end.  
Metal casing, without operation wheel.

Useful opening	mm	150	200	300
Support base length	mm	100	100	150
Supplier code		02026170	02026171	02026172
<b>3748R</b>	Each	<b>77,50</b>	<b>101,00</b>	<b>158,00</b>

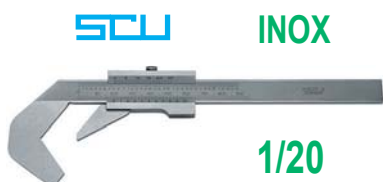
### 3-5 POINT VERNIER CALIPERS

**3748S****Prod. SCU**

In stainless steel. Lock screw. Totally hardened. Chrome plated graduated rod and vernier scale, matt.

Graduation and vernier scale reading in 1/20 mm, 1/128 inch.  
Suitable to measure tools with three cutting edges. Effective opening: 4 to 40mm.  
With three points.

<b>3748S</b>	Each	<b>84,50</b>
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**3748T**

In stainless steel. Lock screw. Totally hardened. Chrome plated graduated rod and vernier scale, matt.

Graduation and vernier scale reading in 1/20 mm, 1/128 inch.  
Suitable to measure tools with five cutting edges. Effective opening: 2 to 40mm.  
With five points.

<b>3748T</b>	Each	<b>85,20</b>
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### SQUARE VERNIER CALIPERS

**3748V****Orig. MIB**

Precision according to DIN 862. In special steel chrome plated. Micrometer screw. Graduation and vernier scale reading in 1/20 mm.

Useful opening	mm	250	500
Bracket length	mm	140	160
Supplier code		01006004	01006006
<b>3748V</b>	Each	<b>151,00</b>	<b>316,00</b>

**CALIPERS FOR BREAK DISCS**

**Orig. MIB - Art. 01007015**

In stainless steel. Chrome-plated graduated rod and vernier scale, matt. Set screw. Totally hardened. Graduation and vernier scale reading in 1/10 mm.  
Fixed contact tips.  
Effective opening: 0 to 50mm. Jaw length: 80mm.

**3748Z** Each **60,30**



**INOX 3748Z**

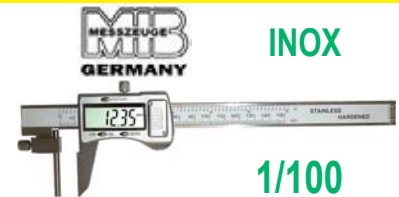
**1/10**

**VERNIER DIGITAL CALIPERS FOR WALL THICKNESS**

**Orig. MIB - Art. 02026060**

Precision according to DIN 862. In hardened stainless steel.  
Direct reading on display, with high digits for easy reading. Zero setting button for relative and incremental measurements, on/off switch. With lock screw. 1,5 V lithium battery. With conversion mm/inch button. Reading 0.01mm. Effective opening 4-150mm.  
Nose length 35mm. Pivot diameter 4mm.

**3749A** Each **144,00**



**INOX 3749A**

**1/100**

**DRAWING VERNIER CALIPERS**

**Prod. SCU**

In stainless steel, MONOBLOCK. Lock screw. Totally hardened. Interamente temprate.  
Interchangeable drawing tip. Graduation and vernier scale reading in 1/10 mm. Effective opening: 200mm.  
Supplied with tip.

**3749B** Each **29,70**



**INOX 3749B**

**1/10**

For markers see Art. 4328 G and 4328 GE

Spare drawing tip for Art. 3749 B.

**O3749B** Each **4,12**

**INTERNAL GROOVE VERNIER CALIPERS**

**Orig. MIB**

Precision according to DIN 862. In stainless steel.  
With lock screw. Hardened measuring surfaces.  
Graduation and vernier scale in 1/20 mm.. Chrome plated finish.

Min useful opening	mm	<b>10</b>	<b>20</b>
Max useful opening	mm	160	160
Jaws length	mm	25	40
Measuring teeth length	mm	3	5
Supplier code		01006012	01006013

**3749C** Each **77,50** **90,40**



**INOX 3749C**

**1/20**

**DIGITAL INTERNAL GROOVE VERNIER CALIPERS**

**Orig. MIB - Art. 02026040**

In hardened stainless steel. Direct reading on display, large digits for easy reading. Reset key for relative, incremental measurements, on-off key, P+/P- keys for starting measurement preset. Lock screw. 1,5 V lithium battery.  
Reading accuracy 0.01mm.  
Metal housing, without thumbwheel.

Min useful opening	mm	20
Max useful opening	mm	170
Jaws length	mm	30
Measuring teeth length	mm	5
Measuring teeth Ø	mm	2

**3749CE** Each **138,00**



**INOX 3749CE**

**1/100**

**11**

**COMPASS VERNIER CALIPERS**

**Orig. MIB**

In special steel.  
Completely hardened. Finely ground surface.  
Graduated scale with 1/10 mm reading. With lock screw.

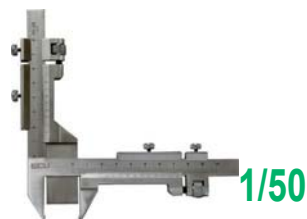
Useful opening	mm	<b>200</b>	<b>300</b>
Jaws length	mm	40	40
Supplier code		01007031	01007032

**3749D** Each **101,00** **115,00**



**3749D**

**1/10**

**GEAR TEETH VERNIER CALIPERS**
**3749E****SCU****INOX****Prod. SCU**

Made from stainless steel.

Double slider with micrometer advance. Nonius 1/50 of a mm. Chrome finish. To measure the thickness and height of gear teeth. In a box.

For gears modules mm 1÷26

<b>3749E</b>	Each	<b>134,00</b>
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The electronic digital version is available on request.

**PRECISION POCKET CALIPERS SLIDE GAUGE FOR INSIDE OUTSIDE AND MEASUREMENTS**
**3749G****SCU****INOX****Prod. SCU - Orig. Helios-Preisser**

DIN 682 Precision.

In high quality stainless steel, totally hardened. Chrome plated matt finish, antireflection for sharp reading.

Precision. Graduation and vernier scale reading in 1/20 mm, 1/128 inch. With lever. Supplied in case.

Useful opening mm 150

Noses length mm 40

<b>3749G</b>	Each	<b>46,80</b>
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**3749GB****SCU****INOX**

Product description as Art. 3749G

Precision. Graduation and vernier scale reading in 1/20 mm, 1/128 inch.

With lever. Supplied in case.

Useful opening mm 200

Noses length mm 40

<b>3749GB</b>	Each	<b>70,10</b>
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**3749GE****SCU****INOX**

Product description as Art. 3749G

Precision. Graduation and vernier scale reading in 1/20 mm, 1/128 inch. With lever. Supplied in case.

Useful opening mm 150

Noses length mm 40

<b>3749GE</b>	Each	<b>46,80</b>
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**3749GF****SCU****INOX****Round Rod**

Product description as Art. 3749G

Precision. Graduation and vernier scale reading in 1/50 mm, 1/1000 inch. With screw and round depth bar. Supplied in case.

Useful opening mm 200

Noses length mm 40

<b>3749GF</b>	Each	<b>77,40</b>
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**3749GT****SCU****INOX****Round Rod**

Product description as Art. 3749G

Precision model.

Graduation and vernier scale reading in 1/20 mm, 1/128 inch.

High precision. Round rod for depth measurements.

With lever. Supplied in case.

Useful opening mm 150

Noses length mm 40

<b>3749GT</b>	Each	<b>56,60</b>
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**3749GV****SCU****INOX****Round Rod**

Product description as Art. 3749G

Precision. Graduation and vernier scale reading in 1/20 mm, 1/128 inch.

With round depth rod. With lock screw. Supplied in case

Useful opening mm 150

Noses length mm 40

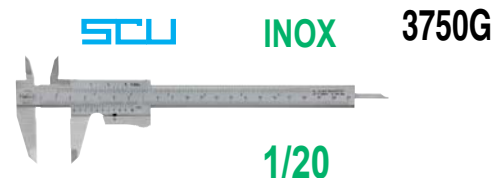
<b>3749GV</b>	Each	<b>56,60</b>
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Product description as Art. 3749G

Graduation and vernier scale with reading in 1/20 mm, 1/128 inch.

Reading without parallax errors. With lever. Supplied in case.

Useful opening	mm	150
Noses length	mm	40
<b>3750G</b>	<b>Each</b>	<b>65,20</b>

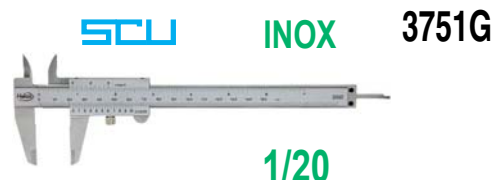


Product description as Art. 3749G

Graduation and vernier scale reading in 1/20 mm, 1/128 inch.

Parallel planes without parallax errors. With screw. Supplied in case.

Useful opening	mm	150
Noses length	mm	40
<b>3751G</b>	<b>Each</b>	<b>65,20</b>



### DIAL CALIPERS

**Prod. SCU - Orig. Helios-Preisser**

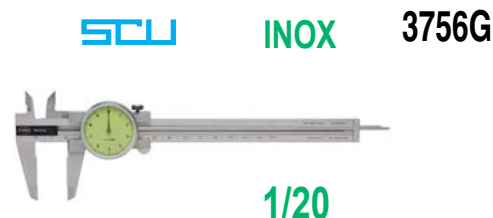
Precision according to DIN 862. In stainless steel, hardened. With dial for easy and rapid readout.

Antishock movement makes the dial robust and precise. One complete dial revolution

corresponds to 10mm. Sharp reading dial with zero setting. Reading increments 1/20 and 1/10 mm (0.05).

Supplied in bag.

Useful opening	mm	150
Noses length	mm	40
<b>3756G</b>	<b>Each</b>	<b>187,00</b>



### ELECTRONIC-DIGIT-CALIPERS

**Prod. SCU - Orig. Helios-Preisser**

Precision according to DIN 862. In high quality stainless steel, totally hardened. Direct reading on

high contrast display. Digits 7,5mm high for easy reading. Reading precision assured by high precision tooling and coupling of sliding and contacting parts. Repeatability  $\pm 0,01$  mm.

Zero setting button for relative and incremental measurements, on/off switch. Inch/metric toggle switch conversion. Lock screw and depth rod (except 3759GF). Environmental-friendly, long life lithium battery.

Readings: 0.01 mm/0,0005 inch.

Max. response speed: 1 m/s

min/max working temperature: 10-50 °C

Supplied in case.

PROFESSIONAL model.

Without data output.

Useful opening	mm	150
Noses length	mm	40
<b>3759GA</b>	<b>Each</b>	<b>245,00</b>



Product description as Art. 3759GA

Readings: 0.01 mm/0,0005 inch.

Max. response speed: 1 m/s

min/max working temperature: 10-50 °C

Supplied in case.

PROFESSIONAL model.

With possibility of data output.

Useful opening	mm	150
Noses length	mm	40
<b>3759GE</b>	<b>Each</b>	<b>319,00</b>



Product description as Art. 3759GA

Readings: 0.01 mm/0,0005 inch.

Max. response speed: 1 m/s

min/max working temperature: 10-50 °C

Supplied in case.

PROFESSIONAL model.

With possibility of data output.

Useful opening	mm	200
Noses length	mm	50
<b>3759GF</b>	<b>Each</b>	<b>401,00</b>



**3759GH** SCU INOX

**1/100** CE

Precision according to DIN 862.

In high quality stainless steel, totally hardened. Direct reading on high contrast display. Digits 7.5mm high for easy reading. Reading precision assured by high precision tooling and coupling of sliding and contacting parts. Repeatability  $\pm 0.01$  mm. Zero setting button for relative and incremental measurements, on/off switch. Inch/metric toggle switch conversion. With lock screw. Environmental-friendly, long life lithium battery.

Readings: 0.01 mm/0,0005 inch.

 Max. response speed: 1 m/s  
 min/max working temperature: 10-50 °C

Supplied in case.

PROFESSIONAL model

Without data output.

Useful opening	mm	300
Noses length	mm	60
<b>3759GH</b>	<b>Each</b>	<b>516,00</b>

**3760GA** SCU INOX

 Round Rod  
**IP65** **1/100** CE

Precision according to DIN 862. In high quality stainless steel, totally hardened. Direct reading on high contrast display. Digits 6mm high. Reading precision assured by high precision tooling and coupling of sliding and contacting parts. Repeatability  $\pm 0,01$  mm.

Zero setting button for relative and incremental measurements, on/off switch. Inch/metric toggle switch conversion. Lock screw and depth rod. Environmental-friendly, long life lithium battery.

Readings: 0.01 mm/0.0005 inch.

 Max response speed: 1 m/s  
 min/max working temperature: 10-50 °C

Supplied in case. PROFESSIONAL model, IP 65 protection against splash water, oil, dust, ecc. Graduated rod.

With data output.

Useful opening	mm	150
Noses length	mm	40
<b>3760GA</b>	<b>Each</b>	<b>355,00</b>

**3760GE** SCU INOX

 Round Rod  
**IP67** **1/100** CE

Precision according to DIN 862.

In high quality stainless steel, totally hardened. Direct reading on high contrast display. Digits 7.5mm high for easy reading. Reading precision assured by high precision tooling and coupling of sliding and contacting parts. Repeatability  $\pm 0.01$  mm. Zero setting button for relative and incremental measurements, on/off switch. Inch/metric toggle switch conversion. With lock screw and round depth rod. Environmental-friendly, long life lithium battery.

IP 67 protection against temporary immersion in liquids and dust penetration according to EN60529 standard.

Readings: 0.01 mm/0,0005 inch.

 Max. response speed: 1 m/s  
 min/max working temperature: 10-50 °C

Supplied in case.

PROFESSIONAL model

Without data output.

Useful opening	mm	150
Noses length	mm	40
<b>3760GE</b>	<b>Each</b>	<b>355,00</b>

**BRIDGES FOR DEPTH MEASURING**
**3760GS** SCU INOX


Prod. SCU - Orig. Helios-Preisser

In stainless steel. Lock screw. Base dimensions: 75x5mm. Suitable to all types of pocket and digit Helios\_preisser calipers.

<b>3760GS</b>	<b>Each</b>	<b>48,20</b>
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**ELECTRONIC-DIGIT-CALIPERS**
**Prod. SCU - Orig. Helios-Preisner**

Precision according to DIN 862.

 In high quality stainless steel, totally hardened. Direct reading on high contrast display. Digits 6mm high. Reading precision assured by high precision tooling and coupling of sliding and contacting parts. Repeatability  $\pm 0.01$  mm. Zero setting button for relative and incremental measurements, on/off switch. Inch/metric toggle switch conversion. With lock screw.

Environmental-friendly, long life lithium battery.

Reading: 0.01 mm/0,0005 inch.

Max reply speed: 1 m/s

Min/max working temperature: 10-50 °C

Supplied in case.

PROFESSIONAL type.

With micrometric screw.

Data output function.

Useful opening	mm	<b>300</b>	<b>500</b>
Jaws length	mm	90	125
<b>3775G</b>	<b>Each</b>	<b>858,00</b>	<b>1.230,00</b>

**SCU**
**INOX**
**3775G**

**1/100** **CE**

Product description as Art. 3775G

Reading: 0.01 mm/0,0005 inch.

Max reply speed: 1 m/s

Min/max working temperature: 10-50 °C

Supplied in case.

PROFESSIONAL type.

With tips and micrometric screw.

With data output function.

Useful opening	mm	<b>300</b>	<b>500</b>	<b>800</b>
Jaws length	mm	90	125	150
<b>3781GE</b>	<b>Each</b>	<b>940,00</b>	<b>1.400,00</b>	<b>2.160,00</b>

**SCU**
**INOX**
**3781GE**

**1/100** **CE**
**SLIDING GAUGES FOR DEPTH MEASUREMENTS**
**Prod. SCU - Orig. Helios-Preisner**

Precision according to DIN 862. In stainless steel. Very stable execution.

Lock screw. Hardened measuring surfaces. Vernier scale 1/20 mm.

Chrome plated finish, matt.

Straigh measuring rod.

Useful opening	mm	<b>200</b>	<b>300</b>	<b>500</b>
Support base length	mm	100	100	150
<b>3781GN</b>	<b>Each</b>	<b>178,00</b>	<b>202,00</b>	<b>329,00</b>

**SCU**
**INOX**
**3781GN**

**1/20**
**ELECTRONIC DIGIT DEPTH GAUGES STAINLESS STEEL WITH DIAL**
**Prod. SCU - Orig. Helios-Preisner**

 In high quality stainless steel, totally hardened. Direct reading on high contrast display. Digits 6mm high for easy reading. Reading precision assured by high precision tooling and coupling of sliding and contacting parts. Repeatability  $\pm 0.01$  mm. Zero setting button for relative and incremental measurements, on/off switch. Inch/metric toggle switch conversion. With lock screw.

Environmental-friendly, long life lithium battery.

Readings: 0.01 mm/0,0005 inch.

Max. response speed: 1 m/s

min/max working temperature: 10-50 °C

Supplied in case.

PROFESSIONAL model

With straight tapered rod extremity.

Useful opening	mm	<b>200</b>	<b>300</b>
Support base length	mm	100	150
Rod section	mm	12x4	12x4
<b>3781GRA</b>	<b>Each</b>	<b>741,00</b>	<b>827,00</b>

**SCU**
**INOX**
**3781GRA**

**1/100** **CE**

Product description as Art. 3781GRA

Readings: 0.01 mm/0,0005 inch.

Max. response speed: 1 m/s

min/max working temperature: 10-50 °C

Supplied in case.

PROFESSIONAL model

With rod extremity bent at 90°.

Useful opening	mm	300
Support base length	mm	150
Rod section	mm	12x4
<b>3781GS</b>	<b>Each</b>	<b>899,00</b>

**SCU**
**INOX**
**3781GS**

**1/100** **CE**

## EXTERNAL GROOVE VERNIER CALIPERS

3781GZ

SCU

INOX



1/20

Prod. SCU - Orig. Helios-Preisner

Made from stainless steel. Very stable execution.

Contact parts hardened and ground. Scale and nonius 1/20 of a mm, 1/128 of an inch.

With matt chrome finish.

Useful opening	mm	300
Jaws length	mm	90
Contact noses thicknesses	mm	1,5

<b>3781GZ</b>	Each	<b>583,00</b>
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## EXTERNAL MICROMETERS

3782L



until 125 - 150

from 150-175 to 275-300

HARTMETALL 1/100

Orig. MIB

Standard model according to DIN 863.

Contact surfaces in hardmetal.

Matt chrome plated reading knob. Increments 1/100 mm.

Ratchet screw, locking lever and heatproof gripping pads.

Setting gauge 25mm onwards. Supplied in case.

Capacity	mm	0-25	25-50	50-75	75-100	100-125	125-150
Supplier code		01017070	01017071	01017072	01017073	01017074	01017075
<b>3782L</b>	Each	<b>35,90</b>	<b>39,50</b>	<b>43,50</b>	<b>47,80</b>	<b>55,40</b>	<b>65,30</b>

Capacity	mm	150-175	175-200	200-225	225-250	250-275	275-300
Supplier code		01017056	01017057	01017058	01017059	01017060	01017061
<b>3782L</b>	Each	<b>75,90</b>	<b>85,20</b>	<b>93,90</b>	<b>98,30</b>	<b>104,00</b>	<b>122,00</b>

3782P



HARTMETALL 1/100

Orig. MIB - Art. 01017080

4-micrometers set Art. 3782 L measuring ranges: 0-25, 25-50, 50-75, 75-100mm.

Supplied in case.

<b>3782P</b>	Each	<b>167,00</b>
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3782S



HARTMETALL 1/100

Orig. MIB

Professional model, DIN 863. Contact surfaces in hardmetal. Matt chrome plated reading knob.

Increments in 1/100 mm. Friction thimble, locking lever and heatproof gripping pads. Setting

gauge 25mm onwards.

Supplied in case.

Capacity	mm	0-25	25-50	50-75	75-100
Supplier code		01019050	01019051	01019052	01019053
<b>3782S</b>	Each	<b>40,20</b>	<b>43,10</b>	<b>47,40</b>	<b>53,10</b>

3782T



HARTMETALL 1/100

Orig. MIB - Art. 01019054

4-micrometers set Art. 3782 S measuring ranges: 0-25, 25-50, 50-75, 75-100mm.

Supplied in case.

<b>3782T</b>	Each	<b>187,00</b>
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**Orig. MIB**

Precision type, DIN 863.  
 Oversize thimble Ø 25mm.  
 Contact surfaces in hardmetal on rod Ø 8mm.  
 Matt chrome plated reading knob.  
 Increments in 1/100 mm.  
 Friction thimble, locking lever and heatproof gripping pads. Setting gauge 25mm onwards.  
 Supplied in case.

Capacity	mm	0-25	25-50	50-75	75-100
Supplier code		01019090	01019091	01019092	01019093
<b>3783GE</b>	<b>Each</b>	<b>86,10</b>	<b>93,30</b>	<b>105,00</b>	<b>111,00</b>



**3783GE**



HARTMETALL 1/100

Precision and high capacity model.  
 Contact surfaces in hardmetal.  
 Interchangeable measuring rods.  
 Steel bow. Matt chrome plated graduated parts.  
 Increments in 1/100 mm. Ratchet screw and locking lever.  
 Setting gauge supplied in case together with the micrometer.

Capacity	mm	0-100	100-200	200-300	300-400	400-500	500-600
Supplier code		01019059	01019062	01019063	01019065	01019066	01019067
<b>3786</b>	<b>Each</b>	<b>230,00</b>	<b>316,00</b>	<b>330,00</b>	<b>359,00</b>	<b>431,00</b>	<b>488,00</b>

Sizes 300-400 / 400-500 / 500-600 are provided with tubular steel arc.  
 Higher capacities up to 2000mm available on request.



**3786**



HARTMETALL 1/100

**Orig. MIB - Art. 01018030**

Model for use also with LEFT hand, DIN 863, double scale.  
 Contact points in hardmetal.  
 Matt chrome plated reading knob. Increments 1/100 mm.  
 Ratchet screw, locking lever and heatproof gripping pads.  
 Supplied in case.

Capacity	mm	0-25
<b>3786L</b>	<b>Each</b>	<b>47,40</b>



**3786L**



For Left-handed HARTMETALL 1/100

**Orig. MIB**

Precision type, DIN 863.  
 Fine, flat contact tips 0.75x6.5mm on Ø 8mm rod.  
 Indicated for measurement of necks, slots, splined shafts, etc.  
 Reading parts with matt chrome finish. Division 1/100 of a mm.  
 Ratchet screw and heatproof gripping pads. Control measurements from 25mm onwards.  
 Boxed.

Capacity	mm	0-25	25-50
Supplier code		01020077	01020078
<b>3786T</b>	<b>Each</b>	<b>210,00</b>	<b>217,00</b>



**3786T**



1/100

Precision type, DIN 863.  
 Reduced Ø contact tips 2x5mm on Ø 6.5mm rod.  
 Reading parts with matt chrome finish. Division 1/100 of a mm.  
 Ratchet screw, locking lever and heatproof gripping pads. Control measurements from 25mm onwards.  
 Boxed.

Capacity	mm	0-25	25-50
Supplier code		01020075	01020076
<b>3787G</b>	<b>Each</b>	<b>104,00</b>	<b>108,00</b>



**3787G**



1/100

**EXTERNAL MICROMETERS WITH DIGITAL READING**

**Orig. MIB**

Precision model, DIN 863.  
 Hard metal contact tips.  
 Hardened and ground measuring rod.  
 Matt chrome finish graded parts.  
 Division 1/100 of mm.  
 Ratchet screw, locking lever and heatproof gripping pads. Control measurements from 25mm onwards.  
 Boxed.

Capacity	mm	0-25	25-50
Supplier code		01019001	01019002
<b>3788</b>	<b>Each</b>	<b>68,90</b>	<b>76,10</b>



**3788**



HARTMETALL 1/100

## PRECISION EXTERNAL ELECTRONIC MICROMETERS

3788T



IP54 HARTMETALL 1/1000

Orig. MIB

Easy-to-use type with excellent quality/price ratio. Precision DIN 863, for absolute and relative linear measurements.

Ratchet inserted in the drum for exact pressure of the hard metal contact tips.

Direct reading on viewer 0.001 mm.

1,5 V Battery-powered. IP 54 protection from splashing. Control measurements from 25mm onwards.

Boxed.

Capacity	mm	0-25	25-50	50-75	75-100
Supplier code		02029090	02029091	02029092	02029093
<b>3788T</b>	<b>Each</b>	<b>127,00</b>	<b>151,00</b>	<b>165,00</b>	<b>180,00</b>

3789



IP54 HARTMETALL 1/1000

Prod. SCU

DIN 863 precision model for absolute and relative linear measurements.

Ratchet inserted in the thimble for uniform pressure of hardmetal contact surfaces.

Double measuring scale: mm/inch.

Direct reading on display 0.001 mm (0.00005").

1,5 V Battery operated. IP 54 protection against splash water. Supplied in case.

Capacity	mm	0-25
<b>3789</b>	<b>Each</b>	<b>148,00</b>

3789B



IP54 HARTMETALL 1/1000

Orig. MIB

Precision type DIN 863, for absolute and relative linear measurements.

Ratchet screw for exact pressure of the hard metal contact tips.

Direct reading on viewer 0.001 mm. Locking screw and heatproof gripping pads.

1,5 V Battery-powered. IP 54 protection from splashing. Control measurements from 25mm onwards.

Boxed.

Capacity	mm	0-25	25-50	50-75	75-100
Supplier code		02030030	02030031	02030032	02030033
<b>3789B</b>	<b>Each</b>	<b>174,00</b>	<b>206,00</b>	<b>237,00</b>	<b>253,00</b>

3789C



IP65 HARTMETALL 1/1000

ABS

model of accuracy DIN 863, for absolute and relative measures.

"ABS" (ABSOLUTE VALUE).

Ratchet screw for the exact pressure of contact drills in hard metal.

Direct reading on reader 0.001 mm.

Includes lock screw.

1,5 V battery power. With IP 65 protection from splashing water, oils, powders etc. With control measures 25 mm onwards.

In slipcase.

Capacity	mm	0-25	25-50	50-75	75-100
Supplier code		02030080	02030081	02030082	02030083
<b>3789C</b>	<b>Each</b>	<b>190,00</b>	<b>227,00</b>	<b>273,00</b>	<b>316,00</b>

3789D



IP65 HARTMETALL 1/1000

ABS

model of accuracy DIN 863, for absolute and relative measures.

"ABS" (ABSOLUTE VALUE).

Ratchet screw for the exact pressure of contact drills in hard metal. With a fast forward of the stem: 2 MM for EACH TURN of the drum.

Direct reading on reader 0.001 mm.

Includes lock screw.

1,5 V battery power. With IP 65 protection from splashing water, oils, powders etc. With control measures 25 mm onwards.

In slipcase.

Capacity	mm	0-25	25-50
Supplier code		02030090	02030091
<b>3789D</b>	<b>Each</b>	<b>295,00</b>	<b>330,00</b>

3789E



IP54 HARTMETALL 1/1000

Precision type DIN 863, for absolute and relative linear and tolerance measurements.

Ratchet screw for exact pressure of the hard metal contact tips.

Dual measurement scale: millimetres and inches.

Direct reading on viewer 0.001 mm (0.00005").

Set up for data output. Large sized figures for easy, precise measurement. Automatic switch-off.

Locking lever and heatproof gripping pads.

1,5 V battery-powered. With IP54 protection against splashing water. Control measurements from 25mm onwards.

Boxed.

Capacity	mm	0-25	25-50	50-75	75-100
Supplier code		02030014	02030015	02030016	02030017
<b>3789E</b>	<b>Each</b>	<b>207,00</b>	<b>230,00</b>	<b>249,00</b>	<b>273,00</b>

**PRECISION EXTERNAL ELECTRONIC MICROMETERS**

**Orig. MIB**

Precision and wide measuring range model. Contact surfaces in hardmetal.  
Interchangeable measuring rods. Absolute and relative linear measurement function.  
Ratchet inserted in the thimble for uniform pressure of hardmetal contact surfaces.  
Direct reading on display 0.001 mm.  
1,5 V Battery operated. Setting gauge supplied in case together with the micrometer.

Capacity	mm	0-150	150-300
Supplier code		02032060	02032061
<b>3791G</b>	Each	<b>424,00</b>	<b>474,00</b>



**PRECISION EXTERNAL ELECTRONIC MICROMETERS**

**Orig. MIB**

In hardened steel.  
Suitable for calibration of micrometer for outdoor use.  
Ground and lapped ends.  
Heat insulated handles.

Overall length	mm	25	50	75	100	125	150
Parallelism precision	µm ±	2	2	2	2,5	2,5	3
Supplier code		01018050	01018051	01018052	01018053	01018054	01018055
<b>3791GB</b>	Each	<b>15,80</b>	<b>15,80</b>	<b>15,80</b>	<b>19,10</b>	<b>23,70</b>	<b>23,70</b>

Overall length	mm	175	200	225	250	275
Parallelism precision	µm ±	3	3,5	3,5	3,5	3,5
Supplier code		01018056	01018057	01018058	01018059	01018060
<b>3791GB</b>	Each	<b>23,70</b>	<b>23,70</b>	<b>31,60</b>	<b>31,60</b>	<b>31,60</b>



**SCREW-THREAD MICROMETERS**

**Orig. MIB**

Precision according to DIN 863. With advance rod for crozes and conical inserts, which are able to rotate.  
Suitable to measure external threads diameters at 60° (metric thread/UNF) and at 55° (Ww).  
Matt graduating parts. Increments in 1/100 mm.  
Sensitive screw, locking lever and athermic gripping pads.  
Supplied without crozes and conical inserts.  
Supplied in case.

Capacity	mm	0-25	25-50	50-75	75-100
Supplier code		01019080	01019081	01019082	01019083
<b>3791GF</b>	Each	<b>237,00</b>	<b>254,00</b>	<b>273,00</b>	<b>295,00</b>



Couple of crozes and conical inserts for threading at 60° (metric and UNF).  
For micrometers Art. 3791 GF.

Pitch	mm	0,4 - 0,5	0,6 - 0,9	1 - 1,75	2 - 3	3,5 - 5	5,5 - 7
Supplier code		01019084	01019085	01019086	01019087	01019088	01019089
<b>3791GL</b>	Per pair	<b>31,60</b>	<b>31,60</b>	<b>31,60</b>	<b>31,60</b>	<b>31,60</b>	<b>31,60</b>

Couple of crozes for Whitworth thread 55° and adjusting rods 25-50-75mm  
(at 60° and 55°) are supplied on request.



**PRECISION MICROMETERS FOR MEASURING GEARINGS**

**Orig. MIB**

Precision type.  
Advance rod Ø 8mm, in hardened and ground steel. Oversize discs.  
Suitable to measure thickness, width and distance of gear and tool teeth, both linear and angled.  
Matt chrome plated graduating parts. Increments in 1/100 mm. Sensitive screw and heatproof gripping pads. Setting gauge 25mm onwards. Supplied in case.

Capacity	mm	0-25	25-50	50-75	75-100
Plate Ø	mm	20	20	20	20
Supplier code		01019096	01019097	01019098	01019099
<b>3792GA</b>	Each	<b>114,00</b>	<b>132,00</b>	<b>145,00</b>	<b>171,00</b>

Available also with discs Ø 60mm on request.



### 3-POINT MICROMETERS

3792L



HARTMETALL 1/100

Orig. MIB

Precision according to DIN 863/1.

With 3-contact points in hardmetal. 60° prism. Advance rod Ø 6.5mm, in hardened and ground steel.

Suitable to measure tools with 3 cutting edges. Matt chrome plated graduated parts. Increments in 1/100 mm. Sensitive screw, locking lever and heatproof gripping pads. Supplied in case.

Capacity	mm	1-15	5-20	20-35
Supplier code		01020060	01020061	01020062
<b>3792L</b>	<b>Each</b>	<b>247,00</b>	<b>259,00</b>	<b>317,00</b>

Size 1-15mm provided with tipped contact rod, sizes 5-20mm and 20-35mm provided with flat contact rod.

### TUBE MICROMETERS

3792T



HARTMETALL 1/100

Orig. MIB - Art. 01021055

Precision according to DIN 863/1.

With contact points in hardmetal. Advance rod Ø 6.5mm, in hardened and ground steel.

Suitable to measure tube walls and curved surfaces thickness. Matt chrome plated graduated parts. Increments in 1/100 mm. Sensitive screw, locking lever and heatproof gripping pads. Supplied in case.

Capacity	mm	0-25
<b>3792T</b>	<b>Each</b>	<b>68,90</b>

### TUBE MICROMETERS

3792Z



HARTMETALL 1/1000

Orig. MIB - Art. 01019015

Model with reading comparator 1/1000.

Comparator range ± 0.04 mm. Micrometer accuracy 0.003mm, comparator accuracy 0.002mm.

Contact points in hardmetal. Advance rod Ø 6.5mm, hardened and ground steel. Matt chrome plated graduated parts. Increments in 1/100 mm. locking lever and heatproof gripping pads. Supplied in case.

Capacity	mm	0-25
<b>3792Z</b>	<b>Each</b>	<b>431,00</b>

### MICROMETERS FOR DEPTH MEASUREMENTS

3793



1/100

Orig. MIB

Reading 1/100 mm.

Hardened contact surfaces and anvil.

Ratchet screw. Matt chrome plated thimble.

Anvil length 100mm. Supplied in case.

Capacity	mm	0-100	0-200	0-300
Rods number		4	8	12
Precision	mm	0,005	0,006	0,007
Supplier code		01020055	01020056	01020057
<b>3793</b>	<b>Each</b>	<b>118,00</b>	<b>229,00</b>	<b>306,00</b>

### PRECISION MICROMETERS FOR DEPTH MEASUREMENTS

3793B



IP65 ABS 1/1000

Orig. MIB

Precision for absolute and relative linear measurements. Hardened contact surfaces and baseplate. Ratchet screw. With "ABS" (ABSolute Value) function.

Direct reading on display 0.001 mm.

Baseplate length: 100mm. 1,5 V battery operated. IP 65 protection against splash water and dust.

Supplied in case.

Capacity	mm	0-100	0-200
Rods number		4	8
Precision	mm	0,005	0,006
Supplier code		02032057	02032058
<b>3793B</b>	<b>Each</b>	<b>349,00</b>	<b>425,00</b>

**PRECISION INSIDE MICROMETERS**

**Orig. MIB**

Precision according to DIN 863/1.

Reading 1/100 mm.

Contact surfaces in hardmetal. Ratchet screw.

Matt chrome plated thimble. Supplied in case.

Capacity	mm	<b>5-30</b>	<b>25-50</b>	<b>50-75</b>	<b>75-100</b>
Supplier code		01021001	01021002	01021003	01021004
<b>3793E</b>	<b>Each</b>	<b>96,70</b>	<b>105,00</b>	<b>122,00</b>	<b>138,00</b>

Art. 3793 E 5-30 and 25-50 with reference ring.



HARTMETALL

1/100

**3793E**

**SETS OF PRECISION INSIDE MICROMETERS**

**Orig. MIB**

3-point model, in hardmetal, precision model according to DIN 863, suited to measure through and blind borings. Reading: 5/1000 mm (6 to 12mm: reading 1/1000). Matt chrome plated graduated parts. Ratchet screw (pitch 0.5mm), thimble Ø 23mm (6 to 12mm Ø 19mm). Supplied with calibration key, setting ring and extensions. Supplied in packaging.

Precision of capacity 6 to 40mm: 0,004mm

Precision of capacity 40 to 100mm: 0,005mm

Capacity	mm	<b>6-12</b>	<b>12-20</b>	<b>20-50</b>	<b>50-100</b>
Micrometres number		3	2	4	4
Rings Ø	mm	6-8-10	16	25 e 40	62 e 87
Extensions length	mm	100	150	2x150	150
Supplier code		01022070	01022071	01022074	01022075
<b>3794G</b>	<b>Each</b>	<b>1.240,00</b>	<b>667,00</b>	<b>1.610,00</b>	<b>2.120,00</b>



HARTMETALL

**3794G 20-50-100**  
5/1000

**3794G**

**PRECISION INSIDE MICROMETERS**

**Orig. MIB**

3-point model, in hardmetal, precision model according to DIN 863, suited to measure through and blind borings. Reading: 5/1000 mm (6 to 12mm: reading 1/1000). Matt chrome plated graduated parts. Ratchet screw (pitch 0.5mm), thimble Ø 23mm (6 to 12mm Ø 19mm). Supplied with calibration key and setting rings. Supplied in packaging.

Measuring range from 6 to 40mm: 0.004mm.

Measuring range from 40 to 100mm: 0.005mm.

With extensions for depth measurements.

Capacity	mm	<b>6-8</b>	<b>8-10</b>	<b>10-12</b>	<b>12-16</b>	<b>16-20</b>	<b>20-25</b>
Measuring depth	mm	55	55	55	81	81	91
Extensions length	mm	100	100	100	150	150	150
Supplier code		01022077	01022078	01022079	01022080	01022081	01022082
<b>3794GF</b>	<b>Each</b>	<b>437,00</b>	<b>437,00</b>	<b>437,00</b>	<b>336,00</b>	<b>336,00</b>	<b>431,00</b>

Capacity	mm	<b>25-30</b>	<b>30-40</b>	<b>40-50</b>	<b>50-63</b>	<b>62-75</b>	<b>75-88</b>
Measuring depth	mm	91	101	101	115	115	115
Extensions length	mm	150	150	150	150	150	150
Supplier code		01022083	01022084	01022085	01022086	01022087	01022088
<b>3794GF</b>	<b>Each</b>	<b>431,00</b>	<b>490,00</b>	<b>571,00</b>	<b>602,00</b>	<b>622,00</b>	<b>650,00</b>

Capacity	mm	<b>87-100</b>
Measuring depth	mm	115
Extensions length	mm	150
Supplier code		01022089
<b>3794GF</b>	<b>Each</b>	<b>693,00</b>



**3794GF**



HARTMETALL

5/1000

Precision according to DIN 863/1. Reading: 1/100 mm.

Convex contact surfaces, in hardened steel, ground and lapped.

Matt chrome plated finish.

Capacity	mm	<b>25-30</b>	<b>30-35</b>	<b>35-50</b>	<b>50-75</b>	<b>75-100</b>	<b>100-125</b>
Supplier code		01021010	01021011	01021012	01021013	01021014	01021015
<b>3795</b>	<b>Each</b>	<b>216,00</b>	<b>216,00</b>	<b>216,00</b>	<b>241,00</b>	<b>254,00</b>	<b>273,00</b>

Capacity	mm	<b>125-150</b>
Supplier code		01021016
<b>3795</b>	<b>Each</b>	<b>287,00</b>



**3795**



1/100

**3795F**

HARTMETALL 1/100

**Orig. MIB - Art. 01021044**

Precision according to DIN 863/1. Reading: 1/100 mm. Matt chrome plated thimble Ø 15mm. Convex contact surfaces in hardmetal. Micrometer measuring range 50 - 63mm. Reference gauge and extension. Supplied in case.

Set measuring range 50 - 150mm.

Each set consists of No.1 micrometer and No.3 extensions (13 - 25 - 50mm).

<b>3795F</b>	Per set	<b>138,00</b>
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**3795G**

HARTMETALL 1/100

**Orig. MIB - Art. 01021045**

Product description as Art. 3795F

Set measuring range 50 - 250mm.

Each set consists of 1 micrometer and 4 extensions (13 - 25 - 50 - 100mm).

<b>3795G</b>	Per set	<b>188,00</b>
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**3795GA**

HARTMETALL 1/100

**Orig. MIB - Art. 01021046**

Product description as Art. 3795F

Set measuring range 50 - 600mm.

Each set consists of 1 micrometer and 6 extensions (13 - 25 - 50 - 100 - 150 - 200mm).

<b>3795GA</b>	Per set	<b>256,00</b>
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**3795GA 3**

HARTMETALL 1/100

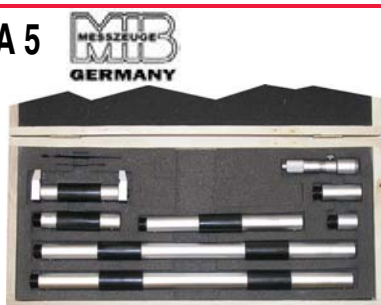
**Orig. MIB - Art. 01021049**

Product description as Art. 3795F

Set measuring range 50 - 1000mm.

Each set consists of No.1 micrometer and No.8 extensions (13 - 25 - 50 - 2x100 - 150 - 200 - 300m).

<b>3795GA 3</b>	Per set	<b>850,00</b>
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**3795GA 5**

HARTMETALL 1/100

**Orig. MIB - Art. 01021047**

Precision according to DIN 863/1. Reading: 1/100 mm. Matt chrome plated thimble Ø 15mm. Convex contact surfaces in hardmetal. Micrometer measuring range 50 - 63mm. Reference gauge and extension. Supplied in case.

Set measuring range 50 - 1300mm.

Each set consists of No. 1 micrometer and No.6 extensions (25 - 50 - 100 - 200 - 2x400mm).

<b>3795GA 5</b>	Per set	<b>1.180,00</b>
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**Prod. SCU - Orig. Helios-Preisser**

Precision according to DIN 863. Reading: 1/100 mm. Matt chrome plated thimble Ø 17mm. Convex contact surfaces in hardmetal. Micrometer measuring range 50 - 75mm. Reference gauge and extension. Supplied in case.

Set measuring range 50 - 300mm.

Each set consists of 1 micrometer and 4 extensions ( 25 -2x 50 - 100mm).

**3795GB** Per set **928,00**

**SCU**

**3795GB**



HARTMETALL 1/100

Product description as Art. 3795GB

Set measuring range 50 - 450mm.

Each set consists of 1 micrometer and 4 extensions (25 - 50 - 100 - 200mm) .

**3795GC** Per set **1.160,00**

**SCU**

**3795GC**



HARTMETALL 1/100

Product description as Art. 3795GB

Set measuring range 50 - 850mm.

Each set consists of 1 micrometer and 5 extensions (25 - 50 - 100 - 200 - 400mm) .

**3795GD** Per set **1.450,00**

**SCU**

**3795GD**



HARTMETALL 1/100

**EXTENSIONS FOR INSIDE MICROMETERS**

**Prod. SCU - Orig. Helios-Preisser**

Steel extensions, hardened and ground. With thermo-insulating covering.

For micrometers from Art. 3795 GB to 3795 GD.

Overall length	mm	25	50	100	200	400
<b>3795GP</b>	Each	130,00	132,00	147,00	180,00	235,00

**SCU**

**3795GP**



**MICROMETERS HEADS**

**Orig. MIB - Art. 01021065**

Small model.

Precision according to DIN 863. Reading: 1/100 mm. Increments in 0.5mm.

Matt chrome plated thimble Ø 9.4mm.

Rod Ø 3.5mm. Spindle Ø 6mm.

Flat contact surface, in hardened steel.

Capacity	mm	0-6,5
<b>3798GA</b>	Each	<b>37,30</b>

**MIB GERMANY**

**3798GA**



1/100

**Orig. MIB - Art. 01021066**

Product description as Art. 3798GA

Ball contact surface, in hardened steel.

Capacity	mm	0-6,5
<b>3798GB</b>	Each	<b>37,30</b>

**MIB GERMANY**

**3798GB**



1/100

**Orig. MIB - Art. 01021070**

Precision according to DIN 863. Reading: 1/100 mm. Increments in 0.5mm.

Matt chrome plated thimble Ø 18mm.

Contact face in carbide, stem Ø mm 6.5.

Spindle Ø mm 10. Ratchet screw.

Capacity	mm	0-25
<b>3799GA</b>	Each	<b>33,10</b>

**MIB GERMANY**

**3799GA**



1/100

**3799GB****1/1000****Orig. MIB - Art. 01021071**

Precision according to DIN 863. Reading: 1/100 mm. Increments in 0.5mm.

Matt chrome plated thimble Ø 18mm.

Contact face in carbide, stem Ø mm 6.5.

Spindle Ø mm 12. Ratchet screw.

Capacity	mm	0-25
<b>3799GB</b>	<b>Each</b>	<b>68,90</b>

**PRECISION MICROMETRIC HEADS****3799GE****1/1000****ABS****Orig. MIB - Art. 02031090/02031097**

Precision model for absolute and relative linear measurements.

Ratchet inserted in the thimble for uniform pressure of hardmetal contact surfaces.

Metric/inch double measuring scale. With "ABS" (ABSolute Value) function).

Direct reading on display 0.001 mm. (0.00005")

Rod Ø 6,5mm, spindle Ø 12mm. 1,5 V Battery operated.

Supplied in case.

Capacity	mm	0-25
<b>3799GE</b>	<b>Each</b>	<b>194,00</b>

**WIRE GAUGE MICROMETERS****3900G****SCU****1/100****Prod. SCU**

Sensitive screw. Increments in 1/100 mm.

Hardened contact face. Matt polished finish.

Capacity	mm	0-10
<b>3900G</b>	<b>Each</b>	<b>42,80</b>

**INDEX DISC MICROMETERS****3950G****SCU****1/100****50A****75 - 100****Prod. SCU**

Easy reading dial.

Dial reinforcement support.

Sensitive screw and indicator.

Increments in 1/100 mm.

Type		<b>50A</b>	<b>75</b>	<b>100</b>
Arch depth	mm	50	75	100
Capacity	mm	0-15	0-10	0-10
<b>3950G</b>	<b>Each</b>	<b>111,00</b>	<b>255,00</b>	<b>314,00</b>

Sizes 75 and 100 running out of stock.

**MICROMETER STANDS****3950GP****Orig. MIB - Art. 01018037**

High stability model, tilting, for bow micrometers. In steel. Central clamp screw and protection pads, opening 7-15mm.

<b>3950GP</b>	<b>Each</b>	<b>37,30</b>
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**3950GR****Orig. MIB - Art. 01018035**

High stability model, inclinable, for bow micrometers. Baseplate in heavy cast iron, lacquered. Tightening clamps with protection pads, opening 0- 20mm.

<b>3950GR</b>	<b>Each</b>	<b>33,10</b>
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**3950T****SCU****Prod. SCU**

Stable, inclinable model, for bow micrometers.

Steel body and tightening clamp.

Weight: 1.8Kg. Clamp opening 13mm.

<b>3950T</b>	<b>Each</b>	<b>77,70</b>
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Standard model, inclinable.  
Weight: 0.9Kg. Clamp opening 5-10mm.

**3951** Each **37,10**

Product running out of stock.

SCU



3951

**THICKNESS MEASURING INSTRUMENTS**

**Prod. SCU - Orig. Käfer**

Particularly suitable to measure paper, cardboard, plywood, leather, plastics, etc.  
Increments in 1/10 mm. Bow depth 15mm. Automatic recoil. Lock screw.

Pocket execution.

Useful opening	mm	10
Flat round contacts Ø	mm	6,3
<b>3951GT</b>	Each	<b>101,00</b>

SCU



3951GT

1/10

Product description as Art. 3951GT

Useful opening	mm	20
Flat round contacts Ø	mm	10
<b>3951GV</b>	Each	<b>117,00</b>

SCU



3951GV

1/10

**Prod. SCU**

Increments in 1/10 mm. Automatic recoil. Lock screw.  
Round flat contact face Ø mm 10. Pocket execution.

Arch depth	mm	20
Useful opening	mm	20
<b>3952B</b>	Each	<b>103,00</b>

SCU



3952B

1/10

Product description as Art. 3952B

Arch depth	mm	50
Useful opening	mm	20
<b>3952C</b>	Each	<b>111,00</b>

SCU



3952C

1/10

Increments in 1/10 mm, deep bow, sensitive lever.  
Automatic recoil. With dial.

Arch depth	mm	<b>200</b>	<b>300</b>
Useful opening	mm	30	30
Flat round contacts Ø	mm	16	16
<b>3952D</b>	Each	<b>206,00</b>	<b>210,00</b>

SCU



3952D

1/10

Ball contact surface Ø 12mm. Increments in 1/10 mm, deep bow, sensitive lever. Automatic recoil.  
With dial.

Arch depth	mm	300
Useful opening	mm	30
<b>3952E</b>	Each	<b>204,00</b>

SCU



3952E

1/10

**3952G 3 SCU**

1/10

**Prod. SCU - Orig. Käfer**

Professional model. Increments in 1/10 mm, sensitive lever.  
Automatic recoil. Soft touch, calibrated keys.  
Wide dial for easy reading.

Arch depth	mm	50
Useful opening	mm	20
Flat round contacts Ø	mm	10

<b>3952G 3</b>	Each	<b>210,00</b>
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**3952G 5 SCU**

1/10



Product description as Art. 3952G 3

Arch depth	mm	100
Useful opening	mm	30
Flat round contacts Ø	mm	10

<b>3952G 5</b>	Each	<b>273,00</b>
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**3952G 7 SCU****3952G 9**

1/10



Product description as Art. 3952G 3

Art.	<b>3952G 7</b>	<b>3952G 9</b>
Arch depth	mm	200 300
Useful opening	mm	30 30
Flat round contacts Ø	mm	10 10
Each	<b>313,00</b>	<b>359,00</b>

**3952GA SCU**

1/100



Increments in 1/100 mm. Suitable to rapidly and precisely measure the thickness of paper, cardboard, plastics, ferrous and non-ferrous metal, etc. Pocket execution. Constant pressure automatic lock.

Arch depth	mm	12
Useful opening	mm	8
Flat round contacts Ø	mm	6,3

<b>3952GA</b>	Each	<b>208,00</b>
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**3952GB SCU**

1/100



Product description as Art. 3952GA

Arch depth	mm	18
Useful opening	mm	10
Flat round contacts Ø	mm	6,3

<b>3952GB</b>	Each	<b>202,00</b>
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**3952GE SCU**

1/100



Product description as Art. 3952GA

Arch depth	mm	45
Useful opening	mm	10
Flat round contacts Ø	mm	6,3

<b>3952GE</b>	Each	<b>233,00</b>
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**3953G MIB GERMANY**

1/100

**Orig. MIB**

Digit reading, increments in 1/100 mm. ON/OFF toggle switch (on size 25mm. On size 15mm automatic switch-off). Button for relative and incremental measurements. Inch/metric switch conversion.

Useful opening	mm	<b>15</b>	<b>25</b>
Arch depth	mm	20	20
Flat round contacts Ø	mm	9	9

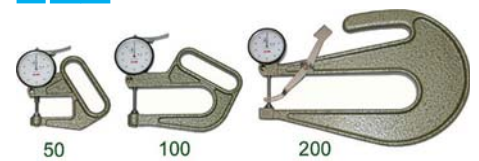
Supplier code	02027060	02027061	
<b>3953G</b>	Each	<b>144,00</b>	<b>187,00</b>

**Prod. SCU - Orig. Käfer**

Professional model, increments in 1/100 mm, sensitive lever.  
Automatic recoil. Effective opening 10mm. Wide dial for easy reading with two indicators for millimeters, 1/10 millimeters and 1/100 millimeters. Round flat contact surface Ø 10mm. Soft touch, calibrated keys.

Arch depth	mm	50	100	200
<b>3955G</b>	Each	239,00	301,00	362,00

On request also available with flat round discs Ø 20mm, 30mm, crowned or tipped discs.

**SCU**
**3955G**

**1/100**

Professional model, roller contact surface, width 8.7mm and diameter 8.4mm. Effective opening 5mm. Bow depth 50mm. Particularly suited to measure the thickness of cables, wire, bands, etc. Increments in 1/100 mm, sensitive lever and automatic recoil. Wide dial for easy reading with two indicators for millimeters, 1/10 millimeters and 1/100 millimeters.

<b>3956G</b>	Each	449,00
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**SCU**
**3956G**

**1/100**

Professional model, rollers and runners contact surface, width 8.7mm and diameter 8.4mm. Effective opening 5mm. Bow depth 50mm. Particularly suited to measure the thickness of cables, wire, bands, etc. Increments in 1/100 mm, sensitive lever and automatic recoil. Wide dial for easy reading with two indicators for millimeters, 1/10 millimeters and 1/100 millimeters.

<b>3956GA</b>	Each	449,00
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**SCU**
**3956GA**

**1/100**

Increments in 1/100 mm, with sensitive lever and automatic recoil.  
Particularly suited to measure the thickness of linings and tappets in the automotive sector.  
Lower flat basement and contact surface, ball upper contact surface.  
Bow depth 50mm, effective opening 10mm.

<b>3958</b>	Each	112,00
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**SCU**
**3958**

**1/100**

Professional model, highly precise. Increments in 1/1000 mm.  
Particularly suited to measure sheets of very thin thicknessf.  
Insulated handle to avoid hand heat influence. Controlled pressure force of approx. 2 Nm. Bow depth 30mm. Effective opening 1mm (one indicator revolution corresponds to 0.2mm). Flat round contact surface Ø 6.3mm.

<b>3959G</b>	Each	439,00
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**SCU**
**3959G**

**1/1000**

Particularly suited to measure saw teeth alternation.  
4 contact surfaces to directly show on display the position of the alternate tooth. Increments in 1/10 mm and + 5/100 mm.  
Measuring range 2mm.  
Taster diameter mm 10.

<b>3960G</b>	Each	110,00
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**SCU**
**3960G**

**1/10**
**5/100**

VISTA DA AMBO I LATI

**DIGITAL THICKNESS MEASURING INSTRUMENTS**
**3960GL***new***SCU****Prod. SCU**

Professional digital type with LCD display with figures of great height for easy reading. 2 external probes to easily reach the most difficult points. Cable length 1 meter. Body of sturdy plastic, reinforced. Equipped with plate zeroing and calibration films. Offset-Accur function for a measurement with higher precision than the standard (1% of the measured value).

Suitable for measuring insulating coatings on magnetic metals (ferrous) and insulating coatings on non-magnetic metals (non-ferrous). Built to meet ISO 2178. Power supply: 4 alkaline batteries 1.5 V AA (Art. 3600 E) provided. Minimum radius of surface for coatings for magnetic / non magnetic materials with convex shape mm 1.5 /3 and concave shape mm 25/50.

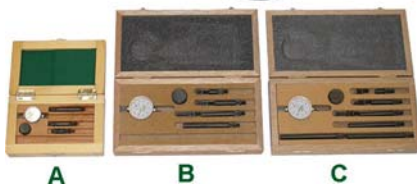
Measuring field	µm	0-1000
Standard measuring precision		5%
Offset-Accur measuring precision		1%
Base material minium thickness	mm	0,3
Minimum surface Ø	mm	6
Working temperature		0°C - 50°C
Device dimensions	mm	161x69x32h
Weight	grams	260

<b>3960GL</b>	<b>Each</b>	<b>611,00</b>
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**MEASURING GAUGES FOR CRANKSHAFT**
**3961GA****3961GB****3961GE****SCU****1/100****Prod. SCU - Orig. Helios-Preisser**

Measuring gauge suitable to check the distance between the cranks of a shaft and to check the cylinder measures. Place the measuring gauge between the two elbows and rotate the shaft to detect possible bushing misalignments.

The gauge is supplied with a special counterweight that allows positioning stability during measurement. Supplied with reading comparator 1/100, counterweight, extension rods and caps. In case.



Art.

Capacity

	<b>3961GA</b>	<b>3961GB</b>	<b>3961GE</b>
mm	45-150	60-300	60-500
<b>Each</b>	<b>877,00</b>	<b>791,00</b>	<b>921,00</b>

**TIRE TREAD FEDER GAUGES**
**3961GT****SCU****1/10****Prod. SCU**

In brass, 20mm symmetric baseplate. End tipped rod. Vernier scale 1/10 mm. Particularly suitable for tyre track measurements. Measuring range 30mm, length 100mm.

<b>3961GT</b>	<b>Each</b>	<b>6,10</b>
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**3961GV****SCU****1/10**

In brass, 40mm symmetric baseplate. End tipped rod. Vernier scale 1/10 mm. Particularly suitable for tyre track measurements. Measuring range 50mm, length 105mm.

<b>3961GV</b>	<b>Each</b>	<b>8,46</b>
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**3961GZ***new*

**MIB**  
GERMANY
**1/100****Orig. MIB - Art. 01007019**

Digital reading, division 1/100 mm, with 60 mm symmetrical base. Pole with flat end. On/off button. Reset button for relative and compared measurements. Mm/inch conversion key.

Powered by a long life 3 V ecological lithium battery. Particularly suitable for the measurement of TIRE treads. Measuring capacity 25 mm. Length mm 112.4.



<b>3961GZ</b>	<b>Each</b>	<b>21,60</b>
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**BORE GAUGES**
**3962G****SCU****1/10****Prod. SCU**

Model with flat-conical section. In hardened and ground steel. Graduation 1/10 mm.

For bores Ø	mm	<b>1-15</b>	<b>15-30</b>
<b>3962G</b>	<b>Each</b>	<b>42,10</b>	<b>48,10</b>

Model with round-conical section.

In hardened and ground steel. Graduation 1/10 mm.

For bores Ø	mm	1-6	4-15	15-30
<b>3963G</b>	Each	156,00	205,00	449,00

SCU



**3963G**

1/10

Model with slider and round-conical rod.

In hardened and ground steel. Vernier scale 1/100 mm with protection cap.

For bores Ø	mm	0,10-3	0,10-5
<b>3964G</b>	Each	64,90	87,10

SCU



**3964G**

1/100

Body with lock screws.

With 20 points in hardened and ground steel size from 0.45 to 1.5mm on plastic support.

Suitable for carburator holes.

<b>3965G</b>	Each	9,00
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SCU



**3965G**  
**3965GA**

Body with lock screws.

With 16 points in hardened and ground steel size from 1.5 to 3mm on plastic support.

Suitable for carburator holes.

<b>3965GA</b>	Each	9,00
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**MILLIMETER TWIST DRILL GAUGES**

Prod. SCU

Millimeter twist drill gauge, hardened.

Capacity	mm	0,1-10	0,5-10	10-20
Progression	mm	0,1	0,5	0,5
Bores	No	100	20	21
<b>3968G</b>	Each	170,00	70,30	113,00

SCU



**3968G**

**SCREW PITCH GAUGES**

Prod. SCU

With lock screw.

Double type for Whitworth, ISO Metric and Whitworth Gas threads. 58 blades.

<b>3969G</b>	Each	8,08
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SCU



**3969G**

M BSW BSP

Product description as Art. 3969G

Double type for Whitworth and ISO Metric threads. 52 blades.

<b>3970G</b>	Each	6,10
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SCU



**3970G**

M BSW

Product description as Art. 3969G

Single type for Whitworth threads. 28 blades.

<b>3971G</b>	Each	3,88
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SCU



**3971G**

BSW

Product description as Art. 3969G

Single type for ISO Metric threads. 24 blades.

<b>3972G</b>	Each	3,88
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SCU



**3972G**

M

Product description as Art. 3969G

Single type for GAS threads at 55°. 6 blades.

<b>3972GE</b>	Each	3,16
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SCU BSP



**3972GE**

**3972GF****SCU****UNC**

Product description as Art. 3969G  
Single type for UNC threads at 60°. 22 blades.

<b>3972GF</b>	Each	<b>5,06</b>
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**3972GL****SCU****UNF**

Product description as Art. 3969G  
Single type for UNF threads at 60°. 16 blades.

<b>3972GL</b>	Each	<b>4,84</b>
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### PRECIOUS RADIUS GAUGES

**3973GA****SCU****3973GB****3973GC****3973GE****3973GL****3973GP****Prod. SCU**

Suited to check the radius of round, convex or concave surfaces.  
With lock screws.

34 blades for 1-7 radii. In steel.

<b>3973GA</b>	Each	<b>12,80</b>
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Product description as Art. 3973GA

32 blades for 7.5-15 radii. In steel.

<b>3973GB</b>	Each	<b>14,10</b>
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Product description as Art. 3973GA

30 blades for 15.5-25 radii. In steel.

<b>3973GC</b>	Each	<b>14,10</b>
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Product description as Art. 3973GA

34 blades for 1-7 radii. In stainless steel.

<b>3973GE</b>	Each	<b>21,90</b>
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Product description as Art. 3973GA

32 blades for 7.5-15 radii. In stainless steel.

<b>3973GL</b>	Each	<b>24,50</b>
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Product description as Art. 3973GA

30 blades for 15.5-25 radii. In stainless steel.

<b>3973GP</b>	Each	<b>24,50</b>
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### THREADING TOOL GAUGES

**3974G**

**55°****Orig. MIB - Art. 08083000**

For Whitworth pitch threads at 55°.

<b>3974G</b>	Each	<b>4,46</b>
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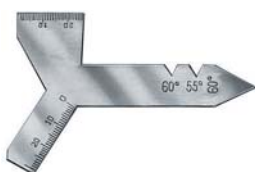
**3975G**

**60°****Orig. MIB - Art. 08083001**

For Metric pitch threads at 60°.

<b>3975G</b>	Each	<b>4,46</b>
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### UNIVERSAL GRINDING GAUGES

**3975GA****SCU****Prod. SCU**

Used to measure and check twist drill angles of 90° and 118° and to measure Whitworth and metric pitch threads.

<b>3975GA</b>	Each	<b>4,66</b>
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### COMBINED TURNING AND THREAD GAUGES

**3976G****SCU****Prod. SCU**

Type for trapezoidal theading from 2-to12mm and 30°.

<b>3976G</b>	Each	<b>3,98</b>
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Type for Whitworth, metric, trapezoidal threads 2-12mm and with notches from 40° to 80° for cutting tools.

**3977G** Each **10,50**



**3977G**

Type for threads angled at 45°-53.8°-55°-60°-70° and for square threads 2-8 coil/inchs.

**3978G** Each **3,98**



**3978G**

Type for Whitworth, metric, trapezoidal threads 2-12mm and for square threads 2-8 coil/inch.

**3978GA** Each **10,30**



**3978GA**

Orig. MIB - Art. 08084025

Type for Whitworth, metric, trapezoidal threads 2-12mm and with notches from 40°-to 80° for cutting tools. Adjustable rod to fix and check 0° - 30° angles. Thickness 2mm.

**3979G** Each **17,30**



**3979G**

**THREAD RULES**

Orig. MIB - Art. 08082010

With slider, for threading parameters concerning ISO Metric, Whitworth and Gas cylindric thread.

**3980GA** Each **23,10**



**3980GA**

**THREAD INDICATORS**

Orig. MIB - Art. 08082015

Handy plastic box, dust-proof, shock-resistant and waterproof, with special roller used to state the most important parameters of following threads: ISO Metric - Ww - GAS - BSF - PG - BA UNC - UNF - UNEF. Dimensions: 110x60x30mm.

**3980GB** Each **101,00**



**3980GB**

**ISO TOLERANCE INDICATORS**

Orig. MIB - Art. 08082016

Handy plastic box, dust-proof, shock-resistant and waterproof, with special roller used to state tolerance of couplings according to the directive ISO R286 - 1962 for nominal values up to 500mm. Dimensions: 110x60x30mm.

**3980GE** Each **101,00**



**3980GE**

**ISO - TOLERANCE CONVERTORS FROM MM TO INCHES**

Orig. MIB - Art. 08082017

Handy plastic box, dust-proof, shock-resistant and waterproof, provided with special roller used for coupling tolerance parameter conversion from mm to inch in the different standards (American, English), according to ISO recommendations. Dimensions 110x60x30mm.

**3980GL** Each **101,00**



**3980GL**

**LATHE TOOL GAUGES**
**3981GA SCU**

**Prod. SCU**

With notches to set lathe cutting tool with cutting edge in hardmetal.

**3981GA** Each **9,50**
**3981GB SCU**


With notches to set lathe cutting tool with cutting edge in HSS.

**3981GB** Each **9,50**
**TWIST DRILL GRINDING GAUGES**
**3983G SCU**

**Prod. SCU**

Suited to measure and control twist drill cutting angle. Angle at 118°, for iron and steel.

**3983G** Each **2,12**
**UNIVERSAL ANGLE GAUGES**
**3984G SCU**

**Prod. SCU**

Suited to measure and control the cutting angle of tips and cutting tools.

Graduation 30° to 160°.

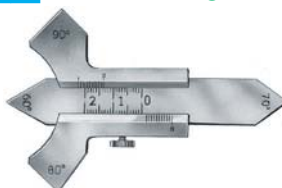
Graduated base up to 35mm in hardened and ground steel.

**3984G** Each **10,30**
**PRECISION GRINDING TOOL GAUGES**
**3985G SCU**
**INOX**

**Prod. SCU**

In stainless steel. For cutting angle checking and setting up of lathe cutting tools, millers, planers and other machine tools.

Absolutely necessary for the workshop engineer. Supplied in wooden case.

**3985G** Each **182,00**
**WELDING SEAM GAUGES**
**3987G SCU**
**INOX**

**Prod. SCU**

Suited to measure flat and angled seams.

Precise execution, points at 60°, 70°, 80°, 90°. In stainless steel, chromium plated. Measuring range up to 20mm.

**3987G** Each **26,60**
**3987GE**
**MIB**  
**MESSZERGE**  
**GERMANY**

**Orig. Mib - Art. 08085010**

Suitable for measuring 90° weld beads.

In special steel, with retaining ring.

Provided with No.12 blades 3 - 3.5 - 4 - 4.5 - 5 - 5.5 - 6 - 6.5 - 7 - 8 - 10 - 12mm.

**3987GE** Each **18,70**

**THICKNESS GAUGES**
**Prod. SCU**

Double blade model. Blades in calibrated steel, hardened and ground.  
Suitable for tappet adjustment.

Overall length 130mm. Length of each blade 35mm.

Blade width 13mm. Handle in synthetic material.

Size		1	2	3	4	5	6
For thicknesses	mm	0,10-0,15	0,10-0,20	0,15-0,25	0,20-0,25	0,30-0,40	0,45-0,50
<b>3989G</b>	Each	1,58	1,58	1,58	1,58	1,58	1,58


**3989G**


Precision according to DIN 2275. In special steel, hardened and ground. Lock screw.

Conic-shaped blades, length 100mm.

With 13 blades, dimensions: 0,05-0,10-0,15-0,20-0,25-0,30-0,40-0,50-0,60-0,70-0,80-0,90-1,00mm.

**3989GS** Each **4,74**


**3989GS**


Product description as Art. 3989GS

With 20 blades, dimensions: 0,05-0,10-0,15-0,20-0,25-0,30-0,35-0,40-0,45-0,50-0,55-0,60-0,65-0,70-0,75-0,80-0,85-0,90-0,95-1,00mm.

**3989GT** Each **7,96**


**3989GT**


Hardened and ground. Lock screw.

Conic-shaped blades, length 100mm.

With 8 blades, dimensions: 0,05-0,10-0,15-0,20-0,25-0,30-0,40-0,50mm.

In steel.

**3992GA** Each **2,22**


**3992GA**


Product description as Art. 3992GA

With 13 blades, dimensions: 0,05-0,10-0,15-0,20-0,25-0,30-0,40-0,50-0,60-0,70-0,80-0,90-1,00mm.

In steel.

**3992GB** Each **3,06**


**3992GB**


Product description as Art. 3992GA

With 20 blades, dimensions: 0,05-0,10-0,15-0,20-0,25-0,30-0,35-0,40-0,45-0,50-0,55-0,60-0,65-0,70-0,75-0,80-0,85-0,90-0,95-1,00mm.

In steel.

**3992GC** Each **5,06**


**3992GC**


Product description as Art. 3992GA

With 32 blades, dimensions 0,03-0,04-0,05-0,06-0,07-0,08-0,09-0,10-0,12-0,15-0,18-0,20-0,23-0,25-0,28-0,30-0,32-0,35-0,38-0,40-0,45-0,50-0,55-0,60-0,65-0,70-0,75-0,80-0,85-0,90-0,95-1,00mm.

In steel.

**3992GE** Each **13,10**


**3992GE**


Product description as Art. 3992GA

With 13 blades, dimensions: 0,05-0,10-0,15-0,20-0,25-0,30-0,40-0,50-0,60-0,70-0,80-0,90-1,00mm.

In stainless steel.

**3992GL** Each **9,44**


**3992GL**

**INOX**

**3992GP**

Product description as Art. 3992GA

With 20 blades, dimensions 0,05-0,10-0,15-0,20-0,25-0,30-0,35-0,40-0,45-0,50-0,55-0,60-0,65-0,70-0,75-0,80-0,85-0,90-0,95-1,00mm.

In stainless steel.

<b>3992GP</b>	Each	<b>13,10</b>
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**3992GT**

Product description as Art. 3992GA

With 20 blades, dimensions: 0,05-0,10-0,15-0,20-0,25-0,30-0,35-0,40-0,45-0,50-0,55-0,60-0,65-0,70-0,75-0,80-0,85-0,90-0,95-1,00mm.

In amagnetic brass.

<b>3992GT</b>	Each	<b>17,30</b>
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**3993GZ**  
**3994G**

Type with parallel blades, length 200mm, width 10mm.

With 13 blades, dimensions: 0,05-0,10-0,15-0,20-0,25-0,30-0,40-0,50-0,60-0,70 0,80-0,90-1,00mm.

In steel.

<b>3993GZ</b>	Each	<b>10,10</b>
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Type with parallel blades, length 200mm, width 13mm.

With 13 blades, dimensions 0,05-0,10-0,15-0,20-0,25-0,30-0,40-0,50-0,60-0,70 0,80-0,90-1,00mm.

In steel.

<b>3994G</b>	Each	<b>10,10</b>
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**3994GA**

Product description as Art. 3994G

With 20 blades, dimensions: 0,05-0,10-0,15-0,20-0,25-0,30-0,35-0,40-0,45-0,50-0,55-0,60-0,65-0,70-0,75-0,80-0,85-0,90-0,95-1,00mm.

In steel.

<b>3994GA</b>	Each	<b>16,10</b>
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**3994GB**

Type with parallel blades, length 300mm, width 13mm.

With 13 blades, dimensions: 0,05-0,10-0,15-0,20-0,25-0,30-0,40-0,50-0,60-0,70 0,80-0,90-1,00mm.

In steel.

<b>3994GB</b>	Each	<b>13,70</b>
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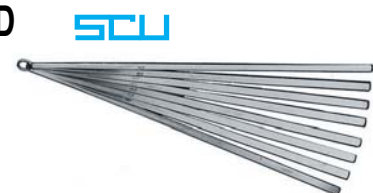
**3994GC**

Product description as Art. 3994GB

With 20 blades, dimenions: 0,05-0,10-0,15-0,20-0,25-0,30-0,35-0,40-0,45-0,50-0,55-0,60-0,65-0,70-0,75-0,80-0,85-0,90-0,95-1,00mm.

In steel.

<b>3994GC</b>	Each	<b>20,70</b>
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**3994GD**

Type with parallel blades, length 500mm, width 13mm.

With 13 blades, dimensions: 0,05-0,10-0,15-0,20-0,25-0,30-0,40-0,50-0,60-0,70 0,80-0,90-1,00mm.

In steel.

<b>3994GD</b>	Each	<b>20,50</b>
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Product description as Art. 3994GD

With 20 blades, dimensions: 0,05-0,10-0,15-0,20-0,25-0,30-0,35-0,40-0,45-0,50-0,55-0,60-0,65-0,70-0,75-0,80-0,85-0,90-0,95-1,00mm.

In steel.

**3994GE** Each **29,40**



**SETS OF THICKNESS GAUGES**

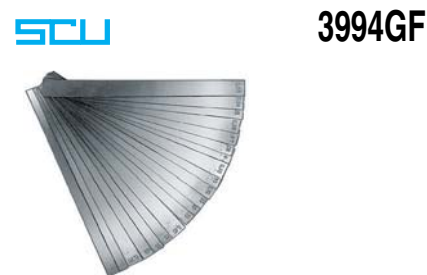
**Prod. SCU**

Blades in Swedish hardened steel. Length 150mm.

Assorted set supplied in bag, with 19 interchangeable blades, dimensions: 0.05-0.08-0.10-0.12-0.15-0.18-0.20-0.25-0.30-0.35-0.40-0.45-0.50-0.55-0.60-0.75-0.80-0.90-1.00mm.

With blade-holder.

**3994GF** Each **33,40**



**CALIBRATED SHIMSTEEL**

**Prod. SCU**

Very strict tolerance. Particularly suitable for shimming of several equipment, tools, dies.

Tolerance registration. Workpiece positioning on machine tools. Leveling in mechanical component production. Height compensation. Check of dimensions. Pressure roller adjustment in typographic industry, etc..

Carbon steel sheets. Dimensions: 25x300mm.

Supplied in 10-sheets packing units

Thickness	mm	0,03	0,05	0,10	0,15	0,20	0,30	0,40	
<b>3994GL</b>	<b>Per pack</b>	<b>33,20</b>	<b>25,90</b>	<b>21,70</b>	<b>22,60</b>	<b>22,30</b>	<b>23,10</b>	<b>25,90</b>	
Thickness	mm	0,50	1,00						
<b>3994GL</b>	<b>Per pack</b>	<b>27,80</b>	<b>35,40</b>						



Product description as Art. 3994GL

Carbon steel sheets. Dimensions: 50x300mm.

Supplied in 10-sheets packing units

Thickness	mm	0,01	0,02	0,03	0,05	0,10	0,15	0,20	0,25
<b>3994GM</b>	<b>Per pack</b>	<b>109,00</b>	<b>61,50</b>	<b>45,10</b>	<b>38,10</b>	<b>30,30</b>	<b>31,60</b>	<b>31,10</b>	<b>32,10</b>
Thickness	mm	0,30	0,35	0,40	0,50	0,60	0,70	0,80	1,00
<b>3994GM</b>	<b>Per pack</b>	<b>32,10</b>	<b>35,20</b>	<b>35,20</b>	<b>35,20</b>	<b>56,20</b>	<b>56,90</b>	<b>56,90</b>	<b>56,90</b>

Product description as Art. 3994GL

Stainless steel sheets. Dimensions: 100x500mm.

Supplied in 5-sheets packing units

Thickness	mm	0,01	0,02	0,03	0,04	0,05	0,10	0,15	0,20	
<b>3994GR</b>	<b>Per pack</b>	<b>130,00</b>	<b>73,40</b>	<b>62,80</b>	<b>57,80</b>	<b>51,30</b>	<b>51,30</b>	<b>48,50</b>	<b>60,60</b>	
Thickness	mm	0,25	0,30	0,35	0,40	0,45	0,50	1,00		
<b>3994GR</b>	<b>Per pack</b>	<b>63,90</b>	<b>60,60</b>	<b>73,90</b>	<b>70,10</b>	<b>84,50</b>	<b>80,70</b>	<b>137,00</b>		



Product description as Art. 3994GL

Stainless steel sheets. Dimensions: 150x500mm.

Supplied in 5-sheets packing units

Thickness	mm	0,025	0,05	0,075	0,10	0,15	0,20	0,25	0,30
<b>3994GS</b>	<b>Per pack</b>	<b>103,00</b>	<b>78,80</b>	<b>78,80</b>	<b>74,30</b>	<b>75,70</b>	<b>93,50</b>	<b>97,60</b>	<b>93,50</b>
Thickness	mm	0,40	0,50	1,00					
<b>3994GS</b>	<b>Per pack</b>	<b>106,00</b>	<b>123,00</b>	<b>219,00</b>					



Product description as Art. 3994GL

Brass sheets. Dimensions: 150x500mm.

Supplied in 5-sheets packing units

Thickness	mm	0,025	0,05	0,075	0,10	0,15	0,20	0,25	
<b>3994GT</b>	<b>Per pack</b>	<b>56,20</b>	<b>59,90</b>	<b>66,10</b>	<b>75,10</b>	<b>77,50</b>	<b>81,80</b>	<b>91,10</b>	
Thickness	mm	0,30	0,40	0,50	1,00				
<b>3994GT</b>	<b>Per pack</b>	<b>92,60</b>	<b>99,20</b>	<b>115,00</b>	<b>219,00</b>				



**SETS OF CALIBRATED SHIMSTEEL**

**3994GVE**

**SCU**



**Prod. SCU**

Assorted set supplied in box. One sheet per thickness.

With 11 sheets Art. 3994 GM 0,02-0,03-0,05-0,10-0,15-0,20-0,25-0,30-0,40-0,50-1,00mm.

**3994GVE** Each **35,40**

**3994GVL**

**SCU**

**INOX**



Product description as Art. 3994GVE

With 11 sheets Art. 3994 GR 0,02-0,05-0,10-0,15-0,20-0,25-0,30-0,35-0,40-0,45-0,50mm.

**3994GVL** Each **132,00**

**3994GVP**

**SCU**

**INOX**



Product description as Art. 3994GVE

With 10 sheets Art. 3994 GS 0,025-0,05-0,075-0,10-0,15-0,20-0,25-0,30-0,40-0,50mm.

**3994GVP** Each **187,00**

**3994GVR**

**SCU**

**BRASS**



Product description as Art. 3994GVE

10 sheets Art. 3994 GT 0,025-0,05-0,075-0,10-0,15-0,20-0,25-0,30-0,40-0,50mm.

**3994GVR** Each **219,00**

**THICKNESS-GAUGE BANDS**

**3995GA**

**SCU**



**Prod. SCU**

Very strict tolerance. Particularly suitable for shimming of several equipment, tools, dies.

Tolerance registration.

Workpiece positioning on machine tools. Leveling in mechanical component production. Height compensation. Check of dimensions.

Pressure roller adjustment in typographic industry, etc.

Bands length 5m..

Carbon steel bands. Width 12.7mm.

Thickness	mm	0,01	0,02	0,03	0,04	0,05	0,06	0,07	0,08
<b>3995GA</b>	Per pack	56,10	25,90	12,20	12,20	10,10	12,20	12,20	12,20
Thickness	mm	0,09	0,10	0,12	0,15	0,18	0,20	0,25	0,30
<b>3995GA</b>	Per pack	12,20	10,10	10,10	10,10	10,10	10,10	10,10	10,10
Thickness	mm	0,35	0,40	0,45	0,50	0,55	0,60	0,65	0,70
<b>3995GA</b>	Per pack	10,10	10,10	10,10	10,10	13,70	13,70	13,70	13,70
Thickness	mm	0,80	0,85	0,90	0,95	1,00			
<b>3995GA</b>	Per pack	13,70	13,70	13,70	13,70	13,70			

**3995GL**

**SCU**

**INOX**



Product description as Art. 3995GA

Stainless steel bands. Width 12.7mm.

Thickness	mm	0,01	0,02	0,03	0,05	0,10	0,15	0,20
<b>3995GL</b>	Per pack	71,80	35,90	25,90	20,10	20,10	23,10	23,10
Thickness	mm	0,25	0,30	0,40	0,50	1,00		
<b>3995GL</b>	Per pack	28,70	28,70	30,20	31,60	64,30		

**3995GP**

**SCU**



Blade holder for Art. 3995 GA - 3995 GL.

**3995GP** Each **3,60**

**3997G**

**SCU**



Product description as Art. 3995GA

Carbon steel bands. Width 25mm.

Thickness	mm	0,01	0,02	0,03	0,04	0,05	0,06	0,07
<b>3997G</b>	Per pack	112,00	62,30	44,70	44,40	38,40	30,50	30,50
Thickness	mm	0,08	0,09	0,10	0,15	0,20	0,25	0,30
<b>3997G</b>	Per pack	30,50	30,50	30,50	31,40	31,40	32,10	31,60
Thickness	mm	0,40	0,50	0,60	0,70	0,80	0,90	1,00
<b>3997G</b>	Per pack	35,20	36,80	50,10	54,20	55,80	55,80	55,30

Product description as Art. 3995GA  
Carbon steel bands. Width 50mm.

Thickness	mm	0,03	0,04	0,05	0,06	0,07	0,08	0,09
<b>4000G</b>	Per pack	65,10	63,90	59,90	44,70	44,70	44,70	44,70
Thickness	mm	0,10	0,15	0,20	0,25	0,30	0,35	0,40
<b>4000G</b>	Per pack	44,70	45,90	45,20	46,50	45,90	50,80	50,80
Thickness	mm	0,45	0,50	0,60	0,70	0,80	0,90	1,00
<b>4000G</b>	Per pack	50,80	50,80	80,70	80,70	81,40	81,40	81,40

SCU

4000G



Product description as Art. 3995GA  
Stainless steel bands. Width 100mm.

Thickness	mm	0,01	0,02	0,03	0,05	0,10	0,15	0,20
<b>4001G</b>	Per pack	219,00	142,00	113,00	96,10	91,10	91,10	112,00
Thickness	mm	0,25	0,30	0,35	0,40	0,45	0,50	0,60
<b>4001G</b>	Per pack	118,00	112,00	137,00	131,00	155,00	150,00	199,00
Thickness	mm	0,70	0,80	0,90	1,00			
<b>4001G</b>	Per pack	225,00	241,00	244,00	251,00			

SCU

INOX

4001G



Product description as Art. 3995GA  
Stainless steel bands. Width 150mm.

Thickness	mm	0,025	0,05	0,075	0,10	0,15	0,20	0,25
<b>4001GE</b>	Per pack	185,00	146,00	145,00	134,00	136,00	168,00	175,00
Thickness	mm	0,30	0,40	0,50	1,00			
<b>4001GE</b>	Per pack	168,00	196,00	205,00	431,00			

SCU

INOX

4001GE



Product description as Art. 3995GA  
Brass bands. Width 150mm.

Thickness	mm	0,025	0,05	0,075	0,10	0,15	0,20	0,25
<b>4002G</b>	Per pack	75,70	85,80	93,50	103,00	121,00	142,00	156,00
Thickness	mm	0,30	0,40	0,50	1,00			
<b>4002G</b>	Per pack	159,00	176,00	194,00	411,00			

SCU

BRASS

4002G



**GONIOMETERS**

**Prod. SCU**

In hardened and ground stainless steel. Easy and accurate graduation reading. Indelible laser marked degree increments.

Ring nut locking goniometer arm. Matt chrome finish.

In steel.

Arch Ø (mm)	mm	80	120	150	200	250	300
Rod length	mm	120	150	200	300	390	465
<b>4020B</b>	Each	19,40	21,10	26,50	31,70	63,40	95,10

SCU

4020B



In hardened and ground stainless steel. Easy and accurate graduation reading.

Indelible mechanical marked degree increments.

Goniometer arm screw lock. Matt chrome finish.

Precision model in stainless steel.

Arch Ø (mm)	mm	80	120	150	200
Rod length	mm	120	150	200	300
<b>4020GA</b>	Each	53,30	64,50	72,10	102,00

SCU

INOX

4020GA



**UNIVERSAL GONIOMETERS**

**4022B**

**SCU**



**Prod. SCU**

In hardened and ground stainless steel. Easy and accurate graduation reading. Indelible laser marked degree increments.

Ring nut locking goniometer arm. Matt chrome finish.

Rule with through slot.

Arch Ø (mm)	mm	120	150	200	250	300
Rod length	mm	240	300	400	500	600
<b>4022B</b>	<b>Each</b>	<b>30,70</b>	<b>37,10</b>	<b>44,10</b>	<b>84,50</b>	<b>120,00</b>

**4022G**

**SCU**



In hardened and ground stainless steel. Easy and accurate graduation reading.

Indelible mechanical marked degree increments.

Goniometer arm screw lock. Matt chrome finish.

Precision model with non-through slot.

Arch Ø (mm)	mm	100	150	200	250	300
Rod length	mm	150	300	400	500	600
<b>4022G</b>	<b>Each</b>	<b>38,70</b>	<b>45,40</b>	<b>52,90</b>	<b>72,40</b>	<b>93,40</b>

**UNIVERSAL BEVEL PROTRACTORS**

**4026GB**

**SCU**

**INOX**



**1/12°**

**Prod. SCU**

In stainless steel, hardened and ground. 360° scale, four scale reads 0° to 90°.

Easy and accurate graduation reading. Vernier scale in 1/12 degree increment.

Sliding rod length	mm	300
<b>4026GB</b>	<b>Each</b>	<b>75,70</b>

**BEVEL PROTRACTORS**

**4028**

**SCU**

**INOX**



**1/12°**

**Prod. SCU**

Made from stainless steel, hardened and ground. Easy reading thanks to the magnifying lens.

Matt 360° chrome plated scale divided into four sections from 0° to 90°. 1/12 degree nonius, parallax-free readings. Fine adjustment using a micrometer screw. With supplementary adjustable square and 150 - 200 - 300mm sliding rules.

Boxed.

<b>4028</b>	<b>Each</b>	<b>89,30</b>
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**4028G**  
**4028GA**  
**4028GB**

**SCU**

**INOX**



**1/12°**

High-precision execution.

In stainless steel, hardened and ground.

Panoramic magnifier, 360° matt chrome plated, four 0° to 90° reading graduation. Vernier scale in 1/12 degree increments without parallax errors. Fine adjustment through micrometer screw.

Supplied in case.

Art.

	mm	<b>4028G</b>	<b>4028GA</b>	<b>4028GB</b>
Sliding rod length		150	300	500
<b>Each</b>		<b>242,00</b>	<b>259,00</b>	<b>312,00</b>

The electronic digital version is available on request.

**BEVEL PROTRACTORS WITH DIAL INDICATOR**

**4031**

**MIB**  
**GERMANY**

**INOX**



**1/12°**

**Orig. MIB - Art. 05060012**

In stainless steel, hardened and ground.

Dial indicator. Four 0° to 90° reading graduation.

Vernier scale in 1/12 degree increments. Supplied in case.

Sliding rod length	mm	300
<b>4031</b>	<b>Each</b>	<b>137,00</b>

**PERIMETER SPECIAL STEEL MEASUREMENTS**

**4036G**

**MIB**  
**GERMANY**



**1/10**

**Orig. MIB - Art. 07074065**

For direct measuring of perimeters and diameters.

Vernier scale reading 0.1 mm. Precision according to DIN 2768 m.

In special steel, flexible.

Size		<b>6</b>
Circumference capacity	mm	5960-7230
Capacity Ø	mm	1900-2300
<b>4036G</b>	<b>Each</b>	<b>244,00</b>

Product running out of stock.



**Orig. Richter**

Product description as Art. 4036G

Big capacity. In stainless steel, flexible.

(Size 1 Orig. MIB - Art. 07074070)

Size		1	2	3	4	5
Circumference capacity	mm	60-950	60-2200	60-3780	60-4720	60-5980
Capacity Ø	mm	20-300	20-700	20-1200	20-1500	20-1900
<b>4037G</b>	<b>Each</b>	<b>93,30</b>	<b>115,00</b>	<b>121,00</b>	<b>140,00</b>	<b>146,00</b>
Size		6	7	8	9	
Circumference capacity	mm	60-7540	60-8500	60-9760	60-11310	
Capacity Ø	mm	20-2400	20-2700	20-3100	20-3600	
<b>4037G</b>	<b>Each</b>	<b>153,00</b>	<b>172,00</b>	<b>178,00</b>	<b>184,00</b>	



**INOX**

**4037G**



**1/10**

**TAPES WITH GRADUATION**

**Orig. Richter - Art. SK527Ga-SK527GSa**

In yellow enamelled steel, graduation in mm.

Left-to-right reading, width and thickness 13x0.2mm.

Without adhesive.

Belt length	mm	2000	3000	5000
<b>4038A</b>	<b>Each</b>	<b>9,66</b>	<b>14,50</b>	<b>20,30</b>



**4038A**



Product description as Art. 4038A

With adhesive.

Belt length	mm	2000	3000	5000
<b>4038B</b>	<b>Each</b>	<b>14,60</b>	<b>21,80</b>	<b>32,40</b>



**4038B**



**Orig. Richter - Art. SK725Ga**

In yellow enamelled steel, graduation in mm.

Left-to-right reading, width and thickness 13x0.2mm.

Without adhesive.

Belt length	mm	2000	3000	5000
<b>4038E</b>	<b>Each</b>	<b>11,60</b>	<b>17,50</b>	<b>24,40</b>



**4038E**



**Orig. Richter - Art. SK725GSa**

Product description as Art. 4038E

With adhesive.

Belt length	mm	2000	3000	5000
<b>4038F</b>	<b>Each</b>	<b>16,50</b>	<b>24,40</b>	<b>36,50</b>



**4038F**



**FLEXIBLE STEEL RULES**

**Prod. SCU**

In stainless steel. Graduated on both sides.

Left-to-right reading.

mm/inch graduation.

Overall length	mm	300	500	1000
Width x thickness	mm	13x0,5	20x0,5	25x0,5
<b>4040B</b>	<b>Each</b>	<b>2,74</b>	<b>10,70</b>	<b>25,70</b>

**SCU**

**INOX**

**4040B**



Made from stainless steel.

Precision machined.

With both edges graded. Reading from left to right. Precision DIN 866 B.

mm/1/2mm scale on one side, mm/mm scale on the other side (except type 500 which has mm/1/2mm scale on one side only).

Type		150	200	250	300	500	500A	1000
Overall length	mm	150	200	250	300	500	500	1000
Width x thickness	mm	13x0,5	13x0,5	13x0,5	13x0,5	13x0,5	20x0,5	25x0,5
<b>4040G</b>	<b>Each</b>	<b>1,86</b>	<b>2,22</b>	<b>2,40</b>	<b>3,08</b>	<b>26,80</b>	<b>21,30</b>	<b>22,60</b>

**SCU**

**INOX**

**4040G**



In stainless steel.

Satin accurate finish.

Graduated on both sides. Left-to-right reading. Precision according to DIN 866 B.

mm/mm scale on one side.

Type		500	500A
Overall length	mm	500	500
Width x thickness	mm	13x0,5	20x0,5
<b>4041G</b>	<b>Each</b>	<b>26,80</b>	<b>22,50</b>

**SCU**

**INOX**

**4041G**



Size 500A running out of stock.

**SELF-ADHESIVE STEEL RULES**
**4041GL**    **SCU**    **INOX**

**Prod. SCU**

Self-adhesive. In stainless steel.

Satin accurate finish with protective film.

Graduated on both sides. Left-to-right reading. Precision according to DIN 866 B. mm/1/2 mm graduation.

Overall length	mm	<b>150</b>	<b>200</b>	<b>300</b>	<b>500</b>	<b>1000</b>
Width x thickness	mm	13x0,3	13x0,3	13x0,3	13x0,3	18x0,5
<b>4041GL</b>	<b>Each</b>	<b>10,30</b>	<b>11,90</b>	<b>16,40</b>	<b>29,10</b>	<b>102,00</b>

**4041GP**    **SCU**    **INOX**


Product description as Art. 4041GL

mm/mm graduation.

Overall length	mm	<b>150</b>	<b>200</b>	<b>300</b>	<b>500</b>	<b>1000</b>
Width x thickness	mm	13x0,3	13x0,3	13x0,3	13x0,3	18x0,5
<b>4041GP</b>	<b>Each</b>	<b>10,30</b>	<b>11,90</b>	<b>16,40</b>	<b>29,10</b>	<b>118,00</b>

**4041GR**    **SCU**    **INOX**


Self-adhesive. In stainless steel.

Satin accurate finish with protective film.

Graduated on both sides. Right-to-left reading. Precision according to DIN 866 B. mm/1/2 mm graduation.

Overall length	mm	<b>150</b>	<b>200</b>	<b>300</b>	<b>500</b>	<b>1000</b>
Width x thickness	mm	13x0,3	13x0,3	13x0,3	13x0,3	18x0,5
<b>4041GR</b>	<b>Each</b>	<b>11,60</b>	<b>13,40</b>	<b>18,40</b>	<b>33,10</b>	<b>114,00</b>

**SEMIRIGID STEEL RULES**
**4043GA**    **SCU**    **INOX**

**Prod. SCU**

In stainless steel, hardened and ground. Matt surface.

Graduated on both sides. Left-to-right reading.

Tolerance according to European Standards - Class II.

mm/mm graduation.

Overall length	mm	<b>300</b>	<b>500</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
Width x thickness	mm	30x1	30x1	30x1	30x1	30x1
<b>4043GA</b>	<b>Each</b>	<b>8,24</b>	<b>17,20</b>	<b>38,80</b>	<b>60,10</b>	<b>72,50</b>

**4043GB**    **SCU**    **INOX**


Product description as Art. 4043GA

mm/1/2 mm graduation.

Overall length	mm	<b>300</b>	<b>500</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
Width x thickness	mm	30x1	30x1	30x1	30x1	30x1
<b>4043GB</b>	<b>Each</b>	<b>8,24</b>	<b>17,20</b>	<b>38,80</b>	<b>60,10</b>	<b>72,50</b>

**4043GC**    **SCU**    **INOX**


Product description as Art. 4043GA

mm/inch graduation.

Overall length	mm	<b>300</b>	<b>500</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
Width x thickness	mm	30x1	30x1	30x1	30x1	30x1
<b>4043GC</b>	<b>Each</b>	<b>8,24</b>	<b>17,20</b>	<b>38,80</b>	<b>60,10</b>	<b>72,50</b>

**4043GE**    **SCU**    **INOX**


In stainless steel, hardened and ground. Matt surface.

Oversize dimensions. Graduated on both sides. Left-to-right reading.

Tolerance according to European Standards - Class II.

mm/mm graduation.

Overall length	mm	<b>500</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
Width x thickness	mm	40x2	40x2	40x2	40x2
<b>4043GE</b>	<b>Each</b>	<b>58,90</b>	<b>128,00</b>	<b>192,00</b>	<b>241,00</b>

**4043GF**    **SCU**    **INOX**


Product description as Art. 4043GE

mm/1/2 mm graduation.

Overall length	mm	<b>500</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
Width x thickness	mm	40x2	40x2	40x2	40x2
<b>4043GF</b>	<b>Each</b>	<b>58,90</b>	<b>128,00</b>	<b>192,00</b>	<b>241,00</b>

**4043GP**    **SCU**    **INOX**


In stainless steel, hardened and ground. Matt surface.

Graduated on both sides. Left-to-right reading.

Tolerance according to European Standards - Class II.

mm/mm graduation.

Overall length	mm	<b>300</b>	<b>500</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
Width x thickness	mm	30x1	30x1	30x1	30x1	30x1
<b>4043GP</b>	<b>Each</b>	<b>8,24</b>	<b>17,20</b>	<b>38,80</b>	<b>60,10</b>	<b>72,50</b>

**RIGID STEEL RULES**

**Prod. SCU**

Beveled type. In hardened and ground steel.  
Graduation in mm.

Overall length	mm	<b>500</b>	<b>1000</b>
Width x thickness	mm	40x5	40x5
<b>4044GT</b>	<b>Each</b>	<b>34,50</b>	<b>60,30</b>

**SCU**

**4044GT**



In hardened and ground steel. Finely polished edges.  
Graduation in mm. Precision according to DIN 866 B.

Overall length	mm	<b>500</b>	<b>750</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
Width x thickness	mm	25x5	30x6	30x6	30x6	40x8
<b>4045G</b>	<b>Each</b>	<b>24,20</b>	<b>41,60</b>	<b>50,10</b>	<b>77,70</b>	<b>134,00</b>

**SCU**

**4045G**



In stainless steel. Finely polished edges.  
Graduation in mm. Precision according to DIN 866 B.

Overall length	mm	<b>500</b>	<b>750</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
Width x thickness	mm	25x5	30x6	30x6	30x6	40x8
<b>4047G</b>	<b>Each</b>	<b>51,30</b>	<b>98,50</b>	<b>110,00</b>	<b>192,00</b>	<b>336,00</b>

**SCU**

**INOX**

**4047G**



**HIGH PRECISION STEEL RULES**

**Prod. SCU**

Oversize type, high precision.  
In hardened and ground steel. Finely polished edges.  
Graduation in mm. Precision according to DIN 866 A.

Overall length	mm	<b>500</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
Width x thickness	mm	30x6	40x8	40x8	50x10
<b>4047GE</b>	<b>Each</b>	<b>41,60</b>	<b>83,20</b>	<b>153,00</b>	<b>228,00</b>

**SCU**

**4047GE**



Oversize type, high precision.  
In stainless steel. Finely polished edges.  
Graduation in mm. Precision according to DIN 866 A.

Overall length	mm	<b>500</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
Width x thickness	mm	30x6	40x8	40x8	50x10
<b>4047GL</b>	<b>Each</b>	<b>74,90</b>	<b>175,00</b>	<b>275,00</b>	<b>513,00</b>

**SCU**

**INOX**

**4047GL**



**STRAIGHT EDGES**

**Prod. SCU**

In steel. Sides and edges finely ground and polished.  
Without graduation.  
Precision according to DIN 874/II.

Overall length	mm	<b>500</b>	<b>750</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
Width x thickness	mm	30x6	40x8	40x8	50x10	60x12
<b>4048G</b>	<b>Each</b>	<b>38,90</b>	<b>63,80</b>	<b>77,70</b>	<b>147,00</b>	<b>208,00</b>

**SCU**

**4048G**



**874/II**

Product description as Art. 4048G  
Precision according to DIN 874/I.

Overall length	mm	<b>500</b>	<b>750</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
Width x thickness	mm	40x8	50x10	50x10	60x12	70x15
<b>4048GA</b>	<b>Each</b>	<b>55,50</b>	<b>97,10</b>	<b>117,00</b>	<b>222,00</b>	<b>583,00</b>

**SCU**

**4048GA**



other sizes

2000

**874/I**

In stainless steel. Sides and edges finely ground and polished.  
Without graduation.

Overall length	mm	<b>500</b>	<b>1000</b>	<b>2000</b>
Width x thickness	mm	30x6	40x8	60x12
<b>4049G</b>	<b>Each</b>	<b>72,10</b>	<b>192,00</b>	<b>708,00</b>

**SCU**

**INOX**

**4049G**



**874/II**

**4049GA** SCU INOX



874/I

Product description as Art. 4049G

Precision according to DIN 874/I.

Overall length	mm	500	1000	2000
Width x thickness	mm	40x8	50x10	70x15
<b>4049GA</b>	Each	111,00	305,00	1.310,00

**HIGH PRECISION RULES**

**4052G**



874/00

**Orig. MIB**

Precision according to DIN 874/00. In special steel. Hardened and ground.

Thermo-insulated gripping pads. Burnished execution.

Overall length	mm	75	100	125	150	200
Supplier code		07075031	07075032	07075033	07075034	07075035
<b>4052G</b>	Each	16,40	21,60	23,10	27,30	34,50

Overall length	mm	300	400
Supplier code		07075037	07075038
<b>4052G</b>	Each	61,70	90,40

**4053G**



INOX



874/00

Precision according to DIN 874/00. In stainless steel. Highly hardened, ground and lapped.

Chrome-plated.

Thermo-insulated gripping pads.

Supplied in case.

Overall length	mm	75	100	125	150	200
Supplier code		07075011	07075012	07075013	07075014	07075015
<b>4053G</b>	Each	18,10	22,30	25,90	29,50	39,50

Overall length	mm	300	400
Supplier code		07075017	07075018
<b>4053G</b>	Each	66,10	94,70

**WOODEN FOLDING RULES**

**4110**

SCU



**Prod. SCU**

WOODEN METERS.

5 boards and stainless steel spring hinges. Width: 16mm.

Enamelled in natural wood.

<b>4110</b>	Each	1,68
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**4118**

SCU



WOODEN FOLDING RULED

10 boards and stainless steel spring hinges. Width: 16mm.

Enamelled in natural wood.

<b>4118</b>	Each	2,68
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**4120**

SCU



WOODEN FOLDING RULES

10 boards, reinforced brass-plated spring hinges and crowned rivets for excellent board movement. Width 16mm.

Alternated decimeters enamelled in yellow/white.

<b>4120</b>	Each	3,84
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**STAINLESS STEEL FOLDING RULES**

**4132**

SCU

INOX



**Prod. SCU**

STAINLESS STEEL METERS

10 boards and spring hinges.

Width 12mm.

<b>4132</b>	Each	14,60
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**4134**

SCU

INOX



STAINLESS STEEL FOLDING RULES

10 boards and spring hinges.

Width 14mm.

<b>4134</b>	Each	22,10
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**LIGHT METAL FOLDING RULES**

**Prod. SCU**

LIGHT METAL METERS  
5 boards and brass spring hinges.  
Width 14mm.

**4137** Each **7,88**

**SCU**

**4137**



LIGHT METAL FOLDING RULES  
10 boards and brass spring hinges.  
Width 14mm.

**4139** Each **13,20**

**SCU**

**4139**



**PLASTIC FOLDING RULES**

**Prod. SCU**

10 boards.  
In special plastic material, flexible, resistant, glass-fiber reinforced. Spring hinges.  
Accuracy class III.  
Width: 13mm.

**4140** Each **3,14**

**SCU**

**4140**



Product description as Art. 4140  
PLASTIFLEX FOLDING RULES  
Width 16mm.

**4141** Each **4,68**

**SCU**

**4141**



**COMPOSITE PLUS FOLDING RULES**

**Prod. SCU**

FOLDING RULES made of a multilayer material composed of polyamide and glass fibre.  
With 10 sections.  
Professional, resistant to bending, resistant to water, oils, etc., deep engraving of the scale for greater resistance to wear. Resistant metal terminals and springs.  
Easy to read thanks to the reverse scale. Precision class II like the metal folding rules.

**4141AE** Each **13,20**

**SCU**

**4141AE**  
*new*



**COMBINATED FOLDING RULES WITH SQUARE**

**Prod. SCU**

Polyamide plastic FOLDING RULES.  
With 10 sections.  
Combines with variable angle square ruler function. Thanks to the pin on the sliding bar of the first section and to the hole in the third section, where the pin can be inserted, you can measure angles from 20° to 90° and complementary. Also, the sliding bar allows for very accurate measurements. Sharp and resistant engraving of the scale, resistant springs.  
Easy to read thanks to the reverse scale. Precision class III

**4141AL** Each **13,90**

**SCU**

**4141AL**  
*new*



**MEASURING TAPES**

**Prod. SCU**

Lock button and tape storing control. Yellow enamelled tape, matt, antireflection. ABS case, unbreakable. Hook end.  
Accuracy class II.

Type		2	3	5	5A	8
Belt length	m	2	3	5	5	8
Belt width	mm	16	16	19	25	25
Tolerance ±	mm	0,7	0,9	1,3	1,3	1,9
<b>4141B</b>	<b>Each</b>	<b>2,90</b>	<b>3,54</b>	<b>5,10</b>	<b>4,74</b>	<b>7,00</b>

Sizes 5A and 8 running out of stock.

**SCU**

**4141B**



**C II**

Tape lock button. Yellow enamelled tape.  
Ergonomic ABS case, chrome plated. Hook end.  
Accuracy class II.

Belt length	m	2	3	5
Belt width	mm	13	15	19
Tolerance ±	mm	0,7	0,9	1,3
<b>4141BA</b>	<b>Each</b>	<b>3,06</b>	<b>3,60</b>	<b>5,04</b>

**SCU**

**4141BA**



**C II**

**4141C**

SCU

C II



Window for inside digits direct reading.  
Tape lock button and quick tape recovery. Yellow enamelled tape.  
ABS case, chrome plated and unbreakable. Hook end.  
Accuracy class II.

Belt length	m	<b>3</b>	<b>5</b>
Belt width	mm	16	19
Tolerance ±	mm	0,9	1,3
<b>4141C</b>	<b>Each</b>	<b>7,60</b>	<b>14,10</b>

**4141D**

SCU

C II



Type with high flexing resistant tape.  
Tape lock button and quick tape recovery.  
White enamelled tape. ABS case, unbreakable and rubberized for a safer and more comfortable grip. Hook end.  
Accuracy class II.

Belt length	m	<b>3</b>	<b>5</b>	<b>8</b>
Belt width	mm	19	25	25
Tolerance ±	mm	0,9	1,3	1,9
<b>4141D</b>	<b>Each</b>	<b>6,16</b>	<b>9,94</b>	<b>13,70</b>

**4141DA**

SCU

C II



3 - 5 - 8

10

Professional type with high flexing resistant tape.  
Tape lock button and quick tape recovery, shock absorber.  
Yellow enamelled tape (10 m with nylon coating, anti-abrasion and anti-reflective). ABS case, unbreakable and rubberized for a safer and more comfortable grip. Hook end.  
Accuracy class II (10m with CE).

Belt length	m	<b>3</b>	<b>5</b>	<b>8</b>	<b>10</b>
Belt width	mm	19	19	25	25
Tolerance ±	mm	0,9	1,3	1,9	2,3
<b>4141DA</b>	<b>Each</b>	<b>2,00</b>	<b>2,88</b>	<b>5,42</b>	<b>20,20</b>

**4141DB**

SCU

C II



Type with large magnetic tongue and high flexing resistant tape.  
Tape lock button and rapid zero settig. Yellow enamelled tape, matt, antireflection. ABS case, unbreakable, coated with shockproof soft rubber for a safer and more comfortable grip. Hook end.  
Accuracy class II.

Type		<b>3</b>	<b>5</b>	<b>5A</b>	<b>8</b>
Belt length	m	3	5	5	8
Belt width	mm	16	19	25	25
Tolerance ±	mm	0,9	1,3	1,3	1,9
<b>4141DB</b>	<b>Each</b>	<b>4,28</b>	<b>6,18</b>	<b>7,06</b>	<b>8,22</b>

Type 5 running out of stock.

**4141E**

SCU

C II



Professional type with high flexing resistant tape (it does not bend up to approx. 3m height).  
Tape lock button and quick tape recovery, shock absorber.  
Yellow enamelled tape with stainless steel tongue. ABS case, unbreakable and chrome plated.  
Hook end.  
Accuracy class II.

Belt length	m	<b>3</b>	<b>5</b>	<b>8</b>
Belt width	mm	25	25	25
Tolerance ±	mm	0,9	1,3	1,9
<b>4141E</b>	<b>Each</b>	<b>7,88</b>	<b>9,80</b>	<b>13,20</b>

**4141H**

SCU

C II



Type with extra large tape with a very high flexing resistance (it does not bend up to approx. 3m height).  
Tape lock button and quick tape recovery, shock absorber.  
Yellow enamelled tape, matt, antireflection, nylon-coated, resistant to abrasion.  
ABS case, unbreakable, coated with shockproof soft rubber for a safer and more comfortable grip.  
Hook end.  
Accuracy class II.

Belt length	m	<b>5</b>	<b>8</b>
Belt width	mm	33	33
Tolerance ±	mm	1,3	1,9
<b>4141H</b>	<b>Each</b>	<b>14,10</b>	<b>20,90</b>

Type with triple tape grading in mm/feet/inches. Lock button and tape storing control.  
 Yellow enamelled tape, matt, antireflection, with special abrasion-proof coating.  
 ABS case, unbreakable and rubberised for a safer and more comfortable grip. Belt hook.  
 Precision class II.

Belt length	m	<b>3</b>	<b>5</b>	<b>8</b>
Belt length	feet	10'	16'	26'
Belt length	inches	120"	200"	320"
Belt width	mm	16	19	25
Tolerance ±	mm	0,9	1,3	1,9
<b>4141P</b>	<b>Each</b>	<b>9,26</b>	<b>12,40</b>	<b>20,60</b>

SCU

4141P



C II

**ELECTRONIC DISTANCE MEASURING INSTRUMENTS**

**Prod. SCU - SKILL**

Ultrasound model for inside and outside measurements.  
 Enable non-contact distance, surface and volume measurements.  
 With laser pointer for reference only and 2 positioning spirit levels.  
 Summative functions up to 10 measurements, measurement correction, m/inch conversion.  
 5 digits digital display for m, cm, mm measurements.  
 Automatic disconnection after 30 sec. idle time. Battery level indicator. 1 x 9 V alkaline battery operated.  
 Measuring range 0.5m to 15m. Accuracy: +/- 0.5% +/- 1 figure.  
 Opening angle +/- 5°.  
 Supplied in case.

<b>4141R</b>	<b>Each</b>	<b>118,00</b>
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SCU

4141R



Laser beam Class 2 type for inside and outside measurements.  
 Enable non-contact distance, surface and volume measurements.  
 With continuous memory, addition, subtraction and measuring functions.  
 5 digits digital display for m, cm, mm measurements.  
 Automatic disconnection after 5 minutes idle time. Battery level indicator. 4 x 1.5 V alkaline battery operated.  
 Measuring range up to 200mm. Accuracy: +/- 3mm.  
 Supplied in case.

<b>4141T</b>	<b>Each</b>	<b>208,00</b>
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SCU

4141T



Precision class II laser beam for indoor and outdoor measurements.  
 It detects, without contact, distances, it calculates areas and volumes and by using simple functions of the Pythagorean theorem it allows for measurements from a distance.  
 Wide digital display with 5 digits of metres, decimetres, centimetres and millimetres, backlit.  
 With automatic switch-off after 3 minutes of inactivity. Powered by two 1.5 V AAA alkaline batteries (Art. SCU 3600 C), included.  
 Measuring capacity up to 30 m. Precision +/- 3 mm.

<b>4141TE</b>	<b>Each</b>	<b>212,00</b>
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SCU

4141TE  
*new*



**Prod. SCU**

High precision, laser model for indoor and outdoor measurements.  
 Performs non-contact distance, surface and volume measurements. Stores measurements and allows remote measurements thanks to simple triangulation functions. Large 5-digit display in m, feet, inches. Operated by No.2 x 1.5 AAA alkaline batteries (Art. SCU 3600 C), included.  
 Measuring range up to 50m. Accuracy +/- 1.5 mm.

<b>4141ZA</b>	<b>Each</b>	<b>474,00</b>
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SCU

4141ZA



## TELESCOPIC METERS

4142G



Orig. Richter - Art. 6735

Suitable to measure the dimensions of ceilings, suspended elements and depth measurements. Rectangular housing, 5 staves made from light aluminium alloy with protective anodised coating. Fixed circular level for vertical positioning.

On one side there is a millimetre scale, on the other it is Imperial. Length when closed 1.25 m.

Capacity	m	5
4142G	Each	79,30

## NYLON MEASURING TAPES

4144



NYLON TAPE - FIGURES ON TWO SIDES

C III

Prod. SCU

Type with nylon tape with fiber glass reinforcement.

ABS case (50m case with handle).

Tape width: 16mm. Increments in CENTIMETERS.

Accuracy class III.

Belt length	m	10	20	50
4144	Each	7,24	9,80	20,90

## FIBER GLASS MEASURING TAPES

4144F



FIBERGLASS TAPE-FIGURES ON TWO SIDES

C III

Prod. SCU

Type with fiber glass tape.

Metal case with imitation leather coating.

Tape width: 16mm. Increments in CENTIMETERS.

Accuracy class III.

Belt length	m	10	20	30	50
4144F	Each	11,10	15,80	20,80	45,30

4145GE



FIBERGLASS TAPE - FIGURES ON ONE SIDE

C II

Orig. Richter - Art. 274 P

Type with fiber glass tape, PVC-coated. Hand crank rapid roll up.

Metal case coated with synthetic leather. Indeflexible tape, width: 16mm.

Graduation on one side.

Belt length	m	10	20
Tolerance ±	mm	2,3	4,3
4145GE	Each	22,70	31,90

Spare tapes for Art. 4145 GE.

Belt length	m	10	20
O4145GE	Each	12,20	19,20



**Orig. Richter - Art. 272 P**

Product description as Art. 4145GE

Type with fiber glass tape, PVC-coated. Hand crank rapid roll up.

Metal case coated with synthetic leather. Indeflexible tape, width: 16mm.

Graduation on one side.

Belt length	m	10	20
Tolerance ±	mm	2,3	4,3
<b>4146G</b>	<b>Each</b>	<b>22,70</b>	<b>31,90</b>

Spare tapes for Art. 4146 G.

Belt length	m	10	20
<b>O4146G</b>	<b>Each</b>	<b>12,20</b>	<b>19,20</b>



**4146G**



FIBERGLASS TAPE - FIGURES ON ONE SIDE

**C II**

**POLYSAN MEASURING TAPES**

**Orig. Richter - Art. 404 P**

Type with polyamid coated steel tape, enamelled, yellow. Increments in black and meter indication in red all tape long.

Rust-proof, antireflection, scratch-resistant, unbreakable and indeformable.

Hand crank tape rapid roll up. Metal case coated with synthetic leather.

Tape width: 13mm, graduated on one side only.

Increments in MILLIMETERS. Accuracy class II.

Belt length	m	10	20
Tolerance ±	mm	2,3	4,3
<b>4147GB</b>	<b>Each</b>	<b>31,20</b>	<b>41,80</b>

Spare tapes for Art. 4147 GB.

Belt length	m	10	20
<b>O4147GB</b>	<b>Each</b>	<b>15,30</b>	<b>26,10</b>



**4147GB**



COATED STEEL TAPE  
FIGURES ON ONE SIDE

**C II**

**STEEL MEASURING TAPES**

**Orig. Richter - Art. 348**

Type with white enamelled tape. Graduation on one side only. Pocket execution reduced in dimensions and weight. Tape width: 10mm.

Hand crank tape rapid roll up. Metal case coated with synthetic leather.

Belt length	m	10	20
Tolerance ±	mm	2,3	4,3
<b>4148GM</b>	<b>Each</b>	<b>21,80</b>	<b>30,30</b>

Spare tapes for Art. 4148 GM.

Belt length	m	10	20
<b>O4148GM</b>	<b>Each</b>	<b>12,10</b>	<b>19,30</b>



**4148GM**



WHITE VARNISHED TAPE  
FIGURES ON ONE SIDE

**C II**

**Orig. Richter - Art. 308 PZ**

Graduation on one side only. Width: 13mm. Hand crank tape rapid roll up.

Increments in MILLIMETERS. Accuracy class II.

Burnished tape and case sheathed in synthetic leather.

Belt length	m	10	20	50
Tolerance ±	mm	2,3	4,3	10,3
<b>4149GA</b>	<b>Each</b>	<b>24,10</b>	<b>32,40</b>	<b>67,20</b>

Spare tapes for Art. 4149 GA.

Belt length	m	10	20	50
<b>O4149GA</b>	<b>Each</b>	<b>12,60</b>	<b>20,20</b>	<b>46,20</b>



**4149GA**



STEEL TAPE - FIGURES ON ONE SIDE

**C II**

**4149GD** **Richter**  
Messwerkzeuge  
Measuring Tools



**WHITE VARNISHED TAPE  
FIGURES ON ONE SIDE**

**C II**

**Orig. Richter - Art. 308 WZ**

Product description as Art. 4149GA

White enamelled tape and case sheathed in synthetic leather.

Belt length	m	10	20	50
Tolerance ±	mm	2,3	4,3	10,3
<b>4149GD</b>	<b>Each</b>	<b>24,10</b>	<b>32,40</b>	<b>67,20</b>

Spare tapes for Art. 4149 GD.

Belt length	m	10	20	50
<b>O4149GD</b>	<b>Each</b>	<b>12,10</b>	<b>19,30</b>	<b>44,20</b>

**4149GF** **Richter** **INOX**  
Messwerkzeuge  
Measuring Tools



**INOX TAPE - FIGURES ON ONE SIDE**

**C II**

**Orig. Richter - Art. 358 PZ**

Product description as Art. 4149GA

Stainless steel tape and case sheathed in synthetic leather.

Belt length	m	10	20	50
Tolerance ±	mm	2,3	4,3	10,3
<b>4149GF</b>	<b>Each</b>	<b>29,30</b>	<b>43,80</b>	<b>94,80</b>

Spare tapes for Art. 4149 GF.

Belt length	m	10	20	50
<b>O4149GF</b>	<b>Each</b>	<b>17,10</b>	<b>30,70</b>	<b>72,10</b>

**4150GF** **Richter** **INOX**  
Messwerkzeuge  
Measuring Tools



**INOX TAPE - FIGURES ON ONE SIDE**

**C II**

**Orig. Richter - Art. 356 PZ**

Graduation on one side only. Width: 13mm. Hand crank tape rapid roll up.

Increments in MILLIMETERS. Accuracy class II.

Stainless steel tape and case sheathed in synthetic leather.

Belt length	m	10	20	50
Tolerance ±	mm	2,3	4,3	10,3
<b>4150GF</b>	<b>Each</b>	<b>29,30</b>	<b>43,80</b>	<b>94,80</b>

Spare tapes for Art. 4150 GF.

Belt length	m	10	20	50
<b>O4150GF</b>	<b>Each</b>	<b>17,10</b>	<b>30,70</b>	<b>72,10</b>

**FIBER GLASS MEASURING TAPES**

**4151F** **SCU**



**FIBREGLASS TAPE-FIGURES ON TWO SIDES**

**C III**

**Prod. SCU**

Type with glass fiber tape.

Aluminium alloy frame and handle in synthetic material.

Tape width: 15mm. Increments in CENTIMETERS.

Accuracy class III.

Belt length	m	20	50
<b>4151F</b>	<b>Each</b>	<b>25,90</b>	<b>31,90</b>

**POLYSAN MEASURING TAPES**

**Orig. Richter - Art. 404 R**

Type with polyamid coated steel tape.

Enamelled, yellow tape. Increments in black and meter indication in red all tape long. Rust-proof, antireflection, scratch-resistant, unbreakable and indeformable.

Handle grip in synthetic material, unbreakable. Tape width: 13mm. Graduation on one side only.

Increments in MILLIMETERS. Accuracy class II.

Belt length	m	20	50
Tolerance ±	mm	4,3	10,3
<b>4151GR</b>	Each	<b>44,50</b>	<b>81,20</b>

Spare tapes for Art. 4151 GR.

Belt length	m	20	50
<b>O4151GR</b>	Each	<b>26,10</b>	<b>60,70</b>



**4151GR**



**COATED STEEL TAPE  
FIGURES ON ONE SIDE C II**

**STEEL MEASURING TAPES**

**Prod. SCU**

Type with steel tape, enamelled, yellow. Increments in black. ABS housing and ergonomic handle in soft material. Tape width: 13mm. Graduation in MILLIMETERS, CENTIMETERS and DECIMETERS. Tape length: 50m. Rapid tape recovery. Accuracy class II. Tolerance ± 10.3mm.

<b>4152E</b>	Each	<b>37,50</b>
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**4152E**



**YELLOW VARNISHED TAPE  
FIGURES ON ONE SIDE C II**

Type with steel tape, enamelled, yellow. Increments in black. Aluminium alloy frame and handle in dual component material. Tape width: 13mm. Graduation in MILLIMETERS, CENTIMETERS and DECIMETERS. Tape length: 50m. Rapid tape recovery. Accuracy class II. Tolerance ± 10.3mm.

<b>4152F</b>	Each	<b>39,30</b>
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**4152F**



**YELLOW VARNISHED TAPE  
FIGURES ON ONE SIDE C II**

**Orig. Richter - Art. 464 SR**

Type with handle in unbreakable plastic material. Light alloy anodized frame.

Tape width: 13mm. Graduation on one side only. Increments in MILLIMETERS.

Accuracy class II.

Stainless steel tape.

Belt length	m	20	50
Tolerance ±	mm	4,3	10,3
<b>4153GB</b>	Each	<b>47,40</b>	<b>90,10</b>

Spare tapes for Art. 4153 GB.

Belt length	m	20	50
<b>O4153GB</b>	Each	<b>30,70</b>	<b>72,10</b>



**INOX 4153GB**



**INOX TAPE - FIGURES ON ONE SIDE C II**

**Orig. Richter - Art. 414 W SR**

Product description as Art. 4153GB

White enamelled tape.

Belt length	m	20	50
Tolerance ±	mm	4,3	10,3
<b>4153GC</b>	Each	<b>36,10</b>	<b>62,40</b>

Spare tapes for Art. 4153 GC.

Belt length	m	20	50
<b>O4153GC</b>	Each	<b>19,30</b>	<b>44,20</b>



**4153GC**



**WHITE VARNISHED TAPE  
FIGURES ON ONE SIDE C II**

**STEEL MEASURING TAPES WITH PLUMB BOB**
**4155GA**


**STEEL TAPE - FIGURES ON ONE SIDE**
**Orig. Richter - Art. 414 MS**

Model with wooden handle. Brass frame. Tape length: 30m, tape width: 13mm. Graduated on one side only. Increments in MILLIMETERS. Plumb bob weight: 0.400kg. Suitable to measure well, cistern, basin, reservoir depth.

Burnished tape and plumb bob.

**4155GA** Each **89,80**

Spare tapes without plumb bob for Art. 4155 GA.

**O4155GA** Each **26,40**
**4155GB**

**INOX**

**INOX TAPE - FIGURES ON ONE SIDE**
**Orig. Richter - Art. 464 MS**

Product description as Art. 4155GA

Stainless steel and plumb bob.

**4155GB** Each **105,00**

Spare tapes without plumb bob for Art. 4155 GB.

**O4155GB** Each **41,20**

Plumb bob for Art. 4155 GA / 4155 GB.

**O4155GC** Each **30,10**
**ROAD DISTANCE MEASURING DEVICE**
**4160A**


**Prod. SCU**

In duralumin tubing, telescopic. Counter for measurements up to 9999.9m (additive forward measurements, backward subtractive measurements).

Zero setting knob. Rubber-coated wheel Ø 355mm.

Overall length when open 1050mm.

**4160A** Each **144,00**
**4160GP**


**Orig. Richter - Art. 6680**

Heavy duty. In steel tubing, collapsible, with handle. Large dimension. additive forward measurements, backward subtractive measurements).

Zero setting lever. Rubber-coated sturdy wheel Ø 320mm.

**4160GP** Each **311,00**
**WATER LEVELS**
**4164**


**Prod. SCU**

ABS housing, transparent and unbreakable, graduation in mm 0-120. Self-lubricating cocks in synthetic material.

Supplied in couple. To be used with connection pipe Art. O4164 (not included).

**4164** Per pair **12,10**

Connection pipe in transparent rubber, length 20m.

**O4164** Each **12,30**

**ROUND BUBBLES**
**Prod. SCU**

In acrylic material, shock resistant.  
Coloured liquid to highlight the air bubble. Sensitivity 1.8 mm/m.



**4164L**

Base Ø	mm	14	18	20	30
<b>4164L</b>	Each	5,52	5,52	5,52	7,42

**MINI LEVELS**
**Prod. SCU**

In unbreakable ABS, T-shaped. With No.2 vials, horizontal and vertical. Sensitivity 1.8 mm/m.  
With holes for mounting screws. Dimensions 60x45mm.



**4164T**

<b>4164T</b>	Each	3,08
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**POCKET-LEVELS**
**Prod. SCU**

In aluminium.  
With hooking clip. With 1 horizontal vial.



**4165A**

Overall length	mm	100
<b>4165A</b>	Each	11,20

In unbreakable ABS. With 3 vials, horizontal, vertical and bent at 45°. With magnetic support.



**4165G**

Overall length	mm	230
<b>4165G</b>	Each	2,16

In unbreakable ABS. With 3 vials, horizontal, vertical and bent at 45°.



**4165GM**

With magnetic base and reinforced edges.

Overall length	mm	225
<b>4165GM</b>	Each	5,82

**ALUMINIUM LEVELS**
**Prod. SCU**

In die-cast aluminium. Ground support base. Thinned profile, 2 vial in shock-proof material, horizontal and vertical. 1mm per metre accuracy (0.057°).



**4175**

Length	mm	400	500	600
<b>4175</b>	Each	12,30	14,90	17,50

**DURALUMIN LEVELS**
**Prod. SCU**

Profiled type.  
0.5mm per metre accuracy (0.029°).  
2 unbreakable vials, horizontal and vertical (length 100mm with 1 horizontal vial).



**4179A**

Overall length	mm	100	150	200	300	400	500	600
<b>4179A</b>	Each	6,72	10,40	10,40	11,20	12,70	14,10	16,10

Overall length	mm	800	1000	1200	1500
<b>4179A</b>	Each	19,20	22,80	27,70	33,40

Product description as Art. 4179A

3 unbreakable vials, horizontal, vertical and bent at 45°.



**4179B**

Overall length	mm	300	400	500	600	800	1000	1200	1500
<b>4179B</b>	Each	13,10	14,80	16,30	18,30	21,70	26,10	32,40	36,40

model profile with 2 handles paperwork for a better grip. Professional.

Accuracy 0.5 mm per metre (0.029°).



**4179E**

With 3 shatter-proof spirit levels, horizontal, vertical and 45° inclined.  
Oven painted.

Overall length	mm	600	800	1000	1200	1500	2000
<b>4179E</b>	Each	36,50	41,80	47,20	52,30	64,20	79,70

4179G

SCU



Profiled type.

Support base graduated in mm. 1mm per metre accuracy (0.057°). 3 vials in shock-proof material, horizontal, vertical and bent at 45°

Overall length	mm	300	400	500	600	800	1000
<b>4179G</b>	Each	10,10	11,60	13,10	14,40	17,30	22,50

4180P

SCU



Heavy model in die-cast aluminium, ground on all surfaces.

Adjustable and interchangeable central vial. 3 vials in shock-proof material, horizontal, vertical and bent at 45°

Overall length	mm	400	500	600	800
<b>4180P</b>	Each	22,50	24,60	28,10	33,40

Spare horizontal vials for Art. 4180 P.

<b>O4180P</b>	Each	1,32
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4184G

**Richter**  
 Messwerkzeuge  
 Measuring Tools
**Orig. Richter**

Extra model - Sturdy and stable support base, width 25mm. 3 vials in shock-proof material, horizontal, vertical and bent at 45° allow the level to be read from any angle. 0.5mm per metre accuracy (0,029°).

Overall length	mm	400	600	800	1000	1500
<b>4184G</b>	Each	30,30	33,50	37,10	41,00	60,30

Spare horizontal vials for Art. 4184 G.

<b>O4184GM</b>	Each	6,34
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Spare vertical or bent vials for Art. 4184 G.

<b>O4184GP</b>	Each	6,34
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### DURALUMIN MAGNETIC LEVELS

4184H

SCU

**Prod. SCU**

Magnetic base with powerful magnet. 2 impermeable vials in shock-proof material, horizontal and vertical.

Yellow finish. 0.5mm per metre accuracy (0.0285°).

Overall length	mm	220
<b>4184H</b>	Each	18,10

4184M

SCU



Magnetic base with two powerful magnets. 2 impermeable vials in shock-proof material, horizontal and vertical. Only central vial is adjustable and interchangeable.

Support base graduated in mm except dimensions 1200 - 1500mm. Yellow finish.

0.5mm per metre accuracy (0.029°).

Overall length	mm	300	400	500	600	800	1000	1200
<b>4184M</b>	Each	20,80	21,40	24,60	26,10	35,30	37,60	42,10

Overall length

<b>4184M</b>	Each	50,40
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Spare horizontal vials for Art. 4184 M.

<b>O4184M</b>	Each	1,32
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4185G

SCU



Magnetic base with two powerful magnets. 3 impermeable vials in shock-proof material, horizontal, vertical and bent at 45°. 1mm per metre accuracy (0.057°).

Overall length	mm	400	500	600
<b>4185G</b>	Each	15,80	17,60	19,90

### INCLINE LEVELS

4186A

SCU

**Prod. SCU**

Type with pivot pin, particularly suited to measure angles and slopes.

Reading on graduated scale 0 to 5%. 2 vials in shock-proof material, horizontal and vertical. In profiled anodized aluminium. Length: 600mm. When rotating the handwheel, the pin moves in or out to show the measured or wished slope.

<b>4186A</b>	Each	55,10
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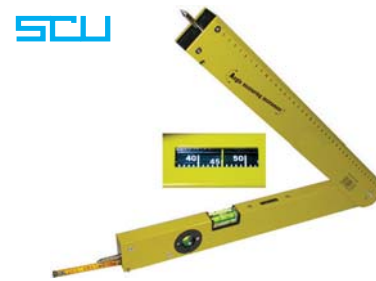
**ANGLE MEASURING DEVICES**

**Prod. SCU**

Angle measuring device in sturdy channel steel. Display to show angle measurements 0° to 180°. 2 vials, horizontal and vertical. Accuracy: (±0.056°). Locking knob. Thanks to the two detachable tips placed at the rod extremities, it can also be used as a caliper. Provided with flexometer, 2m length, steel band 13mm width. Graduated support base 40cm, level length: 400mm.

**4186E** Each **77,10**

Product running out of stock.



**4186E**

**ELECTRONIC ANGLE MEASURING DEVICES**

**Prod. SCU**

Aluminium profile with 2 unbreakable bubbles, horizontal and vertical. Electronic inclination measuring instrument with display reading in degrees. Division 0.1°. With ON/OFF key, HOLD key to store the measurement and key for the display backlight. For angles from 0° to 225°, accuracy ± 0.057°. With lock knob. Operation with 9 V battery (Art. 3600 M), included. Length of spirit level: 400 mm. In case.

**4186F** Each **77,10**



**4186F**  
*new*

**Orig. Richter - Art. 3033**

Professional typem, profiled in duralumin, 2 vials in shock-proof material, horizontal and vertical. Accuracy 0.5 mm/m. Digital angle measuring device with direct display reading in degrees and percent. Increments in 0.1°. With ON / OFF key, HOLD key for storing the measurement, beep key for angle 0° and 90°, key for conversion degrees / percentage and calibration key. Accuracy of slope measuring device: ±0.1° for 0° to 90° angles, ±0.3° for 1° to 89° angles. 9 V battery operated (Art. 3600 M) included. Length: 600mm. In case.

**4186G** Each **405,00**



**4186G**

**LASER SPIRIT LEVELS**

**Prod. SCU**

Laser level in sturdy duralumin tube. 2 vials in shock-proof material, horizontal and rotating. 650nm wave length laser, power 1 mW. Measuring range approx. 30m (depends on ambient light). 2 x AAA (Art. 3600 C) alkaline batteries. Vial accuracy: 0.5 mm/m. Length: 400mm. Ideal for rapid and precise alignments on long distances. Supplied complete with rotating base support, 1200mm tripod and glasses. Delivered in plastic case.

**4186GL** Each **123,00**



**4186GL**

**TURNING LASER SPIRIT LEVELS**

**Prod. SCU**

Laser level for horizontal and vertical alignments, with 3 vials in shock-proof material, 2 horizontals, 1 vertical. Rotating base support for easy, continuous alignment and 360° marking. Operated by 4 alkaline batteries type AA (Art. 3600 E), supplied. Rotation speed: 0-500 rpm. 650nm wave length laser, power 1 mW (Class 2). Measurement range approx. 10m (depending on brightness). 0.5 mm/m alignment precision. Supplied with 1200mm tripod and protection glasses. In plastic case.

**4186GR** Each **175,00**



**4186GR**

## 4186GRE



Professional grade laser for horizontal and vertical alignments. With unbreakable bubbles and 3 manual levelling system. Movement powered by 4 AA alkaline batteries (3600 s), supplied. Remote to remote control, carried out by a single operator, with 9 V alkaline battery (3600 M), supplied.

Rotational speed 100-300 RPM. Laser beam with wavelength 635 nm, 1 mW power (class 2). Measuring capacity c.ca 10 m (depends on the brightness of light); with receiver up to 100 m, working with 9 V alkaline battery (3600 M), supplied.

Accuracy  $\pm 0.2$  mm/m for horizontal measurements.  
Accuracy  $\pm 0.3$  mm/m for vertical measurements.  
Complete with glasses to highlight the Laser beam.  
Sturdy plastic case.

Weight	Kg	0,85
<b>4186GRE</b>	<b>Each</b>	<b>2.260,00</b>

## 4186GRF



STANDS FOR ROTATING LEVELS ART. 4186 GRE

Robust and stable model with manual adjustment and sealing of chain telescopic legs to avoid any slippage.

Adjustable height 1050 mm to 2100. Pointed feet. With carrying strap.

Weight Kg 4.

<b>4186GRF</b>	<b>Each</b>	<b>327,00</b>
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## 4186GS



Super-professional laser beam type for horizontal and vertical alignment. With 1 shatterproof spirit level and electric self-levelling system. Power driven by special rechargeable batteries (5x1.2 VDC Ni-H), provided, or by alkaline batteries (4x1.5 VDC type LR 20 (D) Art. 3600 L), not provided. Remote control device, for use by a single operator, with 9 V battery (Art. 3600 M), provided.

Rotation speed 0/5/200/420 rpm. Laser beam with wavelength 635 nm, power 1 mW (Class 2). Measuring capacity approx. 20 m (depending on the luminosity of lighting); with receiver up to 200 m (operates with 2 x 1.5 V AA alkaline batteries, Art. 3600 E, provided).

Sensor with flashing light to signal when the laser beam reaches the required point.

Precision  $\pm 0.1$  mm/m for horizontal measurements.

Precision  $\pm 0.2$  mm/m for vertical measurements.

Battery charger V 110-240 Hz 50-60.

In a sturdy plastic case.

Weight	Kg	2,5
<b>4186GS</b>	<b>Each</b>	<b>4.320,00</b>

Product running out of stock.

## 4186GSA



STAND FOR ROTATING LEVELS ART. 4186 GS

Extremely sturdy and stable rack type with manual handcrank adjustment and retaining chain on the telescopic legs to avoid any slipping.

Height adjustable from 1355 to 2325mm. Pointed feet with adjustable guards, also for smooth or delicate surfaces. With carrying strap.

Weight 7.5Kg.

<b>4186GSA</b>	<b>Each</b>	<b>397,00</b>
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Product running out of stock.



**CORD MARKER**

**Prod. SCU**

Sturdy cord marker, rechargeable.  
 Plastic housing, cotton cord 25m length.  
 Roll up hand crank. With hook.  
 It can be also used as plumb line. Supplied with blu powder 150gr bottle, Art. 4186 V 1.

<b>4186T</b>	Each	<b>4,42</b>
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**4186T**

Professional model with magnesium alloy body, durable and lightweight and cotton/nylon yarn for maximum dust impregnation capability/strength, length 30 m. Fast extraction system of rope, without rotation of the crank, by pressing on the "PUSH" button. Anchor hook hardened and serrated, headquartered in the body for a tracker's convenient and safe housing. Large dust tank with wide opening for filling. Hips plates for plotter a perfectly level surface on both sides. With clips for application to belt or Pocket. Doubles as a plumb line.

<b>4186TE</b>	Each	<b>12,80</b>
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**4186TE**

Product description as Art. 4186TE

Professional model with magnesium alloy body, durable and lightweight and cotton/nylon yarn for maximum dust impregnation capability/strength, length 30 m. Fast extraction system of rope, without rotation of the crank, by pressing on the "PUSH" button. Anchor hook hardened and serrated, headquartered in the body for a tracker's convenient and safe housing. Large dust tank with wide opening for filling. Hips plates for plotter a perfectly level surface on both sides. With clips for application to belt or Pocket. Doubles as a plumb line.

<b>4186TF</b>	Each	<b>16,60</b>
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**4186TF**

**POWDER FOR MARKER**

**Prod. SCU**

Type for tracing. In 150 gram bottles.

Type	<b>1</b>	<b>2</b>	
Colour	blue	red	
<b>4186V</b>	Each	<b>1,50</b>	<b>1,50</b>



**4186V 1 4186V 2**

**4186V**

Professional model with special powder for tracing (3 model is dark blue, particularly visible and resistant to erasure). In bottles.

Type	<b>1</b>	<b>2</b>	<b>3</b>	
Colour	blue	red	dark blue	
Contents	grams	250	250	100
<b>4186VE</b>	Each	<b>3,18</b>	<b>3,18</b>	<b>2,50</b>



**1 2 3**

**4186VE**

**MULTI-FUNCTIONS TRACING TOOLS**

**Prod. SCU**

Combined tool consisting of a laser beam (range approx. 30m), a cord marker (length 30m), a measuring vial and a 90° and 45° squaring arm, magnetic. Body in sturdy synthetic material. Suitable for any kind of laying such as walls, floors, pipes, etc. 2 x 1.5 V alkaline battery operated (AA - Art. 3600 E), not included.

<b>4186Z</b>	Each	<b>86,20</b>
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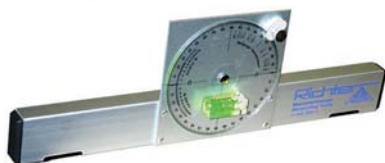
**4186Z**

Product running out of stock.



**INCLINE SPIRIT LEVELS WITH PROTRACTOR**

4187G

**Richter**  
 Messwerkzeuge  
 Measuring Tools
**Orig. Richter - Art. 1085M**

Suitable to mark inclined planes and carpentry and carpentry works in general. Graded protractor of  $4 \times 90^\circ = 360^\circ$ . Locking device. Vial in shock-proof material. In anodised aluminium with magnetic base.

Overall length	mm	400	600
<b>4187G</b>	<b>Each</b>	<b>55,10</b>	<b>67,20</b>

**INCLINE SPIRIT LEVELS WITH GRADUATED BOW**

4191

**SCU****Prod. SCU**

In alloyed steel.

For the measurement of the relative inclination of planes. Vial with direct arc reading  $0^\circ$  to  $180^\circ$ .Two-sectors arc  $0^\circ$  to  $180^\circ$ .

Accuracy: 0.5 per 1000 mm.

Base length	mm	240
Weight	grams	600

<b>4191</b>	<b>Each</b>	<b>137,00</b>
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Product running out of stock.

**DIGITAL INCLINE SPIRIT LEVELS**

4192G

**MIB**  
 MESSZEUGE  
 GERMANY
**Orig. MIB - Art. 06071995**

Alluminium body with precision resting surface. Direct reading on large-sized display of all angles up to  $360^\circ$  ( $4 \times 90^\circ$ ).

Zero setting in every point. Memory button.

Reading:  $0.1^\circ$ . Accuracy:  $0.2^\circ$ .

Dimensions: 150x30x60hmm.

Operated by long lasted battery.

<b>4192G</b>	<b>Each</b>	<b>147,00</b>
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**PRECISION LEVELS IN ALUMINIUM**

4194G

**SCU**

0,6x1000

**Prod. SCU**

1 longitudinal vial. Accuracy: 0.6 per 1000 mm. Prismatic and ground support base. Width: 22mm.

Length	mm	100	150	200	250	300
<b>4194G</b>	<b>Each</b>	<b>78,60</b>	<b>86,40</b>	<b>97,80</b>	<b>121,00</b>	<b>141,00</b>

**METAL SPIRIT LEVELS**

4195E

**SCU**

0,30x1000

**Prod. SCU**

With 2 spirit levels. Flat-prismatic base.

Ground base with spirit level adjustment screws.

In a case.

Accuracy: 0.30 per 1000 mm.

Length approx	mm	150	200	300
<b>4195E</b>	<b>Each</b>	<b>137,00</b>	<b>161,00</b>	<b>223,00</b>

4196A

**SCU**

0,05x1000



With 2 spirit levels. Precision model.

Finely ground flat-prismatic base. Spirit level adjustment screw.

In a case.

Accuracy: 0.05 per 1000 mm.

Length approx	mm	150	200	250	300
<b>4196A</b>	<b>Each</b>	<b>148,00</b>	<b>159,00</b>	<b>184,00</b>	<b>229,00</b>

4196B

**SCU**

0,02x1000



Product description as Art. 4196A

Accuracy: 0.02 per 1000 mm.

Length approx	mm	150	200	250	300
<b>4196B</b>	<b>Each</b>	<b>155,00</b>	<b>169,00</b>	<b>201,00</b>	<b>247,00</b>

**METAL PRECISION LEVELS**
**Prod. SCU**

With two vials. High paccuracy model according to DIN 877.  
 Flat-prismatic base, finely ground. Support base in stabilised cast iron. Thermo insulating handle.  
 Thanks to a careful assembly, vials assure constant measuring accuracy. Longitunal vial with protection glass.  
 Supplied in wooden case.

Accuracy: 0.04 per 1000 mm.

Length	mm	160	200	250	300
<b>4197GD</b>	<b>Each</b>	369,00	437,00	502,00	564,00

**SCU** 0,04x1000 **4197GD**


Product description as Art. 4197GD

Accuracy: 0.02 per 1000 mm.

Length	mm	160	200	250	300
<b>4197GE</b>	<b>Each</b>	446,00	537,00	581,00	634,00

**SCU** 0,02x1000 **4197GE**


Product description as Art. 4197GD

Accuracy: 0.01 per 1000 mm.

Length	mm	200	250	300
<b>4197GF</b>	<b>Each</b>	670,00	711,00	811,00

**SCU** 0,01x1000 **4197GF**

**METAL SPIRIT LEVELS**
**Orig. MIB**

Square type framework. With two bubbles.  
 Two flat sides and two prismatic. Rectified basis.  
 In case.

Sensitivity 0.30 to 1000 mm.

Side length	mm	150	200
Supplier code		06072041	06072042
<b>4198</b>	<b>Each</b>	197,00	211,00


**0,30x1000** **4198**  
*new*

**Prod. SCU**

Square precision model. With 2 spirit levels.  
 Two flat and two prismatic sides. Ground base.  
 In a case.

Accuracy: 0.05 per 1000 mm.

Side length	mm	200	250
<b>4198B</b>	<b>Each</b>	254,00	296,00

**SCU** 0,05x1000 **4198B**


Product description as Art. 4198B

Accuracy: 0.02 per 1000 mm.

Side length	mm	200	250
<b>4198C</b>	<b>Each</b>	275,00	338,00

**SCU** 0,02x1000 **4198C**


**METAL PRECISION LEVELS**

**4202GD**

**SCU**



0,04x1000

**Prod. SCU**

High accuracy square model. Three prismatic sides and one vertical smooth side, finely ground. Two vials. High accuracy according to DIN 877. In stabilised cast iron. Thermo insulating handle. Thanks to a careful assembly, vials assure constant measuring accuracy. Longitudinal vial with protection glass. Supplied in wooden case.

Accuracy: 0.04 per 1000 mm.

Length	mm	150	200
<b>4202GD</b>	<b>Each</b>	<b>799,00</b>	<b>953,00</b>

**4202GE**

**SCU**



0,02x1000

Product description as Art. 4202GD

Accuracy: 0.02 per 1000 mm.

Length	mm	150	200
<b>4202GE</b>	<b>Each</b>	<b>879,00</b>	<b>1.070,00</b>

**4202GF**

**SCU**



0,01x1000

Product description as Art. 4202GD

Accuracy: 0.01 per 1000 mm.

Length	mm	200
<b>4202GF</b>	<b>Each</b>	<b>1.570,00</b>

**4204GD**

**SCU**



MAGNETIC

0,04x1000

High accuracy square model, 90° smooth magnetic base and three finely ground prismatic sides. Two vials. High accuracy according to DIN 877.

In stabilised cast iron. Thermo insulating handle. Thanks to a careful assembly, vials assure constant measuring accuracy. Longitudinal vial with protection glass. Supplied in wooden case.

Accuracy: 0.01 per 1000 mm.

Length	mm	150	200
<b>4204GD</b>	<b>Each</b>	<b>1.440,00</b>	<b>1.710,00</b>

**4204GE**

**SCU**



MAGNETIC

0,02x1000

Product description as Art. 4204GD

Accuracy: 0.01 per 1000 mm.

Length	mm	150	200
<b>4204GE</b>	<b>Each</b>	<b>1.520,00</b>	<b>1.820,00</b>

**STEEL SQUARES**

**4250**

**SCU**



**Prod. SCU**

In steel, galvanized. Execution for carpentry. Standard execution.

Dimensions	mm	100x70	150x100	200x130	250x160	300x175	400x200	500x250
Section	mm	20x5	20x5	25x5	25x6	30x6	30x6	30x6
<b>4250</b>	<b>Each</b>	<b>5,64</b>	<b>6,16</b>	<b>8,10</b>	<b>9,86</b>	<b>10,90</b>	<b>14,10</b>	<b>17,60</b>

Dimensions	mm	600x300
Section	mm	30x6
<b>4250</b>	<b>Each</b>	<b>21,20</b>

The sections of the squares are subject to changes.

In steel, grinded, polished.  
 Fine execution for carpentry.  
 Back squares, with screws.

Dimensions	mm	100x70	150x100	200x130	250x160	300x175	400x200	500x250
Section	mm	20x5	20x5	25x5	25x6	25x5	30x6	30x6
<b>4251</b>	<b>Each</b>	<b>12,40</b>	<b>13,40</b>	<b>14,10</b>	<b>16,90</b>	<b>18,40</b>	<b>23,60</b>	<b>30,10</b>

Dimensions	mm	600x300
Section	mm	30x6
<b>4251</b>	<b>Each</b>	<b>37,70</b>

The sections of the squares are subject to changes.

SCU

4251



Fine execution for carpentry. In steel, galvanized.  
 Back squares, welded.

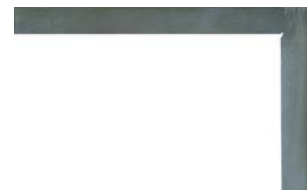
Dimensions	mm	100x70	150x100	200x135	250x165	300x180	400x200	500x250
Section	mm	20x5	20x5	25x5	25x5	30x6	30x6	30x6
<b>4251E</b>	<b>Each</b>	<b>8,46</b>	<b>9,16</b>	<b>12,40</b>	<b>15,90</b>	<b>17,60</b>	<b>20,80</b>	<b>24,30</b>

Dimensions	mm	600x300
Section	mm	30x6
<b>4251E</b>	<b>Each</b>	<b>32,40</b>

The sections of the squares are subject to changes.

SCU

4251E



**PRECISION STEEL SQUARES**

**Prod. SCU**

In steel, undeformable. Accurate execution according to DIN 875/II.  
 Completely ground. Heavy model. Polished edges.

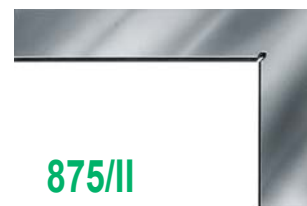
Standard execution.

Dimensions	mm	75x50	100x70	150x100	200x130	250x160	300x175	500x250
Section	mm	15x5	20x5	25x5	30x6	35x7	35x7	40x8
<b>4251M</b>	<b>Each</b>	<b>8,62</b>	<b>9,38</b>	<b>11,70</b>	<b>14,30</b>	<b>20,30</b>	<b>23,30</b>	<b>52,50</b>

Dimensions	mm	750x375	1000x500
Section	mm	50x8	50x8
<b>4251M</b>	<b>Each</b>	<b>121,00</b>	<b>187,00</b>

SCU

4251M



875/II

Product description as Art. 4251M

Back squares, with screws.

Dimensions	mm	75x50	100x70	150x100	200x130	250x160	300x175	500x250
Section	mm	15x5	20x5	25x5	30x6	35x7	35x7	40x8
<b>4251P</b>	<b>Each</b>	<b>12,80</b>	<b>13,40</b>	<b>17,30</b>	<b>21,40</b>	<b>28,50</b>	<b>38,30</b>	<b>84,40</b>

Dimensions	mm	750x375	1000x500
Section	mm	50x8	50x8
<b>4251P</b>	<b>Each</b>	<b>187,00</b>	<b>259,00</b>

SCU

4251P



875/II

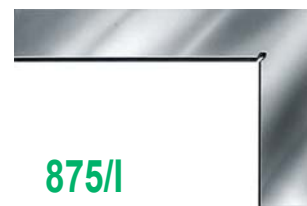
In steel, undeformable. Accurate execution according to DIN 875/II.  
 Completely ground. Heavy model. Polished edges.

Standard execution.

Dimensions	mm	75x50	100x70	150x100	200x130	250x160	300x200	500x330
Section	mm	15x5	20x5	25x5	30x6	35x7	40x8	50x10
<b>4259G</b>	<b>Each</b>	<b>12,80</b>	<b>13,90</b>	<b>15,40</b>	<b>22,20</b>	<b>28,50</b>	<b>38,30</b>	<b>159,00</b>

SCU

4259G



875/I

Product description as Art. 4259G

Back squares, with screws.

Dimensions	mm	75x50	100x70	150x100	200x130	250x160	300x200	500x330
Section	mm	15x5	20x5	25x5	30x6	35x7	40x8	50x10
<b>4260G</b>	<b>Each</b>	<b>13,50</b>	<b>15,80</b>	<b>22,20</b>	<b>29,70</b>	<b>37,50</b>	<b>42,80</b>	<b>154,00</b>

SCU

4260G



875/I

11

**PRECISION STAINLESS STEEL SQUARES**

**4261G**

**SCU INOX**



**875/II**

**Prod. SCU**

In stainless steel. Accurate execution according to DIN 875/II.  
Completely ground. Heavy model. Finely polished edges.  
Standard execution.

Dimensions	mm	<b>75x50</b>	<b>100x70</b>	<b>150x100</b>	<b>200x130</b>	<b>250x160</b>	<b>300x200</b>
Section	mm	15x5	20x5	25x5	30x6	35x7	40x8
<b>4261G</b>	<b>Each</b>	<b>13,50</b>	<b>16,60</b>	<b>24,30</b>	<b>38,10</b>	<b>53,10</b>	<b>70,10</b>

**4262G**

**SCU INOX**



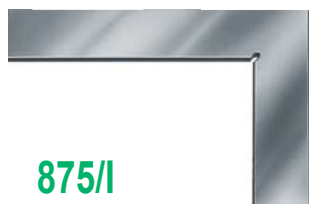
**875/II**

Product description as Art. 4261G  
Back squares, with screws.

Dimensions	mm	<b>75x50</b>	<b>100x70</b>	<b>150x100</b>	<b>200x130</b>	<b>250x160</b>	<b>300x200</b>
Section	mm	15x5	20x5	25x5	30x6	35x7	40x8
<b>4262G</b>	<b>Each</b>	<b>23,10</b>	<b>28,10</b>	<b>36,70</b>	<b>51,90</b>	<b>72,90</b>	<b>88,40</b>

**4263G**

**SCU INOX**



**875/I**

In stainless steel. Accurate execution according to DIN 875/II.  
Completely ground. Heavy model. Finely polished edges.  
Standard execution.

Dimensions	mm	<b>75x50</b>	<b>100x70</b>	<b>150x100</b>	<b>200x130</b>	<b>250x160</b>	<b>300x200</b>	<b>500x330</b>
Section	mm	15x5	20x5	25x5	30x6	35x7	40x8	40x8
<b>4263G</b>	<b>Each</b>	<b>13,90</b>	<b>15,80</b>	<b>19,50</b>	<b>25,20</b>	<b>43,20</b>	<b>48,30</b>	<b>158,00</b>

**4264G**

**SCU INOX**



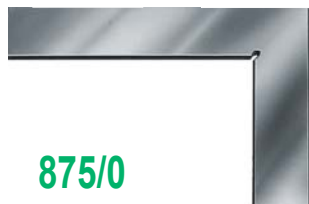
**875/I**

Product description as Art. 4263G  
Back squares, with screws.

Dimensions	mm	<b>75x50</b>	<b>100x70</b>	<b>150x100</b>	<b>200x130</b>	<b>250x160</b>	<b>300x200</b>	<b>500x330</b>
Section	mm	15x5	20x5	25x5	30x6	35x7	40x8	40x8
<b>4264G</b>	<b>Each</b>	<b>17,30</b>	<b>22,50</b>	<b>35,70</b>	<b>46,20</b>	<b>62,70</b>	<b>73,20</b>	<b>230,00</b>

**4265G**

**SCU INOX**



**875/0**

In stainless steel. Accurate execution according to DIN 875/II.  
Completely ground. Heavy model. Finely polished edges.  
Standard execution.

Dimensions	mm	<b>75x50</b>	<b>100x70</b>	<b>150x100</b>	<b>200x130</b>	<b>250x160</b>	<b>300x200</b>
Section	mm	15x5	20x5	25x5	30x6	35x7	40x8
<b>4265G</b>	<b>Each</b>	<b>37,90</b>	<b>42,80</b>	<b>55,70</b>	<b>84,10</b>	<b>111,00</b>	<b>154,00</b>

Supplied with calibration certificate.

**4266G**

**SCU INOX**



**875/0**

Product description as Art. 4265G  
Back squares, with screws.

Dimensions	mm	<b>75x50</b>	<b>100x70</b>	<b>150x100</b>	<b>200x130</b>	<b>250x160</b>	<b>300x200</b>
Section	mm	15x5	20x5	25x5	30x6	35x7	40x8
<b>4266G</b>	<b>Each</b>	<b>52,10</b>	<b>56,10</b>	<b>98,10</b>	<b>139,00</b>	<b>206,00</b>	<b>225,00</b>

Supplied with calibration certificate.

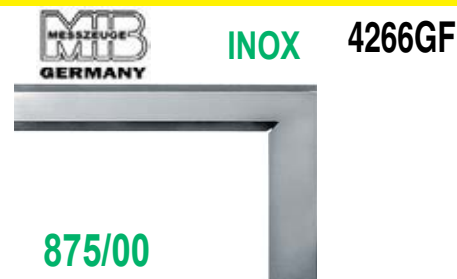
11

**HIGH PRECISION STAINLESS STEEL SQUARES**

**Orig. MIB**

In stainless steel. Extremely high precision machining according to DIN 875/00.  
With double bevelled staff.  
Fully hardened, finely ground and lapped.  
Simple.

Dimensions	mm	50x40	75x50	100x70	150x100	200x130
Section	mm	13x4	15x5	20x6	25x7	30x8
Supplier code		03038000	03038001	03038002	03038003	03038004
<b>4266GF</b>	<b>Each</b>	<b>28,70</b>	<b>33,10</b>	<b>40,20</b>	<b>64,60</b>	<b>89,10</b>



875/00

Product description as Art. 4266GF

With cap.

Dimensions	mm	50x40	75x50	100x70	150x100	200x130
Section	mm	13x4	15x5	20x6	25x7	30x8
Supplier code		03038010	03038011	03038012	03038013	03038014
<b>4266GH</b>	<b>Each</b>	<b>60,30</b>	<b>70,30</b>	<b>76,10</b>	<b>91,80</b>	<b>141,00</b>



875/00

**SETS OF MEASURING TOOLS**

**Prod. SCU**

Very high precision. Particularly suitable for diesinkers, fine mechanics, etc. In hardened steel, lapped surface.

Each 5-pcs. set contains:

- 1 x 75x50mm square with 2 bevels, stainless steel, DIN 875/00
- 1 x 40x28mm square with 1 inner bevel, stainless steel
- 1 x 25x20mm square with 1 inner bevel, stainless steel
- 1 x 100mm ruler DIN 874/00
- 1 x 60x8x8mm scribe.

Supplied in wooden case.

<b>4266GP</b>	<b>Each</b>	<b>113,00</b>
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4266GP

**MULTIDEGREES SQUARE**

**Prod. SCU**

In steel. Finely polished.  
Accuracy according to DIN 875/II.  
Type bent at 45°.

Standard execution.

Dimensions	mm	120x80	150x100	200x130
Section	mm	20x5	20x5	25x5
<b>4266GS</b>	<b>Each</b>	<b>27,10</b>	<b>33,10</b>	<b>46,20</b>



4266GS

875/II

Product description as Art. 4266GS

Back squares, with screws.

Dimensions	mm	120x80	150x100	200x130
Section	mm	20x5	20x5	25x5
<b>4266GT</b>	<b>Each</b>	<b>36,20</b>	<b>40,10</b>	<b>59,40</b>



4266GT

875/II

In steel. Finely polished.  
Accuracy according to DIN 875/II.  
Type bent at 45°.

Back squares, with screws.

Dimensions	mm	120x80	150x100	200x130
Section	mm	20x5	20x5	25x5
<b>4266GV</b>	<b>Each</b>	<b>24,10</b>	<b>26,40</b>	<b>35,40</b>



4266GV

875/II

**PRECISION ADJUSTABLE HAIR SQUARE**

4267G

SCU

875/0

**Prod. SCU**

In hardened steel, lapped measuring parts. Accuracy according to DIN 875/0. Rhomboidal ruler 60x4x4mm, adjustable. Base dimensions 40x22x10mm.

Particularly suitable for tool manufacturers, fine mechanics, diesinkers, etc.

Supplied in case.

4267G	Each	148,00
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**MULTIDEGREES SQUARE**

4267GA



1/25°

**Orig. MIB**

In steel. Ground and finely polished.

Accuracy: 1/25°. With back. With following angles: 120° - 90° - 45° - 30°.

Long side length	mm	100	120	150
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Supplier code	03043080	03043081	03043082
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4267GA	Each	47,40	55,30	63,20
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4267GB

SCU

875/II

**Prod. SCU**

In steel. Finely polished.

Accuracy according to DIN 875/II.

Standard execution. 120° angle.

Dimensions	mm	50x50	75x75	100x100
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Section	mm	15x5	18x5	20x5
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4267GB	Each	20,30	24,80	31,00
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4267GD

SCU

875/II



Product description as Art. 4267GB

Standard execution. 135° angle.

Dimensions	mm	50x50	75x75	100x100
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Section	mm	15x5	18x5	20x5
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4267GD	Each	20,30	24,80	31,00
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**PRECISION CENTERING SQUARES**

4267GE

SCU

875/I

**Prod. SCU**

In steel. Finely ground, chrome plated. Graduations in millimeters. Angle bisector accuracy according to DIN 875/I. Suitable for 45° and 90° angles, for locating round centres and for tracing.

Dimensions	mm	100x70	150x130	200x150
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For shafts up to Ø	mm	90	190	220
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4267GE	Each	43,50	52,50	64,20
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**FLANGE SQUARES**

4267GF

SCU

**Prod. SCU**

In steel, polished surface.

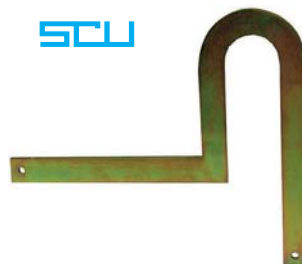
Dimensions	mm	300x300	500x500
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Section	mm	30x5	30x5
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4267GF	Each	23,10	34,80
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4267L

SCU



Elbow type, in steel, ground.

Arc's opening mm 60. Arc's depth mm 160.

Dimensions	mm	300	500
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Section	mm	30x6	30x6
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4267L	Each	61,30	62,70
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**ADJUSTABLE SQUARES**
**Prod. SCU**

In steel, finely polished.  
With lock screw.

Overall length	mm	200	250	300
<b>4268G</b>	Each	14,60	18,70	20,20

**SCU**

**4268G**
**COMBINATION SQUARES**
**Orig. MIB - Art. 03047010**

Standard type with graduated blade, one side in mm, the other side in inches.  
Sliding base for 45° - 90° angles and vial.

Rod length	mm	300
<b>4270GA</b>	Each	14,20

**MIB  
MESSZUGE  
GERMANY**

**4270GA**
**Orig. MIB - Art. 03047011**

Model complete with graduated blade, one side in mm, the other side in inches.  
45° to 90° multidegree square, level, scriber, goniometer, surface gauge.

Rod length	mm	300
<b>4270GE</b>	Each	89,10

**MIB  
MESSZUGE  
GERMANY**

**4270GE**
**Prod. SCU**

Combination model with goniometer, adjusting square, 3 vials and scriber tracciare.  
Graduated blade in stainless steel.

Rod length	mm	180
<b>4275G</b>	Each	11,20

**SCU**
**INOX**
**4275G**

**JOINER'S SQUARES**
**Prod. SCU**

Bevel type, aluminium base, steel blade with abrasion-resistant epoxy coating.  
Precise and clear double graduation.

Rod length	mm	200	250	300	400
<b>4285</b>	Each	9,28	9,52	9,82	10,80

**SCU**
**4285**


Bevel type, metal base, blade in stainless steel. Precise and clear double graduation.

Rod length	mm	200	250	300
<b>4286GB</b>	Each	11,60	13,10	13,60

**SCU**
**INOX**
**4286GB**

**Orig. MIB**

Bevel type, wooden base with brass edges, steel blade. Precise and clear double graduation.

Rod length	mm	250	300	400
Supplier code		03045011	03045013	03045012
<b>4290G</b>	Each	18,70	20,10	24,40

**MIB  
MESSZUGE  
GERMANY**

**4290G**

**SLIDING BEVEL SQUARES**

4294G

**Orig. MIB**Adjustable type for any angle. Central lock screw.  
Metal base and steel blade.

Blade length	mm	200	250	300
Supplier code		03047000	03047001	03047002
<b>4294G</b>	<b>Each</b>	<b>6,46</b>	<b>7,18</b>	<b>8,62</b>

**CARPENTER'S SQUARES**

4298G

SCU

**Prod. SCU**Non-graduated model, in steel.  
Finely polished.

Long rod length	mm	600	700	800
<b>4298G</b>	<b>Each</b>	<b>16,50</b>	<b>17,30</b>	<b>18,80</b>

4299G

SCU

Product description as Art. 4298G  
With holes for tracing.

Long rod length	mm	600	700	800
<b>4299G</b>	<b>Each</b>	<b>23,10</b>	<b>24,10</b>	<b>25,50</b>

4299GE

SCU



Graduation in millimeters on both edges. In flexible steel with scratch-resistant powder coating.

Long rod length	mm	600	700	800
<b>4299GE</b>	<b>Each</b>	<b>20,60</b>	<b>21,80</b>	<b>23,10</b>

4299GF

SCU

Product description as Art. 4299GE  
With holes for tracing.

Long rod length	mm	600	700	800
<b>4299GF</b>	<b>Each</b>	<b>26,20</b>	<b>28,10</b>	<b>29,50</b>

**SQUARES WITH GONIOMETERS**

4299GL

SCU

**Prod. SCU**

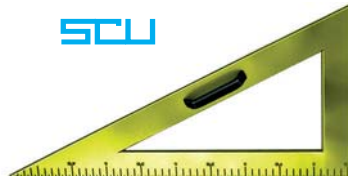
Graduation in millimeters on both sides with holes for tracing, complete with 90° goniometer. In flexible steel coated with scratch-resistant powder finish. Suitable for carpenters, joiners, masons, frame and stairs installers, etc.

Long rod length	mm	800
<b>4299GL</b>	<b>Each</b>	<b>153,00</b>

**GLASS SQUARES AND RULES**

4300

SCU

**Prod. SCU**In special plastic material, scratch-resistant, with handle.  
Graduation in centimeters.  
Square: 500x250mm.

<b>4300</b>	<b>Each</b>	<b>5,38</b>
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4300A

SCU

Product description as Art. 4300  
Rule: 1000mm.

<b>4300A</b>	<b>Each</b>	<b>7,54</b>
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**JOINER'S PENCILS**

4301

SCU

**Prod. SCU**Wooden flat type. Length: 180mm.  
Packing unit: 144 pcs. not sold separately.

<b>4301</b>	<b>Per pack</b>	<b>27,60</b>
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**SURFACE GAUGES**
**Prod. SCU**

Round cast iron base and round ground rod. Hardened steel scriber.


**4310**

Rod length	mm	300	400	500
<b>4310</b>	Each	44,10	49,30	52,90



Rectangular cast iron base, ground prismatic support base.

Round ground rod, adjustable by means of a micrometer screw. Hardened steel scriber.


**4312**

Rod length	mm	300	400	500
<b>4312</b>	Each	56,40	59,90	63,40


**PRECISION HEIGHT SURFACE GAUGES**
**Orig. MIB**

Rectangular cast iron base. Rectangular millimeter rod in special steel, matt chrome plated.

Micrometer adjustment. Scriber with hardmetal insert. Vernier scale 1/20 mm.


**4316B**

Measuring capacity	mm	300	500
Supplier code		06067020	06067022
<b>4316B</b>	Each	101,00	187,00

**Orig. MIB - Art. 06067022**

Hard metal spare tip for Art. 4316 B.

For gauge markers	mm	300	500
<b>O4316B</b>	Each	28,70	28,70


**1/20**
**Prod. SCU**

Adjustable graduated scale and magnifier lens. Cast iron base. Rectangular millimeter rod in stainless steel, matt chrome plated. Millimeter adjustment. Scriber with hardmetal insert. Vernier scale 1/50 mm.


**INOX**
**4316E**

Measuring capacity	mm	300	500	600	1000
<b>4316E</b>	Each	143,00	265,00	282,00	1.170,00

Size mm 500 running out of stock.

Spare tip for Art. 4316 E (and for any size).

<b>O4316E</b>	Each	70,50
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**1/50**
**PRECISION HEIGHT GAUGES WITH DOUBLE COLUMN**
**Orig. MIB**

Dial reading. Double steel column for positive and negative value measurements compared to zero.

Heavy cast iron rectangular basement, ground.

Scriber with hardmetal insert. 0.01mm dial reading.

1mm counter reading.


**INOX**
**4316L**

Measuring capacity	mm	300	600
Supplier code		06067050	06067052
<b>4316L</b>	Each	302,00	603,00

**Orig. MIB - Art. 06067052**

Spare tip for Art. 4316 L and 4316 P mm 300 e 600.

<b>O4316L</b>	Each	28,70
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**1/100**

**4316P**  
new



INOX

Orig. MIB

Immediate digital reading, with liquid crystals. Double stainless steel column and display with tall digits for easy reading.  
Rectangular base made of heavy cast iron, with ground bearing surface.  
Hard metal tipped scriber. Direct reading 0.01 (1/100) of a millimetre and 0.0005 (1/1000) of an inch.

Resets also for relative and compared measurements. Powered by a 1.5 V battery.

Measuring capacity	mm	300	600
Supplier code		02027020	02027022
<b>4316P</b>	Each	<b>531,00</b>	<b>976,00</b>

For spare tips see Art. O4316 L.

1/100

**PRECISION HEIGHT ELECTRONIC GAUGES**

**4317GA**



INOX

Orig. MIB

Fast LCD digit reading.  
With adjusting micrometer screw. Hardened metal tip.  
Metric/inch double measuring scale.  
Direct reading 0.01 (1/100) mm and 0.0005 (1/1000) inch.  
Zeroresetting also for relative and incremental measurements.  
1,5 V battery power supply. Heavy cast iron rectangular basement.  
Stainless steel rod.

Measuring capacity	mm	300	500
Supplier code		02027001	02027002
<b>4317GA</b>	Each	<b>286,00</b>	<b>437,00</b>

Orig. MIB - Art. 02027002

Spare tip for Art. 4317 GA.

Measuring capacity	mm	300	500
<b>O4317GA</b>	Each	<b>28,70</b>	<b>31,60</b>

1/100

**4317GC**



INOX

Orig. MIB

Fast LCD digit reading. High digits for easy reading.  
With rapid and precise approach handwheel and adjusting micrometer screw. Hardened metal tip.  
Metric inch double measuring scale.  
Direct reading 0.01 (1/100) mm and 0.0005 (1/1000) inch.  
Zeroresetting also for relative and incremental measurements. 1,5 V battery power supply.  
Ergonomic heavy cast iron basement.  
Stainless steel rod dimensioned for a higher stiffness. Metal casing containing electronic components.

Measuring capacity	mm	300	600
Supplier code		02027105	02027107
<b>4317GC</b>	Each	<b>345,00</b>	<b>503,00</b>

Orig. MIB - Art. 02027107

Spare tip in hard metal for Art. 4317 GC 300 - 600.

<b>O4317GC</b>	Each	<b>28,70</b>
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1/100



**PROFILE GAUGES**

**4319**

SCU



Prod. SCU

Professional model.  
Particularly suitable for modelmakers, installers, etc. Indispensable to measure curved, square, oval etc. surfaces, and for tridimensional surveys.  
Guided sliding needles in hardened steel. Measuring range: 300mm. Needle length: 150mm.  
Support width: 45mm.

<b>4319</b>	Each	<b>76,70</b>
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**4319A**

SCU



Standard model.

Indispensable to measure curved, square, oval etc. surfaces, and for tridimensional surveys.  
Hardened steel needles. Measuring range: 150mm. Needle length: 85mm. Support width: 40mm.

<b>4319A</b>	Each	<b>11,10</b>
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Professional model, anti-scratch.  
 Particularly suitable for modelmakers, installers, etc. Indispensable to measure curved, square, oval etc. surfaces, and for tridimensional surveys. Needles in synthetic materials, anti-scratch.  
 Measuring range: 250mm. Needle length: 90mm. Support width: 45mm.

**4319B** Each **42,80**



**4319B**

**HAND SCRIBERS**

**Orig. MIB - Art. 04054000**

In hardened steel, knurled handle.  
 Straight type, length 175mm.

**4319D** Each **1,72**



**4319D**

**Prod. SCU**

In hardened steel, with handle in syntetic material .  
 Straight and 120° curved type, length 200mm.

**4319L** Each **2,20**



**4319L**

Hardened steel, knurled grip.  
 Straight and 90° curved type, length 200mm.

**4319M** Each **3,14**



**4319M**

**Orig. MIB - Art. 04054015**

Product description as Art. 4319M  
 Straight and 90° curved type, length 250mm.

**4319P** Each **2,30**



**4319P**

**Prod. SCU**

Steel with HARD METAL tip, plastic handle.  
 Straight type, length 170mm.

**4319R** Each **3,94**



**4319R**

In steel, carbide tip.  
 Pen-type with clip and fixed tip. Length: 140mm.

**4320** Each **2,56**



**4320**

In alumium, carbide tip.  
 Pen-type with clip and interchangeable tip. Length: 145mm.

**4321** Each **5,28**



**4321**

Spare hard metal tip for Art. 4321.

**O4321** Each **2,64**

In alumium, carbide tip.  
 Pen-type with clip and reverse, interchangeable tip. Length: 150mm.

**4322** Each **7,40**



**4322**

Spare hard metal tip for Art. 4322.

**O4322** Each **2,64**

**Orig. MIB - Art. 04055004**

Ergonomic with rubber non-slip handle and aluminium body.  
 Hard metal tip. To remove the tip, pull the rear metal part.  
 Pen type with clip and interchangeable tip, open length 140 mm , closed length 117 mm.

**4322E** Each **8,62**



**4322E**  
*new*

Spare tip in carbide for Art. 4322 E.

**O4322E** Each **2,88**



HARTMETALL

**4323A**  **HARTMETALL**

**Orig. MIB - Art. 04055015**

In steel, carbide tip.

Pen-type with clip and fixed tip. Length: 160mm.

<b>4323A</b>	Each	<b>2,88</b>
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**4323B**  **HARTMETALL**

**Prod. SCU**

Product description as Art. 4323A

Pen-type with spindle and interchangeable tip. Length: 140mm.

<b>4323B</b>	Each	<b>3,72</b>
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Spare hard metal tip for Art. 4323 B.

<b>O4323B</b>	Each	<b>2,18</b>
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**4323G**  **HARTMETALL**


Pen-type with cap and clip. In steel, with carbide fixed tip.

Knurled housing Ø 8mm.

Overall length mm 145

<b>4323G</b>	Each	<b>26,90</b>
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**4324GA**  **HARTMETALL**


Straight type with carbide tip.

Knurled grip.

Overall length mm 160

<b>4324GA</b>	Each	<b>4,46</b>
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**4324GB**  **HARTMETALL**


Straight and 120°-bent type with carbide tips.

Knurled grip.

Overall length mm 230

<b>4324GB</b>	Each	<b>6,12</b>
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**4324GE**  **HARTMETALL**

**Orig. MIB - Art. 04055020**

Straight and 90°-bent type with carbide tips.

Knurled grip.

Overall length mm 220

<b>4324GE</b>	Each	<b>7,18</b>
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### HAND SCRIBERS WITH PUNCH

**4325G**  **HARTMETALL**

**Orig. MIB - Art. 04055018**

Pen type, with clip. Double tip, in carbide, turneable and interchangeable. Knurled grip. By unscrewing the front hexagonal part turns into a steel punch.

Overall length mm 150

<b>4325G</b>	Each	<b>12,20</b>
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**4325GA**  **HARTMETALL**

**Orig. MIB - Art. 04055019**

Spare tip in hard metal, double, turneable for Art. 4325 G.

<b>4325GA</b>	Each	<b>4,74</b>
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Product running out of stock.

### STEEL MARKING GAUGES

**4328G** 

**Prod. SCU**

In steel. Marker with millimeter round rod.

Slider support flange. Reading: 1/10 millimeter.

Carbide scriber Ø mm 6.

Capacity mm 200 300 500

<b>4328G</b>	Each	<b>56,40</b>	<b>70,50</b>	<b>88,10</b>
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Spare scriber in hard metal, for Art. 4328 G 200-300-500.

<b>O4328GA</b>	Each	<b>13,40</b>
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**4328GE**  **INOX**


Flat type. Made of stainless steel, hardened and chrome plated. Millimetre scale.

Capacity mm 200 250 300

<b>4328GE</b>	Each	<b>22,90</b>	<b>24,10</b>	<b>25,20</b>
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For marker calipers see Art. 3749 B.

### STEEL MARKING GAUGES WITH SQUARES

**4328GL**  **INOX**

**Prod. SCU**

Combined with team model for tracking operations, measurements of angles. Central body with

stainless steel Protractor, graduated with a circular scale is divided into 4 parts from 0° to 90°.

With flat Guide, Matt-finish chromium graduated, with capacity from 0 to 300 mm.

<b>4328GL</b>	Each	<b>63,10</b>
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**QUADRUPLE V BLOCKS**

**Prod. SCU**

Cross-type, in steel. With ground surfaces.  
Accuracy: 0.02mm. Sold in two's only.

Size		42	60	75	100	120	150
Dimensions	mm	42x42	60x60	75x75	100x80	120x90	150x100
<b>4330</b>	<b>Per pair</b>	<b>81,10</b>	<b>113,00</b>	<b>141,00</b>	<b>184,00</b>	<b>236,00</b>	<b>317,00</b>

Size 42 running out of stock.

SCU



4330

2/100

**PRECISION V BLOCKS**

**Prod. SCU**

Cross-type, with clamp for cylinders. In hardened steel, ground and lapped. Two 90° angles.  
Accuracy: 0.004mm.  
Sold in two's only.

Size		50	75	100
Dimensions	mm	50x40x40	75x55x55	100x75x75
Ø for cylindrical bodies	mm	5-30	5-50	7-70
<b>4331G</b>	<b>Per pair</b>	<b>194,00</b>	<b>253,00</b>	<b>344,00</b>

Wooden case for Art. 4331G.

Size		50	75	100
<b>O4331G</b>	<b>Each</b>	<b>28,90</b>	<b>37,20</b>	<b>58,10</b>

SCU



4331G

4/1000

**PRECISION MAGNETIC V BLOCKS**

**Orig. Mib**

Magnetic type. Switching on and off via switch.  
In hardened steel, ground and lapped in PAIRS. Accuracy: 0.005mm.  
Particularly suitable for use on machine tools.  
Sold in pairs only.

Size		80	100
Dimensions	mm	80x67x96	100x70x96
Ø for cylindrical bodies	mm	6-66	6-72
Prism side magnet force	kN	400	400
Flat side magnet force	kN	1000	1200
<b>4331GE</b>	<b>Per pair</b>	<b>976,00</b>	<b>1.300,00</b>

MIB  
MESSZUGE  
GERMANY



4331GE

5/1000

**Prod. SCU**

Magnetic type. Switching on and off through switch.  
In hardened steel, ground and lapped. Accuracy: 0.004mm.  
Particularly suitable to be used on machine tools.  
In wooden case.

Size		80	100
Dimensions	mm	80x67x96	100x70x96
Ø for cylindrical bodies	mm	6-66	6-70
Prism side magnet force	kN	400	400
Flat side magnet force	kN	900	1200
<b>4331GM</b>	<b>Each</b>	<b>653,00</b>	<b>839,00</b>

For single use

SCU



4331GM

4/1000

Magnetic type. Switching on and off through switch.  
In hardened steel, ground and finely worked. Accuracy: parallelism 0.01mm, orthogonality 0.02mm, angular 0.02mm.  
Particularly suitable to be used on machine tools.

Size		85	130
Dimensions	mm	85x70x85	130x70x85
Ø for cylindrical bodies	mm	50	50
<b>4331P</b>	<b>Each</b>	<b>536,00</b>	<b>645,00</b>

For single use

SCU



4331P

1/100

2/100

**Orig. Mib**

Magnetic type. Switching on and off via switch.  
In hardened steel, ground and finely polished.  
Particularly suitable for use on machine tools.  
Dimensions 95x70x100mm. For cylindrical bodies Ø 6-66mm. Flat side magnet strength 1000kN.

<b>4331T</b>	<b>Each</b>	<b>143,00</b>
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For single use

MIB  
MESSZUGE  
GERMANY



4331T

1/100

**PRECISION V BLOCKS**

**4332** **SCU** **2/100**



**Prod. SCU**  
 Right angle type, in steel.  
 Ground surfaces.  
 Accuracy: 0.02mm. Sold in two's only.

Size		<b>100</b>	<b>150</b>	<b>200</b>
Dimensions	mm	100x45	150x55	200x70
<b>4332</b>	<b>Per pair</b>	<b>91,60</b>	<b>152,00</b>	<b>205,00</b>

**SURFACE PLATES**

**4335** **SCU** **2/100**



**Prod. SCU**  
 Heavy finish in special cast iron, indeformable.  
 Ground surface.  
 Accuracy according to DIN 876, II Degree

Dimensions	mm	<b>300x200</b>	<b>400x300</b>	<b>500x300</b>	<b>500x400</b>	<b>600x500</b>	<b>800x500</b>
Tolerance ±	mm	0,013	0,014	0,015	0,015	0,016	0,018
Weight	Kg	10	20	28	35	55	80
<b>4335</b>	<b>Each</b>	<b>285,00</b>	<b>456,00</b>	<b>541,00</b>	<b>676,00</b>	<b>971,00</b>	<b>1.400,00</b>

**4336** **SCU** **1/100**



Product description as Art. 4335  
 Accuracy according to DIN 876, Grade I

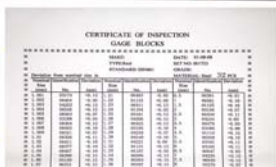
Dimensions	mm	<b>300x200</b>	<b>400x300</b>	<b>500x300</b>	<b>500x400</b>	<b>600x500</b>	<b>800x500</b>
Tolerance ±	mm	0,0065	0,007	0,0075	0,0075	0,008	0,009
Weight	Kg	10	20	28	35	55	80
<b>4336</b>	<b>Each</b>	<b>320,00</b>	<b>516,00</b>	<b>654,00</b>	<b>768,00</b>	<b>1.150,00</b>	<b>1.600,00</b>

**SETS OF GAUGES BLOCKS**

**4339GA**  
**4339GB**  
**4339GC**



**Grado**  
**0-1-2**  
**32 Pz.**



**Orig. MIB - Art. 06062000-06062001-06062002**  
 In high resistance special steel, accuracy according to DIN EN ISO 3650, for control stations and workshop. Lapped finish. Individual identification number and certificate of inspection. SIT or DKD certification available on request. Supplied in wooden case.  
 The set consists of 32pcs. having following dimensions:  
 No.1 x 1.005 mm  
 No.9 x 1.01 to 1.09mm (progression 0.01mm)  
 No.9 x 1.10 to 1.90mm (progression 0.10mm)  
 No.9 x 1 to 9mm (progression 1mm)  
 No.1 for each 10 - 20 - 30 - 50.  
 Accuracy grade 0.

<b>4339GA</b>	<b>Each</b>	<b>474,00</b>
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Product description as Art. 4339GA  
 Accuracy grade 1.

<b>4339GB</b>	<b>Each</b>	<b>287,00</b>
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Product description as Art. 4339GA  
 Accuracy grade 2.

<b>4339GC</b>	<b>Each</b>	<b>187,00</b>
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Loose verification blocks, level 0 - 1 available on request.

**11**  
**4340GA**  
**4340GB**  
**4340GC**



**Grado**  
**0-1-2**  
**47 Pz.**



**Orig. MIB - Art. 06062005-06062006-06062007**  
 In high resistance special steel, accuracy according to DIN EN ISO 3650, for control stations and workshop. Lapped finish. Individual identification number. SIT or DKD certification available on request. Supplied in wooden case. 47-pcs. set having following dimensions:  
 1 x 1.005mm  
 20 x 1.01 to 1.20 mm (progression 0.01mm)  
 7 x 1.30 to 1.90mm (progression 0.10mm)  
 9 x 1 to 9mm (progression 1mm)  
 10 x 10 to 100 mm (progression 10mm).  
 Accuracy grade 0.

<b>4340GA</b>	<b>Each</b>	<b>718,00</b>
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Product description as Art. 4340GA  
 Accuracy grade 1.

<b>4340GB</b>	<b>Each</b>	<b>431,00</b>
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Product description as Art. 4340GA  
 Accuracy grade 2.

<b>4340GC</b>	<b>Each</b>	<b>287,00</b>
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Loose verification blocks, level 0 - 1 available on request.



**Orig. MIB - Art. 06062010-06062011-06062012**

In high resistance special steel, accuracy according to DIN EN ISO 3650, for control stations and workshop. Lapped finish. Individual identification number and certificate of inspection. SIT or DKD certification available on request. Supplied in wooden case.

The set consists of 87pcs. having following dimensions:

No.9 x 1.001 to 1.009mm (progression 0.001mm)

No.49 x 1.01 to 1.49mm (progression 0.01mm)

No.19 x 0.5 to 9.5mm (progression 0.50mm)

No.10 x 10 to 100mm (progression 10mm).

Accuracy grade 0.

**4341GA** Each **1.010,00**

Product description as Art. 4341GA

Accuracy grade 1.

**4341GB** Each **660,00**

Product description as Art. 4341GA

Accuracy grade 2.

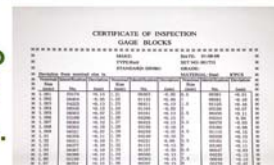
**4341GC** Each **416,00**

Loose verification blocks, level 0 - 1 and an assortment of 103 pcs, level 0-1-2 available on request.



**4341GA**  
**4341GB**  
**4341GC**

**Grado**  
**0-1-2**  
**87 Pz.**



**Orig. MIB - Art. 06061086-06061087**

Made from high-resistance ceramic with accuracy according to DIN EN ISO 3650, suitable for use in a metrological room and for control of measuring instruments, etc. Lapped finish. With individual identification number and inspection certificate. SIT or DKD certification available upon request. In a wooden box.

Comprises 47 pieces in the following sizes:

1 pcs./1.005 mm

20 pcs./from 1.01 to 1.20 mm (steps of 0.01mm)

7 pcs./from 1.30 to 1.90 mm (steps of 0.10mm)

9 pcs./from 1 to 9 mm (steps of 1mm)

10 pcs./from 10 to 100 mm (steps of 10mm).

Accuracy grade 0.

**4345GA** Each **2.880,00**

Product description as Art. 4345GA

Accuracy grade 1.

**4345GB** Each **2.390,00**



**4345GA**  
**4345GB**

**Grado**  
**0-1**  
**47 Pz.**



**PLUG GAUGES**

**Orig. MIB**

Plug gauge according to DIN 2245, PASS-NOT PASS, smooth, in special hardened steel, tolerance 7h.



**4350GA**

Nominal measure Ø	mm	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	
Supplier code		08086001	08086002	08086004	08086005	08086006	08086007	08086008	08086009	08086010	08086011	
<b>4350GA</b>	<b>Each</b>	<b>28,70</b>	<b>28,70</b>	<b>28,70</b>	<b>28,70</b>	<b>30,20</b>	<b>30,20</b>	<b>30,20</b>	<b>30,90</b>	<b>30,90</b>	<b>30,90</b>	
Nominal measure Ø	mm	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	
Supplier code		08086012	08086013	08086014	08086015	08086016	08086017	08086018	08086019	08086020	08086021	
<b>4350GA</b>	<b>Each</b>	<b>30,90</b>	<b>30,90</b>	<b>30,90</b>	<b>30,90</b>	<b>32,30</b>	<b>32,30</b>	<b>34,50</b>	<b>34,50</b>	<b>37,30</b>	<b>37,30</b>	
Nominal measure Ø	mm	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>30</b>	<b>32</b>	<b>33</b>	
Supplier code		08086022	08086023	08086024	08086025	08086026	08086027	08086028	08086030	08086032	08086033	
<b>4350GA</b>	<b>Each</b>	<b>37,30</b>	<b>37,30</b>	<b>37,30</b>	<b>37,30</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>44,50</b>	<b>45,90</b>	<b>45,90</b>	
Nominal measure Ø	mm	<b>34</b>	<b>35</b>	<b>36</b>	<b>38</b>	<b>40</b>	<b>42</b>	<b>44</b>	<b>45</b>	<b>46</b>	<b>48</b>	
Supplier code		08086034	08086035	08086036	08086038	08086040	08086042	08086044	08086045	08086046	08086048	
<b>4350GA</b>	<b>Each</b>	<b>45,90</b>	<b>51,70</b>	<b>54,60</b>	<b>54,60</b>	<b>57,40</b>	<b>63,20</b>	<b>63,20</b>	<b>86,10</b>	<b>86,10</b>	<b>86,10</b>	
Nominal measure Ø	mm	<b>50</b>	<b>52</b>	<b>55</b>	<b>58</b>	<b>60</b>	<b>62</b>	<b>65</b>	<b>68</b>	<b>70</b>	<b>72</b>	
Supplier code		08086050	08086052	08086055	08086058	08086060	08086062	08086065	08086068	08086070	08086072	
<b>4350GA</b>	<b>Each</b>	<b>86,10</b>	<b>97,60</b>	<b>97,60</b>	<b>97,60</b>	<b>104,00</b>	<b>104,00</b>	<b>130,00</b>	<b>130,00</b>	<b>130,00</b>	<b>130,00</b>	
Nominal measure Ø	mm	<b>75</b>	<b>78</b>	<b>80</b>	<b>82</b>	<b>85</b>	<b>88</b>	<b>90</b>	<b>92</b>	<b>95</b>	<b>98</b>	
Supplier code		08086075	08086078	08086080	08086082	08086085	08086088	08086090	08086092	08086095	08086098	
<b>4350GA</b>	<b>Each</b>	<b>165,00</b>	<b>165,00</b>	<b>173,00</b>	<b>173,00</b>	<b>187,00</b>	<b>187,00</b>	<b>201,00</b>	<b>201,00</b>	<b>230,00</b>	<b>230,00</b>	
Nominal measure Ø	mm	<b>100</b>										
Supplier code		08086100										
<b>4350GA</b>	<b>Each</b>	<b>244,00</b>										

**RING GAUGES**

**4350GB**



Orig. MIB

Ring gauge according to DIN 2250C, smooth. For measuring instruments zero setting. In hardened special steel, rectified and lapped.

Nominal measure Ø mm		3	3,5	4	4,5	5	6	7	8	9	10	11	12
Supplier code		08088100	08088101	08088102	08088103	08088104	08088106	08088107	08088108	08088109	08088110	08088111	08088112
<b>4350GB</b>	Each	43,10	43,10	43,10	43,10	43,10	44,50	44,50	44,50	44,50	45,90	45,90	45,90
Nominal measure Ø mm		13	14	15	16	17	18	19	20	21	22	23	24
Supplier code		08088113	08088114	08088115	08088116	08088117	08088118	08088119	08088120	08088121	08088122	08088123	08088124
<b>4350GB</b>	Each	45,90	45,90	45,90	48,80	48,80	48,80	48,80	48,80	51,70	51,70	51,70	51,70
Nominal measure Ø mm		25	26	27	28	30	32	33	34	35	36	37	38
Supplier code		08088125	08088126	08088127	08088128	08088129	08088130	08088131	08088132	08088133	08088134	08088135	08088136
<b>4350GB</b>	Each	51,70	57,40	57,40	57,40	64,60	67,50	67,50	67,50	67,50	80,40	80,40	83,20
Nominal measure Ø mm		40	42	44	45	46	47	48	50	52	55	58	60
Supplier code		08088137	08088138	08088139	08088140	08088141	08088142	08088143	08088144	08088145	08088146	08088147	08088148
<b>4350GB</b>	Each	83,20	87,50	87,50	87,50	101,00	101,00	104,00	108,00	115,00	115,00	122,00	122,00
Nominal measure Ø mm		62	65	68	70	72	75	78	80	82	85	88	90
Supplier code		08088149	08088150	08088151	08088152	08088153	08088154	08088155	08088156	08088157	08088158	08088159	08088160
<b>4350GB</b>	Each	132,00	132,00	132,00	143,00	143,00	143,00	143,00	158,00	173,00	187,00	194,00	201,00
Nominal measure Ø mm		92	95	98	100	125	150	175	200				
Supplier code		08088161	08088162	08088163	08088164	08088169	08088175	08088180	08088181				
<b>4350GB</b>	Each	208,00	216,00	216,00	230,00	431,00	632,00	890,00	1.210,00				

**THREAD PLUG GAUGES**

**4350GE**



Orig. MIB

Plug gauge according to DIN 13, PASS-NOT PASS for right metric threads, in hardened special steel, tolerance 6H.

Nominal measure Ø mm		2	2,5	3	3,5	4	5	6	7	8	9	
Pitch		0,4	0,45	0,5	0,6	0,7	0,8	1	1	1,25	1,25	
Supplier code		08088300	08088301	08088302	08088303	08088304	08088305	08088306	08088307	08088308	08088309	
<b>4350GE</b>	Each	43,10	43,10	43,10	43,10	43,10	43,10	43,10	43,10	43,10	43,10	
Nominal measure Ø mm		10	11	12	14	16	18	20	22	24	27	
Pitch		1,5	1,5	1,75	2	2	2,5	2,5	2,5	3	3	
Supplier code		08088310	08088311	08088312	08088313	08088314	08088315	08088316	08088317	08088318	08088319	
<b>4350GE</b>	Each	43,10	43,10	43,10	43,10	43,10	43,10	43,10	43,10	43,10	50,20	
Nominal measure Ø mm		30	33	36								
Pitch		3,5	3,5	4								
Supplier code		08088320	08088321	08088322								
<b>4350GE</b>	Each	57,40	57,40	78,90								

**THREAD RING GAUGES**

**4350GF**



Orig. MIB

Ring gauge according to DIN 13, PASS for right metric threads, in hardened special steel, tolerance 6g.

Nominal measure Ø mm		2	2,5	3	3,5	4	5
Pitch		0,4	0,45	0,5	0,6	0,7	0,8
Supplier code		08088400	08088401	08088402	08088403	08088404	08088405
<b>4350GF</b>	Each	48,80	48,80	48,80	48,80	43,10	43,10
Nominal measure Ø mm		6	7	8	9	10	11
Pitch		1	1	1,25	1,25	1,5	1,5
Supplier code		08088406	08088407	08088408	08088409	08088410	08088411
<b>4350GF</b>	Each	43,10	43,10	43,10	43,10	43,10	43,10
Nominal measure Ø mm		12	14	16	18	20	22
Pitch		1,75	2	2	2,5	2,5	2,5
Supplier code		08088412	08088413	08088414	08088415	08088416	08088417
<b>4350GF</b>	Each	43,10	43,10	43,10	50,20	50,20	50,20
Nominal measure Ø mm		24	27	30	33	36	
Pitch		3	3	3,5	3,5	4	
Supplier code		08088418	08088419	08088420	08088421	08088422	
<b>4350GF</b>	Each	57,40	57,40	71,80	71,80	83,20	

Prices in EURO - VAT not included

Ring gauge according to DIN 13, NO PASS for right metric threads, in hardened special steel, tolerance 6g.

Nominal measure Ø	mm	2	2,5	3	3,5	4	5
Pitch		0,4	0,45	0,5	0,6	0,7	0,8
Supplier code		08088450	08088451	08088452	08088453	08088454	08088455
<b>4350GL</b>	<b>Each</b>	<b>45,90</b>	<b>45,90</b>	<b>45,90</b>	<b>45,90</b>	<b>43,10</b>	<b>43,10</b>
Nominal measure Ø	mm	6	7	8	9	10	11
Pitch		1	1	1,25	1,25	1,5	1,5
Supplier code		08088456	08088457	08088458	08088459	08088460	08088461
<b>4350GL</b>	<b>Each</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>45,90</b>
Nominal measure Ø	mm	12	14	16	18	20	22
Pitch		1,75	2	2	2,5	2,5	2,5
Supplier code		08088462	08088463	08088464	08088465	08088466	08088467
<b>4350GL</b>	<b>Each</b>	<b>45,90</b>	<b>45,90</b>	<b>45,90</b>	<b>50,20</b>	<b>51,70</b>	<b>51,70</b>
Nominal measure Ø	mm	24	27	30	33	36	
Pitch		3	3	3,5	3,5	4	
Supplier code		08088468	08088469	08088470	08088471	08088472	
<b>4350GL</b>	<b>Each</b>	<b>60,30</b>	<b>60,30</b>	<b>63,20</b>	<b>63,20</b>	<b>66,10</b>	



M

4350GL



NON PASSA

**THREAD PLUG GAUGES**

Orig. MIB

Plug gauge according to DIN 13, PASS-NOT PASS for fine right metric threads, in hardened special steel, tolerance 6H.



MF

4350GP



Nominal measure Ø	mm	2	2,5	3	3,5	4	4	5	5	6	6
Pitch		0,35	0,35	0,35	0,35	0,35	0,5	0,35	0,5	0,35	0,5
Supplier code		08088500	08088501	08088502	08088503	08088504	08088505	08088506	08088507	08088508	08088509
<b>4350GP</b>	<b>Each</b>	<b>50,20</b>	<b>50,20</b>	<b>50,20</b>	<b>50,20</b>	<b>50,20</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>
Nominal measure Ø	mm	6	8	8	8	10	10	10	10	12	12
Pitch		0,75	0,5	0,75	1	0,5	0,75	1	1,25	0,5	0,75
Supplier code		08088510	08088511	08088512	08088513	08088514	08088515	08088516	08088517	08088518	08088519
<b>4350GP</b>	<b>Each</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>
Nominal measure Ø	mm	12	12	12	14	14	14	16	16	18	18
Pitch		1	1,25	1,5	1	1,25	1,5	1	1,5	1	1,5
Supplier code		08088520	08088521	08088522	08088523	08088524	08088525	08088526	08088527	08088528	08088529
<b>4350GP</b>	<b>Each</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>
Nominal measure Ø	mm	18	20	20	20	22	22	22	24	24	24
Pitch		2	1	1,5	2	1	1,5	2	1	1,5	2
Supplier code		08088530	08088531	08088532	08088533	08088534	08088535	08088536	08088537	08088538	08088539
<b>4350GP</b>	<b>Each</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>
Nominal measure Ø	mm	25	25	25	27	27	27	30	30	30	30
Pitch		1	1,5	2	1	1,5	2	1	1,5	2	3
Supplier code		08088540	08088541	08088542	08088543	08088544	08088545	08088546	08088547	08088548	08088549
<b>4350GP</b>	<b>Each</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>45,90</b>	<b>45,90</b>	<b>45,90</b>	<b>45,90</b>
Nominal measure Ø	mm	33	33	33	34	34	34	35	35	35	36
Pitch		1,5	2	3	1,5	2	3	1,5	2	3	1,5
Supplier code		08088550	08088551	08088552	08088553	08088554	08088555	08088556	08088557	08088558	08088559
<b>4350GP</b>	<b>Each</b>	<b>45,90</b>	<b>45,90</b>	<b>45,90</b>	<b>45,90</b>	<b>45,90</b>	<b>45,90</b>	<b>45,90</b>	<b>45,90</b>	<b>45,90</b>	<b>57,40</b>
Nominal measure Ø	mm	36	36	42							
Pitch		2	3	1,5							
Supplier code		08088560	08088561	08088568							
<b>4350GP</b>	<b>Each</b>	<b>57,40</b>	<b>57,40</b>	<b>93,30</b>							



**THREAD RING GAUGES**

**4350GR**



**MF**

Orig. MIB

Ring gauge according to DIN 13, PASS for fine right metric threads, in hardened special steel, tolerance 6g.



**PASS**

Nominal measure Ø	mm	2	2,5	3	3,5	4	4	5	5	6	6	6
Pitch		0,35	0,35	0,35	0,35	0,35	0,5	0,35	0,5	0,35	0,5	0,75
Supplier code		08088600	08088601	08088602	08088603	08088604	08088605	08088606	08088607	08088608	08088609	08088610
<b>4350GR</b>	Each	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80
Nominal measure Ø	mm	8	8	8	10	10	10	10	12	12	12	12
Pitch		0,5	0,75	1	0,5	0,75	1	1,25	0,5	0,75	1	1,25
Supplier code		08088611	08088612	08088613	08088614	08088615	08088616	08088617	08088618	08088619	08088620	08088621
<b>4350GR</b>	Each	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80
Nominal measure Ø	mm	12	14	14	14	16	16	18	18	18	20	20
Pitch		1,5	1	1,25	1,5	1	1,5	1	1,5	2	1	1,5
Supplier code		08088622	08088623	08088624	08088625	08088626	08088627	08088628	08088629	08088630	08088631	08088632
<b>4350GR</b>	Each	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80
Nominal measure Ø	mm	20	22	22	22	24	24	24	25	25	25	27
Pitch		2	1	1,5	2	1	1,5	2	1	1,5	2	1
Supplier code		08088633	08088634	08088635	08088636	08088637	08088638	08088639	08088640	08088641	08088642	08088643
<b>4350GR</b>	Each	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	53,10
Nominal measure Ø	mm	27	27	30	30	30	30	33	33	33	34	34
Pitch		1,5	2	1	1,5	2	3	1,5	2	3	1,5	2
Supplier code		08088644	08088645	08088646	08088647	08088648	08088649	08088650	08088651	08088652	08088653	08088654
<b>4350GR</b>	Each	53,10	53,10	64,60	64,60	64,60	64,60	64,60	64,60	64,60	64,60	64,60
Nominal measure Ø	mm	34	35	35	35	36	36	36	42			
Pitch		3	1,5	2	3	1,5	2	3	1,5			
Supplier code		08088655	08088656	08088657	08088658	08088659	08088660	08088661	08088668			
<b>4350GR</b>	Each	64,60	64,60	64,60	64,60	80,40	80,40	80,40	104,00			

**4350GS**



**MF**

Ring gauge according to DIN 13, NOT-PASS for fine right metric threads, in hardened special steel, tolerance 6g.



**NOT PASS**

Nominal measure Ø	mm	2	2,5	3	3,5	4	4	5	5	6	6	6
Pitch		0,35	0,35	0,35	0,35	0,35	0,5	0,35	0,5	0,35	0,5	0,75
Supplier code		08088900	08088901	08088902	08088903	08088904	08088905	08088906	08088907	08088909	08088910	08088911
<b>4350GS</b>	Each	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80
Nominal measure Ø	mm	8	8	8	10	10	10	10	12	12	12	12
Pitch		0,5	0,75	1	0,5	0,75	1	1,25	0,5	0,75	1	1,25
Supplier code		08088913	08088914	08088915	08088917	08088918	08088919	08088920	08088921	08088922	08088923	08088924
<b>4350GS</b>	Each	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80
Nominal measure Ø	mm	12	14	14	14	16	16	18	18	18	20	20
Pitch		1,5	1	1,25	1,5	1	1,5	1	1,5	2	1	1,5
Supplier code		08088925	08088931	08088932	08088933	08088938	08088939	08088943	08088944	08088945	08088948	08088949
<b>4350GS</b>	Each	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80
Nominal measure Ø	mm	20	22	22	22	24	24	24	25	25	25	27
Pitch		2	1	1,5	2	1	1,5	2	1	1,5	2	1
Supplier code		08088950	08088951	08088952	08088953	08088954	08088955	08088956	08088957	08088958	08088959	08088963
<b>4350GS</b>	Each	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	48,80	53,10
Nominal measure Ø	mm	27	27	30	30	30	30	33	33	33	34	34
Pitch		1,5	2	1	1,5	2	3	1,5	2	3	1,5	2
Supplier code		08088964	08088965	08088969	08088970	08088971	08088972	08088976	08088977	08088978	08088980	08088981
<b>4350GS</b>	Each	53,10	53,10	64,60	64,60	64,60	64,60	64,60	64,60	64,60	64,60	64,60
Nominal measure Ø	mm	34	35	35	35	36	36	36	42			
Pitch		3	1,5	2	3	1,5	2	3	1,5			
Supplier code		08088982	08088984	08088985	08088986	08088988	08088989	08088990	08089004			
<b>4350GS</b>	Each	64,60	64,60	64,60	64,60	80,40	80,40	80,40	104,00			

Prices in EURO - VAT not included

**THREAD PLUG GAUGES**

**Orig. MIB**

Plug gauge, PASS-NOT PASS for GAS Whitworth right threads according to DIN ISO 228, in hardened special steel.

Nominal measure Ø	inches	1/8	1/4	3/8	1/2	5/8	3/4
Supplier code		08088700	08088701	08088702	08088703	08088704	08088705
<b>4350GT</b>	<b>Each</b>	<b>45,90</b>	<b>45,90</b>	<b>45,90</b>	<b>50,20</b>	<b>50,20</b>	<b>57,40</b>
Nominal measure Ø	inches	7/8	1	1.1/4	1.1/2	1.3/4	2
Supplier code		08088706	08088707	08088708	08088709	08088710	08088711
<b>4350GT</b>	<b>Each</b>	<b>60,30</b>	<b>67,50</b>	<b>77,50</b>	<b>90,40</b>	<b>115,00</b>	<b>130,00</b>



**GAS 4350GT**



**THREAD RING GAUGES**

**Orig. MIB**

Ring gauge, PASS for GAS Whitworth right threads according to DIN ISO 228, in hardened special steel.

Nominal measure Ø	inches	1/8	1/4	3/8	1/2	5/8	3/4
Supplier code		08088730	08088731	08088732	08088733	08088734	08088735
<b>4350GV</b>	<b>Each</b>	<b>57,40</b>	<b>57,40</b>	<b>63,20</b>	<b>70,30</b>	<b>70,30</b>	<b>70,30</b>
Nominal measure Ø	inches	7/8	1	1.1/4	1.1/2	1.3/4	2
Supplier code		08088736	08088737	08088738	08088739	08088740	08088741
<b>4350GV</b>	<b>Each</b>	<b>90,40</b>	<b>90,40</b>	<b>115,00</b>	<b>115,00</b>	<b>140,00</b>	<b>144,00</b>



**GAS 4350GV**



**PASS**

Ring gauge, NOT-PASS for GAS Whitworth right threads according to DIN ISO 228, in hardened special steel.

Nominal measure Ø	inches	1/8	1/4	3/8	1/2
Supplier code		NO GO 1/8	NO GO 1/4	NO GO 3/8	NO GO 1/2
<b>4350GZ</b>	<b>Each</b>	<b>57,40</b>	<b>57,40</b>	<b>63,20</b>	<b>70,30</b>
Nominal measure Ø	inches	5/8	3/4	7/8	1
Supplier code		NO GO 5/8	NO GO 3/4	NO GO 7/8	NO GO 1
<b>4350GZ</b>	<b>Each</b>	<b>70,30</b>	<b>70,30</b>	<b>90,40</b>	<b>90,40</b>
Nominal measure Ø	inches	1.1/4	1.1/2	1.3/4	2
Supplier code		NO GO 1.1/4	NO GO 1.1/2	NO GO 1.3/4	NO GO 2
<b>4350GZ</b>	<b>Each</b>	<b>115,00</b>	<b>115,00</b>	<b>140,00</b>	<b>144,00</b>



**GAS 4350GZ**



**NOT PASS**

**ADDITION TIMERS**

**Prod. SCU**

Watchcase in unbreakable ABS.  
 1/10 second graduations.  
 Handy and shock-proof.  
 Multi-purpose.  
 Rear wind-up key with 3 buttons for start, stop and zerosetting.  
 Neat reading.  
 Centre seconds-hand: 1 turn corresponds to 30 seconds.  
 Counts minutes (up to 5 minutes).  
 Maximum precision.  
 Dial diameter: 55mm.

<b>4380G</b>	<b>Each</b>	<b>90,40</b>
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**4380G**



**Prod. SCU - Orig. Hanhart**

Watchcase in stainless steel.  
 Movement: anchor with 7 jewels.  
 1/5 second and 1/100 minute graduations.  
 Water-proof, shock-proof- antimagnetic.  
 For industrial applications (machining times) and any other application.  
 Neat reading.  
 One centre button for: winding up, start, stop and zerosetting.  
 Centre seconds-hand: 1 turn corresponds to 60 seconds.  
 Upper minutes-hand counts up to 30 minutes.  
 Maximum precision.  
 Dial diameter: 55mm.

<b>4382G</b>	<b>Each</b>	<b>217,00</b>
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**4382G**



4383G

SCU



Watchcase in stainless steel.  
 Movement: anchor with 7 jewels.  
 1/5 seconds and 1/100 minute graduations.  
 Water-proof-shock-proof-antimagnetic.  
 For industrial applications (machining times) and any other application.  
 Neat reading.  
 Centre button for: winding up, start and stop.  
 Lateral button for zerosetting.  
 Centre seconds-hand: 1 turn corresponds to 60 seconds.  
 Upper minutes-hand counts up to 30 minutes.  
 Maximum precision.  
 Dial diameter: 55mm.

4383G Each 221,00

4384GA

SCU



Watchcase in stainless steel.  
 Movement: anchor with 7 jewels.  
 1/5 second and 1/100 minute graduations.  
 Water-proof-shock-proof-antimagnetic..  
 Particularly indicated for taking total and intermediate machining times and for any other application.  
 Neat reading. Centre button for: winding up, start and stop.  
 Left button for zerosetting.  
 Right button for intermediate times start-stop.  
 Upper minutes-hand counts up to 30 minutes.  
 Maximum precision.  
 Dial diameter: 55mm.

4384GA Each 440,00

4384GE

SCU



Product description as Art. 4384GA  
 Model with zero setting and simultaneous restart function (split time function).

4384GE Each 452,00



### QUARTZ CONTROLLED LED STOPWATCHES

4384GT

SCU



Prod. SCU - Orig. Hanhart  
 Display with 7 digits (height 6.5mm) for reading 1/100 of second.  
 Field of measurement: 9 hours, 59 min., 59,99 sec.  
 Unbreakable ABS watchcase.  
 Start/stop button.  
 Split/reset button: split function for intermediate times, reset for zerosetting.  
 Operated by 1 x SR54 battery. Operating temperature range: -15 °C to +55 °C.  
 Dimensions: 66x70x21mm

4384GT Each 30,90



4385G

SCU



Display with 7 digits (height 7mm) for reading 1/100 of second.  
 Measurement range: 9 hours, 59 min., 59,99 sec.  
 Unbreakable ABS watchcase.  
 Start/stop button.  
 Split/reset button: split function for intermediate times, reset for zerosetting.  
 Operated by 1.5 V battery. Operating temperature range: -15 °C +55 °C.  
 Dimensions: 82x61x28mm.

4385G Each 44,50



Display with 7 digits (height 8mm) for reading 1/100 of second.  
 Measurement range: 9 hours, 59 min., 59,99 sec.  
 Unbreakable and waterproof abs watchcase.  
 Start/stop button.  
 Split/lap reset button: Split function for intermediate times, takes 2 related times.  
 Lap function for taking single times.  
 Reset for zerosetting.  
 Mode button for selecting split or lap function, with memory.  
 Light button for display illumination.  
 Operated by 1.5 V battery. Operating temperature range: -15 °C +60 °C.  
 Dimensions: 82x61x28mm.

SCU



4386G



**4386G** Each **76,70**

Display with 15 digits (height 7/5mm) for reading 1/100 of sec. and 1/100 min.  
 Upper display measuring range: 50min, 59,99 sec.  
 Lower display measuring range: 9h, 59min, 59,99sec.  
 Unbreakable and shock-proof ABS watchcase.  
 4 multifunction buttons for selecting the function chronometer (sum function, count-down, lap time, intermediate time), watch (hours, minutes and seconds) or calendar (year, month and day).  
 With 65 memories of lap times and intermediate times.  
 Operated by 1.5 V battery. Operating temperature range: -15 °C +60 °C.  
 Dimensions: 82x61x28mm.

SCU



4390G



**4390G** Each **221,00**

**PRECISION DIAL INDICATORS**

**Prod. SCU - Orig. Käfer**

1/10 graduations. With 1 hand for millimetres and tenths of millimetres. Stem and contact point in stainless steel.

Zerosetting by dial rotation. Metal case.

Dial Ø	mm	58
Drive Ø	mm	8 h 6
Measuring capacity	mm	10
Each pointer revolution	mm	10

**4400G** Each **85,80**

See accessories from Art. 4405 GA to Art. 4405 GF.

SCU

4400G



1/10

**Orig. MIB**

Division 1/100. With two lancets for indicating millimeters and hundredths of a millimeter. With tolerance markers.

Reset by turning the dial and screw. Metal casing.

Art.	4401GA	4401GB
Measuring capacity	mm 3	5
Dial Ø	mm 40	40
Drive Ø	mm 8 h 6	8 h 6
Each pointer revolution	mm 1	1
Supplier code	01024009	01024010
<b>Each</b>	<b>36,60</b>	<b>42,40</b>



4401GA

*new*

4401GB

*new*



1/100

**Orig. MIB - Art. 01023005**

DIN 878. 1/100 graduations. With 2 hands for millimetres and cents of millimetres. With tolerance markers.

Zerosetting by dial rotation and stop screw. Shock-proof with cap, metal case.

Dial Ø	mm	58
Drive Ø	mm	8 h 6
Measuring capacity	mm	10
Each pointer revolution	mm	1

**4402G** Each **30,20**



4402G



1/100

**11**

**4404GA** SCU



1/100

Prod. SCU - Orig. Käfer

DIN 878. 1/100 graduations. With 2 hands for millimetres and cents of millimetres. With tolerance markers. Stem and contact point in stainless steel.

Zeroseetting by dial rotation.

Metal case.

Dial Ø	mm	40
Drive Ø	mm	8 h 6
Measuring capacity	mm	3
Each pointer revolution	mm	0,5

<b>4404GA</b>	Each	<b>95,80</b>
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**4404G 1A** SCU



1/100

Product description as Art. 4404GA

Dial Ø	mm	40
Drive Ø	mm	8 h 6
Measuring capacity	mm	5
Each pointer revolution	mm	0,5

<b>4404G 1A</b>	Each	<b>95,80</b>
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**4404GB** SCU



1/100

Product description as Art. 4404GA

Dial Ø	mm	58
Drive Ø	mm	8 h 6
Measuring capacity	mm	10
Each pointer revolution	mm	1

<b>4404GB</b>	Each	<b>68,10</b>
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See accessories from Art. 4405 GA to Art. 4405 GF.

**4404GE** SCU



1/100

Product description as Art. 4404GA

Dial Ø	mm	100
Drive Ø	mm	8 h 6
Measuring capacity	mm	10
Each pointer revolution	mm	1

<b>4404GE</b>	Each	<b>229,00</b>
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**4404GP** SCU



1/100

With rear, fixed magnetic attachment, for an easy and simple mounting without support.

'DIN 878. 1/100 graduations. With 2 hands for millimetres and cents of millimetres. With tolerance markers. Stem and contact point in stainless steel.

Zeroseetting by dial rotation.

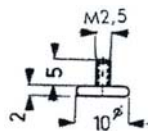
Metal case.

Dial Ø	mm	58
Drive Ø	mm	8 h 6
Measuring capacity	mm	10
Each pointer revolution	mm	1
Magnet traction	kN	220

<b>4404GP</b>	Each	<b>196,00</b>
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**ACCESSORIES FOR DIAL INDICATORS**

**4405GA** SCU



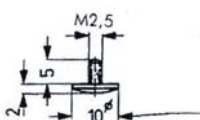
Prod. SCU - Orig. Käfer

Flat buttons Ø 10mm.

<b>4405GA</b>	Each	<b>7,10</b>
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Apt for all dial indicators Orig. Käfer.

**4405GB** SCU



Convex buttons Ø 10mm.

<b>4405GB</b>	Each	<b>9,02</b>
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Apt for all dial indicators Orig. Käfer.

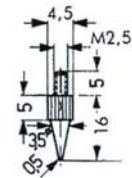


Pointed buttons Ø 10mm.

**4405GC** Each **8,52**

Apt for all dial indicators Orig. Käfer.

SCU



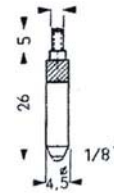
**4405GC**

Extended buttons Ø 10mm.

**4405GD** Each **5,30**

Apt for all dial indicators Orig. Käfer.

SCU

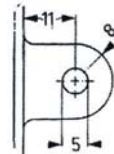


**4405GD**

Fixed rear attachment only for Art. 4404 GB - 4407 G.

**4405GE** Each **8,22**

SCU



**4405GE**

Lever only for Art. 4404 GB.

**4405GF** Each **12,20**

SCU



**4405GF**

**PRECISION DIAL INDICATORS**

**Orig. MIB - Art. 01024005**

Division 1/100. With two lancets for indicating millimeters and hundredths of a millimeter. With tolerance markers.

Reset by turning the dial and screw. Key and rod extended to large measurements. Metal casing.

Measuring capacity	mm	30
Dial Ø	mm	58
Drive Ø	mm	8 h 6
Each pointer revolution	mm	1
Overall length	mm	122

**4406E** Each **80,40**

MIB  
GERMANY



**4406E**  
*new*

1/100

**Prod. SCU - Orig. Käfer**

1/100 graduations. With 2 hands for millimetres and cents of millimetres.

With tolerance markers. Stem and contact point in stainless steel.

Zeroseetting by dial rotation.

Extended button and stem for wide measures.

Metal case.

Measuring capacity	mm	30
Dial Ø	mm	58
Drive Ø	mm	8 h 6
Each pointer revolution	mm	1
Overall length	mm	148

**4406GA** Each **182,00**

SCU



**4406GA**

1/100

Product description as Art. 4406GA

Measuring capacity	mm	50
Dial Ø	mm	58
Drive Ø	mm	8 h 6
Each pointer revolution	mm	1
Overall length	mm	232

**4406GB** Each **257,00**

SCU



**4406GB**

1/100

## 4406GC SCU



Product description as Art. 4406GA

Measuring capacity	mm	100
Dial Ø	mm	80
Drive Ø	mm	10 h 6
Each pointer revolution	mm	1
Overall length	mm	382
<b>4406GC</b>	<b>Each</b>	<b>693,00</b>

Stand with Ø 10mm connector can be supplied on request.

1/100

## 4407G SCU



DIN 878. 1/100 graduations. With 2 hands for millimetres and cents of millimetres. With tolerance markers. Stem and contact point in stainless steel. Zeroseeting by dial rotation. Shock-proof metal case, button micrometrical adjustment under the removable button cap.

Measuring capacity	mm	10
Dial Ø	mm	58
Drive Ø	mm	8 h 6
Each pointer revolution	mm	1
<b>4407G</b>	<b>Each</b>	<b>163,00</b>

1/100

## WATER AND OIL TIGHT PRECISION DIAL INDICATORS

## 4409GB SCU



Prod. SCU - Orig. Käfer

DIN 878. 1/100 graduations. With 2 hands for millimetres and cents of millimetres. With tolerance markers. Stem and contact point in stainless steel. Zeroseeting by dial rotation. Water-tight and shock-proof, metal case; stem protected for applications with liquids.

Measuring capacity	mm	10
Dial Ø	mm	61,5
Drive Ø	mm	8 h 6
Each pointer revolution	mm	1
<b>4409GB</b>	<b>Each</b>	<b>201,00</b>

1/100

## TOLERANCE DIAL INDICATORS

## 4410GB SCU



Prod. SCU - Orig. Käfer

DIN 878. 1/100 graduations. Indicated for checking tolerance.

With 1 hand.

Shock-proof metal case.

Measuring capacity	mm	0,8
Dial Ø	mm	58
Drive Ø	mm	8 h 6
Position excursion on piece	mm	9
Bilateral reading scales	mm	±0,45
<b>4410GB</b>	<b>Each</b>	<b>125,00</b>

1/100

## DIAL DEPTH GAUGES

## 4411GB SCU



Prod. SCU - Orig. Käfer

1/100 graduations. With 2 hands. With high precision base.

Screw clamping for perfect fastening of dial gauges.

Measuring capacity	mm	30
Dial Ø	mm	58
Each pointer revolution	mm	1
Base dimensions	mm	80x16
<b>4411GB</b>	<b>Each</b>	<b>360,00</b>

Only base apt for Art. 4411 GB.

<b>O4411G</b>	<b>Each</b>	<b>119,00</b>
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1/100

**DIAL TEST INDICATORS, SWIVEL CONTACT POINT**
**Prod. SCU - Orig. Käfer**

Dial Ø 28mm, stem Ø 8mm x h 6, 1/100 graduations.  
 Travel 0.8mm, for tolerance  $\pm 0.4$ mm right-left with lateral movement.  
 Swivel range of contact point 220°. To be mounted on articulated holder Art. 4412 GS.  
 Rod with contact point, length 12.3mm.

**4412GC** Each **166,00**



**4412GC**
**1/100**

High precision model, with dial Ø 40mm, 1/100 graduations.  
 Stem Ø 4 or 8mm x h 6, inserted from above, travel 0.8mm, for tolerance  $\pm 0.4$ mm forward-backward with front movement.  
 Swivel range of stylus in hard metal 240°. To be mounted on articulated holder Art. 4412 GS and arch centering Art. 4412 GT by joint Art. O4412 GM 4 or 8.  
 Rod with contact point, length 12mm.

**4412GF** Each **167,00**



**4412GF**
**1/100**

High precision model, with dial Ø 40mm, 1/100 graduations.  
 Stem Ø 4 or 8mm x h 6, inserted from above, travel 0.5mm, for tolerance  $\pm 0.25$ mm forward-backward with front movement.  
 Swivel range of stylus in hard metal 240°. To be mounted on articulated holder Art. 4412 GS and arch centering Art. 4412 GT by joint Art. O4412 GM 4 or 8.  
 Extended rod with contact point, length 35mm.

**4412GL** Each **231,00**



**4412GL**
**1/100**

Very high precision model, with dial Ø 40mm, 2/1000 graduations.  
 Stem Ø 8mm x h 6, inserted from above, travel 0.2mm, for tolerance  $\pm 0,1$  mm forward-backward with front movement.  
 Swivel range of stylus in hard metal 240°. To be mounted on articulated holder Art. 4412 GS and arch centering Art. 4412 GT by joint Art. O4412 GM 4 or 8.  
 Rod with contact point, length 12mm.

**4412GM** Each **201,00**



**4412GM**
**2/1000**

Stem fittings Ø 4 mm, inserted in the head, on comparators Art. 4412 GF - L - M.

**O4412GM 4** Each **17,40**

Stem fittings Ø 8 mm, inserted in the head, on comparators Art. 4412 GF - L - M.

**O4412GM 8** Each **17,40**

Articulated support for comparators with hole for attacks Ø mm 4 e 8.  
 Dimensions 80x12x6mm.

**4412GS** Each **27,30**



**4412GS**

Centering arches with connection pin Ø 8 mm and holes for attacks comparators Ø 4 and 8 mm.

**4412GT** Each **59,20**



**4412GT**  
*new*
**11**

**PRECISION DIAL INDICATORS WITH MAGNETIC HOLDER**
**4414G SCU**

**1/100**
**Prod. SCU - Orig. Käfer**

With prism-shaped base and lateral magnetic holders. Can be used over flat or round surfaces and in many other applications.

Handy and easy to use.

Indicator holding articulation can swing horizontally at 360°.

Vertically 30°.

Dimensions: support base: 72x37x26mm. Magnetic force KN 260.

Arm gauge 35mm.

Dial indicator 4404 GB with magnetic holder.

<b>4414G</b>	Each	<b>262,10</b>
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**4414GS SCU**


Product description as Art. 4414G

Only magnetic holder without dial indicator.

<b>4414GS</b>	Each	<b>194,00</b>
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For similar model, but with flat base see Art. 4421 A.

**HIGH PRECISION DIAL INDICATORS**
**4415G MIB**

**1/1000**
**Orig. MIB - Art. 01024001**

DIN 878. Division 1/1000. With 2 hands to indicate tenths, hundredths and thousandths of a millimetre.

Reset by turning the dial. Metal box.

Dial Ø	mm	58
Drive Ø	mm	8 h 6
Measuring capacity	mm	1
Each pointer revolution	mm	0,1

<b>4415G</b>	Each	<b>87,50</b>
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**4415GB SCU**

**1/1000**
**Prod. SCU - Orig. Käfer**

1/1000 graduations. With 2 hands for tenths and thousandths of millimetre. Contact rod and point in stainless steel. Zeroseeting by dial rotation. Shock-proof with cap and metal case.

Dial Ø	mm	58
Drive Ø	mm	8 h 6
Measuring capacity	mm	1
Each pointer revolution	mm	0,2

<b>4415GB</b>	Each	<b>204,00</b>
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**4415GE SCU**

**1/1000**

Product description as Art. 4415GB

Dial Ø	mm	58
Drive Ø	mm	8 h 6
Measuring capacity	mm	5
Each pointer revolution	mm	0,2

<b>4415GE</b>	Each	<b>216,00</b>
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**PRECISION DIAL INDICATORS**
**4418G SCU**

**1/100**
**Prod. SCU - Orig. Käfer**

1/100 graduations. Back-plunger dial indicator for easy reading from above. Can be applied by means of two stems Ø 8mm x height 16.5mm or Ø 28mm x height 7mm. Dial diameter 58mm.

With 2 hands. With tolerance markers. Zeroseeting by dial rotation.

Measuring range 3mm. Range per revolution 1mm.

<b>4418G</b>	Each	<b>191,00</b>
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**MILLESIMALI DIAL INDICATORS**

**Prod. SCU - Orig. Käfer**

With sector dial. Division 1/1000.  
 With one hand to indicate the differences and two movable limits to indicate the minimum and maximum tolerance values.  
 Micrometric reset by knurled screw.  
 Dial 62mm. Stem diameter 8mm.  
 Measuring capacity 0.10 mm of which:  
 - 0.05 to the left - minus  
 - 0.05 to the right + plus.



**4420G**

**1/1000**

**4420G** Each **350,00**

**CENTESIMAL ELECTRONIC DIGITAL DIAL INDICATORS**

**Orig. MIB - Art. 02031025**

Precision model. 1/100 graduations.  
 Dial display with 4 big digits, easy to read.  
 mm/inch selection button. Zerosetting button for relative and incremental measurements. On/off button. Contact in hard metal. Powered by a 3 V lithium battery ecological, long life.  
 Precision 0.01 mm. Dial diameter 56mm.



**4420GE**

**1/100**

Measuring capacity mm 12,5  
 Drive Ø mm 8 h 6  
**4420GE** Each **127,00**

**Orig. MIB - Art. 02031026**

Product description as Art. 4420GE  
 Measuring capacity mm 25,4  
 Drive Ø mm 8 h 6  
**4420GF** Each **181,00**



**4420GF**

**1/100**

**Orig. MIB - Art. 02031023**

Precision model. 1/100 graduations.  
 Dial display with 4 big digits for easy reading.  
 mm/inch selection button. Zerosetting button for relative and incremental measurements. On/off button. Contact in hard metal. Battery power supply 1.5 V.  
 Precision: 30 µm.  
 Measuring capacity mm 50  
 Drive Ø mm 8 h 6  
**4420GM** Each **244,00**



**4420GM**

**1/100**

**11**

**MILLESIMALI ELECTRONIC DIGITAL DIAL INDICATORS**

**Orig. MIB - Art. 02031029**

Precision model. 1/100 graduations.  
 Dial display with 4 big digits, easy to read.  
 mm/inch selection button. Zerosetting button for relative and incremental measurements. On/off button. Contact in hard metal. Powered by a 3 V lithium battery ecological, long life.  
 Precision 0.01 mm. Dial diameter 56mm.  
 Precision 0.005 mm.  
 Measuring capacity mm 12,5  
 Drive Ø mm 8 h 6  
**4420GS** Each **246,00**



**4420GS**

**1/1000**

**INDICATOR STANDS**

4421

**Orig. MIB - Art. 06070000**

Universal type with sliding column on base.  
For comparators with coupling Ø 8mm.  
Ground parallel surfaces and chrome finished support rods. The horizontal arm swivels and tilts.  
Total height 270mm. Column diameter 14mm. Horizontal arm length 235mm, diameter 12mm.  
Base dimensions: length 220mm, width 58mm, height 35mm.  
Without dial indicator.

4421	Each	63,20
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4421A

**Prod. SCU - Orig. Käfer**

Magnetic model. Small dimensions, handy and easy to use. Flat base with 2 permanent active magnetics. Base dimensions: length 73mm, width 38mm, height 11mm. Horizontal arm, 360° swiveling and 30° vertically tilting approx.  
Total height 46mm. Length of swivel arm up to holder opening 35mm. Holder opening for dial indicators Ø 8mm.  
Without dial indicator.

Magnet force	N	180
4421A	Each	114,00

For similar model, but with prism-shaped base see Art. 4414 GS.

4421B

**Orig. MIB - Art. 06071010**

Magnetic type. Standard machining, prismatic base.  
Magnetic adhesion with lever insertion and detachment.  
Base dimensions: length 60mm, width 50mm, height 55mm.  
The horizontal arm swivels and tilts, with micrometer adjustment.  
Total height 231mm. Column diameter 12mm.  
Horizontal arm length 150mm, diameter 10mm.  
For comparators with coupling Ø 8mm.  
Without dial indicator.

Magnet force	N	600
4421B	Each	26,60

4421BE

**Orig. MIB - Art. 06071005**

Magnetic model. Implementation strengthened.  
Magnetic-mount adhesion and detachment.  
Dimensions: length. 60 mm, min. 50 mm, alt. 55 mm.  
The horizontal arm can be rotated and tilted, with micrometric adjustment.  
Total height: 281 mm. Column diameter mm 16.  
Horizontal arm length 200 mm, diameter 12 mm.  
For comparators with 8 mm diameter.  
Without comparator.

Magnet force	N	600
4421BE	Each	33,10

4421C

**Orig. MIB - Art. 06071025**

Magnetic type. Heavy-duty machining, prismatic base.  
Very strong magnetic adhesion with lever insertion and detachment.  
Base dimensions: length 63mm, width 50mm, height 55mm.  
The horizontal arm swivels and tilts, with micrometer adjustment.  
Total height 290mm. Column diameter 16mm.  
Horizontal arm length 250mm, diameter 16mm.  
For comparators with coupling Ø 8mm.  
Without dial indicator.

Magnet force	N	800
4421C	Each	76,10

4421ET

**Prod. SCU**

Magnetic model. Precision fine finish, with central tensioning system, prism-shaped base.  
High magnetic force with switch on/off.  
Chromed arms and micrometric adjustment.  
Base dimensions: length 40mm, width 30mm, height 35mm.  
Total height 210mm.  
Active radius 150mm.  
Holder opening for dial indicators Ø 8mm.  
Without dial indicator.

Magnet force	N	200
4421ET	Each	77,00

**Orig. MIB - Art. 06071002**

Magnetic model. Precision fine finish, with central tensioning system, prism-shaped base.  
 Big magnetic force with switch on/off.  
 Chromed arms and micrometric adjustment.  
 Base dimensions: length 65mm, width 50mm, height 55mm.  
 Total height 380mm.  
 Range of action 310mm.  
 Holder opening for dial indicators Ø 8mm.  
 Without dial indicator.

Magnet force	N	600
<b>4421F</b>	Each	<b>53,10</b>



**4421F**

**Prod. SCU**

Professional/industrial model with magnetic base. High precision, fine finish, very stable and sturdy, with central tensioning system. Chromed arms with precision articulations, guided travel and micrometric adjustment.  
 Round base dimensions 40mm x height 30mm. Active radius 200mm. Total height 335mm.  
 Holder opening for dial indicators Ø 8mm and indicator/pointers with dovetail clamp.  
 Without dial indicator.

Magnet force	N	300
<b>4421GA</b>	Each	<b>340,00</b>



**4421GA**

Professional/industrial model with magnetic base and switch on/off, prism-shaped base. High precision, fine finish, very stable and sturdy, with central tensioning system.  
 Chromed arms with precision articulations, guided travel and micrometric adjustment.  
 Holder opening for dial indicators Ø 8mm and indicator/pointers with dovetail clamp.  
 Without dial indicator.

Action range	mm	<b>200</b>	<b>280</b>	<b>420</b>	<b>620</b>
Overall height	mm	310	390	570	630
Prismatic base dimensions	mm	60x50x55h	60x50x55h	75x50x55h	120x60x52h
Magnet force	N	750	750	1000	1500
<b>4421GB</b>	Each	<b>373,00</b>	<b>431,00</b>	<b>766,00</b>	<b>1.210,00</b>

Dimensions 620mm with flat base, instead of prism-shaped base.



**4421GB**

**Orig. MIB - Art. 06071015**

Magnetic rod, fully swivelling in any position.  
 Big magnetic force with switch on/off.  
 Base dimensions: length 65mm, width 50mm, height 55mm.  
 Total height 370mm.  
 Holder opening for dial indicators Ø 8mm.  
 Without dial indicator.

Magnet force	N	600
<b>4421L</b>	Each	<b>56,10</b>



**4421L**

**PRECISION DIAL BENCH GAUGES**

**Prod. SCU**

With fixed round base, for verification in hardened steel, ground and lapped.  
 Shiftable horizontal arm, vertical column in hardened ground steel.  
 Base diameter 75mm. Working height 180mm. Total height 260mm.  
 Column diameter 25mm. Holder opening for dial indicators Ø 8mm.  
 Without dial indicator.

<b>4421R</b>	Each	<b>240,00</b>
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**4421R**

**4421S****SCU**

With fixed square base, for verification in hardened steel, ground and lapped. Shiftable horizontal arm, vertical column in hardened ground steel. Base dimensions 100x100mm. Working height 160mm. Total height 285mm. Column diameter 26mm. Holder opening for dial indicators  $\varnothing$  8mm. Without dial indicator.

<b>4421S</b>	Each	<b>265,00</b>
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### DIAL BORE GAUGES

**4423E****SCU****Prod. SCU**

Interchangeable rods in chromed steel, ground. Hardened contact points. Holding case. For dial indicators with reading graduations 1/10 and 1/100 of mm. Without dial indicator.

For int $\varnothing$ by	mm	15-35
For depths up to	mm	130

<b>4423E</b>	Each	<b>291,00</b>
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It is advisable to use the dial indicators Art. 4400G - 4404 GB.

**4423F****SCU**

Product description as Art. 4423E

Without dial indicator.

For int $\varnothing$ by	mm	30-100
For depths up to	mm	210

<b>4423F</b>	Each	<b>339,00</b>
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It is advisable to use the dial indicators Art. 4400G - 4404 GB.

**4423L****SCU**

Product description as Art. 4423E

Without dial indicator.

For int $\varnothing$ by	mm	50-178
For depths up to	mm	210

<b>4423L</b>	Each	<b>358,00</b>
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It is advisable to use the dial indicators Art. 4400G - 4404 GB.

**4423M****SCU**

Product description as Art. 4423E

Without dial indicator.

For int $\varnothing$ by	mm	100-300
For depths up to	mm	210

<b>4423M</b>	Each	<b>558,00</b>
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It is advisable to use the dial indicators Art. 4400G - 4404 GB.

**4424A****SCU**

Rounded contact points in hard metal.

Reading graduations 1/100 of mm. Interchangeable rods in chromed steel, rectified.

Holding case.

Dial indicator included.

For int $\varnothing$ by	mm	6-10
For depths up to	mm	50
Dial $\varnothing$	mm	40

<b>4424A</b>	Each	<b>159,00</b>
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HARTMETALL **1/100**

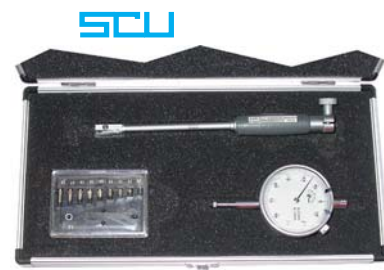


**Prod. SCU - Art. 01027071**

Product description as Art. 4424A

For int Ø by mm 10-18  
 For depths up to mm 100  
 Dial Ø mm 40

**4424B** Each **158,00**



**4424B**

HARTMETALL 1/100

**Prod. SCU**

Product description as Art. 4424A

For int Ø by mm 18-35  
 For depths up to mm 150  
 Dial Ø mm 58

**4424C** Each **136,00**

**SCU**



**4424C**

HARTMETALL 1/100

Product description as Art. 4424A

For int Ø by mm 35-50  
 For depths up to mm 150  
 Dial Ø mm 58

**4424D** Each **138,00**

**SCU**



**4424D**

HARTMETALL 1/100

**Prod. SCU - Art. 01027074**

Product description as Art. 4424A

For int Ø by mm 50-100  
 For depths up to mm 150  
 Dial Ø mm 58

**4424E** Each **158,00**

**SCU**



**4424E**

HARTMETALL 1/100

**Prod. SCU**

Product description as Art. 4424A

For int Ø by mm 50-160  
 For depths up to mm 150  
 Dial Ø mm 58

**4424F** Each **148,00**

**SCU**



**4424F**

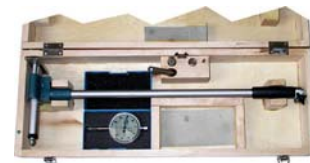
HARTMETALL 1/100

Product description as Art. 4424A

For int Ø by mm 160-250  
 For depths up to mm 400  
 Dial Ø mm 58

**4424H** Each **162,00**

**SCU**



**4424H**

HARTMETALL 1/100

4424L

SCU



HARTMETALL 1/100

Prod. SCU - Art. 01027077

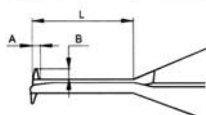
Product description as Art. 4424A

For int Ø by mm 250-450  
 For depths up to mm 410  
 Dial Ø mm 58

4424L	Each	216,00
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## DIAL CALIPER GAUGE FOR INTERNAL MEASUREMENTS

4424S



1/100

Orig. MIB

Dial gauge for quick measuring of internal holes, slots, etc. Precision  $\pm 0,02$  of mm, reading 1/100 of mm. Sizes 5-15mm and 5-25mm with rounded points R 0.3.

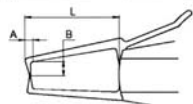
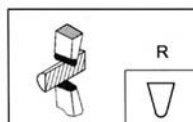
Sizes 10-30/20-40/30-50mm with rounded points R 0.5. Holding case.

Measuring capacity	mm	5-15	5-25	10-30	20-40	30-50
Size L depth	mm	20	35	55	80	80
Tip size A	mm	1	1	2	3	3
Tip size B	mm	2	2	5,5	6	8,5
Supplier code		01027100	01027101	01027102	01027103	01027104
4424S	Each	244,00	273,00	302,00	302,00	302,00

Digital electronic models, same measuring capacity, available on request.

## DIAL CALIPER GAUGE FOR EXTERNAL MEASUREMENTS

4424T



1/100

Orig. MIB

Dial gauge for quick measuring of internal holes, slots, etc. Precision  $\pm 0,02$  of mm, reading 1/100 of mm. Size 0-10mm with rounded points R 0.5.

Size 0-20/10-30/20-40/30-50mm with rounded points R 0.75.

Holding case.

Measuring capacity	mm	0-10	0-20	10-30	20-40	30-50
Size L depth	mm	40	80	80	80	80
Tip size A	mm	3	6,5	6,5	6,5	6,5
Tip size B	mm	8	25	25	25	25
Supplier code		01027111	01027112	01027113	01027114	01027115
4424T	Each	244,00	297,00	297,00	297,00	297,00

Digital electronic models, same measuring capacity, available on request.

## WORK COUNTERS

4425G

SCU



CE

Prod. SCU - Orig. IVO

For quick counting of moving objects. With ring to be slipped on the user's finger. Strokes are given by a finger on the upper lever.

Instantaneous zerosetting knob. Digits height 4.5mm.

Number of digits: 4.

Metal body.

4425G	Each	94,80
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4425GP

SCU



CE

Product description as Art. 4425G

Plastic body.

4425GP	Each	54,50
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**Prod. SCU**

For quick counting of moving objects. With ring to be slipped on the user's finger. Strokes are given by a finger on the upper lever.  
 Instantaneous zero-setting knurled knob. Digit height 3.5mm.  
 Digit number 4.  
 Plastic body.

**4425GT** Each **12,60**



**4425GT**
**WORK COUNTERS**
**Prod. SCU - Orig. IVO**

With round base of 65mm and holes for table mounting. Strokes are given by a finger on the upper lever. Instantaneous zero-setting knob. Digits height 4.5mm. Number of digits: 4.  
 Metal body and base.

**4426G** Each **94,80**



**4426G**


Product description as Art. 4426G

Plastic body and base, can be mounted on walls.

**4426GP** Each **54,50**



**4426GP**

**Prod. SCU**

With rectangular base 50x45mm and holes for bench mounting. Strokes are given by a finger on the upper lever. Instantaneous zero-setting knurled knob. Digits height 3.5mm. Digit number 4.  
 Plastic body and base, can be mounted on walls.

**4426GR** Each **12,60**



**4426GR**
**WORK COUNTERS**
**Prod. SCU - Orig. IVO**

With round base of 65mm and holes for wall mounting. Strokes are given by a finger on the upper lever. Instantaneous zero-setting knob. Digits height 4.5mm. Number of digits: 4.

**4426GS** Each **94,80**



**4426GS**

**WORK COUNTERS**
**Prod. SCU - Orig. IVO**

Operated by a lateral lever. Instantaneous zero-setting knob. Square base dimensions 40x46mm. Digits height 4.5mm. Number of digits: 4.

**4427G** Each **94,80**



**4427G**

**HAND REVOLUTION COUNTERS**
**Prod. SCU**

Reinforced model. Equipped with steel toe cap and PVC tip. Metal body. Right or left rotation. Reset by side wheel. Maximum speed of 7000 RPM. Digit height 6 mm. 4 digits number for reading until 9999.

**4429A** Each **78,50**



**4429A**

**HAND TACHOMETERS**
**4430GB** **SCU**

**Prod. SCU**

2nd revolutions  $400 \div 5000$  / m  $40 \div 500$  | 3rd revolutions  $4000 \div 50000$  / m  $400 \div 5000$   
 Provided with roller for finding the number of metres by dividing the surface speed by 10. Anti-magnetic, handy and easy to use.

Do not lubricate.

Supplied with the following accessories:

1 rubber pointer, taper pointed, with coupling support.

1 rubber pointer, big funnel.

1 roller with flat strip and throat for cord, for surface speed and no. of revolutions for shaft without hub.

4 soft rubber pointers, taper pointed, interchangeable.

Holding case.

**4430GB** Each **511,00**

**DIGITAL ELECTRONIC TACHOMETERS**
**4430GCA** **SCU**

**Prod. SCU**

Direct reading on display (5 digits). Model with optimal quality/price ratio.

Good precision equipment ( $\pm 0.02\%$  +1 digit), user friendly for measuring without mechanic contact.

Field of measurement: 1 to 60000 rev./min.

Apply self-adhesive reflective surface on the rotating part (standard supplied).

Max. measuring distance: 0.45m.

Incorporated memory for recalling the latest reading.

Automatic stop after 30 sec. from the latest measurement. Indicator of discharged batteries.

Operated by 2 alkaline batteries AA.

**4430GCA** Each **212,00**

Set of self-adhesive reflective strips (10 pcs.), for Art. 4430 GCA - 4430 GD - 4430 GF.

**O4430GCA** Per set **27,40**

**4430GD** **SCU**


Professional model, direct reading on display (5 digits), casing covered with rubbery material for high protection and a more comfortable use.

Good precision equipment ( $\pm 0.02\%$  +1 digit), user friendly for measuring without mechanic contact.

Field of measurement: 1 to 99999 rev./min.

Apply self-adhesive reflective surface on the rotating part (standard supplied).

Max. measuring distance: 0.60m.

Incorporated memory for recalling the latest, the max., the min. and the average reading.

Automatic stop after 30 sec. from the latest measurement. Indicator of discharged batteries.

Operated by 2 alkaline batteries AA. Supplied in case.

**4430GD** Each **309,00**

For additional reflective strips see Art. O4430 GCA.

**4430GE** **SCU**


Double function for contact measurement or infrared beams measurements (laser beam). Particularly indicated for checks and measurements on moving parts, motors, operating machines, etc.

Direct reading on display (5 digits).

High precision equipment ( $\pm 0.05\%$  +1 digit), easy to use.

Field of measurement with contact: 5 - 19999 rev./min.

Field of measurement with infrared: 5 - 99999 rev./min.

For infrared measurements, apply the reflective strap (1 strap of 60cm included in the equipment) on the moving part.

For contact measurements, apply the supplied accessories (2 pointers and 1 roller for surface speeds).

Measuring distance with laser ray from 50 to 500 mm.

Incorporated memory for recalling the last reading.

Circuit manufactured with an exclusive microprocessor LSI and quartz time base.

Operated by 4 alkaline batteries (AA)

Dimensions: 210x74x37mm.

Holding case.

**4430GE** Each **305,00**

Spare parts supplied on request.

Self-adhesive reflective strips, 60cm, for Art. 4430 GE.

**O4430GE** Each **13,90**

Professional model with double function for contact measurement or light ray telemeasuring. direct reading on display (5 digits), casing covered with rubbery material for high protection and a more comfortable use.  
 Good precision equipment ( $\pm 0.02\%$  +1 digit), user friendly for measuring without mechanic contact.  
 Field of contact measurement: 1 to 99999 rev/min.  
 Field of telemeasuring: 1 to 99999 rev/min.  
 Peripheral speed (with 6" wheel) from 0.10 to 1524 m/min - from 0.40 to 5000 ft/min - from 4 to 60000 in/min.  
 Measurement of length (with 6" wheel) from 0 to 99999 m/ft/in.  
 For telemeasuring apply the supplied adhesive reflective strip on the moving part.  
 For contact measurements apply the provided adaptor as well as the special standard tools (2 pointers and 2 wheels for peripheral speed).  
 Max. light ray measuring distance: 0.60m.  
 Incorporated memory for recalling the latest, the max., the min. and the average reading.  
 Field of measurement selection: m/min, m/sec., ft/min, ft/sec., in/min, m, ft, in, rpm.  
 Automatic stop after 30 sec. from the latest measurement. Indicator of discharged batteries.  
 Operated by 2 alkaline batteries AA. Supplied in case.

SCU

4430GF



**4430GF** Each **432,00**

For additional reflective strips see Art. O4430 GCA.

SPARE ACCESSORIES FOR ART. 4430 GF  
 Extension.

**4430GH 1** Each **17,20**

SCU

4430GH 1



6" wheel for peripheral speed.

**4430GH 2** Each **44,50**

SCU

4430GH 2



0.1m wheel for peripheral speed.

**4430GH 3** Each **34,30**

SCU

4430GH 3



Convex pointer.

**4430GH 4** Each **34,30**

SCU

4430GH 4



Tapered pointer.

**4430GH 5** Each **34,30**

SCU

4430GH 5



**REVOLUTION COUNTERS**

Prod. SCU - Orig. IVO

Adds in one direction. Subtracts in the opposite direction. 1 rev. = 1 unit.  
 Maximum speed 2000 rpm. Knob for instantaneous zerosetting. Digits height 4.5mm. Number of digits 5. Base surface 29x60mm.

Art.	4431G 1	4431G 2	4431G 3	4431G 4
Shaft side	right	right	left	left
Rotation	right	left	right	left
Each	82,80	88,60	88,60	88,60

SCU

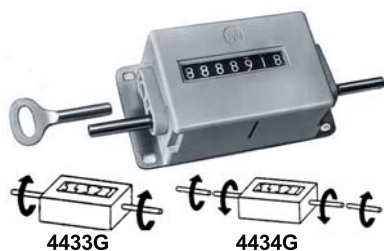


4431G 1  
 4431G 2  
 4431G 3  
 4431G 4

11



4433G  
4434G



Removable key for zero setting. 1 rev. = 1 unit.  
Adds in one direction. Subtracts in the opposite direction. Right hand shaft.

Ciphers height	mm	4,5
No. of ciphers		6
Wheels Ø	mm	4
Max speed	rev/min	3000
Base dimensions	mm	60x70
<b>4433G</b>	<b>Each</b>	<b>134,00</b>

Product description as Art. 4433G  
Adds in both directions.

Ciphers height	mm	7
No. of ciphers		7
Wheels Ø	mm	7
Max speed	rev/min	1000
Base dimensions	mm	120x64
<b>4434G</b>	<b>Each</b>	<b>183,00</b>

4435GD 1  
4435GD 2  
4435GS 1  
4435GS 2



Adds in one direction. Subtracts in the opposite direction.  
Removable lever for zero setting. 1 rev. = 1 unit.  
Maximum speed 3000 rpm.

Art.	4435GD 1	4435GD 2	4435GS 1	4435GS 2	
Rotation	right	right	left	left	
Ciphers height	mm	4,5	7	4,5	7
No. of ciphers		5	5	5	5
Wheels Ø	mm	4	7	4	7
Base dimensions	mm	80x48	120x64	80x48	120x64
<b>Each</b>	<b>150,00</b>	<b>240,00</b>	<b>150,00</b>	<b>240,00</b>	

4436GD 1  
4436GD 2  
4436GS 1  
4436GS 2



Prod. SCU

Adds in one direction. Subtracts in the opposite direction. Zero-setting by means of lever (for Art. 4436 GD - S x 2 movable in both directions) 1 rev. = 1 unit. Body in die-cast aluminium, sturdy construction.

Art.	4436GD 1	4436GD 2	4436GS 1	4436GS 2	
Rotation	right	right	left	left	
Ciphers height	mm	6	7	6	7
No. of ciphers		5	6	5	6
Wheels Ø	mm	6	8	6	8
Max speed	rev/min.	3000	500	3000	500
Base dimensions	mm	93x47x32	130x67x53	93x47x32	130x67x53
<b>Each</b>	<b>126,00</b>	<b>198,00</b>	<b>126,00</b>	<b>198,00</b>	

**REVOLUTION COUNTERS**

4437GD  
4437GS



Prod. SCU - Orig. IVO

Electric SUBTRACTING system.  
To preset the desired value, push the lateral lever backwards and hold it in this position. Push the button to select the desired value. Then release the lever.  
The counter subtracts from the preset value, until it reaches zero, when the electric contact disengages the counter. The electric contact may operate a relay, an alarm, a light or the three simultaneously, close or far.  
To repeat the same value, just push the lever. The counter can be connected both on the right and on the left.  
The lever can be mounted both on the right and on the left. 1 rev. = 1 unit.  
For alternate current up to V 220.

Art.	4437GD	4437GS	
Rotation	right	left	
Ciphers height	mm	7	7
No. of ciphers		5	5
Max speed	rev/min	6000	6000
Base dimensions	mm	142x88	142x88
<b>Each</b>	<b>917,00</b>	<b>1.090,00</b>	

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**Prod. SCU**

Electrical ADDITIONING system.

Quick zero-setting by means of lever. Body in die-cast aluminium, sturdy construction. Upon reach of the preset value, a micro commuter is activated according to basic operation settings. Digit number 5. Digit height 8mm. 1 rev. = 1 unit. Max. speed 5000 rpm.

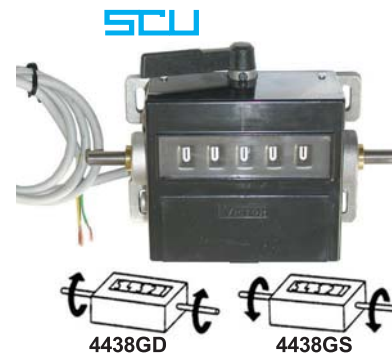
Dimensions 130x87x57mm.

Contact range 1 A 24 V d.c.

Art.

Rotation

	4438GD	4438GS
	right	left
Each	416,00	416,00



**4438GD**  
**4438GS**

**STROKE COUNTERS**

**Prod. SCU - Orig. IVO**

Adds in one direction.

The lever automatically goes back to the starting point. Each stroke corresponds to one number.

Lever travel: min. 38°, max. 60°.

Max number of strokes: approx. 500 per min.

The lever can be adjusted in any position of the shaft.

knob for instantaneous zero-setting. Number of digits 5.

Digits height 4.5mm. Base dimensions 29x60mm.

Art.

Shaft side

Rotation

	4440G 1	4440G 2	4440G 3	4440G 4
	right	right	left	left
	right	left	right	left
Each	87,10	87,10	87,10	87,10



**4440G 1**  
**4440G 2**  
**4440G 3**  
**4440G 4**

**Prod. SCU**

Adds in one direction.

The lever automatically goes back to the starting point. Each stroke corresponds to one number.

Max number of strokes: approx. 1000 per min.

The lever can be adjusted in any position of the shaft.

Knurled knob for instantaneous zero-setting. Body and cover in synthetic material.

Digit number 6. Digit height 5mm. Dimensions 46.5x33x31mm.

Art.

Shaft side

Rotation

	4440GE 1	4440GE 2	4440GE 3	4440GE 4
	right	right	left	left
	right	left	right	left
Each	56,50	56,50	56,50	56,50



**4440GE 1**  
**4440GE 2**  
**4440GE 3**  
**4440GE 4**

**Prod. SCU - Orig. IVO**

Removable key for zero-setting.

Adds in one direction.

The lever automatically goes back to the starting point. Each stroke corresponds to one number.

Lever travel: min. 38°, max. 60°.

Max number of strokes: approx. 500 per min.

The lever can be adjusted in any position of the shaft.

Knob for instantaneous zero-setting.

Art.

Rotation

Ciphers height

No. of ciphers

Wheels Ø

Base dimensions

	4441GD 1	4441GD 2	4441GS 1	4441GS 2
	right	right	left	left
mm	4,5	7	4,5	7
	6	7	6	7
mm	4	7	4	7
mm	60x70	120x64	60x70	120x64
Each	134,00	186,00	134,00	186,00



**4441GD 1**  
**4441GD 2**  
**4441GS 1**  
**4441GS 2**

Movable lever for instantaneous zero-setting.

Adds in one direction.

The lever automatically goes back to the starting point. Each stroke corresponds to one number.

Lever travel: min. 38°, max. 60°.

Max number of strokes: approx. 500 per min.

The lever can be adjusted in any position of the shaft.

Knob for instantaneous zero-setting.

Art.

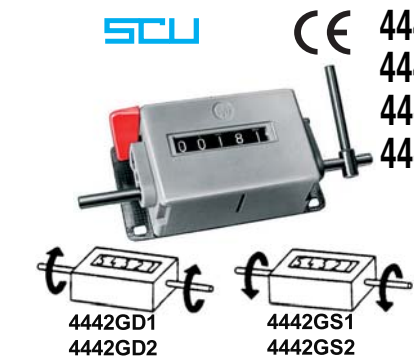
Rotation

Ciphers height

No. of ciphers

Base dimensions

	4442GD 1	4442GD 2	4442GS 1	4442GS 2
	right	right	left	left
mm	4,5	7	4,5	7
	5	5	5	5
mm	80x48	120x64	80x48	120x64
Each	153,00	239,00	153,00	239,00



**4442GD 1**  
**4442GD 2**  
**4442GS 1**  
**4442GS 2**

4443GD 1  
4443GS 1



**Prod. SCU**

Quick zero-setting through upper lever.  
Adds in one direction.  
The lever automatically goes back to the starting point. Each stroke corresponds to one number.  
Max. stroke number approx 700 per min. Body in die-cast zama, sturdy construction.  
Digit number 5. Digit height 6mm. Dimensions 93x47x32mm.

Art.	4443GD 1	4443GS 1
Rotation	right	left
Each	126,00	126,00

**METER COUNTERS**

4443GT



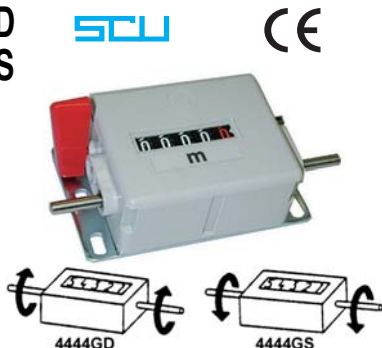
**Prod. SCU**

Electric SUBTRACTING system.  
Body in die-cast aluminium, metal internal workings and self-lubricating synthetic material, speed 1000 strokes per min.  
Right shaft side, right rotation.  
Digit number 4. Digit height 8mm. Dimensions 115x95x50mm.  
Contact range 1 AMP 24V d.c.

4443GT	Each	162,00
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**METER COUNTERS**

4444GD  
4444GS



**Prod. SCU - Orig. IVO**

Adds in one direction. Subtracts in the opposite direction. 5 rev. = 1 metre.  
For wheels circumference 200mm.  
Max speed 200 metre per min.  
Zerosetting by means of movable lever.  
Counts up to 9999.9 metres. Shaft diameter 4mm.  
Digits height 4.5mm. Base dimensions 80x48mm.  
Right shaft rotation, without wheel.

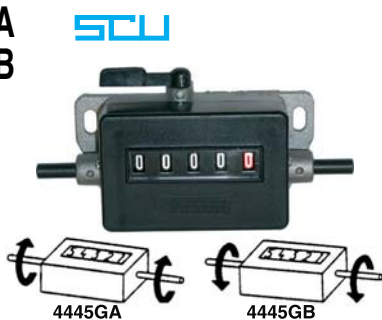
4444GD	Each	153,00
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Product description as Art. 4444GD

4444GS	Each	153,00
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For wheels see Art. 4452 GA-B-C

4445GA  
4445GB



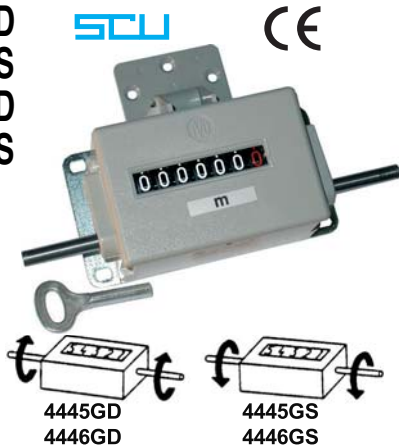
**Prod. SCU**

Adds in one direction. Subtracts in the opposite direction. 5 rev. = 1 metre.  
For wheels circumference 200mm.  
Max speed 500 metre per min.  
Zero-setting by means of movable lever.  
Counts up to 9999.9 metres. Shaft diameter 6mm.  
Body in die-cast zama, sturdy construction.  
Digit number 5. Digit height 6mm. Dimensions 93x47x32mm.  
Without wheel.

Art.	4445GA	4445GB
Rotation	right	left
Each	126,00	126,00

For wheels see Art. 4452 GL - GM.

4445GD  
4445GS  
4446GD  
4446GS



**Prod. SCU - Orig. IVO**

Adds in one direction. 2 rev. = 1 metre.  
For wheels circumference 500mm. Max speed approx. 100 metre per min.  
Zerosetting by means of removable key.  
Counts up to 999,999.9 metres.  
Shaft diameter 7mm.  
Digits height 7mm. Base dimensions 120x64mm.  
Without hinge and without wheels.

Art.	4445GD	4445GS
Rotation	right	left
Each	186,00	203,00

Product description as Art. 4445GD

With hinge, without wheel.

Art.	4446GD	4446GS
Rotation	right	left
Each	186,00	186,00

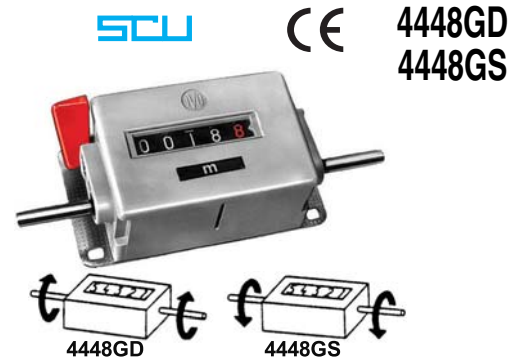
For wheels see Art. 4453 A-B-C.



Adds in one direction. Subtracts in the opposite direction. 2 rev. = 1 metre.  
 For wheels circumference 500mm.  
 Max speed 200 metre per min.  
 Instantaneous zero-setting by means of lever movable on both sides.  
 Counts up to 9,999.9 metres.  
 Shaft diameter 7mm.  
 Digit height 7mm. Base dimensions 120x64mm.  
 Without wheel.

	4448GD	4448GS
Art.		
Rotation	right	left
Each	242,00	242,00

For wheels see Art. 4453 A-B-C.

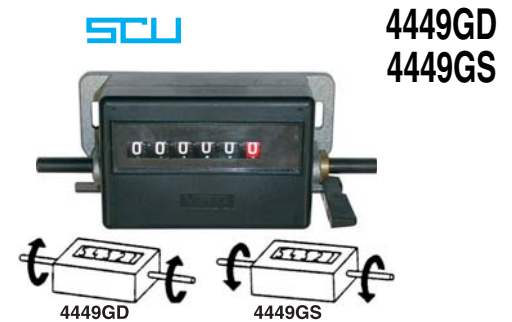


**Prod. SCU**

Adds in one direction. Subtracts in the opposite direction. 2 rev. = 1 metre.  
 For wheels circumference 500mm.  
 Max speed 500 metre per min.  
 Quick zero-setting by means of lever movable on both sides.  
 Counts up to 9,999.9 metres.  
 Shaft diameter 8mm.  
 Body in die-cast aluminium, sturdy construction.  
 Digit number 6. Digit height 7mm. Dimensions 130x67x53mm.  
 Without wheel.

	4449GD	4449GS
Art.		
Rotation	right	left
Each	198,00	198,00

For wheels see Art. 4453 L - M.



**METER COUNTERS**

**Prod. SCU - Orig. IVO**

Electric SUBTRACTING system.  
 For wheel circumference 500mm.  
 To preset the desired value, use the 5 buttons.  
 The meter counter subtracts from the preset value until it reaches zero, when it disengages an electric contact. Automatic disengagement at zero.  
 See Art. 4437 G for the procedure of value presetting.  
 Zeroseeting lever movable on both sides. To repeat the same value, just push the lever.  
 2 rev. = 1 metre. Counts up to 9,999.9m. Max metre per min. 250.  
 For wheel circumference 500mm..  
 For alternate current up to V 220.  
 Without wheel.

	4450GD	4450GS
Art.		
Rotation	right	left
Ciphers height	mm 7	7
No. of ciphers	5	5
Base dimensions	mm 142x88	142x88
Each	844,00	923,00

For wheels see Art. 4453 A-B-C.



**Prod. SCU**

Electrical ADDITIONING system.  
 For wheel circumference 500mm. Max speed 500 m/min.  
 Quick zero-setting by means of lever. Body in die-cast aluminium, sturdy construction. Upon reach of the preset value, a micro commuter is activated according to basic operation settings.  
 Counts up to 9,999.9 metres. Shaft diameter 8m. 2 rev. = 1m.  
 Digit number 5. Digit height 8mm. Dimensions 130x87x57mm.  
 Contact range 1 A 24 V d.c.  
 Without wheel.

	4451GD	4451GS
Art.		
Rotation	right	left
Each	416,00	416,00

For wheels see Art. 4453 L - M.



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**WHEELS FOR METER COUNTERS**

**4452GA**  
**4452GB**  
**4452GC**  
**4452GE**



**Prod. SCU**

In duraluminium (Art. 4452 GA-B), in synthetic material (Art. 4452 GC-E). Fastening screw. Circumference 200mm, diameter 64mm, band width 12mm (Art. 4452 GE mm 17), coupling hole with diameter 4mm. To be mounted on meter counters Art. 4444 GD-S.

With cross-grained surface.

**4452GA** Each **68,60**

Product description as Art. 4452GA  
Engrailed rubber surface.

**4452GB** Each **78,40**

Product description as Art. 4452GA  
Smooth plastic surface.

**4452GC** Each **63,20**

Product description as Art. 4452GA  
Pitted rubber surface.

**4452GE** Each **25,10**

**4452GL**  
**4452GM**



In duraluminium (Art. 4452 GL), in synthetic material (Art. 4452 GM). Fastening screw. Circumference 200mm, diameter 64mm, band width 12mm (Art. 4452 GE mm 17), coupling hole diameter 6mm. To be mounted on meter counters Art. 4445 GA-B.

Knurled surface.

**4452GL** Each **32,30**

Product description as Art. 4452GL  
Pitted rubber surface.

**4452GM** Each **25,10**

**4453A**  
**4453B**  
**4453C**



In duraluminium. Fastening screw.

To be mounted on meter counters Art. 4445 G - 4446 G - 4448 G - 4450 G for right hand rotation (D) and left hand rotation (S).

Art.	4453A	4453B	4453C
Circumference	500	500	500
Wheel Ø	160	160	160
Circular clamp width	28	23	23
Bore Ø	7	7	7
Surface	with graining	rubberized with graining	rubberized smooth
Each	<b>53,30</b>	<b>57,70</b>	<b>57,70</b>

Spare rubber band for Art. 4453 B.

**O4453E** Each **14,40**

Spare rubber band for Art. 4453 C.

**O4453F** Each **14,40**

**4453L**  
**4453M**



In duraluminium. Fastening screw. Circumference 500mm, diameter 160mm, band width 23mm, coupling hole diameter 8mm. To be mounted on meter counters Art. 4449 GD-S and 4451 GD-S.

Knurled metal surface.

**4453L** Each **53,80**

Product description as Art. 4453L

Knurled rubber surface.

**4453M** Each **57,40**

Spare rubber band for Art. 4453 M.

**O4453P** Each **18,90**

**METER-COUNTERS FOR CABLES**

**4453R**



**Prod. SCU**

Suitable for measuring any cable or rope having diameter from 2.5 to 10mm.

Quick reset by upper key.

Body in die-cast aluminium. Count to 999.9 m.

Right shaft side, right rotation. 1 rev. = 200mm. Dimensions 130x90x90mm.

Supplied with wheel, circumference 200mm and square, made of sheet.

**4453R** Each **122,00**

**IMPULSE COUNTERS**

**Prod. SCU - Orig. IVO**

To be enclosed, with spring fastening.  
 Electric ADDING system. Works as revolution and stroke counter.  
 Can be connected at any distance from the impulse-sender mounted on the operating machine.  
 Max speed 10 impulses per sec. The impulse must not last less than 25 milliseconds. 1 impulse adds 1 number. Counter with 6 digits to add up to 999,999.  
 Digits height 4.5mm. Push button for immediate zeroresetting.  
 For alternate current 24 V.

**4454GA** Each **153,00**

Product description as Art. 4454GA

For alternate current 110 V.

**4454GB** Each **153,00**

Product description as Art. 4454GA

For alternate current 230 V.

**4454GE** Each **139,00**



**4454GA**  
**4454GB**  
**4454GE**



To be enclosed, with screw fastening.

Electric ADDING system. Works as revolution and stroke counter.  
 Can be connected at any distance from the impulse-sender mounted on the operating machine.  
 Max speed 10 impulses per sec. The impulse must not last less than 25 milliseconds. 1 impulse adds 1 number. Counter with 6 digits to add up to 999,999.  
 Digits height 4.5mm. Push button for immediate zeroresetting.  
 For alternate current 24 V.

**4455G** Each **152,00**

Product description as Art. 4455G

For alternate current 110 V.

**4456G** Each **139,00**

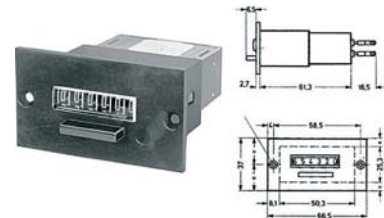
Product description as Art. 4455G

For alternate current 230 V.

**4457G** Each **139,00**



**4455G**  
**4456G**  
**4457G**



**IMPULSE COUNTERS WITH PRESET FUNCTION**

**Prod. SCU - Orig. IVO**

To be enclosed, with spring fastening.  
 1 impulse = 1 digit. Number of digits 6, digits height 4.5mm  
 Zeroresetting button. Speed: 10 impulses per sec. Push the zeroresetting button and move the black key in the arrow direction; the preset counter now appears in the window. Starting from the left, set the desired value by pushing the preset keys (with a finger or with the point of a pencil). Then release the key with the arrow.

For alternate current 24 V.

**4459GA** Each **426,00**

Product description as Art. 4459GA

For alternate current 110 V.

**4459GB** Each **568,00**

Product description as Art. 4459GA

For alternate current 230 V.

**4459GE** Each **568,00**



**4459GA**  
**4459GB**  
**4459GE**



To be enclosed, with screw fastening.

Supplied with coupling box and front frame.  
 1 impulse = 1 digit. Number of digits 6, digits height 4.5mm.  
 Zeroresetting button. Speed: 10 impulses per sec. Push the zeroresetting button and move the black key in the arrow direction; the preset counter now appears in the window. Starting from the left, set the desired value by pushing the preset keys (with a finger or with the point of a pencil). Then release the key with the arrow.

For alternate current 24 V.

**4460GA** Each **354,00**

Product description as Art. 4460GA

For alternate current 110 V.

**4460G 1A** Each **507,00**

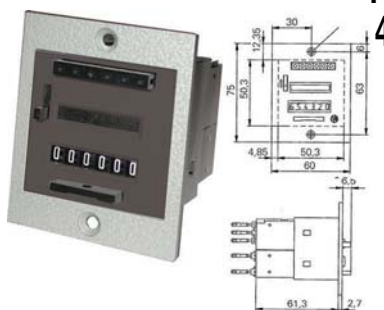
Product description as Art. 4460GA

For alternate current 230 V.

**4460GB** Each **354,00**



**4460GA**  
**4460G 1A**  
**4460GB**



**METER COUNTERS**
**4461 SCU**

**Prod. SCU**

Professional model, direct reading on display (5 digits) suitable for checking and monitoring plants, equipment, machines, motors, etc. characterized by high rpm, impulse or vibration regimes during operation.

Adjustable flash intensity. Exceptional light intensity of 1200 lux at 20mm / 4500 FPM (flash per minute). Flashing frequency from 30 to 12500 FPM. Flash duration lower than 9  $\mu$ s. Accuracy  $\pm$  0.01% of the detected value  $\pm$  1 Digit. Resolution and repeatability  $\pm$  1 FPM.

Operated by Ni-MH rechargeable batteries. Dimensions 240x65x55mm. In handy case, complete with battery charger 100/240 V, 50/60 Hz.

<b>4461</b>	Each	<b>1.300,00</b>
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**BATTERY MINI LEDLIGHTS WITH MAGNET**
**4461T SCU**

**Prod. SCU**

Professional model, liquefied gas cartridge-type Art. 3250 CE.

Metal cartridge holder, brass burner, protection glass and net. Piezoelectric ignition.

Supplied without cartridge. Weight 575g.

<b>4461T</b>	Each	<b>30,20</b>
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Spare protection net for Art. 4461 T.

<b>O4461TA</b>	Each	<b>1,62</b>
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Spare protection glass for Art. 4461 T.

<b>O4461TB</b>	Each	<b>4,66</b>
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**WORKING LAMPS**
**4462 SCU**

**IP20**

**Prod. SCU**

Pantograph model with incandescent light.

Manufactured in compliance with CEI safety standards and D.I.gs.626/94. Protection level: IP 20. Class I.

Frame in drawn tubes, baking painted. Arm length 83cm.

Power 60 W, 250 V. Reflector diameter 160mm.

With clamp fastening.

Without electric bulb.

<b>4462</b>	Each	<b>139,00</b>
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**4462E SCU**


Protective grid  $\varnothing$  165mm, for Art. 4462/4463/4463L 3-4 .

<b>4462E</b>	Each	<b>67,90</b>
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**4463L SCU**

**IP20**


Articulated model with incandescent light.

Manufactured in compliance with CEI safety standards, following the D.Lgs. 626/94 and CEI 44-5 safety standards . Protection level: IP 20. Class I.

Arm length 101cm. Power 60 W, 230 V. Reflector diameter 160mm. With clamp fastening for desk mounting. With plug and switch.

Without electric bulb.

Joins number	<b>4</b>
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<b>4463L</b>	Each	<b>223,00</b>
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For protective grid  $\varnothing$  165mm see Art. 4462 E.

**4464 SCU**

**IP20**
**IP40**


Professional model with 3 articulations and incandescent light.

Manufactured in compliance with CEI safety standards and D.Lgs. n° 626-94 and security standard CEI44-5, plant engineering standard D.L. Vo 626/94.

Protection level: IP 20 (without grid), IP 40 (with grid) Class I. Sturdy finish which grants long duration in application requiring continuous positioning.

Arm length 87cm. Power 75 W, 250 V.

Reflector diameter 200mm.

With clamp fastening.

Without electric bulb.

<b>4464</b>	Each	<b>293,00</b>
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Product running out of stock.

Professional pantograph type with fluorescent light.  
 Manufactured in compliance with CEI safety regulations, complies with Leg. Dec.626/94.  
 Protection level IP 20.  
 Class I. With protective Plexiglas screen. Frame in oven-fired drawn pipes. Arm length 1080 cm.  
 Power: 2 x 15 W, 230 V fluorescent tubes.  
 Reflector size 485x92mm.  
 With clamp connection.

**4465** Each **434,00**

SCU



**4465**

IP20



**ADDITIONAL ACCESSORIES**

Base with holes for desk mounting (for Art. 4462/4464/4465).

**4465A** Each **19,10**

SCU



**4465A**

Base with holes for wall mounting (for Art. 4462/4464/4465).

**4465B** Each **19,10**

SCU



**4465B**

Cast iron base Ø 256mm, weight 10.1 (for Art. 4462).

**4465E** Each **109,00**

SCU



**4465E**

PROFESSIONAL/INDUSTRIAL model, with 3 articulations and halogen light.  
 In conformity with safety CEI standards, according to Law Decree 626/94 and to CEI 44-5 Machinery Safety Directive. Protection level: IP 65. Class II. Very sturdy finish, also apt for applications under continuous mechanic stress. Reflector articulation with 270° vertical movement, 220° horizontal rotation. Electrical cable inside the structure, bulb protected by hardened glass. Arm length 80cm. Power 50 W, 230/12 V with transformer.  
 Reflector external diameter 85mm.  
 With fixed base and holes for desk mounting.

**4466** Each **475,00**

SCU



**4466**

IP65



On request, the same lamps can be supplied with LED lights.

PROFESSIONAL/INDUSTRIAL model with flexible arm and halogen light.  
 In conformity with safety CEI standards, according to Law Decree 626/94 and to CEI 44-5 Machinery Safety Directive. Protection level: IP 65. Class II. Sturdy finish, can be oriented in any position. Electric cable inside the structure, bulb protected by hardened glass.  
 Voltage 230/12 V with transformer.  
 With fixed base and holes for desk mounting.

Arm length	cm	45
Power	W	50
Reflector external Ø	mm	85

**4467** Each **555,00**

SCU



**4467**

IP65



On request, the same lamps can be supplied with LED lights.

Product description as Art. 4467

Arm length	cm	60
Power	W	50
Reflector external Ø	mm	85

**4468** Each **547,00**

SCU



**4468**

IP65



Product running out of stock.

**4468C SCU**

IP65



PROFESSIONAL/INDUSTRIAL model with flexible arm and halogen light.  
Protection level: IP 65. Class II. Sturdy finish, completely adjustable. Electrical cable inside the structure; bulb protected by hardened glass.  
Power 230/12 V with transformer.  
With magnetic base.

Arm length	cm	45
Power	W	50
Reflector external Ø	mm	85

<b>4468C</b>	Each	<b>627,00</b>
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On request, the same lamps can be supplied with LED lights.

### ATEX BATTERY XENONLIGHTS

**4470A SCU**

IP68

**Prod. SCU**

Professional model in polycarbonate, shock-proof and immersion-resistant (IP 68). Particularly suitable for inspection and maintenance.  
Front Xenon light. ATEX approved.

Operated by No.2 x 1.5 V alkaline batteries (AAA-type - Art. 3600 C), included. Autonomy: approx. 2 hours of continuous use. Brilliancy 10 Lumen. With pocket clip. Length 143mm.

<b>4470A</b>	Each	<b>34,10</b>
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Product running out of stock.

**4470B SCU**

IP68



Product description as Art. 4470A

Operated by No.4 x 1.5 V alkaline batteries (AA-type- Art. 3600 E), included. Autonomy: approx. 3 hours of continuous use. Brilliancy 80 Lumen. Holes in the grip for possible hanging cord. Length 167mm.

<b>4470B</b>	Each	<b>55,70</b>
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Product running out of stock.

**4470C SCU**

<b>4470C</b>	Each	<b>33,70</b>
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Product running out of stock.

### BATTERY LED FRONT LAMPS

**4471A SCU****Prod. SCU**

Head/cap/helmet lamp, it leaves the operator's hands free.

In sturdy plastic material with rubber gaskets and large adjustable fabric elastics for tight and comfortable fixing. Vertically adjustable. Resistant to water sprouts, dust, etc.

Operated by 3 alkaline batteries (AAA-type - Art. 3600 C), included. With on/off switch.

Front light with 10 ultra-light LED to see at a distance. Four-position switch to adjust light intensity and turn on and off. Weight 125g.

<b>4471A</b>	Each	<b>24,40</b>
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**4471AE SCU**

new



IP54



To be placed on head or to be attached to cap or helmet, leaving hands free.

Made of light ABS resistant to impacts with wide adjustable elastic fabric straps for steady and comfortable fastening. Vertically adjustable.

Operation with 3 alkaline batteries (AAA - Art. 3600 C), included. With switch and sensor for start-up with the movement of a hand.

With front light with 1 WATT LED, equal to 90 LUMENS, high luminous output. Switch with two positions of adjustment of light intensity. Focus function to adjust the light beam. Weight 60 g.

<b>4471AE</b>	Each	<b>79,70</b>
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Professional model to be placed on the CAP or the helmet, leaving hands free for the Aluminium alloy with adjustable elastic fabric for a comfortable balance. Vertically adjustable to 180°. 4 operation the rechargeable batteries (model AA-art. 3602) supplied with 100 charger-240 V. Central light with 1 super-high luminosity LED and 5 additional LEDs for a total lighting of 70 LUMENS. Two-position switch to adjust light intensity and turn on and off. Weight 200g.

**4471C** Each **97,10**



CE

**ATEX BATTERY LEDLIGHTS**

**Prod. SCU**

Professional type, in polycarbonate impact and water immersion resistant (IP 68). Particularly suitable for inspections and maintenance. With front LED light. ATEX approved.

Operation with 2 alkaline batteries 1.5 V (AAA - Art. 3600 C), supplied. Autonomy 10 hours of continuous use. Brightness of 30 lumens. With pocket clip. Length 143 mm.

**4471E** Each **44,60**



IP68



Product description as Art. 4471E

Operates with 4 alkaline batteries 1.5 V (AA - Art. 3600 E) provided. Autonomy about 15 hours of continuous use. Brightness 120 Lumen. With the handle slots for optional string. Length 167 mm.

**4471F** Each **81,40**



IP68



**BATTERY LEDLIGHTS**

**Prod. SCU**

In metal, reduced dimensions but big light power, energy efficient. Apt for small places with scarce visibility for mechanics, fine mechanics, electronics, jewellery applications, etc. With on/off switch and clip.

Luminous flux with 3 LEDs, ultra-bright.

Length 88mm.

Operated by No.1 x 1.5 V alkaline batteries (AAA-type- Art. 3600 C), included.

**4471GA** Each **8,22**



CE

In metal, reduced dimensions but big light power, energy efficient. Apt for small places with scarce visibility for mechanics, fine mechanics, electronics, jewellery applications, etc. With on/off switch. Luminous flux with 8 LEDs, ultra-bright.

Length 140mm.

Operated by No.2 x 1.5 V alkaline batteries (AA-type- Art. 3600 E), included.

**4471GB** Each **12,50**



CE

**Orig. Carolus - Art. 9930.000**

Compact aluminium, but great power of light.

With switch.

Light flow with 14 LEDs, ultra-clear.

Two-position switch to adjust the light and flashing light function.

Length 120mm.

Operated by 3 alkaline batteries, 1.5 V (AAA type - Art. 3600 C), provided.

**4471GBC** Each **7,32**



CE

**Prod. SCU**

In aluminium, compact dimensions but big light power and wide radius of action. Particularly suitable for outside applications, water- and dustproof IP 65.

With on/off switch.

Luminous flux with high-efficiency 3 W Power-LED.

2-position selector switch for light control and flashing function.

Length 120mm.

Operated by No.3 x 1.5 V alkaline batteries (AAA-type- Art. 3600 C), included.

**4471GBE** Each **27,20**



IP65

CE

4471GC

SCU



Front light model, LASER POINTER for levelling operations or aiming during presentations, speeches, etc.  
In metal, reduced dimensions but big light power, energy efficient. Apt for small places with scarce visibility for mechanics, fine mechanics, electronics, jewellery applications, etc. With on/off switch  
Luminous flux with 8 LEDs, ultra-bright.  
Length 110mm.  
Operated by No.3 x 1.5 V alkaline batteries (AAA-type- Art. 3600 C), included.

4471GC Each 13,80

4471L

SCU



Product description as Art. 4471H  
Front light with 5 UV ultra-bright LED and side light with 10 ultra-light LED. Autonomy: approx. 15 hours of continuous use.

4471L Each 54,40

For battery charger with 4 rechargeable batteries for lamps Art. 4471 H - L  
see Art. 3603 and Art. 3604.  
Product running out of stock.

4471LA  
*new*

SCU



Made of light and durable ABS with a sturdy rubber casing to increase shock absorption.  
Length 210 mm, complete with rotating hook and magnet. Suitable to light large areas, for any test, inspection or work.

Operation with 3 alkaline batteries (AAA - Art. 3600 E), included. With switch.  
With lateral light with 18 ultra bright LEDs with special optical lens. Autonomy 6 hours of continuous use.

4471LA Each 20,10

### LED RECHARGEABLE CORDLESS LIGHTS

4471LE

SCU



Prod. SCU

In light and resistant ABS with housing in sturdy rubber to increase shock absorption.  
Length 250mm, complete with revolving hook and magnet.  
Suitable to light large areas with reduced visibility, for any control, inspection and working operation. Provided with incorporated rechargeable battery and battery charger 110/240 V. With on/off switch.

28-LED side light, ultra bright. Autonomy: approx. 5 hours of continuous use.

4471LE Each 72,30

4471MA

SCU



Angle model, rubbery material, soft, lightweight, shock resistant. Plastic double hook on the back of the lamp and powerful magnet in the base for convenient and fast positioning.

Suitable for lighting large areas poorly lit, for any operation, control and inspection work.

A built-in rechargeable battery, with battery charger 110-240 V-50/60 Hz.

With switch.

Front light with 5 LEDs and side light with 21 ultra-clear LEDs. Useful strap for manual transport.

4471MA Each 133,00



In light and resistant ABS with housing in sturdy rubber to increase shock absorption. Length 260mm, complete with steel revolving hook. Resistant to water sprouts (IP 64), dust, etc. Suitable to light large areas with reduced visibility, for any control, inspection and working operation. Provided with incorporated rechargeable battery with 2 chargers, 1 for 100/240 V and 1 for 12 V with cigarette lighter connection for the car, supplied. With on/off switch. Front light with 1 high power, ultra-bright LED and side light with 36 ultra-light LEDs. Autonomy: between 4 and 12 hours continuous use.

**4471PE** Each **93,70**

**SCU**

**4471PE**



**IP54**



**CE**

Sturdy and very resistant ABS to protect against shocks, little aggressive chemical products, water sprouts (IP 64), dust, etc. Complete with revolving hook. Suitable to light large areas with reduced visibility, for any control, inspection and working operation. With incorporated rechargeable battery and battery charger 110/240 V, with vertical support, included. With on/off switch. Side cold light, ultra-light, long lasting (approx. 100000 hours). Autonomy: from approx. 5 to 7 hours of continuous use, recharging time approx. 4 hours.

LED	No	<b>18</b>	<b>36</b>
Light intensity	lumen	450	600
Length	mm	450	450
<b>4471R</b>	Each	<b>173,00</b>	<b>225,00</b>

Product running out of stock.

**SCU**

**4471R**



**IP64**

**CE**

**ELECTRIC PORTABLE LAMPS**

**Prod. SCU**

Standard model. Frame in unbreakable ABS. With bulb protection hood made of glass. For bulbs max 60 W - 230 V and plug. Without electric bulb.

**4472G** Each **14,50**

**SCU**

**4472G**



**CE**

Professional model. Metal frame. With bulb protection hood made of glass. Cable length 5m and plug. With handgrip in unbreakable rubber. For bulbs max 60 W - 230 V. Without electric bulb.

**4472GA** Each **23,40**

**SCU**

**4472GA**



**CAGE WITH DOOR OPENABLE**

**CE**

Professional model for universal use, protective reflecting screen, fixed, in galvanized steel sheet, polished. Metal cage and big hook. Ergonomic heatproof handle. With on/off switch. For bulbs max 60W - 230 V. 5m cable and plug included. Without electric bulb.

**4472GBE** Each **12,80**

**SCU**

**4472GBE**



**CE**

**4472GCE** SCU

new



IP54



Professional model for universal use, equipped with a hook to hang and with rubber feet, with switch.  
 Made of sturdy and unbreakable plastic with light that spreads to 360°.  
 2 additional SCHUKO sockets with protective caps. Absorption max sockets W 3500. For bulbs max 60 W - 230 V, particularly suitable for energy-saving ones. 5 m cable and SCHUKO plug.  
 Protected against dust and splashing water (IP 54).  
 Dimensions mm Ø 200x390h.  
 Without bulb.

4472GCE	Each	145,00
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**ELECTRIC PORTABLE LAMPS**

**4472GD** SCU



Prod. SCU  
 Standard model, energy efficient.  
 White light, high brilliancy.  
 Electronic lamp, 240 V. Lamp holder with 5m long cable, plug and hook.  
 Total length 48cm approx.

Power	W	8
4472GD	Each	20,10

**4472GD 1** SCU



Professional model with switch.  
 White light, high brilliancy.  
 Electronic lamp, 230 V. Lamp holder with 5m long cable, plug and hook.  
 Total length 50cm approx.

Power	W	8
4472GD 1	Each	25,70

**4472GE 1** SCU



IP44



Professional model with switch protected from water squirts and dust.  
 White light, high brilliancy, energy saving. Interchangeable fluorescent tube.  
 Electronic lamp 230 V. Lamp holder with 5m long cable, plug and hook.  
 Total length 47cm approx.

Power	W	11
4472GE 1	Each	36,20

**4472GT** SCU



IP54



Powerful model with special supports with bent edges, with adjustable length and therefore easy to adapt to many situations. Ideal for being mounted on car bonnets, passenger compartments and trunks, in repair shops, garages, etc. White light, high brilliancy. Energy efficient, long duration. Electronic lamp 240 V. Lamp holder with 5m long cable, plug and hook. Resistant to dust and water squirts (IP54). Neon lamp total length 1120mm approx. Length of spring extending support from 1150 to 1700mm.

Power	W	21
4472GT	Each	95,30

**4472GE 5** SCU

new



IP54



Professional model with switch protection from dust and splashes of water (IP 54).  
 Particularly sturdy and shock resistant.  
 Extremely bright energy saving white light. Interchangeable fluorescent tube.  
 230 V lamp. Lamp holder with 5 m cable, plug and hook.  
 Total length 40 cm.

Power	W	18
4472GE 5	Each	46,10

11

**ELECTRIC CLAMPING PORTABLE LAMPS**

**Prod. SCU**

Work lamp, cold light, portable, robust, for demanding use, both indoors and outdoors. High brightness (comparable to an incandescent bulb from about 300 W) and high energy saving. Reinforced synthetic material housing, protection guard, scratch-resistant polycarbonate. ON/OFF Switch. Protection against dust and splash-proof (IP 54). 2 extra Sockets SCHUKO PLUG with protective caps. Complete with neoprene rubber cable, 1.8 m, SCHUKO Plug and bulb from 55 w.

**4472GVA** Each **117,00**



Industrial work lamp, cold light, portable, very sturdy, for demanding use, even under difficult conditions, both indoors and outdoors. High brightness (more than 400 W halogen) and high energy saving. Tubular steel frame and casing made of reinforced synthetic material, shock-proof. Electronic power regulator. Protection against dust and splash-proof (IP 54). With SCHUKO Socket 1, and 1 plug socket according to EEC standards with 3 poles (2 phases 220-250 V + Earth) to 16 (IP44) with protective caps. Complete with neoprene rubber cable, 5 m and 3 to 36 W light bulbs each.

**4472GVE** Each **254,00**

Product running out of stock.



**HALOGEN LAMPS**

**Prod. SCU**

Halogen lamp, high brightness and energy saving. Resistant to water squirts (IP 44). Sturdy stand in steel tubes and ergonomic handle. Shock-proof. Adjustable vertical rotation. Complete with 1m long cable and plug. 230 V (IP 20).

Power W 350/400  
**4472GZ** Each **33,90**



Halogen lamp, high brightness and energy saving, stand made of cast iron and aluminium. Resistant to water squirts (IP 44), ideal for both internal and external use. Sturdy stand in steel tubes and ergonomic handle. Shock-proof. Adjustable vertical rotation. Complete with 5m long cable and plug. 230 V (IP 20).

Power W 350/400  
**4473G** Each **51,10**



Sturdy and portable model, halogen lamp, high brightness and energy saving, stand made of cast iron and aluminium. Resistant to water squirts (IP 44), ideal for both indoor and outdoor use. Sturdy frame in steel tubes and ergonomic handle. Shock-proof, adjustable. Complete with 5m long cable and plug according to ECC standard, 3 poles (2 phases 230 V + ground) 16 A.

Power W 350/400  
**4473G 3** Each **57,60**



### HALOGEN LAMPS WITH STAND

4473G 5

SCU



IP44



Prod. SCU

Halogen lamp, high brightness and energy saving, with sturdy stand in steel tubes, coated by plastic. Adjustable height from 0.7 to 2 m. Resistant to water squirts (IP 44), ideal for both internal and external use.

Shock-proof. Adjustable vertical rotation.

Complete with 5m long cable and plug. 230 V (IP 20).

Power	W	350/400
4473G 5	Each	78,90

### LED LAMPS

4473G 8  
*new*

SCU



IP65



Prod. SCU

Portable and sturdy model with highly efficient, energy saving LED-CHIP technology (10 times less than halogen projectors), extremely bright (2300 lm) and long life up to 30,000 hours. Holder made of aluminium and steel. Resistant to dust and to splashes of water (IP 65). Stable steel tube frame and ergonomic handle. Adjustable lamp.

Complete with 5 cable and 230 V plug.

Power	W	30
4473G 8	Each	130,00

On request available LED-CHIP projectors with rechargeable lithium-ion battery power 20 W, 1300 lm, Art. 4473 G FC 8B.

### POWER SOCKETS

4473G 9A  
*new*

SCU



Prod. SCU

Smooth slipper type with 4 sockets bypass 10 A / 16 A. Body in plastic. With power cord, section 3x1 mm ^ 2, length 1.5 m. Square plug 16 A.

Colour white.

4473G 9A	Each	6,36
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4473G 9E  
*new*

SCU



Smooth slipper type with 6 sockets bypass 10 A / 16 A. Body in plastic. With power cord, section 3x1 mm ^ 2, length 1.5 m. Square plug 16 A.

Colour white.

4473G 9E	Each	7,56
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4473G 9L  
*new*

SCU



Smooth slipper type with 6 sockets bypass 10 A / 16 A and SCHUKO with illuminated switch. Body in plastic, sockets arranged at 45 °. With power cord, section 3x1 mm ^ 2, length 1.5 m. Square plug 16 A.

Colour white.

4473G 9L	Each	11,60
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4473G 10

SCU



Multiple socket outlet with 6 sockets bypass 10 A/16 A and SCHUKO and luminous switch. Body in sturdy synthetic material, sockets positioned at 45°. With connecting cable, section mm^2 3x1, length 1.4m. 16 A plug. Multiple socket outlet length 330mm. Colour black.

4473G 10	Each	13,20
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Professional with power strip with 6 bipolar sockets/SCHUKO and safety switch with light. Body made of anodized aluminium, sturdy and stable. Lateral protections and eyelets for attaching. With power cable, section mm<sup>2</sup> 3x1.5, length 3 m. The excess cable can remain rolled up in place. Length of power strip 470 mm.

**4473G 12** Each **42,10**

SCU



**4473G 12**  
*new*



**CABLE DRUMS**

**Prod. SCU**

Compact and light model, in unbreakable flexible plastic. Metal structure with carrying handle. With independent cable, SCHUKO socket and plug 16A. Current 230 V. Red light for overheating protection.

Cable included.

Cable length	m	20
Multiple cable for section	mm <sup>2</sup>	3x1
Max wound/unwound cable max absorption	W	1000/1900
<b>4473GA</b>	<b>Each</b>	<b>51,10</b>

SCU



**4473GA**

IP20



Heavy professional model. In special unbreakable plastic. Sturdy structure in steel tube with ergonomic carrying handle. With independent cable, SCHUKO socket and plug 16A. Current 230 V. Red light for overheating protection.

Cable included.

Cable length	m	50
Multiple cable for section	mm <sup>2</sup>	3x1,5
Max wound/unwound cable max absorption	W	1000/3500
<b>4473GB</b>	<b>Each</b>	<b>145,00</b>

SCU



**4473GB**

IP20



Heavy industrial model (33m, provided with neoprene cable, increased cross-section for very high performances).

In special unbreakable plastic.

Sturdy structure in steel tube with ergonomic carrying handle.

With independent cable, socket and plug according to ECC standard, 3-poles (2 phases 230 V + ground) 16A. Red light for overheating protection.

Cable included.

Cable length	m	<b>25</b>	<b>33</b>
Multiple cable for section	mm <sup>2</sup>	3x1,5	3x2,5
Max wound/unwound cable max absorption	W	1000/3500	1000/3500
<b>4473GBE</b>	<b>Each</b>	<b>102,00</b>	<b>194,00</b>

Size m 33 running out of stock.

SCU



**4473GBE**

IP44



**CABLE DRUMS**

**Prod. SCU**

Cheap model, case-shaped with supporting feet, In resistant plastic material with carrying handle. With 4 sockets dual sockets 10A/16A and SCHUKO, included on the drum rotating flange, plug 16A. Current 230 V. Red light for overheating protection.

Cable included.

Cable length	m	10
Multiple cable for section	mm <sup>2</sup>	3x1,5
Max wound/unwound cable max absorption	W	1000/3500
<b>4473GC</b>	<b>Each</b>	<b>39,50</b>

SCU



**4473GC**

IP20



**11**

Cheap model, case-shaped with supporting feet, In resistant plastic material with carrying handle. With 4 sockets dual sockets 10A/16A and SCHUKO, included on the drum rotating flange, plug 16A. Current 230 V. Red light for overheating protection.

Cable included.

Cable length	m	20
Multiple cable for section	mm <sup>2</sup>	3x1
Max wound/unwound cable max absorption	W	1000/1900
<b>4473GCA</b>	<b>Each</b>	<b>55,60</b>

SCU



**4473GCA**

IP20



**4473GD****SCU**

IP20

CE

Compact and light model, drum in unbreakable flexible plastic.

Metal structure with carrying handle.

With 4 dual sockets 10A/16A + SCHUKO, included on the drum rotating flange, plug 16A.

Current 230 V. Red light for overheating protection.

Cable included.

Cable length	m	15
Multiple cable for section	mm <sup>2</sup>	3x1,5
Max wound/unwound cable max absorption	W	1000/3500
<b>4473GD</b>	<b>Each</b>	<b>56,40</b>

**4473GE****SCU**

IP20

CE

Heavy professional model. In special unbreakable plastic.

Sturdy structure in steel tube with ergonomic carrying handle.

With 4 sockets dual sockets 10A/16A and SCHUKO, included on the drum rotating flange, plug 16A.

Current 230 V. Red light for overheating protection.

Cable included.

Cable length	m	25	50
Multiple cable for section	mm <sup>2</sup>	3x1,5	3x1,5
Max wound/unwound cable max absorption	W	1000/3500	1000/3500
<b>4473GE</b>	<b>Each</b>	<b>90,40</b>	<b>145,00</b>

**4473GF****SCU**

IP20

CE

Product description as Art. 4473GE

Empty cable drum.

For cables length	m	25	50
Max wound/unwound cable max absorption	W	1000/3500	1000/3500
<b>4473GF</b>	<b>Each</b>	<b>41,10</b>	<b>41,10</b>

**4473GP 50****SCU**

IP20

CE

Heavy professional model. In special unbreakable plastic.

Sturdy structure in steel tube with ergonomic carrying handle.

Provided with 4 SCHUKO sockets included on the flange, protection caps, SCHUKO plug.

Current 230 V. Red light for overheating protection.

Multi-core cable included, cross section 3x1.5mm<sup>2</sup>, length 50m.

Max wound/unwound cable max absorption	W	1000/3500
<b>4473GP 50</b>	<b>Each</b>	<b>145,00</b>

**4473GV****SCU**

IP20

CE

Heavy industrial model. In zinc-coated anti-rust steel.

Sturdy structure in steel tube with ergonomic carrying handle.

With 4 sockets dual sockets 10A/16A and SCHUKO, included on the drum rotating flange, plug 16A.

Current 230 V. Red light for overheating protection.

Cable included.

Cable length	m	25	50
Multiple cable for section	mm <sup>2</sup>	3x1,5	3x1,5
Max wound/unwound cable max absorption	W	1000/3500	1000/3500
<b>4473GV</b>	<b>Each</b>	<b>98,60</b>	<b>158,00</b>

Heavy industrial model. In special unbreakable plastic.  
 Sturdy structure in steel tube with ergonomic carrying handle.  
 With 1 socket SCHUKO, plug and 2 sockets according to EEC standard, with 3 poles (2 phases 230V + ground).

Red light for overheating protection and protection caps.

Cable included.

Cable length	m	50
Multiple cable for section	mm <sup>2</sup>	3x1,5
Max wound/unwound cable max absorption	W	1000/3500
<b>4474GB</b>	<b>Each</b>	<b>181,00</b>


**4474GB**

**IP44**


Heavy industrial model. Neoprene cable, increased cross-section for very high performances.  
 In special unbreakable plastic.

Sturdy structure in steel tube with ergonomic carrying handle.

Provided with 1 socket SCHUKO, plug and 2 sockets according to EEC standard, with 3 poles (2 phases 230V + ground).

Red light for overheating protection and protection caps.

Cable included.

Cable length	m	25
Multiple cable for section	mm <sup>2</sup>	3x2,5
Max wound/unwound cable max absorption	W	1000/3500
<b>4474GC</b>	<b>Each</b>	<b>194,00</b>


**4474GC**

**IP44**


Heavy industrial model. In zinc-coated anti-rust steel.

Sturdy structure in steel tube with ergonomic carrying handle.

provided with 2 sockets and plugs according to ECC standard, with 4 poles (3 phases 400 V + ground) 16 A.

Red light for overheating protection and protection caps.

Cable included.

Cable length	m	33
Multiple cable for section	mm <sup>2</sup>	4x1,5
Max wound/unwound cable max absorption	kW	2,4/11
<b>4474GD</b>	<b>Each</b>	<b>208,00</b>


**4474GD**

**IP44**


Heavy industrial model. In special unbreakable plastic.

Sturdy structure in steel tube with ergonomic carrying handle.

With 2 sockets SCHUKO, plug and socket according to EEC standard, with 5 poles (triphas 400V + ground + neutral).

Red light for overheating protection and protection caps.

Cable included.

Cable length	m	30
Multiple cable for section	mm <sup>2</sup>	5x1,5
Max wound/unwound cable max absorption	W	2400/11000
<b>4474GE</b>	<b>Each</b>	<b>227,00</b>


**4474GE**

**IP44**


### AUTOMATIC CABLE DRUMS

#### Prod. SCU

Heavy professional model, made of sturdy plastic. Powerful spiral spring, with strong propulsion, with deactivatable spring stop device. Attachable to wall and ceiling, adjustable.

Overheating protection with red LED. Complete with flexible fast sliding cable, with 16 A socket, connector cable and 16 A, 250 V plug.

Cable length	m	<b>10</b>	<b>20</b>
Drive cable length	m	1,5	1,5
Multiple cable for section	mm <sup>2</sup>	3x1,5	3x1,5
Type of cable		plastic	rubber
Dimensions	mm	370x270x100	380x330x162
Max wound/unwound cable max absorption	W	1200/1800	1000/2300
<b>4474GM</b>	<b>Each</b>	<b>106,00</b>	<b>194,00</b>


**4474GM**  
*new*



**PORTABLE ELECTRICAL DISTRIBUTORS**
**4474GR****SCU**

IP44

**Prod. SCU**

Power distributor, portable, suitable for many industrial, building, etc. applications.

In sturdy thermoplastic material with handy carrying lug. Provided with line connector, length 2m and cross section 3x2.5mm<sup>2</sup>.

No.4 sockets with safety caps and plug according to ECC standard, with 3 poles (2 phases 230 V + ground) 16 A.

Magneto-thermal differential switch, automatic, monophas 230 V - 30 mA - 16 A with protection cap.

<b>4474GR</b>	Each	<b>201,00</b>
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**INDUSTRIAL PLUGS AND OUTLETS**
**4474GTA***new***SCU**

IP44

**Prod. SCU**

Conform to EN 60309-1 / 2. Suitable for use in various sectors: industrial, commercial, agricultural, construction, etc.

In rugged thermoplastic material, self-extinguishing, resistant to heat and fire.

CEE plug 3-pole (2 phase 230 V + earth) 16 A.

<b>4474GTA</b>	Each	<b>3,36</b>
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**4474GTB***new***SCU**

IP44



Product description as Art. 4474GTA

CEE plug 4-pole (three-phase 400 V + earth) 16 A.

<b>4474GTB</b>	Each	<b>6,74</b>
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**4474GTC***new***SCU**

IP44



Product description as Art. 4474GTA

Spina CEE a 5 poli (trifase 400 V + neutro + terra) 16 A.

<b>4474GTC</b>	Each	<b>6,42</b>
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**4474GTD***new***SCU**

IP44



Product description as Art. 4474GTA

CEE socket, 3-pole (2 phase 230 V + earth) 16 A.

<b>4474GTD</b>	Each	<b>5,76</b>
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**4474GTE***new***SCU**

IP44



Product description as Art. 4474GTA

CEE socket 4 pole (three-phase 400 V + earth) 16 A.

<b>4474GTE</b>	Each	<b>7,08</b>
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Product description as Art. 4474GTA  
 CEE socket 5-pole (three-phase 400 V + neutral + earth) 16 A

**4474GTF** Each **7,40**

SCU



**4474GTF**  
*new*

IP44

CE

Product description as Art. 4474GTA  
 Distributor with 1 CEE plug 3-pin (2 phases 230 V + earth) 16 A and 2 CEE sockets with 3 poly (2-phase 230 V + earth) 16 A, with caps, IP 44.

**4474GTG** Each **23,40**

SCU



**4474GTG**  
*new*

IP44

CE

Product description as Art. 4474GTA  
 Distributor with 1 CEE plug 3-pin (2 phases 230 V + earth) 16 A and 3 CEE sockets with 3 poly (2-phase 230 V + earth) 16 A, with caps, IP 44.

**4474GTH** Each **34,40**

SCU



**4474GTH**  
*new*

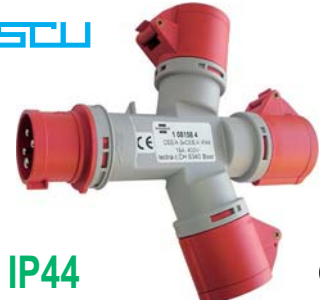
IP44

CE

Product description as Art. 4474GTA  
 Distributor with 1 CEE plug 4-pin (3 phases 400 V + earth) 16 A and 3 CEE sockets with 3 poly (3-phase 400 V + earth) 16 A, with caps, IP 44.

**4474GTL** Each **43,70**

SCU



**4474GTL**  
*new*

IP44

CE

Product description as Art. 4474GTA  
 Distributor with 1 CEE plug 5-pole (three-phase 400 V + neutral + earth) 16 A and 3 CEE sockets with 5-pole (400 V three-phase + neutral + earth) 16 A, with caps, IP 44.

**4474GTM** Each **48,50**

SCU



**4474GTM**  
*new*

IP44

CE

**11**

Product description as Art. 4474GTA  
 Adapter with 1 CEE plug with 3 poles (2 phases 230 V + earth) 16 A and 1 bypass socket 10 A / 16 A and SCHUKO.

**4474GTP** Each **10,70**

SCU



**4474GTP**  
*new*

CE

**4474GTR**  
*new*



Product description as Art. 4474GTA

Adapter with 1 CEE plug with 3 poles (2 phases 230 V + earth) 16 A and 2 sockets bypass 10 A / 16 A.

**4474GTR** Each **10,70**
**4474GTS**  
*new*



Product description as Art. 4474GTA

Adapter with 1 CEE plug with 3 poles (2 phases 230 V + earth) 16 A and 2 bypass sockets 10 A / 16 A, and 1 single pass 10 A and SCHUKO.

**4474GTS** Each **10,70**
**4474GTV**  
*new*



Product description as Art. 4474GTA

Adapter with 1 single pass plug 16 A and 1 CEE socket, 3-pin (2 phases 230 V + earth) 16 A.

**4474GTV** Each **10,70**
**4474GTZ**  
*new*


**IP44**

Product description as Art. 4474GTA

Adapter with 1 SCHUKO plug 16 A and 1 CEE socket, 3-pin (2 phases 230 V + earth) 16 A.

**4474GTZ** Each **11,10**

### SMOKE DETECTORS

**4475A**  
*new*


**Prod. SCU**

Photoelectric Detector, made of sturdy plastic, certified according to EN 14604. Long lasting. Automatic activation of the 3V LITHIUM battery, upon start-up. Alarm with acute beeping sound (85 dB), including mute function.

Optical display of function, with test button for testing, acoustic signal when the battery is low. Compact size Ø mm 85x30h, fastener included. 10 year guarantee.

**4475A** Each **55,90**

For flameproof blanket see Art. 3403 E 1.

### CARBON MONOXIDE DETECTORS

**4475B**  
*new*


**Prod. SCU**

Made of sturdy plastic, with long-lasting electrochemical sensor for use in closed environments with the presence of pellet stoves. Alarm with acute beeping sound (85 dB). Optical display with LEDs, with test button for testing, acoustic signal when the battery is low. Powered by one 9 V alkaline battery (3600 M), supplied. Dimensions 100x85 mm. 3 year guarantee.

**4475B** Each **112,00**

### MULTIFUNCTION DETECTORS

**4475GF**


**Prod. SCU**

To detect metal bodies, electric cables under voltage (alternate current) and wooden beams in walls. Individually selectable functions.

Ergonomic structure in unbreakable plastic material.

Detector with large LCD display (numeric and bar indication) and acoustic signal. Accuracy automatic adjustment. Automatic switch-off after measuring. Low battery indicator.

Power supply: 1 alkaline 9 V battery, not included (see Art. 3600 M).

**4475GF** Each **41,10**

**HUMIDITY DETECTORS**

**Prod. SCU**

To detect humidity in walls, bricks, floors, concrete, plasterboard, wallpapers, woods, etc. No.2 measuring electrodes and safety cap. In sturdy synthetic material.

Detector with large LCD display (resolution 0.1%) and acoustic signal (disconnectable). HOLD function for measuring even in hard-to-reach places. Automatic switch-off after ca. 3 minutes since latest measuring. Low battery indicator. Field of measurement: 5% to 50% for wood and 15% to 33% for building materials. Power supply: 1 alkaline 9 V battery, not included (see Art. 3600 M).

SCU

4475GM



4475GM Each 40,50

Professional moisture meter for contactless, whose operation is based on the principle of high frequency. For non-destructive measurement of the amount of moisture present in construction materials of any kind, as well as to assess the distribution of moisture inside walls, ceilings and floors. Particularly useful in preliminary assessments of the conditions of construction materials before the actual measurements of the residual moisture. Quick indication of the moisture content of the material. Humidity measurement function. Measurement and data retention (HOLD). Display function the maximum and minimum value. Alarm function. Low-battery indicator. Automatic shut-off. LCD Display with backlight. Measuring range from 0.0% to 100.0%. Resolution 0.1. Penetration depth 20/40 mm. Power supply with 3 alkaline batteries 1.5 V (AAA-model 3600 C), provided.

SCU

4475GP



4475GP Each 305,00

**ELECTRO ENGRAVES**

**Prod. SCU**

To engrave, mark and incise metal, plastic materials, ceramics, glass and wood. Vibrations system. Power: 230 V, 25 W, 50 Hz, with double insulation. Cable length: 1.6m. Equipment complete with hardened steel point, Hartmetall point and coupling.

SCU

4475GS  
4475GT  
4475GU  
4475GV



4475GS Each 55,90

Spare points in Hartmetall Art. 4475 GS.

4475GT Each 11,50

Spare diamond points to engrave glass and ceramics for Art. 4475 GS.

4475GU Each 55,90

Spare point coupling for Art. 4475 GS.

4475GV Each 4,12

Type for engraving with arc operation. To mark all conductive metals. With 12/15 V transformer, power electric arc 40 W, AC power 220 V - 50 HZ. Supplied with base mass, 10 electrodes, plastic case for convenient transport. Constructed according to European safety standards.

SCU

4475GVE



4475GVE Each 509,00

Spare electrode for engrave Art. 4475 GVE. +G121.

Size 1  
O4475GVE Per pack 31,40

**AIR ENGRAVES**

**Prod. Pneutec - Art. UT 8608A**

Industrial model, high performance, to engrave, mark and incise metals, sheet, plastic material, marble, ceramics, glass, wood and other materials with smooth surface. Vibrations system. Equipment complete with hardened steel point.

**PNEUTEC**  
DRUCKLUFTWERKZEUGE

4475GZ

Overall length	mm	140
No. of vibrations per minute		20000
Air drive	inches	1/4
Noise level	dB	78
Vibrations	m/s <sup>2</sup>	< 2,5
Weight	Kg	0,2

4475GZ Each 225,00



Operating pressure: Atm 6÷7.

Spare points in hardened steel for Art. 4475 GZ.

O4475GZA Each 41,20

**CROYONS**

4475R 1


**Prod. SCU**

Universal type for clear marking on rough iron, steel, metal, wood, cardboard, paper, stone, cement, plastic, etc. surfaces.

Weather-proof and resistant to UV radiation. Difficult to erase.

Length 120mm. Hexagonal body 11 mm.

Pack containing approximately 12 pieces.

White colour.

4475R 1	Each	0,68
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4475R 2




Product description as Art. 4475R 1

Yellow colour.

4475R 2	Each	0,68
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4475R 3




Product description as Art. 4475R 1

Red colour.

4475R 3	Each	0,68
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4475R 4

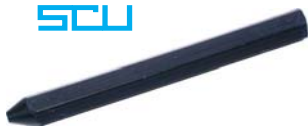



Product description as Art. 4475R 1

Blue colour.

4475R 4	Each	0,68
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4475R 5

Product description as Art. 4475R 1

Black.

4475R 5	Each	0,68
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4475T


**CHALK HOLDER**

Suitable for chalk Art. 4475 R 1 R 5.

Length 115 mm.

Supplied without chalks.

4475T	Each	24,10
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**INDUSTRIAL MARKING PASTELS**

4476 1A


**Prod. SCU**

Wax model, resistant to tear, to write on iron, metal, wall, even wet wood, rubber, cardboard etc. Consists of 12 pieces box.

Red.

4476 1A	Each	1,16
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4476 2A




Product description as Art. 4476 1A

Blue.

4476 2A	Each	1,16
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4476 3A




Product description as Art. 4476 1A

Yellow.

4476 3A	Each	1,16
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4476 4A




Product description as Art. 4476 1A

White.

4476 4A	Each	1,16
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4476 5A




Product description as Art. 4476 1A

Black.

4476 5A	Each	1,16
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**INDUSTRIAL MARKERS**
**Prod. SCU**

Indelible with fine round tip, PROLONGED to reach difficult places. Water-based ink, to write on metal, glass, plastic, wood and cardboard.

Pack with approx. 12 pieces.

Colour black.

**4476 5L** Each **3,04**

**SCU**
**4476 5L**  
*new*


Indelible, with medium ball point. Water-based ink, apt for writing on metals, glass, plastic, wood and cardboard.

Approx. package 12pcs.

Red colour.

**4476 6A** Each **1,90**

**SCU**
**4476 6A**


Product description as Art. 4476 6A

Blue colour.

**4476 7A** Each **1,90**

**SCU**
**4476 7A**


Product description as Art. 4476 6A

Green colour.

**4476 8A** Each **1,90**

**SCU**
**4476 8A**


Product description as Art. 4476 6A

Black colour.

**4476 9A** Each **1,90**

**SCU**
**4476 9A**


STEP type, indelible, round fine end. Water-based ink, to write on metal, glass, plastic, wood and cardboard.

Indicative package of 12 pieces.

Colour red.

**4476 9E** Each **2,30**

**SCU**
**4476 9E**  
*new*


Product description as Art. 4476 9E

Colour black.

**4476 9L** Each **2,30**

**SCU**
**4476 9L**  
*new*


Stick model with big ball-point. Solid lead-free paint, resistant to water and UV beams. Apt for any kind of cold surface, including greased or rusted ones.

White colour.

**4476 10** Each **1,76**

**SCU**
**4476 10**


Product description as Art. 4476 10

Yellow colour.

**4476 11** Each **1,82**

**SCU**
**4476 11**


Product description as Art. 4476 10

Red colour.

**4476 12** Each **1,92**

**SCU**
**4476 12**


Product description as Art. 4476 10

Blue colour.

**4476 13** Each **1,92**

**SCU**
**4476 13**


Product description as Art. 4476 10

Black colour.

**4476 14** Each **1,92**

**SCU**
**4476 14**


**4476 14A** **SCU**  
*new*


MINI stick model with rotating tip of plastic body, for progress of the paint, with small round tip and top with clip. Solid paint without xylene and 2-butoxyethanol, resistant to water and to UV rays. Clearly visible mark with drying time between 5 and 7 minutes. To mark smooth and rough metal, plastic, concrete and stone, rubber, glass, cardboard, wood, etc., temperature between -18°C and 200°C.

Colour white.

4476 14A Each 3,82

**4476 14B** **SCU**  
*new*


Product description as Art. 4476 14A  
 Colour yellow.

4476 14B Each 3,82

**4476 14E** **SCU**  
*new*


Product description as Art. 4476 14A  
 Colour red.

4476 14E Each 3,82

**4476 14F** **SCU**  
*new*


Product description as Art. 4476 14A  
 Colour black.

4476 14F Each 3,82

**4476 14L** **SCU**  
*new*


Type MAXI stick with the rotating ends of the body in plastic, for the advancement of the paint, with a big tip and a clip cap. Solid paint without xylene and 2-butoxyethanol, water and UV rays resistant. Clearly visible mark with drying time between 5 and 7 minutes. For marking on smooth and rough metal, plastic, concrete and stone, rubber, glass, cardboard, wood, etc., Between -18 ° C and 200 ° C temperature.

Colour white.

4476 14L Each 6,06

**4476 14M** **SCU**  
*new*


Product description as Art. 4476 14L  
 Colour yellow.

4476 14M Each 6,06

**4476 14P** **SCU**  
*new*


Product description as Art. 4476 14L  
 Colour red.

4476 14P Each 6,06

**4476 14R** **SCU**  
*new*


Product description as Art. 4476 14L  
 Colour black.

4476 14R Each 6,06

**4476 15** **SCU**


Felt-tip with acrylic point 2x4mm, with clip. Indelible matt paint, resistant to water and UV beams, xylene free, low halogen und sulfur values. Apt for smooth and clean surfaces of metal, plastic, rubber, glass, cardboard, wood, etc.

White colour.

4476 15 Each 3,76

**4476 16** **SCU**


Product description as Art. 4476 15  
 Yellow colour.

4476 16 Each 3,76

**4476 17** **SCU**


Product description as Art. 4476 15  
 Red colour.

4476 17 Each 3,76

Product description as Art. 4476 15

Blue colour.

**4476 18** Each **3,76**

SCU



4476 18

Product description as Art. 4476 15

Black colour.

**4476 19** Each **3,76**

SCU



4476 19

Felt-tip with acrylic point 2x4mm, with clip. High adhesion paint, matt, indelible, resistant to water and UV beams, xylene free, low halogen and sulfur values. Apt also for wrinkled, oily, wet or painted surfaces of metal, plastic, rubber, glass, cardboard, wood, etc.

White colour.

**4476 20A** Each **3,76**

SCU



4476 20A

Product description as Art. 4476 20A

Yellow colour.

**4476 20B** Each **3,76**

SCU



4476 20B

Product description as Art. 4476 20A

Red colour.

**4476 20C** Each **3,76**

SCU



4476 20C

Product description as Art. 4476 20A

Blue colour.

**4476 20E** Each **3,76**

SCU



4476 20E

Product description as Art. 4476 20A

Black colour.

**4476 20F** Each **3,76**

SCU



4476 20F

Tube model with 3mm ball-point, in hardened steel. Indelible matt paint, free from lead and harmful solvents. Resistant to temperatures up to + 200 °C. Apt for any kind of metal surface, including oily, wet or rusted ones.

White colour.

**4476 22** Each **3,60**

SCU



4476 22

Product description as Art. 4476 22

Yellow colour.

**4476 23** Each **3,60**

SCU



4476 23

Product description as Art. 4476 22

Red colour.

**4476 24** Each **3,60**

SCU



4476 24

Product description as Art. 4476 22

Blue colour.

**4476 25** Each **3,60**

SCU



4476 25

Product description as Art. 4476 22

Green colour.

**4476 26** Each **3,60**

SCU



4476 26

Product description as Art. 4476 22

Black colour.

**4476 27** Each **3,60**

SCU



4476 27

**4476 30****SCU**

Tube model with 3mm ball-point, in hardened steel. Indelible matt paint, free from lead and harmful solvents. Resistant to temperatures up to + 200 °C. Particularly indicated for any kind of stainless steel.

White colour.

<b>4476 30</b>	Each	<b>4,52</b>
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**4476 31****SCU**

Product description as Art. 4476 30

Yellow colour.

<b>4476 31</b>	Each	<b>4,52</b>
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**4476 32****SCU**

Product description as Art. 4476 30

Red colour.

<b>4476 32</b>	Each	<b>4,52</b>
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**4476 33****SCU**

Product description as Art. 4476 30

Blue colour.

<b>4476 33</b>	Each	<b>4,52</b>
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**4476 35****SCU**

Product description as Art. 4476 30

Black colour.

<b>4476 35</b>	Each	<b>4,52</b>
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### SOUND LEVEL METERS

**4476AB****SCU****Prod. SCU**

For measuring the sound level in various environments such as factories, workshops, warehouses, offices, schools, noise control of machine tools, engines, air conditioning systems, ventilation and to check the acoustics in the recording studios, concert halls and Hi-Fi equipment. With integrated compressor. Produced according to IEC 651 requirements with precision class 2. Measuring range: from 30 dB to 130 dB.

Frequency: from 31.5 Hz to 8 KHz

accuracy:  $\pm 1.5$  dB under reference conditions.

Response time: FAST (125 ms), SLOW (1 sec).

Calibration check: incorporated.

"OVER" indicator for measuring out-of-range values.

Data retention and maximum value detection. AD/DC analogue output for connecting to an Analyzer or a recorder. Large LCD display with digit height 4 mm 16. 0.1 dB resolution.

Dimensions 245x64x31. Weight 255 lbs. 1 alkaline battery power supply 9 V (art. 3600 M).

Autonomy of approx 50 hours. In carrying case for convenient and safe transportation.

<b>4476AB</b>	Each	<b>229,00</b>
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### DIGITAL THERMO-ANEMOMETERS

**4476AE****SCU****Prod. SCU**

To measure simultaneously the temperature and air velocity through separate fan sensor. Suitable for different industrial sectors, civil, Naval, etc.

4 measurement ranges of air velocity:

to 45.0 m 0.3/s-0.1 resolution

1.0 to 140.0 km/h-0.1 resolution

to 88.0 0.6 knots-0.1 resolution

60 at 8800 ft/min-10 resolution

accuracy:  $\pm 0.1\%$   $\pm 3$  digits

2 temperature fields:

0° C to 50° C resolution 0.1-precision  $\pm 2^\circ$  C32° F to 140° F-0.1 resolution precision  $\pm 4^\circ$  F

read large display data retention keys (HOLD), units of measure conversion keys, display keys

MAX values. Low battery indicator. Powered by 9 V alkaline battery 1 (3600 M), supplied.

Dimensions 170x85x45. Weight 350 Kg. In practice.

<b>4476AE</b>	Each	<b>208,00</b>
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**INFRARED AND LASER DIGITAL THERMOMETERS**

**Prod. SCU**

Practical and light gun-shaped model, made of sturdy unbreakable ABS to detect the exact surface temperature, **WITHOUT CONTACT**.

Infra-red measurements of larger areas, plus a laser pointer for smaller surfaces.

Reading on display with backlight.

Automatic shut-down and Data Hold function.

Powered by: 1 9V alkaline battery (Art. 3600 M), supplied.

Suitable in the automotive, mechanical and food industries, for use on plastic, in typography, when laying asphalt, when installing air-conditioning units, etc.

Ratio distance/surface Ø (D: S) = 8: 1 (Ex. 800 mm distance/surface Ø 100 mm).

Measuring capacity: from -20 ° C to + 380 ° C / -4 ° F to + 716 ° F.

Resolution: 0.1 ° C / 1 ° F. Accuracy: ± 2 ° C (± 1.8 ° F).

Weight 150 g.

**4476AP** Each **93,70**



Gun model, handy and light, dual component material, for sensing the exact surface temperature, **WITHOUT CONTACT**.

Infrared beams for measuring wider surfaces; laser beam pointer for smaller surfaces.

Reading on back-illuminated display.

Automatic switch-off with discharged battery indication.

Power: included 1 alkaline 9 V battery (Art. 3600 M).

Indicated for: automotive sector, mechanics, food industry, working of plastic, typography, asphalt laying, air-conditioning installation, etc.

Distance/ Ø surface ratio (D:S) = 8:1 (Ex. distance 800mm/Ø surface 100mm).

Measuring capacity ranging from -50°C to + 550°C/ -58°F to + 1022°F.

Resolution: 0.1°C up to 200°C, 1°C to 200°C. Precision: ± 5°C (up to -20°C)/± 2% of reading

±2°C (up to 550°C).

Weight 180 g.

**4476B** Each **218,00**



Product description as Art. 4476B

Distance/Ø surface ratio(D:S) = 12:1 (e.g. distance 1500mm/Ø surface 125mm).

Measuring range: -50°C to + 750°C/ -58°F to + 1382°F.

Resolution: 0.1°C up to 200°C, 1°C to 200°C. Accuracy: ± 5°C (up to -20°C)/± 1.5% of reading

±2°C (up to 200°C)/± 2% of reading ±2°C (up to 538°C)/± 3,5% of reading ±5°C (up to 750°C).

Weight: 290g.

**4476F** Each **315,00**



Combined type to detect the exact surface temperature, **WITHOUT CONTACT**, or with the appropriate probes attack K (Art. 4476 GH to 4476 GS), to detect temperatures **WITH CONTACT**, **PENETRATION**, **DIVING**, etc. Pistol shape of sturdy and unbreakable ABS.

Infrared measurements of larger areas, plus a laser pointer for smaller surfaces.

Reading on display with backlight.

Automatic shutdown and Data Hold function.

Integrated LED bulb.

indicator of the min / max value as alarm function.

Power: 2 alkaline batteries 1.5V AAA (Art. 3600 C), supplied .

Suitable in automotive, mechanical, food, plastics processing, in typography, in the preparation of asphalt, the installation of air-conditioning equipment, etc.

Ratio distance/surface Ø (D: S) = 12: 1 (Ex. 1200 mm distance/surface Ø 100 mm).

Measuring capacity **WITHOUT CONTACT**: -60 ° C to + 500 ° C / -76 ° F to + 932 ° F.

Measuring capacity with **PROBE ATTACK K**: -64 ° C to + 1400 ° C / -82.3 ° F to + 1999 ° F.

Resolution: 0.1 ° C / 1 ° F.

with infrared Accuracy: ± 2 ° C or ± 2% on the higher value.

Accuracy probes K: ± 1 ° C or ± 1% on the more' high.

Weight 222 g.

With 1 probe attack K for temperatures from -50 ° C to + 200 ° C.

**4476FE** Each **151,00**



**ELECTRONIC DIGITAL THERMOMETERS**
**4476GC****SCU****Prod. SCU**

Professional model for measuring the exact surface temperature. Measurement without contact (ideal distance 40mm). Reading on display, automatic switch-off with battery charge indicator. Measuring capacity range: -30 °C to +300 °C. Resolution: 0.1K from -30 °C to +99.9 °C. Resolution: 1K from +100 °C to +300 °C.

Accuracy:  
 ± 3 °C from -30 °C to -10 °C  
 ± 2 °C from -9 °C to +20 °C  
 ± 1 °C from +21 °C to +40 °C  
 ± 1.5 °C from +41 °C to +100 °C  
 ± 2 °C from +101 °C to +200 °C  
 ± 3 °C from +201 °C to +300 °C

Power: 1 alkaline 9V battery (Art. 3600M). Dimensions: 180x52mm. Indicated for controlling production and processes, in the techniques for refrigeration, conditioning, heating or aeration, in electronics and electrotechnics.

**4476GC** Each **279,00**

Product running out of stock.

**4476GD****SCU**

Handy and light model with 1 fixed probe for measuring the exact surface temperature by contact. It also senses the environmental temperature. Reading on 3-digits display, automatic switch-off.

Probe length 125mm. Measuring capacity: of temperature by contact from -50 °C to +200 °C. of the environmental temperature from -10 °C to +50 °C / +14 °F to +122 °F.

Accuracy: 1°  
 Power: one 1.5V battery LR44 type (Art. SCU 3600 A), supplied.

Particularly indicated in the automotive sector for checking the temperature of liquids, oil, etc and in the magnetic, chemical, electric, electronic, thermohydraulic fields, etc.

**4476GD** Each **34,80**

Product running out of stock.

**4476GDA****SCU**

Practical and light with model 1 probe sets applied to detect the exact surface temperature by contact. Reading on 4-digit display, automatic shut-off. On/off button (ON/OFF), reading memory button (HOLD) and conversion button °C/° f. Probe length 140 mm. Measurement functions: for contact temperature -50° C +300° C/ -58° F to 572° f.

accuracy: ± 1° C/° f.

power supply: 1 alkaline battery with model LR 44 1.5 V (from Art. SCU to 3600), supplied.

Particularly suitable in the automotive industry for checking the temperature of liquids, oil, etc. and mechanical, chemical, electrical, electronic, office clerk, food, etc.

**4476GDA** Each **27,70**
**4476GE****SCU**

Professional model for measuring temperature in Celsius grades (°C) and Fahrenheit grades (°F), with interchangeable probes "K" joint. Reading on 4-digits display, automatic polarity and battery charge indicator. Measuring capacity range: -50 °C to +1300 °C / -58 °F to +2000 °F. Resolution: 1 °C.

Accuracy:  
 0.75% +1 °C / 0.75% +2 °F.

Power: included 1alkaline 9 V battery (Art. 3600 M).

Possibility to use 2 probes simultaneously (T1 and T2 entry) Art. 4476 GH with independent reading of the 2 values. Reading memory.

With 2 probes Art. 4476 GH.

**4476GE** Each **215,00**
**4476GH****SCU****ACCESSORY AND SPARE PROBES - "K" JOINT**

Thermocouple probe for measuring range -40 °C to + 250 °C. Universal use.

**4476GH** Each **32,90**
**4476GL****SCU**

Thermocouple probe for measuring range -40 °C to + 900 °C, point diameter 3.2mm. Working length 175mm. To be used by penetration or immersion.

**4476GL** Each **128,00**

Thermocouple probe for measuring range -200 °C to + 1200 °C, point diameter 8mm. Working length 120mm. To be used by penetration or immersion.

**4476GP** Each **191,00**

**SCU**

**4476GP**



Thermocouple probe for measuring range -40 °C to + 400 °C. Sensor diameter 15mm. To be used on flat surfaces.

**4476GR** Each **294,00**

**SCU**

**4476GR**



Thermocouple probe for measuring range -40 °C to + 250 °C. Diameter 3mm, working length 245mm. For measuring air temperature.

**4476GS** Each **325,00**

**SCU**

**4476GS**



**DIGITAL HYGROMETERS AND THERMOMETERS**

**Prod. SCU**

Professional model, combined for sensing air relative humidity (%) and measuring the temperature in Celsius grades (°C) or Farenheit grades (°F). Particularly indicated for checking conditioning systems, seasoning rooms, dryers, greenhouses, etc. One probe for measuring both humidity and temperature, diameter 15mm, length 208mm. Reading on 4-digits display.

Measuring capacity range:

of humidity from ±0% to 100%, of temperature from -20 °C to +60 °C / from -4 °F to +140 °F.

Resolution: humidity 0.1%, temperature 0.1 °C / 0.1 °F.

Accuracy: humidity ±3% of the reading +1%, temperature ±0,7 °C ±1,4 °F.

Reading memory (Hold).

Power: with included one alkaline 9V battery (Art. 3600 M) + adaptator/transformer for connection to 240V network.

Complete with connecting cable for RS232C computer and SOFTWARE disk.

**4476GT** Each **432,00**

**SCU**



**4476GT**



**REFRACTOMETERS**

**Prod. SCU**

Professional combined model to check and measure the concentration of cooling agents and lubricants of machine tools. Also useful to check the cooling and the car battery fluid concentration point.

Measuring range from 0 to 32% (Brix method), increments 0.2%. In a box.

**4478** Each **162,00**

**SCU**

**4478**



Professional model combined to control the solidification point of antifreeze liquid, liquid for cleaning (e.g. liquid window cleaner) and concentration of liquid batteries.

Measuring capacity:

Propylene and Ethylene Glycol - 50 ÷ 0°

Cleaning fluid - 40 ÷ 0°

Battery fluid concentration level 1.30 ÷ 1.15.

Boxed.

**4478A** Each **138,00**

**SCU**

**4478A**



**MULTIMETERS**

**Prod. SCU**

Analogue digital ergonomic model. For electrotechnicians.

Switch for selecting functions and measurements.

Continuous current: capacity 200mV to 600 V / 200 µA to 10 A.

Alternate current: capacity 200 mV to 600 V / 200 µA to 10 A.

Resistance: capacity 200 ohm to 20 M ohm (Battery test: 1.5 V and 9 V).

Power: with included one alkaline 9V battery (Art. 3600 M).

With 2 pointers.

**4479G** Each **108,00**

**SCU**



**4479G**



Pair replacement tip per Art. 4479 G - 4479 GE - 4480 G - 4480 GB - 4480 GE - 4480 GV - 4481 G - 4481 GB - 4481 GC - 4481 GD - 4481 GDE - 4481 GE.

**OP4479GE** Per pair **18,10**

4479GE

SCU



Electronic digital model, compact and light. For electrotechnicians.  
Switch for selecting functions and measurements.  
Automatic polarity. Reading on display. Battery charge indicator.  
Continuous current: capacity 200 mV to 1000 V / 200  $\mu$ A to 10 A.  
Alternate current: capacity 2 V to 750 V / 2 mA to 10 A.  
Resistance: capacity 200 ohm to 20 M ohm.  
Power: included 3 alkaline 1,5 V battery AAA type (Art. 3600 C).  
With 2 pointers.

4479GE Each 49,80

4480G

SCU



Electronic digital model, compact and light. For electrotechnicians.  
Switch for selecting functions and measurements.  
Automatic polarity. Reading on display. Battery charge indicator.  
Continuous current: capacity 400 mV to 1000 V / 400  $\mu$ A to 10 A.  
Alternate current: capacity 4 V to 750 V / 400  $\mu$ A to 10 A.  
Resistance: capacity 400 ohm to 40 M ohm.  
Frequency: capacity 100 Hz to 30 MHz.  
Temperature: from -40°C to +1000°C.  
Power: included 1 alkaline 9 V battery (see Art. 3600 M).  
Automatic switch-off for battery saving.  
With 2 pointers and probe.

4480G Each 70,20

4480GB

SCU



Electronic digital/analogue model, multifunctions, for electrotechnicians.  
Switch for selecting functions and measurements, safety input jack.  
Automatic polarity. Reading on display and bar scale.  
Battery charge indicator. Automatic switch off. Back illuminated.  
Continuous current: capacity 400 mV to 1000 V / 400  $\mu$ A to 10 A.  
Alternate current: capacity 400 V to 750 V / 400  $\mu$ A to 10 A.  
Resistance: capacity 400 ohm to 40 M ohm.  
Frequency: capacity 10 kHz to 200 kHz.  
Relative measurements. Data inserting in memory.  
Power: included 3 alkaline 1,5 V battery AAA type (Art. 3600 C).  
With 2 pointers.

4480GB Each 125,00

4480GE

SCU



Electronic digital/analogue model, multifunctions, for electrotechnicians.  
Switch for selecting functions and measurements.  
Automatic polarity. Reading on display and bar scale.  
Battery charge indicator.  
Continuous current: capacity 50 mV to 1000 V / 500  $\mu$ A to 20 A.  
Alternate current: capacity 50 mV to 1000 V / 500  $\mu$ A to 20 A.  
Resistance: capacity 50 ohm to 50 M ohm.  
Frequency: capacity 5 kHz to 125 kHz.  
Relative measurements. Data inserting in memory.  
Measurable temperatures from -50 °C to +1000 °C.  
Power: with included one alkaline 9V battery (Art. 3600 M).  
Interface for PC: RS 232.  
With 2 pointers and thermocouple probe Art. 4476 GH.

4480GE Each 291,00

**LAN-TESTERS AND MULTIMETERS**

**Prod. SCU**

Electronic digital model for LAN network and multimeter function test con portata automatica. Switch for selecting functions and measurements Automatic polarity. Reading on display of multimeter functions. LED displays the real pin configuration of 10BASE-T and 10BASE-2 Thin Ethernet, FJ45/RJ11 modular, 58A, tia-568a/568b and Token Ring cables (ring network). Provides easy to read continuity and fault status display. Checks for continuity, open wire, ground wire, shorted pair and crossed pair faults. Auto or manual scanning for LAN testing.

Test diode.

Discharged battery indication.

Continuous current: capacity 200 mV to 600 V/ 200,0 µA to 200,0 mA

Alternate current 50-60 Hz: capacity 2.000 V to 20.00 V - 200.0 V to 600 V/200.0 µA to 200.0 mA

Resistance: capacity 200.0 ohm to 20.00 Mohm

Power supply: 1 9V alkaline battery (Art. 3600 M) and 2 alkaline batteries 1.5 V "AAA" (Art. 3600 C), supplied.

With pointer couple, LAN test cable, 2 x female cables BNC-RS 45 and double male adapter BNC.

**4480GP** Each **139,00**



**4480GP**



**DIGITAL MULTIMETERS WITH TACHOMETERS**

**Prod. SCU**

Digital electronic model with double function, with the ability to measure current (multimeter) and catch the speed (speedometer).

Selection of the functions of the measures through the switch.

AC voltage: 400 mV-4/40/400/1000 V

DC voltage: 4/40/400/700 V

alternating current: 40/400 mA-4/20 A

DC current: 40/400 mA-4/20 A

resistance: 400 ohms-4/40/400 K?-4/40 Mohm

capacity: 40/400 nF-4/40/100 µF

frequency: 5/50/500 Hz-50/500-10 MHz

Duty Cycle: 0.1-99.9%

Pulse Amplitude: 1-10 ms

diode Test test current: 0.3 but

continuity: 1500 ohm-BIE < test < 0.3 but

4600 RPM-4000 RPM

-4600 RPM 12000 RPM (x 10 RPM)

2 RPM/DIS 300-4000 RPM

2 RPM/DIS 300-6000 RPM

Power: included 1 alkaline 9 V battery (see Art. 3600 M)

for battery saving auto-off

reading on high-contrast display 4 digit, back-illuminated.

Complete with tips and inductive clamp torque.

**4480GV** Each **215,00**



**4480GV**



For spare pairs of toes for Art. 4479 G/GE - 4480 G/GB/GE/GV - 4481 G/GB/GC/GD/GDE/GE see Art. OP 4479 GE.

**CURRENT TESTERS**

**Prod. SCU**

Analogue model.

For measurement of alternate currents, alternate voltage, continuous voltage, resistance.

Manual locking of the index after measurement.

Made of shock-proof plastic, very high insulation.

Continuous voltage: 0 to 60 V.

Alternate Voltage / Current: 150 to 600 V / 6 to 300 A .

Resistance: 0-10 K ohm.

Power: included 1 alkaline 1,5 V battery AAA type (Art. 3600 C). Max. aperture 32mm.

With 2 pointers.

**4481G** Each **88,20**



**4481G**



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**4481GB**

SCU



Electronic digital model, multifunctions, with display.  
Automatic switch-off. Battery charge indicator.  
Continuous voltage: 200mV to 600 V  
Alternate voltage/current: 200mV to 600 V / 20.00 to 1000 A.  
Resistance: 20 Mohm.  
Power: included 2 alkaline 1,5 V batteries AAA type (Art. 3600 C). Max opening 30mm.  
With 2 pointers.

<b>4481GB</b>	Each	<b>159,00</b>
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**4481GC**

SCU



Electronic digital model, multifunction, with display.  
Additional analogue reading.  
Senses the true Root Mean Square (RMS). Automatic switch-off.  
Battery charge indicator. Back-lit.  
Continuous and alternate voltage: 4-40-400-600 V.  
Direct and alternate current: 0 A to 1000 A.  
Resistance: 400 ohm to 40 Mohm.  
Frequency: 40 Hz - 100 kHz.  
Power: included 3 alkaline 1,5 V batteries AAA type (Art. 3600 C). Max. aperture 42mm.  
With 2 pointers.

<b>4481GC</b>	Each	<b>311,00</b>
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**4481GD**

SCU



Digital electronic model, multifunctional, with reading on the display.  
True RMS detection (True RMS). Low battery indicator.  
Direct and alternating voltage up to 600 v.  
direct and alternating current up to 400 a.  
Resistance up to 40 Mohm.  
Frequency up to 1 MHz.  
automatic selection of the best resolution. Continuity testing. Testing diodes. Peak function. "Data HOLD" function  
Power: with included one alkaline 9V battery (Art. 3600 M). opening 32 mm max.  
With pair of toes.

<b>4481GD</b>	Each	<b>261,00</b>
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**4481GDE**

new

SCU



Electronic digital model, multifunctional, with reading on the display.  
Detects the true effective value (True RMS).  
DC and AC voltage: 600 mV to 600 V.  
DC and AC: 60 A to 600 A.  
Resistance: 600 Ohm to 60 Mohm.  
Frequency: 600 Hz to 10 kHz.  
Manual or automatic selection of the best resolution. Continuity testing. Testing diodes. "Data HOLD" function  
power supply: 3 1.5 V alkaline batteries, AAA type (Art. 3600 C), supplied. Cat. III 600 V.  
With couple tips.

<b>4481GDE</b>	Each	<b>212,00</b>
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Electronic digital model, multifunctions, with display.  
Automatic regulation of zero setting and polarity.  
Battery charge indicator.  
Continuous voltage/current: 200 mV to 600 V / 200 to 2000 A.  
Alternate current: 200 to 2000 A.  
Resistance: 0 to 2000 ohm.  
Power: with included one alkaline 9V battery (Art. 3600 M). Max opening 44mm.  
With 2 pointers.

**4481GE** Each **401,00**

For spare pairs of toes for Art. 4479 G/GE - 4480 G/GB/GE/GV - 4481 G/GB/GC/GD/GE  
see Art. OP 4479 GE.

SCU



**4481GE**



**INSULATION - MEASURERS**

**Prod. SCU**

Electronic digital type with multifunctions, with reading of the display, for the measurement of insulation resistance of electrical equipment, switches, cables, motors, generators with test voltage 250 V, 500 V, 1000 V  
Additional functions of transition current test and voltage measurement.  
Measuring capacity insulation test: 25 Mohm up to 2000 Mohm.  
Resolution: 1 Mohm.  
test current: 1 mA.  
Accuracy: 0.25 ohm to 200 ohm ± 3% + 3 digits  
200 ohm to 2000 ohm ± 5% + 5 digits  
When the resistance is less than 1 ohm it beeps.  
Test voltage: up to 2.8 V.  
Measurement of AC voltage: 0 to 600 V.  
Resolution: 1 V.  
Accuracy: ± 1.5% + 3 digits  
Power: 6 alkaline batteries 1.5 V AA (Art. 3600 E) provided.  
With three measuring tips.

**4481GL** Each **370,00**

SCU



**4481GL**  
*new*



**DIGITAL LIGHTS METERS**

**Prod. SCU**

Electronic digital model, to detect the intensity of light (solar, tungsten, fluorescent, mercury, etc.).  
Clear reading on the display. With cursor for OFF/ON and Data Hold functions.  
Selectable measuring ranges: 0 to 2000 Lux - 2,000 to 20,000 Lux - 20,000 to 100,000 Lux.  
Powered by: 1 9 V alkaline battery 1 (3600 M), supplied.  
Complete with sensor.

**4481GR** Each **115,00**

SCU



**4481GR**  
*new*



Electronic digital model to sense the luminous intensity of light (solar, tungsten, fluorescent, mercury, etc.).  
Multifunctions model with display. Data memory, automatic switch-off, relative percentage measurements.  
Connection to computer.  
Possible measuring fields: 0 to 1.999 Lux - 2.000 to 19.990 Lux - 20.000 to 50.000 Lux.  
Power: included 1 alkaline 9 V battery (see Art. 3600 M).  
With sensor.

**4481GS** Each **436,00**

SCU



**4481GS**



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## DIGITAL HARDNESS TESTERS

4481GSE **Prod. SCU**

Digital model with bright, large, multifunction display to measure the hardness of steel, cast iron, aluminum, non-ferrous materials. Portable for max flexibility and ease of transportation, provided with special separated sensor allowing easy measurements even in hard-to-reach. Usable in any orientation (360°), automatic angle compensation. In compliance with ASTM A-956 and DIN 50156.

It allows visualization of measurements in Leeb scale (HL) and automatic conversion to: Rockwell (B and C), Vickers (HV), Brinell (HB), Shore (HSD) scale as well as traction resistance (MPa-Ob). It allows statistical measurements with visual indication of absolute values, average value (up to 9 measurements), difference between min. and max. values (tolerance), time and date. Instant printing of measured values via IR-link printer (cordless), included. Indicated for flat, concave/convex objects with radii > 10mm (via dedicated stabilizing ring) or > 50mm (without ring), thickness > 8mm and mass > 3kg.

Operated by No.3 x 1.5 V alkaline batteries (AAA-typ - Art. 3600 C), included, or by network power supply V 230 - Hz 50 (included).

Automatic switch-off and battery level indicator.

Supplied in robust transport case, complete with calibration sample.

Roughness capacity HL 170 to 960

Resistance to traction capacity (with steel) MPa-Ob 375 to 2639

<b>4481GSE</b>	<b>Each</b>	<b>2.370,00</b>
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## HARDNESS TESTERS

4481GTA 

SHORE A

**Prod. SCU**

With dial, to measure the hardness of soft materials such as rubbers, caouthouc, plastic materials, resins, etc. in measurement units SHORE A.

Scale: 0 ÷ 100. Steel contact point.

<b>4481GTA</b>	<b>Each</b>	<b>73,30</b>
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4481GVA 

SHORE A

With dial, value indicator, high-precision, 1% of max. value, in compliance with DIN 53505 / ASTM - D - 2240 / ISO 868 standards. Complete with gauged tester for periodical check of calibration.

Scale: 0 ÷ 100. Increments 1 unit. Steel contact point. Dimensions 115x60x25mm, weight 160g. With case.

SHORE A scale to measure materials such as rubbers, elastomers, neoprene, silicon, vinyl, soft plastics, leather, felt, etc.

<b>4481GVA</b>	<b>Each</b>	<b>160,00</b>
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4481GVE 

SHORE C

Product description as Art. 4481GVA

SHORE C/0 scale for foam and sponge measurements.

<b>4481GVE</b>	<b>Each</b>	<b>211,00</b>
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Product description as Art. 4481GVA

SHORE D scale for hard rubbers, plastic materials, resipol, synthetic resins, epossidic resins, plexiglass etc. measurements.

**4481GVL** Each **221,00**

**SCU**

**4481GVL**



**SHORE D**

**BATTERY CHARGES**

**Prod. SCU**

Power 230 V. With safety valve against short circuits, overloads and pole reversals.

With amperometer for reading the delivered current,

With commutator for different voltages. For frequency 50/60 Hz.

Cables and pliers included.

Art.		<b>4482A</b>	<b>4482B</b>
Current:conventional loading	A	6.5	10
Loading current	A	12	16
Loading voltage	Volt	6-12	12-24
Dimensions	mm	240x170x150h	240x170x150h
<b>Each</b>		<b>140,00</b>	<b>184,00</b>

**SCU**

**CE**

**4482A**  
**4482B**



**ELECTRONIC BATTERY CHARGES**

**Prod. SCU**

Electronic and automatic type with hold function charging even when the battery is not in operation.

Power 220-240 V / 50-60 Hz.

Suitable for charging lead batteries type WET, MF, GEL, AGM, Ca / Ca.

Automatic charge cycle, controlled by a microprocessor, in 9 distinct phases based on the state of charge of the battery.

Recovery function for deeply discharged batteries. Anti-sparking. Protection against reverse polarity. IP 65 protection.

Complete with cables, pliers and connector for the cigarette lighter (which allows to charge the battery from inside the vehicle, except Art. 4482B 1).

Art.		<b>4482B 1</b>	<b>4482B 3</b>	<b>4482B 5</b>
Absorbed power	W	30	60	135
Loading current	A	1,1	0,8-3,8	7
Loading voltage	Volt	6-12	12	12
Gamma batteries	Ah	2,2-32	1,2-14 / 14-75	14-150
Dimensions	mm	153x59x37h	175x65x43h	206x88x52h
Weight	Kg	0,350	0,460	0,735
<b>Each</b>		<b>96,80</b>	<b>128,00</b>	<b>187,00</b>

**SCU**

**CE**

**4482B 1**  
*new*

**4482B 3**  
*new*

**4482B 5**  
*new*



**IP65**



**BOOST STARTERS**

**Prod. SCU**

Emergency starter and extra portable power source.

Ideal for all applications that require a powerful booster and/or extra portable power source.

Suitable for: load 12 V battery, starting, as a source of additional energy-saving memory and (for electrical equipment to 12 V).

Powered by cigarette lighter socket or connection to mains 230/240 V. Can be supported and used in any position, as it protected against electrolytic leakage. Complete with: automatic thermal protection from 20 to, protection circuit against peak tensions to protect the vehicle electronic system and with charge test button with LEDs. Supplied with: automatic charger, power supply, cable, cigarette lighter 2 isolated pliers with spring (opening mouth 25 mm) and 6 copper cable wires.

Provides a starting current of 1700 A and a continuous minimum of 600 A.

For the 12 V batteries of automobiles, trucks, campers, pleasure craft, etc.

Cable length 450mm. Weight 10 Kg.

**4482C** Each **501,00**

**SCU**

**CE**

**4482C**



**11**

4482D

SCU

CE



Product description as Art. 4482C

Provides a starting current of 2500 A and a continuous minimum of 800 A.

For the 12 V batteries of large automobiles, vans, small trucks, etc.

Cable length 870mm. Weight 11 Kg.

4482D Each 744,00

BOOSTER for 12/24 V batteries available on request.

## TENSION TESTERS WITHOUT CONTACT

4482DT  
*new*

SCU

CE



Prod. SCU

With insulation according to IEC/EN 61010-1 (DIN VDE 0411).

Pen-shape, pocket size, allows to detect voltages from 12-1000 V AC without contact - Cat. III 1000 V.

With optical signal (1 LED), acoustic signal and two 1.5 V AAA batteries (Art. 3600 C), supplied. Unbreakable ABS body and clip, suitable for voltage measurement in electrical panels, sockets, plugs, switches, relays, etc. It allows to detect with high accuracy power outages in cables and electrical extension cords.

4482DT Each 31,90

## ELECTRONIC TESTERS

4482E

SCU

CE



Prod. SCU

Bipolar system with LED which allows the user to check the presence of continuous and alternate current 3.5 - 400 V as well as polarity.

4482E Each 18,40

4482F

SCU

CE



Bipolar system with LED which allows the user to perform what follows:

- check the presence of continuous and alternate current 6-380 V
- determine the tension value
- check polarity.

4482F Each 62,70

4482GA

SCU

CE



High insulation model, manufactured in compliance with VDE 0680/5 standards.

Bipolar system with LED, which allows the user to check the presence of continuous and alternate current of 6 - 400 V.

4482GA Each 27,70

4482GE  
*new*

SCU

CE



IP65

High insulation model according to IEC/EN 61243-3 (DIN VDE 0682-401), professional, bipolar. Using the LEDs the following functions can be performed:

- determine the value of DC and AC voltages from 6-1400 V / 6-1000 V
- polarity test, test for the direction of the rotating field (max 400 V)
- continuity check of circuits with a resistance between 0 and 50 K ohms, with optical/acoustic signal
- diodes and safety switch test as a result of failures
- phase test towards ground.

Powered by: 2 1.5 V alkaline batteries, AAA type (Art. 3600 C), supplied.

4482GE Each 102,00

4482GH

SCU

CE



High insulation model, manufactured in compliance with VDE 0682-401 standards.

By means of a LED, it is possible to:

- check the presence of direct and alternate current of 6 - 400 V.
- determine the voltage value
- check polarity
- incoming resistance 0 to 250 kΩ

4482GH Each 62,10

ELECTRONIC DIGITAL model, high insulation in compliance with VDE 0680/5 standards. Ideal for laboratories, workshops and specialised technicians.

Universal instrument, completely safe, for continuous and alternate currents 5 - 690 V.

Determines the voltage value. Automatic switch-off.

Possible functions:

- to measure voltages
- to test current flow by means of 2 batteries of 1.5 V.
- to test phase towards ground
- to test polarity
- to test semi-conductors
- to test conductance with resistance range 0-250 K ohm.

Input voltage	Volt	5 ÷ 690
Frequency range	Hz	0 ÷ 100
<b>4482GL</b>	<b>Each</b>	<b>203,00</b>

SCU



4482GL



DIGITAL ELECTRONIC type with high insulation according to IEC / EN 61243-3 (DIN VDE 0682-401), professional, bipolar. Ideal for laboratories, workshops, technicians and installers.

With LCD-display with backlight and automatic shutdown can perform the following functions:

- determining the value of DC and AC voltages from 4-1400 V / 3 -1000 V
- test polarity, the direction of the rotating field (max 400 V)
- resistance measurement from 1-1999 ohms
- rate measurement from 10-1000 Hz
- control continuity of circuits with resistance between 0 and 50 K ohms, with acoustic signal
- testing of safety switches as a result of failure of the current test phase to earth.
- Data-Hold

Power: 2 alkaline batteries 1.5V AAA (Art. 3600 C), supplied.

<b>4482GP</b>	<b>Each</b>	<b>177,00</b>
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SCU



4482GP  
*new*



IP65

**CIRCUIT CAR TESTERS**

Orig. Gedore - Art. 4610

Type with indicator light, for tests on electrical circuits, car lights, for voltages of 6 to 24 V.

Steel blade, brass body with protective cap, cable and terminal.

Overall length	mm	125
<b>4482GR</b>	<b>Each</b>	<b>16,00</b>

For screwdrivers test-candles and test-lights for cars see. Art. 1905 G - 1906 G.

GEDORE

4482GR



**ELECTRONIC CAR TESTERS**

Prod. SCU

Electronic model with luminous indicators; checks electrical circuits voltages: ±3 to 48 V with device for checking the current flow inside cables.

Particularly indicated for checking electronic gearcases.

<b>4482GT</b>	<b>Each</b>	<b>22,70</b>
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SCU



4482GT



**DIGITAL ELECTRONIC WEIGHTS**

Prod. SCU

Precision digital type, with round plate Ø 150 mm. 4 digit LCD display (figures 15mm high), with ON/TARE button to turn on and add weight and OFF button to switch off and calibrate. Operates with 2 x 1.5 V alkaline batteries (AA type - Art. 3600 E), provided (4483 A 0.5 with 9 V battery Art. 3600 M) Automatic switch-off after 3 minutes.

Weight 0.600 Kg. Dimensions 170x240x39mm.

Capacity up to	Kg	0,5	2,2	5,2
Division and reproducibility	grams	0,1	1	5
Linearity ±	grams	0,2	2	10
<b>4483A</b>	<b>Each</b>	<b>112,00</b>	<b>112,00</b>	<b>102,00</b>

SCU

4483A



11

**4483B**



High precision digital model, stainless steel square weighing plate. High-precision for use in labs, part counting. 4-digits LCD display (digits height 15mm), ON/OFF key, MODE/CAL key for calibration, part counting, percentage weighing and unit of measure selection, SET/M key for checking the weight of each mixture component, PRINT key for both data transfer and printing (possibility to connect to a printer, on demand, or to a RS 232 computer output), TARE key for tare entry. Operated by separated power supply V230-50 HZ (included) or 9V-battery (Art. 3600 M), not included. Automatic switch-off after 3 minutes.

Weight 1.1kg. Scale dimensions 163x245x79mm. Allowed ambient temperature from +5° C to + 35° C.

Capacity up to	Kg	<b>1</b>	<b>2</b>	<b>6</b>
Division and reproducibility	grams	0,1	0,1	1
Linearity ±	grams	0,2	0,2	2
Minimum piece weight at counting	grams/pz	0,2	0,2	2
Plate dimensions	mm	130x130	130x130	150x170
<b>4483B</b>	<b>Each</b>	<b>352,00</b>	<b>397,00</b>	<b>234,00</b>

**4483E**



Digital platform model, stainless steel square weighing plate, dimensions 315x305mm. Ideal for weighing forwarding parcels. 4-digits LCD display (digits height 25mm), ON/OFF key, HOLD key to hold displayed weight for 5 sec. (also dynamic, ideal for weighing e.g. animals), UNIT key for unit of measure selection Kg/lbs, TARE key for tare entry.

External display, dimensions 210x110x45mm, provided with cable length 1.5m, wall support included. Operated by separated power supply V230-50 HZ (included) or 6 x 1.5V batteries (AA-type - Art. 3600 M), not included. Automatic switch-off after 3 minutes.

Weight 4kg.

Allowed ambient temperature from +10° C to + 35° C.

Capacity up to	Kg	<b>35</b>	<b>60</b>	<b>150</b>
Division and reproducibility	grams	10	20	50
<b>4483E</b>	<b>Each</b>	<b>265,00</b>	<b>265,00</b>	<b>265,00</b>

**4483F**



**IP65**

Digital platform model, stainless steel square weighing plate. Multi-purpose model for weighing parcels, counting function, mixture components and check. 4-digits LCD display (digits height 25mm), ON/OFF key, PRINT key for both data transfer and printing (possibility to connect to a printer, on demand, or to a RS 232 computer output), MODE key to select part counting function, percentage weighing and unit of measure selection, SET/M key for checking the weight of each mixture component, TARE key for tare entry.

External display, dimensions 225x110x45mm, provided with cable length 1.5m, wall support included. Operated by separated power supply V230-50 HZ (included) or 9V-battery (Art. 3600 M), not included. Automatic switch-off after 3 minutes.

Allowed ambient temperature from +5° C to + 35° C.

Capacity up to	Kg	<b>6</b>	<b>15</b>	<b>35</b>	<b>60</b>	<b>150</b>	<b>300</b>
Division and reproducibility	grams	2	5	10	20	50	100
Minimum piece weight at counting	grams/pz	4	10	10	20	40	100
Plate dimensions	mm	315x305	315x305	315x305	315x305	315x305	522x403
Weight	Kg	4	4	4	4	4	16
<b>4483F</b>	<b>Each</b>	<b>342,00</b>	<b>342,00</b>	<b>342,00</b>	<b>342,00</b>	<b>342,00</b>	<b>550,00</b>

**4483L**



High precision digital model, stainless steel square weighing plate dimensions 340x240mm. Part counting and weighing functions. LCD display (digits height 18mm), ON/OFF key, g/pcs key to select weighing or counting functions. PRINT key for both data transfer and printing (possibility to connect to a printer, on demand, or to a RS 232 computer output) and 4 keys for 4 working steps performed from left to right for part counting function.

Operated by separated power supply V230-50 HZ (included) or 9V-battery (Art. 3600 M), not included, or 6 x 1.5V-battery (LR14C - Art. 3600 F), not included. Weight 6.5kg. Scale dimensions 350x390x120mm. Allowed ambient temperature from -10° C to + 30° C.

Capacity up to	Kg	<b>16,1</b>	<b>36,1</b>
Division	grams	0,1	0,1
Minimum piece weight at counting	grams/pz	0,1	0,1
<b>4483L</b>	<b>Each</b>	<b>936,00</b>	<b>1.050,00</b>

**11**

**SPRING DYNAMOMETERS**

**Prod. SCU**

High precision model for field measurements, Electro technical, mechanical control of measuring instruments and music etc.

Metal body, dual scale dial, for reading in both directions and double needle metering and 1 seal 1 the maximum value measured. Verification of relays, charcoal, soft samplers, etc.

Tolerance ± 1% to maximum capacity + measured value. Comes with factory certificate.



**4483M**

Size		1	2	3	4	5	6
Measuring capacity	cN/N	3-30 cN	5-50 cN	10-100 cN	25-250 cN	0,5-5 N	1-10 N
Division	cN/N	1,0 cN	1,0 cN	2,0 cN	5,0 cN	0,1 N	0,2 N
Dial Ø	mm	38	38	38	38	72	72
Probe length	mm	30	30	30	30	48	48
<b>4483M</b>	<b>Each</b>	<b>395,00</b>	<b>395,00</b>	<b>395,00</b>	<b>395,00</b>	<b>498,00</b>	<b>498,00</b>



Size		7	8	9	10	11
Measuring capacity	cN/N	2-20 N	3-30 N	4-40 N	5-50 N	10-100 N
Division	cN/N	0,4 N	0,5 N	1,0 N	1,0 N	2,0 N
Dial Ø	mm	72	72	72	72	72
Probe length	mm	48	48	48	48	8
<b>4483M</b>	<b>Each</b>	<b>498,00</b>	<b>555,00</b>	<b>555,00</b>	<b>562,00</b>	<b>625,00</b>

Size 11 has a reduced length probe.

**SPRING AND PRECISION BALANCES**

**Orig. Rebüre**

Brass-coated dial, zinc-coated hook and ring.

Capacity up to	Kg	10	20	30	50
Quadrant	mm	95x30	130x30	140x40	200x48
<b>4484G</b>	<b>Each</b>	<b>4,98</b>	<b>6,02</b>	<b>6,90</b>	<b>10,70</b>



**4484G**

Cylinder-shaped. Body in nickel-plated brass.

Silvered internal tube with neat scale, black graduation.

Hooks and rings in nickel-plated steel.

Starting value: kg 0. Tolerance: ±1% on the scale value.

Capacity up to	Kg	1	2,5	5	10	20	30	60
Division	grams	10	25	50	200	200	500	1000
Length with load	mm	350	350	355	316	315	350	417
<b>4485G</b>	<b>Each</b>	<b>96,80</b>	<b>96,80</b>	<b>96,80</b>	<b>104,00</b>	<b>137,00</b>	<b>158,00</b>	<b>242,00</b>



**4485G**

Capacity up to	Kg	<b>100</b>
Division	grams	1000
Length with load	mm	592
<b>4485G</b>	<b>Each</b>	<b>293,00</b>

**DIAL DYNAMOMETERS**

**Orig. Rebüre**

With graduated dial. Easy immediate reading. Precise and sturdy finish.

Starting value: kg 0. Tolerance: ±1% on the scale value.

Capacity up to	Kg	10	25	50	100	200	300
Division	grams	50	100	250	500	1000	1000
Weight	Kg	1,71	1,73	1,76	1,82	3,95	4,5
Dial Ø	mm	150	150	150	150	200	200
<b>4487G</b>	<b>Each</b>	<b>154,00</b>	<b>154,00</b>	<b>167,00</b>	<b>167,00</b>	<b>294,00</b>	<b>321,00</b>



**4487G**

With double hands (1 measuring hand - 1 value verification hand).

Graduated dial with plexiglas protection, rubber gasket and sealing frame in stainless steel. Each dynamometer is tested one by one.

Starting value kg 0. Tolerance: ±1% on the scale value.

Capacity up to	Kg	25	50	100	200	300
Division	grams	100	250	500	1000	1000
Weight	Kg	2,1	2,2	2,4	4,4	4,5
Dial Ø	mm	150	150	150	200	200
<b>4487GA</b>	<b>Each</b>	<b>336,00</b>	<b>340,00</b>	<b>340,00</b>	<b>523,00</b>	<b>548,00</b>



**4487GA**

### 4487GE SCU



**Prod. SCU**

Digital model for tension and compression measurements, high-precision and high-quality. Graduated dial with double scale N/Kg. Double detection: continuous measurement (Track) and peak value measurement. Reset switch. Supplied with 6 interchangeable accessories for universal use (5 heads + 1 extension 90mm). Uncertainty of measurement  $\pm 1\%$  of the max. value.

Weight 0.560kg. Dimensions 230x60x50mm.  
In case.

Capacity up to	N	10	20	50	100	200	500
Division	N	0,05	0,10	0,25	0,50	1,00	2,50
<b>4487GE</b>	<b>Each</b>	<b>326,00</b>	<b>326,00</b>	<b>326,00</b>	<b>326,00</b>	<b>326,00</b>	<b>326,00</b>

## DIGITAL ELECTRONIC DYNAMOMETERS

### 4487GL SCU



**Prod. SCU**

Digital model, practical, light and handy, with carrying lug. 4-digits LCD display (digits height 11 mm) with HOLD key for prolonged weight reading (5 sec.), ON/OFF key, TARE key for tare entry. UNIT key for converting units in Kg - lb - Nm. No.1 battery 9 V (Art. 3600 M), included. Autonomy approx. 300 hours. Automatic switch-off after 3 minutes.

Supplied with "S" hook in stainless steel. Weight approx. 0.250kg.  
Overall height hook included 275mm.

Capacity up to	Kg	15	50
Division	grams	20	50
<b>4487GL</b>	<b>Each</b>	<b>118,00</b>	<b>131,00</b>

### 4487GP SCU



Digital model, sturdy handy and light.

4-digits LCD display (digits height 12mm) with HOLD key for prolonged weight reading (5 sec.) of the weight, ON / OFF key to switch on and off, TARE key to tare entry, UNIT key for converting units in Kg - lb - Nm..

3 alkaline batteries 1.5 V. Autonomy approx. 300 hours. Automatic switch-off after 3 minutes. Supplied with stainless steel karabiner, opening 15mm, and "S" hook in stainless steel, opening 25mm. Weight. approx. 0.400kg.

Total height with karabiner and hook 300mm.

Capacity up to	Kg	20	50	100	200
Division	grams	50	100	200	500
<b>4487GP</b>	<b>Each</b>	<b>173,00</b>	<b>184,00</b>	<b>224,00</b>	<b>202,00</b>

### 4487GT SCU



Digital model with remote, rugged with safety and testing requirements according to the European standard EN 13155/en 61010 and German TÜV-GS standards.

With dual LCD display, backlight, digits 5 (ALT. 25 mm figures), with prolonged reading HOLD weight, press "0" for a charge balance resets, ON/OFF-button UNIT for start-up, shut-down and unit selection, key TARE for tare.

Operation with internal accumulator, battery life 30 hours, 14 hours charge time approx. 230 V via power supply included.

Accuracy:  $\pm 0.2\%$  of full scale value.

Supplied with top ring, inner width 25 mm swivel hook with safety latch, useful opening 26 mm.

Total height with 390 mm hook and loop. Weight 3.2 kg.

Capacity up to	Kg	300	600
Division	Kg	0,1	0,2
<b>4487GT</b>	<b>Each</b>	<b>739,00</b>	<b>739,00</b>



Digital model with remote, very sturdy, heavy duty, with testing and safety requirements according to the European standard EN 13155/en 61010 and German TÜV-GS standards.

With backlit LCD display, digit 5 (ALT. mm 30 digits), with prolonged reading HOLD weight, press "0" for a charge balance resets, ON/OFF button to start-up, shut-down.

Operation with internal accumulator, 100 hours, 14 hours charge time approx. 230 V via power supply included.

Accuracy: ± 0.2% of full scale value.

Supplied with top cricket, inner width 66/73 mm (1000/3000 model) and swivel hook with safety latch, useful 40 mm Aperture.

Total height with shackle and 610 mm hook. Weight 16 Kg.

Capacity up to	Kg	1000	3000
Division	Kg	0,1	0,5
<b>4487GV</b>	<b>Each</b>	<b>1.440,00</b>	<b>1.490,00</b>



**4487GV**

Digital model with remote control. Aluminium case, extensometer load cell in stainless steel and indicator with microprocessor. 5-digits LCD display (digits height 25mm) with alarma acoustic signal for maximum load and discharged batteries. 4 alkaline batteries of 1.5V utonomy: approx. 1 year. Automatic switch-off after 30 minutes. Protection IP20.

Accuracy: ± 0.05% on the full-scale value. Possibility to exclude the tare weight. HOLD function.

Possibility to exclude the tare. Supplied with 2 shackles in forged steel and sturdy plastic case for easy carrying.

Capacity up to	Kg	3000	6500	9500
Division	Kg	0,2	1	2
<b>4488</b>	<b>Each</b>	<b>1.430,00</b>	<b>1.430,00</b>	<b>1.780,00</b>

For hoist hooks see Art. 2133 Z kg 3200 - 7500 and Art. 2133 ZE kg 3150 - 8000- 12500.



**IP20**



**4488**

Digital model for tension and compression measurements, sturdy and user-friendly.

5-digits LCD display (digits height 27mm), ON/OFF key, MAX key for peak measurements, UNIT key for unit of measure selection (N-Kgf-lbf-oz) and automatic conversion of the values, ZERO key for measurement reset.

High-frequency data recording (1000 Hz). Uncertainty of measurement ± 0.5% of the max. value. Overload protection 200% of the peak value. No.6 alkaline batteries 1.5V, rechargeable and 230V - 50Hz feeder (included). Automatic switch-off.

Supplied with No.6 interchangeable tools (5 heads + 1 extension 90mm).

Weight 0.600kg. Dimensions 195x84x35mm.

In package.

Capacity up to	N	50	100	250	500	1000
Division	N	0,02	0,05	0,1	0,2	0,5
<b>4488B</b>	<b>Each</b>	<b>424,00</b>	<b>424,00</b>	<b>424,00</b>	<b>424,00</b>	<b>424,00</b>



**4488B**

Digital model for tension and compression measurements, high-precision for high performances. With data output RS 232.

Backlit LCD display, 5-digit. ON/OFF key, PEAK key for peak measurements, UNIT key for unit of measure selection (N-Kgf-lbf) and automatic value conversion, ZERO key for measurement reset, SET key for measuring range verification and remote data transfer, MEMORY key to store up to 10 detected values, PRINT key for data transfer and printing.

High-frequency data recording (2000 Hz). Uncertainty of measurement ± 0.2% of max. value.

Overload protection 150% of max. value. Statistics function able to generate the average value of the measured values as well of the max and min load peaks.

Rechargeable battery and 220V - 50Hz feeder (included). Automatic switch-off.

Supplied with No.6 interchangeable tools (5 heads + 1 extension 90mm).

Weight 0.640kg. Dimensions 238x63x36mm.

In case.

Capacity up to	N	5	10	20	50	100
Division	N	0,001	0,005	0,010	0,010	0,050
<b>4488E</b>	<b>Each</b>	<b>801,00</b>	<b>801,00</b>	<b>801,00</b>	<b>801,00</b>	<b>801,00</b>

Capacity up to	N	200	500
Division	N	0,100	0,10
<b>4488E</b>	<b>Each</b>	<b>801,00</b>	<b>801,00</b>



application example  
the gauge stand is not included



**4488E**

**11**

**4488F****SCU**

MANUAL SUPPORT FOR TORQUE WRENCHES ART. 4487 GE - 4488 B - 4488 E  
 Compact and robust support, rapid movement, lever-operated. It guarantees ample measurement excursions, high versatility, fast measurement repetition, several tests available.  
 Load up to 500 N, wide and stable base provided with drilled plate for wall installation.  
 Min. plate height 115mm.  
 Max height above plate 318mm.  
 Length of stroke at each lever turn 78mm.  
 Weight 10.5kg. Dimensions 233x150x420mm.

<b>4488F</b>	Each	<b>516,00</b>
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### ANCHORAGE SYSTEM

**4489A****SCU**

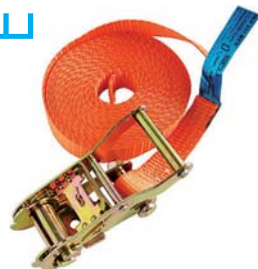
**Prod. SCU - Made in Italy**  
 With galvanised steel tensioner. Safety lock with lever stop.  
 Belt tensioning by moving the lever upwards. Manufactured in compliance with European EN 12195-2 standards.  
 Ring type without hooks. Polyester belt, width 25mm, length 5m. Capacity 500 Kg.

<b>4489A</b>	Each	<b>7,02</b>
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**4489B****SCU**

Product description as Art. 4489A  
 With anchoring hooks.  
 Polyester belt, width 25mm, length 5m. Capacity 500 Kg.

<b>4489B</b>	Each	<b>10,40</b>
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**4489CA** **SCU**  
*new*

Product description as Art. 4489A  
 Ring type without hooks.  
 Polyester tape, width 25 mm, length 6 m. Max capacity 1000 kg.

<b>4489CA</b>	Each	<b>10,60</b>
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**4489CB** **SCU**  
*new*

Product description as Art. 4489A  
 With hooks hook.  
 Polyester tape, width 25 mm, length 6 m. Max capacity 1000 kg.

<b>4489CB</b>	Each	<b>13,30</b>
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**4489DA** **SCU**  
*new*

Product description as Art. 4489A  
 Ring type without hooks.  
 Polyester tape, width 50 mm, length m 8. Max capacity 2000 kg.

<b>4489DA</b>	Each	<b>21,40</b>
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Product description as Art. 4489A

With hooks hook.

Polyester tape, width 50 mm, length 8,5 m. Max capacity 2000 kg.

**4489DB** Each **27,50**



**4489DB**  
*new*

Product description as Art. 4489A

With hooks side.

Polyester tape, width 50 mm, length 8.5 m. Max capacity 2000 kg.

**4489DE** Each **27,20**



**4489DE**  
*new*

Product description as Art. 4489A

Ring type without hooks. Polyester belt, width 50mm, length 9m. Capacity 5000 Kg.

**4489E** Each **29,10**



**4489E**

Product description as Art. 4489A

With anchoring hooks.

Polyester belt, width 50mm, length 8.5m. Capacity 5000 Kg.

**4489F** Each **34,50**



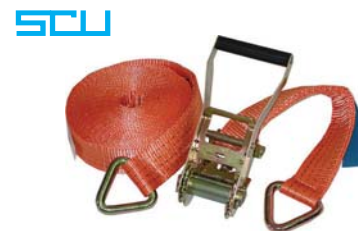
**4489F**

Product description as Art. 4489A

With closed anchoring rings.

Polyester belt, width 50mm, length 8.5m. Capacity 5000 Kg.

**4489L** Each **37,90**



**4489L**

Product description as Art. 4489A

With closed anchoring rings complete with safety spring catch.

Polyester belt, width 50mm, length 8.5m. Capacity 5000 Kg.

**4489LE** Each **41,10**



**4489LE**

**11**

**TIE RADS**

**Prod. SCU - Made in Italy**

Polyester sling, high resistant, double ply.

In compliance with European EN 1492 standards.

Open type with lifting eyes.

The capacities indicated below are for straight lift with simple hooking.

Purple strap. Length 50mm.

Overall length	m	1	2	4	6
Max load capacity	Kg	1000	1000	1000	1000
<b>4489P</b>	Each	<b>13,10</b>	<b>16,30</b>	<b>21,60</b>	<b>27,60</b>



CE

**4489P**

**4489R**

SCU

CE



Product description as Art. 4489P

Green strap. Length 60mm.

Overall length	m	1	2	4	6
Max load capacity	Kg	2000	2000	2000	2000
<b>4489R</b>	<b>Each</b>	<b>19,30</b>	<b>24,30</b>	<b>34,30</b>	<b>45,90</b>

**4489S**

SCU

CE



Product description as Art. 4489P

Yellow strap. Length 90mm.

Overall length	m	1	2	4	6
Max load capacity	Kg	3000	3000	3000	3000
<b>4489S</b>	<b>Each</b>	<b>23,80</b>	<b>32,80</b>	<b>48,30</b>	<b>64,90</b>

**4489SE**  
*new*

SCU

CE



Product description as Art. 4489P

Gray ribbon, width 120 mm.

Overall length	m	2	3	4	6
Max load capacity	Kg	4000	4000	4000	4000
<b>4489SE</b>	<b>Each</b>	<b>44,30</b>	<b>60,40</b>	<b>67,70</b>	<b>91,10</b>

**4489T**

SCU

CE



Product description as Art. 4489P

Red strap. Length 150mm.

Overall length	m	2	4	6	8
Max load capacity	Kg	5000	5000	5000	5000
<b>4489T</b>	<b>Each</b>	<b>66,20</b>	<b>98,20</b>	<b>134,00</b>	<b>176,00</b>

**4489Z**

SCU

CE



Product description as Art. 4489P

Orange strap. Length 290mm.

Overall length	m	4	6	8	10
Max load capacity	Kg	10000	10000	10000	10000
<b>4489Z</b>	<b>Each</b>	<b>331,00</b>	<b>442,00</b>	<b>546,00</b>	<b>650,00</b>

**4490A**

SCU

CE

**Prod. SCU - Made in Italy**

Round polyester cables, high resistant, double ply.

In compliance with European EN 1492 standards.

Continuous round type.

The capacities indicated below are for straight lift with simple hooking and the total development indicates the extent of the circumference.

Purple strap.

Overall length	m	1	2	3	4	6
Max load capacity	Kg	1000	1000	1000	1000	1000
<b>4490A</b>	<b>Each</b>	<b>6,18</b>	<b>10,20</b>	<b>15,10</b>	<b>19,90</b>	<b>29,60</b>

Product description as Art. 4490A

Green strap.

Overall length	m	1	2	3	4	6
Max load capacity	Kg	2000	2000	2000	2000	2000
<b>4490B</b>	<b>Each</b>	<b>6,38</b>	<b>12,20</b>	<b>18,10</b>	<b>23,90</b>	<b>35,60</b>



**4490B**


Product description as Art. 4490A

Yellow strap.

Overall length	m	2	3	4	6
Max load capacity	Kg	3000	3000	3000	3000
<b>4490C</b>	<b>Each</b>	<b>15,70</b>	<b>23,30</b>	<b>30,90</b>	<b>46,10</b>



**4490C**


Product description as Art. 4490A

Gray ribbon.

Overall length	m	2	3	4	6
Max load capacity	Kg	4000	4000	4000	4000
<b>4490CF</b>	<b>Each</b>	<b>24,10</b>	<b>30,90</b>	<b>37,70</b>	<b>51,20</b>



**4490CF**  
*new*


Product description as Art. 4490A

Red strap.

Overall length	m	3	4	6	8
Max load capacity	Kg	5000	5000	5000	5000
<b>4490D</b>	<b>Each</b>	<b>31,40</b>	<b>41,70</b>	<b>62,30</b>	<b>82,80</b>



**4490D**


Product description as Art. 4490A

Orange strap.

Overall length	m	4	6	8	10
Max load capacity	Kg	10000	10000	10000	10000
<b>4490E</b>	<b>Each</b>	<b>94,50</b>	<b>142,00</b>	<b>188,00</b>	<b>235,00</b>



**4490E**

**11**

**TIE RADS PROTECTIONS**
**4490FA**  
*new*
**SCU**

**Prod. SCU - Made in Italy**

Anti-cutting protections made of reinforced polyurethane to prevent the cutting of the fibres of the polyester tie-rods Art. 4489 P 4489 Z, with sharp loads.

Protection length: 1 m.

For belts width	mm	50	60	90	120	150	300
Protection int. width	mm	55	65	100	130	160	320
<b>4490FA</b>	<b>Each</b>	<b>143,00</b>	<b>160,00</b>	<b>204,00</b>	<b>224,00</b>	<b>245,00</b>	<b>587,00</b>

**4490FB**  
*new*
**SCU**


Plastic corner protectors for anchors and tie-rods with a width from 50 mm to 100 mm. To prevent loads with sharp corners from cutting the fibres of the polyester anchors and tie-rods Art. 4489 DA to 4489 LE and Art. 4489 P to 4489 S.

<b>4490FB</b>	<b>Each</b>	<b>1,86</b>
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**All items are in sequence. It's very easy to find them!**

<p>Glass cutters Vacuum lifters</p>		<p>From <b>4490GB</b> To <b>4499T</b></p>
<p>Sharpened centre bits Machine drills for wood Flaring wood cutters</p>		<p>From <b>4509G</b> A <b>4610G</b></p>
<p>Handsaws for woods Arch saws - Band saws Side shafts for saw Circular saws for wood Trowels - Floats Plumb bobs - Wall scrapers - Soft brushes</p>		<p>From <b>4702G</b> To <b>4922</b></p>
<p>Planes for woods Chisels Mitre sawing appliances Gouges for wood Universal knives Cutting tools</p>		<p>From <b>5000G</b> To <b>5239T</b></p>
<p>Bar clamps Clamps</p>		<p>From <b>5240G</b> To <b>5260</b></p>
<p>Abrasive grinding wheels Grinding wheels</p>		<p>From <b>7000G</b> To <b>7052G</b></p>
<p>Diamond cutting wheels Rough grinding and cutting-off wheels</p>		<p>From <b>7080G</b> To <b>7200G</b></p>
<p>Abrasive files and stones Elastic abrasive wheels and stones</p>		<p>From <b>7600A</b> To <b>7714G</b></p>
<p>Abrasive paper in rolls and sheets Abrasive cloth in rolls and sheets Fibre abrasive disks Rubber backing pads</p>		<p>From <b>7758G</b> To <b>7834GS</b></p>
<p>Abrasives made of material of different hardness Felts Diamond grinding points Fan grinders</p>		<p>From <b>7840A</b> To <b>7962G</b></p>

**GLASS CUTTERS**

4490GB




Prod. SCU - Orig. Jokra

Professional model with 6 wheels in special alloy Silberstahl steel. Interchangeable. Nickel-coated plate. Wooden grip. Apt for double glass and light glass.

4490GB	Each	6,00
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Spare wheels for Art. 4490 GB. Package units of approx. 120pcs. not sold separately.

O4490GB	Per pack	94,20
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**GLASS CUTTERS WITH HARD METAL WHEEL**

4491GC




HARTMETALL

Prod. SCU - Orig. Silberschnitt

With 1 Hartmetall wheel, on stable support for cutting thick glasses and irregular surfaces. Also cuts furring tile.

Nickel-coated head. Wooden grip.

With wheel Ø 6mm

4491GC	Each	21,40
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Spare wheels for Art. 4491 GC.

O4491GC	Each	8,68
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**OIL GLASS CUTTERS**

4492G




HARTMETALL

Prod. SCU - Orig. Silberschnitt

With 1 Hartmetall wheel. For thickness range: 3-10mm. Oil reservoir in the handle which releases oil when handle is depressed. Brass grip reinforcement.

Fixed head. Constant lubrication makes cutting easy, precise and safe.

4492G	Each	50,70
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Spare heads complete with spare wheel for Art. 4492 G.

O4492G	Each	30,10
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4493G




HARTMETALL

With 1 Hartmetall wheel. For thickness range: 3-10mm. Oil reservoir in the brass handle. Soft rubber grip. Swinging head. Constant lubrication makes cutting easy, precise and safe.

4493G	Each	50,70
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Spare heads complete with spare wheel for Art. 4493 G.

O4493G	Each	30,10
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4494G




HARTMETALL

With 1 Hartmetall wheel. For thickness range: 3-10mm. Oil reservoir in the brass handle. Soft rubber grip. Narrow swinging head. Constant lubrication makes cutting easy, precise and safe.

4494G	Each	50,70
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Spare heads complete with spare wheel for Art. 4494 G.

O4494G	Each	31,70
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**CIRCLE GLASS CUTTERS**

4498




Prod. SCU

Optimal quality/price ratio for cutting glass circles, with sucker fastening on the pivot. The sucker, with synthetic body, is fixed to the glass plate by lever lowering. Square swinging rod, graduated, in brass. Complete with swinging head and 6 wheels.

For max Ø	mm	400	600	800	1000	1200
4498	Each	77,30	80,90	86,30	92,10	97,30

4499




Optimal quality/price ratio for cutting glass circles, with sucker fastening on the pivot. The sucker, with brass body, is fixed to the glass plate by lever lowering. Square swinging rod, graduated, in brass. Complete with swinging head and 6 wheels.

For max Ø	mm	400	800	1200
4499	Each	85,10	94,50	107,00

Spare swinging heads with 6 wheels for Art. 4498 - 4499.

O4499	Each	24,10
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**RULER FASTENING SUCKERS**

4499A




Prod. SCU

Apt for positioning and fastening the ruler when cutting glass. Brass body. High-sealing, rubber sucker. Diameter 55mm. Lever mm 55. Lever lock.

4499A	Each	53,10
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**TRANSPORT SUCKERS**
**Prod. SCU**

Apt for carrying plates with smooth surfaces such as glass, plastic, metal, etc. Made in die-cast aluminium.

High-sealing rubber sucker, diameter 120mm, interchangeable.  
With 1 sucker, lever lock. Max load 40kg.

**4499B** Each **42,90**

Spare suckers for Art. 4499 B.

**O4499B** Each **21,60**

**SCU**
**CE 4499B**


Product description as Art. 4599B

High-sealing rubber sucker, diameter 120mm, interchangeable.  
With 1 sucker, handle lock. Max load 30kg.

**4499C** Each **60,60**

Spare suckers for Art. 4499 C.

**O4499C** Each **21,60**

**SCU**
**CE 4499C**


Product description as Art. 4599B

High-sealing rubber sucker, diameter 120mm, interchangeable.  
With 2 sucker, lever lock. Transverse handle. Max load 80kg.

**4499D** Each **81,20**

**SCU**
**4499D**


Model made according to European standards, with ergonomic handle. Suitable to carry sheets with smooth surfaces such as glass, plastic, metal, etc. Made from die-cast aluminium.

High-sealing rubber sucker, diameter 120mm, interchangeable. With 2 suckers, lever lock. Max load 60kg.

**4499DA** Each **59,40**

Spare suckers for Art. 4499 D - DA.

**O4499D** Each **21,60**

**SCU**
**CE 4499DA**

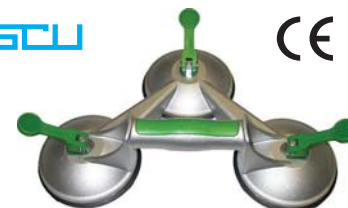

Product description as Art. 4599DA

High-sealing rubber sucker, diameter 120mm, interchangeable.  
With 3 suckers, lever lock. Max load 100kg.

**4499EA** Each **77,10**

Spare suckers for Art. 4499 EA.

**O4499E** Each **21,60**

**SCU**
**CE 4499EA**


Suitable for transporting slabs with smooth surfaces such as glass, plastics, metals etc. Cast aluminium construction.

With suction cup in CLEAR rubber for lifting without leaving traces of black rubber.

High seal rubber suction cup diameter 120mm, interchangeable.

Type with 1 suction cup, lever lock. Max. lifting capacity 40 Kg.

**4499EB** Each **45,90**

**SCU**
**CE 4499EB**


Product description as Art. 4499EB

With suction cups in CLEAR rubber for lifting without leaving traces of black rubber.

Manufactured according to European standards, with ergonomic handle.

High seal rubber suction cup diameter 120mm, interchangeable.

Type with 2 suction cup, lever lock. Max. lifting capacity 60 Kg.

**4499EG** Each **66,70**

**SCU**
**CE 4499EG**


Product description as Art. 4499EB

With suction cups in CLEAR rubber for lifting without leaving traces of black rubber.

Manufactured according to European standards, with ergonomic handle.

High seal rubber suction cup diameter 120mm, interchangeable.

Type with 3 suction cup, lever lock. Max. lifting capacity 100 Kg.

**4499EH** Each **87,80**

**SCU**
**CE 4499EH**


Spare suction cups for Art. 4499 EB - EG - EH.

**O4499EH** Each **26,70**

**4499F**

SCU



Apt for carrying plates with smooth surfaces such as glass, plastic, metal, etc. Made in die-cast aluminium. With vacuumeter for checking vacuum pressure. Central knob for vacuum adjustment. High-sealing, rubber sucker, diameter 180mm. For glass thickness up to 8mm and vertically lifted weights up to 150kg.

<b>4499F</b>	Each	<b>156,00</b>
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Spare suckers for Art. 4499 F.

<b>O4499F</b>	Each	<b>66,80</b>
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**4499L**

SCU



Product description as Art. 4499F  
High-sealing, rubber sucker, diameter 200mm. For glass thickness up to 10mm and vertically lifted weights up to 190kg.

<b>4499L</b>	Each	<b>173,00</b>
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Spare suckers for Art. 4499 L.

<b>O4499L</b>	Each	<b>71,90</b>
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**4499LE**

SCU



Apt for carrying plates with smooth, flat and lightly curved surfaces. Sturdy execution, pump housing made of brass and piston made of synthetics. The vacuum is obtained through the manual pump and can be controlled on the piston by means of a red indicator.

High-sealing, rubber sucker, diameter 150mm. For vertically lifted weights up to 70kg. With 1 sucker.

<b>4499LE</b>	Each	<b>202,00</b>
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**4499LF**

SCU



Product description as Art. 4499LE  
High-sealing, rubber sucker, diameter 200mm. For vertically lifted weights up to 150kg. With 1 sucker.

<b>4499LF</b>	Each	<b>245,00</b>
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**4499LR**  
*new*

SCU



With support and tie-rod for lifting with forklifts, hoists, cranes etc. Suitable for transporting sheets with surfaces not only smooth and flat, but also slightly processed and curved. Sturdy rubber-coated construction, pump body made of brass and piston made of plastic. The vacuum is achieved through the activation of the manual pump and can be controlled on the piston thanks to a red LED indicator.

Rubber suckers with high sealing, diameter mm 300. For vertically lifted weights up to 250 kg. With 1 sucker.

<b>4499LR</b>	Each	<b>808,00</b>
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### MOUNTING AND TRANSPORT SUCKERS

**4499P**

SCU

Prod. SCU



High-sealing, rubber suckers, diameter 120mm, swinging. Body in die-cast aluminium and handle with groove for accommodating pulling straps with width 25mm. Particularly indicated for carrying, assembling and removing crystals, curved glasses, body's parts and for holding surfaces which are not flat.

With 2 suckers, load 60kg.

<b>4499P</b>	Each	<b>143,00</b>
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For assembling belts see Art. 4489 A - 4489 E.

Spare suckers for Art. 4499 P.

<b>O4499P</b>	Each	<b>21,60</b>
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Apt for carrying plates with smooth surfaces such as glass, plastic, metal, etc. Made in die-cast aluminium. High-sealing, rubber suckers, diameter 120mm, swinging from 90° to 270°, by means of articulated handle. Type 2 suckers capacity 60 Kg.

**4499S** Each **143,00**

Spare suckers for Art. 4499 S.

**O4499S** Each **21,60**



**4499S**



Particularly indicated for assembling/disassembling glasses, crystals, car rear windows, windscreens, sheet parts, febders, etc. and in body shop works. Allows a single operator to make quick and precise works. High-sealing, rubber suckers, diameter 115mm, swinging, adjustable by means of soft handle, completely flexible. Total length 750mm. Type with 2 sucker with max load 40kg.

**4499T** Each **137,00**

Product running out of stock.



**4499T**



**SHARPENED CENTRE BITS**

**Prod. SCU**

In alloyed steel. Flat type, guide bit.  
Finely polished and well sharpened.  
Hexagonal shaft 1/4" DIN 3126 E6,3.  
Overall length 150mm.

For bores Ø	mm	6	8	10	12	14	16	18
<b>4509G</b>	<b>Each</b>	<b>1,66</b>	<b>1,66</b>	<b>1,66</b>	<b>1,74</b>	<b>1,84</b>	<b>2,04</b>	<b>2,16</b>
For bores Ø	mm	20	22	24	25	26	28	30
<b>4509G</b>	<b>Each</b>	<b>2,32</b>	<b>2,50</b>	<b>2,72</b>	<b>2,90</b>	<b>3,00</b>	<b>3,00</b>	<b>3,28</b>
For bores Ø	mm	32	35	38				
<b>4509G</b>	<b>Each</b>	<b>3,56</b>	<b>3,88</b>	<b>4,44</b>				

Extension with length 300mm for Art. 4509 G.

**O4509G** Each **9,30**



**4509G**



**UNIVERSAL FORSTNER BITS**

**Prod. SCU**

Model with cylindrical shaft Ø 8mm (Ø 10mm for dimensions from 32 to 40).  
Overall length: 90mm.  
To be used with electric drills.  
In wolfram steel - finely polished.  
For precision drilling particularly suited to stratified woods.  
Centre point and two cutting edges.

For bores Ø	mm	10	12	14	15	16	18	20	22
<b>4511G</b>	<b>Each</b>	<b>10,90</b>	<b>10,90</b>	<b>11,80</b>	<b>11,80</b>	<b>11,80</b>	<b>12,50</b>	<b>12,70</b>	<b>14,10</b>
For bores Ø	mm	24	25	26	28	30	32	35	40
<b>4511G</b>	<b>Each</b>	<b>14,90</b>	<b>15,50</b>	<b>15,50</b>	<b>16,80</b>	<b>17,80</b>	<b>19,50</b>	<b>24,10</b>	<b>28,20</b>

Model with cylindrical shaft Ø 8mm (Ø 10mm for dimension 35).

Overall length 90mm.  
To be used with electric drills.  
In wolfram steel - finely polished.  
For precision drilling particularly suited to stratified woods.  
Centre point and two cutting edges.  
Set of No.5 bits Art. 4511 G dimensions: 16 - 20 - 25 - 30 - 35mm.  
In plastic bag.

**4511GE** Per set **90,10**



**4511G**



**4511GE**



**12**

**4512G** **SCU**


In wolfram steel. Finely polished.  
Suitable for precision drilling and removal of nodi in wooden tables.  
Centre point and toothed cutting edges. For use with drilling machine.  
Overall length 90mm.  
Cylindric drive Ø 8mm from Ø 15-30mm.  
Cylindric drive Ø 10mm from Ø 35-45mm.

For bores Ø	mm	15	18	20	22	25	26	28
<b>4512G</b>	Each	13,80	14,10	15,20	15,40	16,40	16,40	16,70
For bores Ø	mm	30	35	40	45			
<b>4512G</b>	Each	16,80	17,30	18,60	21,50			

Sizes mm 15 - 18 - 20 and 22 running out of stock.

**4515GA** **SCU**


For use with drilling machines and portable drills.  
In high resistance alloyed steel. Finely polished.  
To drill hardwood, laminated plastic, synthetic materials.  
With centre point, 2 cutting edges and 2 side carvers.  
Overall length 90mm.  
Cylindric drive Ø 8mm from Ø 10-32mm.  
Cylindric drive Ø 10mm from Ø 22-50mm.

For bores Ø	mm	10	12	14	15	16	18	20
<b>4515GA</b>	Each	16,50	16,50	18,10	18,10	18,10	19,10	19,20
For bores Ø	mm	22	24	25	26	28	30	32
<b>4515GA</b>	Each	21,30	22,50	23,60	23,60	25,40	26,90	29,50
For bores Ø	mm	35	40	45	50			
<b>4515GA</b>	Each	36,40	42,80	53,90	57,60			

**TENON CUTTERS**
**4516GA** **SCU**


**Prod. SCU**  
In WOLFRAM steel. Ground cutting edges. Ideal to plug holes. Also suitable for large diam holes.  
Overall length 140mm.  
Cylindric drive Ø 13x50mm from Ø 10-30mm.  
Cylindric drive Ø 16x50mm from Ø 35-50mm.

For inserts Ø	mm	10	15	20	25	30	35	40
<b>4516GA</b>	Each	62,70	66,80	74,20	83,90	87,20	101,00	112,00
For inserts Ø	mm	45	50					
<b>4516GA</b>	Each	127,00	147,00					

**CARBIDE-TIPPED MILLING CUTTERS**
**4516GP** **SCU**


HARTMETALL

**Prod. SCU**  
Short pattern, heavy duty, centre point and 2 carbide cutting edges.  
Suited to any kind of hardwood and laminated plastic.  
Cylindric drive Ø 8x25mm. Overall length 57mm.

For bores Ø	mm	25	26	30	35	40
<b>4516GP</b>	Each	22,40	22,40	22,40	22,40	26,50

**4517G** **SCU**


HARTMETALL

Short pattern. Heavy duty. In hardened alloyed steel.  
2 carbide cutting edges.  
Centre point in HSS.  
Suited to any kind of hardwood and laminated plastic.  
Cylindric drive Ø 8x30mm. Overall length 60mm.

For bores Ø	mm	20	25	26	30	35
<b>4517G</b>	Each	23,20	24,30	24,90	26,50	27,60

**4517GL** **SCU**


HARTMETALL

Long pattern. For professional and industrial applications.  
2 guide cutting edges, 2 drilling cutting edges and centre point in carbide.  
To obtain highly precise bores in non-ferrous materials.  
Cylindric drive Ø 10mm. Overall length 90mm.

For bores Ø	mm	15	20	22	25	26	30	35
<b>4517GL</b>	Each	54,20	56,80	56,80	60,70	60,70	66,10	70,20
For bores Ø	mm	40	45	50				
<b>4517GL</b>	Each	80,40	118,00	146,00				

**BLADE HOLE SAWS**
**Prod. SCU**

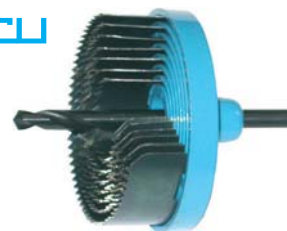
With 7 ring band blades, for making round holes and disks in natural and synthetic wood. With 1 drill for centring Ø 6mm.

Band blades diameter: 26-32-38-45-50-56-63mm.

Connection diameter 6mm.

Each blade can perform one of the above-mentioned diameters. To be used with portable electric drills.

Cutting depth	mm	18
<b>4518A</b>	Each	<b>3,12</b>


**4518A**

Product description as Art. 4518A

Cutting depth	mm	42
<b>4518B</b>	Each	<b>4,10</b>


**4518B**
**ADJUSTABLE CENTRE BITS**
**Prod. SCU**

Professional type. Finely polished. Provided with two movable knives. For use with battery-operated drills, electric manual drills, column drills, etc.

Size		<b>2</b>
For bores by	mm	22-76
Drive Ø	mm	13 cil..
Overall length	mm	185
<b>4521G</b>	Each	<b>96,70</b>


**4521G**
**DRILLS WITH CENTER POINT AND HEXAGON SHANK**
**Orig. Völkel - Art. 676**

HSS, completely milled, brad point bit and two cutting edges.

Suitable for normal, hard, plywood, well-cured, synthetic and plastic coated wood.

For drilling machines and screws, both electrical and battery-operated.

With 1/4" hexagonal drive DIN 3126 C 6,3, for use with bit holder (see Art. 1995 GA and Art. 1996 G).

For bores Ø	mm	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>
Overall length	mm	38	44	50	50	51	54
<b>4525GA</b>	Each	<b>4,50</b>	<b>4,50</b>	<b>4,50</b>	<b>4,64</b>	<b>5,44</b>	<b>7,04</b>



HSS

**4525GA**
**Orig. Völkel - Art. 67101**

Assortment of 12 bits.

Contents:

1 pcs. per type wood bits Art. 4525 GA Ø 3-4-5-6-8-10mm

1 pcs. per type metal bits Art. 8665 Ø 3-4-5-6-8-10mm.

In plastic case.

<b>4525GB</b>	Each	<b>60,30</b>
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HSS

**4525GB**
**DRILLS WITH CENTER POINT AND HEXAGON SHANK**
**Prod. SCU**

HSS, completely milled, brad point bit and two cutting edges.

Suitable for normal, hard, plywood, well-cured, synthetic and plastic coated wood.

For drilling machines and screws, both electrical and battery-operated.

With 1/4" hexagonal drive DIN 3126 E 6,3, for direct use.

For bores Ø	mm	<b>4</b>	<b>5</b>	<b>6</b>
Overall length	mm	85	95	110
<b>4525GE</b>	Each	<b>7,40</b>	<b>7,76</b>	<b>8,10</b>



HSS

**4525GE**
**12**

Product running out of stock.

**MACHINE DRILLS WITH CENTER POINTS**

**4526G** **SCU**



**Prod. SCU**  
 In CHROME VANADIUM steel, completely milled, brad point bit and two cutting edges.  
 Suitable for normal wood. For stationary and portable drilling machines.  
 Cylindric drive.

For bores Ø	mm	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
Drive Ø	mm	3	4	5	6	7	8	9
Overall length	mm	60	75	86	95	104	110	120
<b>4526G</b>	<b>Each</b>	<b>1,24</b>	<b>1,24</b>	<b>1,34</b>	<b>1,34</b>	<b>1,52</b>	<b>1,74</b>	<b>2,12</b>
For bores Ø	mm	<b>10</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>18</b>
Drive Ø	mm	10	10	10	10	10	10	10
Overall length	mm	120	145	150	160	165	175	190
<b>4526G</b>	<b>Each</b>	<b>2,32</b>	<b>2,96</b>	<b>3,66</b>	<b>4,62</b>	<b>4,94</b>	<b>5,88</b>	<b>12,10</b>
For bores Ø	mm	<b>20</b>	<b>22</b>	<b>24</b>	<b>26</b>	<b>28</b>	<b>30</b>	
Drive Ø	mm	10	13	13	13	13	13	
Overall length	mm	200	200	220	220	220	220	
<b>4526G</b>	<b>Each</b>	<b>16,10</b>	<b>18,30</b>	<b>20,10</b>	<b>22,10</b>	<b>24,10</b>	<b>26,10</b>	

**SETS OF MACHINE DRILLS FOR WOOD**

**4526GE** **SCU**



**Prod. SCU**  
 Set of 5 bits Art. 4526G dimensions: 4-5-6-8-10mm. In plastic case.

<b>4526GE</b>	<b>Each</b>	<b>10,20</b>
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**4526GF** **SCU**



Set of 8 bits Art. 4526G dimensions: 3-4-5-6-7-8-9-10mm. In plastic case.

<b>4526GF</b>	<b>Each</b>	<b>15,00</b>
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**MACHINE DRILLS FOR PLYWOOD**

**4528GF** **SCU**



**Prod. SCU**  
 In CHROME VANADIUM steel. Finely polished.  
 Centre point and two side cutting edges, for precise drilling.  
 Suitable for plywood, well-cured, synthetic and plastic coated wood.  
 To be used on stationary and portable drilling machines.  
 Cylindric drive.

For bores Ø	mm	<b>6</b>	<b>12</b>
Drive Ø	mm	6	8
Overall length	mm	90	140
<b>4528GF</b>	<b>Each</b>	<b>3,46</b>	<b>6,70</b>

Product running out of stock.

**CARBIDE TIPPED DRILLS**

**4528GT** **SCU**



**HARTMETALL**

**Prod. SCU**  
 In CHROME VANADIUM steel. Centre point and two carbide side cutting edges. Precise drilling.  
 For any kind of hardwood and laminated plastic. To be used on stationary and portable drilling machines.  
 Cylindric drive.

For bores Ø	mm	<b>4</b>	<b>7</b>	<b>12</b>
Drive Ø	mm	4	7	12
Overall length	mm	80	110	155
<b>4528GT</b>	<b>Each</b>	<b>38,60</b>	<b>44,10</b>	<b>58,10</b>

Product running out of stock.

12

**SLOT MORTISING BITS**

**Prod. SCU**

Type with two cutting edges. Chip breaker. For use with drilling machine.  
High speed. Bits suitable to work any kind of wood in any direction.  
Alternated cutting edges pulverize chips avoiding tip overheating.  
Drive diam. 16x50mm.  
Right rotation.



**4529GD**

Ø	mm	6	7	8	9	10	11	12
<b>4529GD</b>	<b>Each</b>	<b>12,30</b>	<b>13,60</b>	<b>12,30</b>	<b>13,50</b>	<b>12,30</b>	<b>13,60</b>	<b>13,60</b>
Ø	mm	13	14	15	16	17	18	20
<b>4529GD</b>	<b>Each</b>	<b>16,40</b>	<b>14,80</b>	<b>16,10</b>	<b>16,10</b>	<b>19,50</b>	<b>20,10</b>	<b>22,30</b>
Ø	mm	22	24	26	28	30		
<b>4529GD</b>	<b>Each</b>	<b>27,50</b>	<b>30,20</b>	<b>35,70</b>	<b>37,50</b>	<b>51,10</b>		

Size mm 17 running out of stock.



Product description as Art. 4529GD

Left rotation.



**4529GS**

Ø	mm	6	7	8	9	10	11	12
<b>4529GS</b>	<b>Each</b>	<b>12,30</b>	<b>13,60</b>	<b>12,30</b>	<b>13,50</b>	<b>12,30</b>	<b>13,60</b>	<b>13,60</b>
Ø	mm	13	14	15	16	17	18	19
<b>4529GS</b>	<b>Each</b>	<b>16,40</b>	<b>14,80</b>	<b>16,10</b>	<b>16,10</b>	<b>19,50</b>	<b>20,10</b>	<b>21,90</b>
Ø	mm	20	22	24	26	28	30	
<b>4529GS</b>	<b>Each</b>	<b>22,30</b>	<b>27,50</b>	<b>30,20</b>	<b>35,70</b>	<b>37,50</b>	<b>51,10</b>	

Sizes mm 17 and 19 running out of stock.



**FLARING WOOD CUTTERS**

**Prod. SCU**

In hardened alloy steel.  
Burnished finish. Plastic handle. Conical cutter head dia. 12mm.



**4530G**

<b>4530G</b>	<b>Each</b>	<b>6,16</b>
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In hardened alloy steel.

Burnished finish. Plastic handle. With 2 interchangeable conical cutter heads dia. 12 and 16mm.



**4530GA**

<b>4530GA</b>	<b>Each</b>	<b>16,10</b>
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Wolfram steel, with multiple cutting edges.

Cylindrical shank Ø 8mm (size 10mm only: shank Ø 6mm). For use with electric drills.



**4530GB**

Max Ø	mm	10	12	16	19
Overall length	mm	45	45	45	45
<b>4530GB</b>	<b>Each</b>	<b>2,78</b>	<b>3,18</b>	<b>3,18</b>	<b>3,94</b>



Wolfram steel. Bent to 90° with multiple cutting edges.

Cylindrical shank Ø 8mm.

For use with electric, static and portable drills.



**4531G**

Max Ø	mm	10	13	16	20	30
Overall length	mm	70	80	90	90	90
<b>4531G</b>	<b>Each</b>	<b>9,62</b>	<b>10,00</b>	<b>10,70</b>	<b>12,80</b>	<b>17,90</b>



**SLOT DRILLS WITH BORE**

**Prod. SCU**

Wolfram special steel. With multiple cutting edges, bent to 90°.

To be used as milling cutter, or depth adjuster, combined with drills for wood and gimlets. Fixed by socket-head cap screw.

Total length 25mm.



**4533G**

For tips Ø	mm	3	4	5	6	8	10
Countersink Ø	mm	16	16	16	16	16	16
<b>4533G</b>	<b>Each</b>	<b>9,12</b>	<b>9,12</b>	<b>9,12</b>	<b>11,60</b>	<b>11,60</b>	<b>11,60</b>



**ASSORTMENTS OF SLOT DRILLS WITH BORE**

**Prod. SCU**

Assortment of 4 cutters Art. 4533 G 3-4-5-6mm.

Complete with drills for wood dia. 3-4-5-6mm.

Fixed by socket-head screw. Countersink dia. 16mm.

In wooden box.



**4536G**

<b>4536G</b>	<b>Each</b>	<b>40,20</b>
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**GIMLETS SWISS PATTERN**

4540G

SCU



Prod. SCU

In steel, with eye.

Ø	mm	2	2,5	3	4	5	6	8
4540G	Each	1,16	1,16	1,16	1,38	1,70	2,78	6,10

**CARPENTER'S AUGERS**

4550G

SCU



Prod. SCU

In special steel. With eye drive.

Hardened and polished operating part.

Swiss pattern.

For bores Ø	mm	10	12	14	16	18	20	22
Overall length	mm	275	300	310	320	335	370	380
4550G	Each	19,60	23,20	26,70	30,60	37,20	41,90	57,10

For bores Ø	mm	24	26	28
Overall length	mm	400	430	445
4550G	Each	62,10	75,10	87,20

Sizes mm 10 - 22 - 24 - 26 and 28 running out of stock.

**AUGER BITS**

4557G



Orig. Marvel

Professional type for multipurpose applications. For portable and fixed drilling machines, hexagonal drive.

In special alloyed steel, completely hardened.

Very deep hollow center flute for fast and effective chip removal. Assure deep and highly precise drilling.

Short pattern.

For bores Ø	mm	6	8	10	12	14	15	16	18	20	22	24	26	30
Overall length	mm	160	160	170	180	190	190	190	200	210	210	210	210	210
Hexagonal drive	mm	6	6	6	6	6	6	6	9	9	9	9	9	9
4557G	Each	11,30	11,30	11,30	11,30	13,50	13,50	13,50	15,60	18,40	18,40	22,80	25,60	28,10

4558GA



Professional type for portable and fixed drilling machines.

For carpenters, electricians, installers, etc.

Very high quality, suitable for any kind of wood. In special alloyed steel, full length heat-treatment. Hexagonal drive for any drill spindle (only 6 mm with cylindrical shank).

Very deep and stable hollow center flute for rapid, deep and very precise boring.

Flute dents to check depth during boring (except 6 and 8mm).

Middle-size pattern.

For bores Ø	mm	6	8	9	10	12	14	15	16	18	20	21	22	24	27	30
Overall length	mm	210	225	240	250	270	290	290	290	330	330	330	330	330	330	330
Drive	mm	6	6	6	6	9	9	9	9	9	10,5	10,5	10,5	10,5	10,5	10,5
4558GA	Each	17,80	17,80	17,80	17,80	17,80	21,50	21,50	21,50	25,10	28,60	28,60	28,60	34,70	38,60	42,40

4558GB



Professional type for portable and fixed drilling machines.

For carpenters, electricians, installers, etc.

Very high quality, suitable for any kind of wood. In special alloyed steel, full length heat-treatment. Hexagonal drive for any drill spindle.

Very deep and stable hollow center flute for rapid, deep and very precise boring.

Flute dents to check depth during boring.

Long pattern.

For bores Ø	mm	10	12	14	15	16	18	20	22	24	26	28	30
Overall length	mm	400	400	400	400	400	400	400	400	400	400	400	400
Drive	mm	9	9	9	9	9	10,5	10,5	10,5	10,5	10,5	10,5	10,5
4558GB	Each	29,70	29,70	35,90	35,90	35,90	41,60	47,60	47,60	55,80	62,10	62,10	68,50

Spare extensions 450mm with hexagonal drive 10.5mm for Art. 4558 GA-B 20mm to 30mm.

O4558GB	Each	32,30
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4559GE

SCU



Prod. SCU

Medium size pattern, multi-purpose, for portable and fixed drilling machines.

Deep hollow center flute. In special steel, hardened and ground.

Hexagonal drive (only 6mm supplid with cylindric drive). Overall length: 235mm.

For bores Ø	mm	6	8	10	12	14	16	18
Drive	mm	6	7	9	11	12	12	12
4559GE	Each	6,94	6,94	6,94	7,50	7,90	8,92	10,20

For bores Ø	mm	20	22	24	26	28	30	32
Drive	mm	12	12	12	12	12	12	12
4559GE	Each	10,90	12,10	13,70	15,30	17,70	20,30	23,10

Medium size pattern, multi-purpose, for portable and fixed drilling machines.  
Deep hollow center flute. In special steel, hardened and ground.  
SDS-plus drive.

For bores Ø	mm	6	8	10	12	14	16	18
Overall length	mm	200	200	235	235	235	235	235
<b>4559GF</b>	<b>Each</b>	<b>14,80</b>	<b>14,80</b>	<b>15,00</b>	<b>16,60</b>	<b>18,60</b>	<b>21,20</b>	<b>24,10</b>
For bores Ø	mm	20	22	24	26	28	30	32
Overall length	mm	235	235	235	235	235	235	235
<b>4559GF</b>	<b>Each</b>	<b>25,40</b>	<b>29,20</b>	<b>31,10</b>	<b>38,50</b>	<b>43,50</b>	<b>49,90</b>	<b>60,40</b>

SCU

4559GF



Long pattern, multi-purpose, for portable and fixed drilling machines.  
Deep hollow center flute. In special steel, hardened and ground.  
Hexagonal drive. Overall length: 460mm.

For bores Ø	mm	8	10	12	14	16	18	20
Drive	mm	7	9	11	12	12	12	12
<b>4559GL</b>	<b>Each</b>	<b>13,80</b>	<b>13,80</b>	<b>14,70</b>	<b>16,10</b>	<b>18,90</b>	<b>20,30</b>	<b>22,40</b>
For bores Ø	mm	22	24	26	28	30	32	
Drive	mm	12	12	12	12	12	12	
<b>4559GL</b>	<b>Each</b>	<b>24,10</b>	<b>26,30</b>	<b>31,50</b>	<b>36,10</b>	<b>42,90</b>	<b>51,50</b>	

SCU

4559GL



Long pattern, multi-purpose.  
Deep hollow center flute. In special steel, hardened and ground.  
SDS-plus drive. Overall length: 400mm.

For bores Ø	mm	10	12	14	16	18	20	22	24
<b>4559GS</b>	<b>Each</b>	<b>20,40</b>	<b>21,70</b>	<b>24,10</b>	<b>26,50</b>	<b>29,30</b>	<b>31,60</b>	<b>34,50</b>	<b>37,50</b>

Longer tips available on request.

SCU

4559GS



**WOODEN DRILLS**

**Prod. SCU**

In CHROME VANADIUM steel, cylindric drive. Suited to drill two holes in one step in frameworks and beams even of hardwood.

Overall length: 400mm.

For bores Ø	mm	6	8	10	12	14	16	18
Drive Ø	mm	5	6	8	8	10	10	10
<b>4559GZ</b>	<b>Each</b>	<b>7,12</b>	<b>7,26</b>	<b>8,56</b>	<b>11,10</b>	<b>12,70</b>	<b>14,70</b>	<b>18,10</b>
For bores Ø	mm	20	22	24				
Drive Ø	mm	10	10	12				
<b>4559GZ</b>	<b>Each</b>	<b>24,20</b>	<b>32,20</b>	<b>37,60</b>				

SCU

4559GZ



Product description as Art. 4559GZ  
Overall length: 400mm.

For bores Ø	mm	8	10	12	14	16	18	20	22	24
Drive Ø	mm	6	8	8	10	10	10	10	10	12
<b>4600G</b>	<b>Each</b>	<b>8,80</b>	<b>10,30</b>	<b>12,60</b>	<b>14,20</b>	<b>16,40</b>	<b>19,70</b>	<b>25,60</b>	<b>34,60</b>	<b>39,70</b>

SCU

4600G



**ANUBA COMBINATED WOODEN DRILLS**

**Prod. SCU**

In special steel, hardened and ground.  
Small spiral flute for drilling, bigger flute for countersinking holes in wood, for countersink-head screw seats. Cylindrical shank.

Ø	mm	5,7	6,7	7,2	7,7	8,7	9,8
d	mm	4,8	5,8	6,3	6,7	7,7	8,8
LT	mm	145	155	165	165	165	165
l	mm	21	23	24	30	30	30
L	mm	39	45	51	55	55	60
<b>4610G</b>	<b>Each</b>	<b>9,02</b>	<b>9,52</b>	<b>9,86</b>	<b>10,00</b>	<b>11,20</b>	<b>12,60</b>

SCU

4610G



**HANDSAWS**

**Prod. SCU**

Close grip. Blade in rolled and hardened steel.  
Alternating and sharpened teeth.  
Hardwood handle.

Blade length	mm	300	350	400	450	500	600
<b>4702G</b>	<b>Each</b>	<b>6,70</b>	<b>7,12</b>	<b>7,62</b>	<b>8,52</b>	<b>9,76</b>	<b>12,60</b>

SCU

4702G



Close grip. Blade in rolled and hardened steel.  
Alternating and sharpened teeth.  
Synthetic material handle.

Blade length	mm	300	350	400	450	500	600
<b>4702GP</b>	<b>Each</b>	<b>6,38</b>	<b>6,78</b>	<b>7,20</b>	<b>8,12</b>	<b>9,36</b>	<b>12,20</b>

SCU

4702GP



**SPECIAL HANDSAWS**

4704GC


**Prod. SCU**

Close grip.

Blade in special steel. Induction hardened teeth, alternated and sharpened.

Suitable to cut wood, plastic, rolled steel sections, plywood, etc.

Synthetic material handle.

Blade length	mm	400	500
<b>4704GC</b>	<b>Each</b>	<b>8,94</b>	<b>11,10</b>

4704GE




Close grip.

Blade in special steel. Induction hardened teeth, alternated and sharpened.

Suitable to cut wood, plastic, rolled steel sections, plywood, etc.

Dual-component grip and reinforced blade fixing.

Blade length	mm	400	500
<b>4704GE</b>	<b>Each</b>	<b>12,70</b>	<b>14,70</b>

4704GL




Close grip.

Long blade in special steel, induction hardened spaced and alternated teeth. Also suitable to cut concrete. Blade length: 700mm.

Hardwood grip and reinforced blade fixing.

<b>4704GL</b>	<b>Each</b>	<b>24,10</b>
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4704GP




Close grip.

Special steel blade, rounded and toothed tip. Induction hardened alternated and sharpened tooting. Suited to cut wooden and PVC boards, plywood, laminated plastic, etc.

Length: 300mm.

Synthetic material handle.

<b>4704GP</b>	<b>Each</b>	<b>10,30</b>
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4704GT




Straight handle.

Conic-shaped blade with special steel tip. Induction hardened tooting, alternated and sharpened. Suited to cut plasterboard.

Blade length: 170mm.

Wooden handle.

<b>4704GT</b>	<b>Each</b>	<b>4,96</b>
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**BACK SAWS**

4705G


**Prod. SCU**

In rolled and hardened steel.

Alternated teeth. Fine toothed.

Reinforced back. Hardwood close handle.

Blade length	mm	300	350	400
<b>4705G</b>	<b>Each</b>	<b>8,78</b>	<b>9,94</b>	<b>11,60</b>

**COMBINED SAWS**

4707G


**Prod. SCU**

Supplied with 5 interchangeable blades in rolled hardened steel. Unbreakable plastic handle.

It contains:

1 x 400mm handsaw for wood

1 c 300mm garden saw

1 x 200mm back saw

1 x 250mm compass saw for wood

1 x 300mm saw for metals

<b>4707G</b>	<b>Each</b>	<b>5,64</b>
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**COMPASS SAWS**

12 4711G


**Prod. SCU**

In rolled and hardened steel, for wood.

Sharpened and alternated teeth. Hardwood handle.

Blade length	mm	300
<b>4711G</b>	<b>Each</b>	<b>7,12</b>

**BACK SAWS**

4720G


**Prod. SCU**

In rolled and hardened steel.

Alternated teeth. Fine toothed.

Straight fixed handle

Blade length	mm	250	300
<b>4720G</b>	<b>Each</b>	<b>3,64</b>	<b>4,30</b>



Product description as Art. 4720G

Straight revolving handle

Blade length	mm	250
<b>4724G</b>	Each	<b>8,28</b>


**4724G**
**VENEER CUTTERS**
**Prod. SCU**

In rolled and hardened steel.

Alternated teeth. Overall length: 190mm. Blade length: 75mm.

Wooden handle

<b>4725G</b>	Each	<b>8,12</b>
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**SCU**

**4725G**
**ARC SAWS WITH HANDLE**
**Prod. SCU**

In rolled steel tubing. Polished lacquering.

Close grip in synthetic material.

Overall length: 560mm.

Complete with 400mm blade.

<b>4730</b>	Each	<b>7,36</b>
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Spare blades for Art. 4730.

<b>O4730</b>	Each	<b>1,84</b>
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**SCU**

**4730**
**UNIVERSAL ARC SAWS**
**Prod. SCU**

In rolled steel tubing.

Polished lacquering.

Symmetric arc with galvanized bar for blade stretching.

Complete with blade.

Blade length	mm	700	800	900
<b>4750</b>	Each	<b>7,72</b>	<b>8,08</b>	<b>9,62</b>

**SCU**

**4750**

Revolving blade.

In rolled steel tubing. Polished lacquering.

Complete with 530mm blade.

<b>4752</b>	Each	<b>7,18</b>
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**SCU**

**4752**

SPARE BLADES FOR ARC SAWS Art. 4750 - 4752.

In steel with universal teeth.

Induction hardened. Width: 20mm.

For bow saw by	mm	530	700	800	900
<b>4754</b>	Each	<b>2,02</b>	<b>2,26</b>	<b>2,48</b>	<b>2,66</b>

**SCU**

**4754**
**BAND SAWS FOR WOOD**
**Prod. SCU**

In extra special steel, hardened. Sharpened and alternated teeth.

Supplied in 30m rollers not sold partially.

Width	mm	25	35	40
Thickness	mm	0,7	0,8	0,8
Pitch	mm	8	9	10
<b>4820</b>	Each	<b>97,20</b>	<b>126,00</b>	<b>144,00</b>

**SCU**

**4820**

Product running out of stock.

**CIRCULAR SAWS FOR WOOD**
**Orig. Schumacher - Art. CV**

Normal tothing.

In high resistance CHROME VANADIUM steel.

Hardened, ground, calibrated, alternated and sharpened blade. Ready for use.

Universal application.

Type		250	300	350	400	400B
Ø	mm	250	300	350	400	400
Thickness	mm	1,4	1,6	1,8	2	3
Teeth	No	80	80	80	80	80
Bore	mm	30	30	30	30	30
<b>4831G</b>	Each	<b>31,80</b>	<b>40,10</b>	<b>48,10</b>	<b>62,70</b>	<b>71,90</b>

*H.O. Schumacher-Sohn*

**4831G**

Reductions from 30 to 20 and 25mm, see Art. 09597 GE-H.

Product running out of stock.

**4833G** *H.O. Schumacher-Sohn*



**Orig. Schumacher - Art. B**

Toothing like the beak of a little owl.  
In high resistance CHROME VANADIUM steel.  
Hardened, ground, calibrated, alternated and sharpened blade. Ready for use.  
Universal application.

Ø	mm	<b>400</b>	<b>450</b>	<b>500</b>	<b>600</b>
Thickness	mm	2	2,2	2,5	2,8
Teeth	No	56	56	56	56
Bore	mm	30	30	30	30
<b>4833G</b>	<b>Each</b>	<b>51,90</b>	<b>64,10</b>	<b>132,00</b>	<b>140,00</b>

Reductions from 30 to 20 and 25mm, see Art. 09597 GE-H.

When the stock will be run out, we will provide the same item Orig. SCU-MP.S

**CARBIDE TIPPED CIRCULAR SAWS**

**4840G** **SCU**



**HARTMETALL**

**Prod. SCU**

FOR USE WITH PORTABLE MACHINES

Universal application. Alternate sharpening. Suitabel to cut hardwood and softwood, plywood, coated boards, etc. Accurately worked and brased plates. Calibrated housing with ground hole and a very effective kerf blade guarantee a higher break resistance and efficiency.

Type		<b>125A</b>	<b>125B</b>	<b>130A</b>	<b>130B</b>	<b>134A</b>	<b>134B</b>	<b>140A</b>	<b>140B</b>
Ø	mm	125	125	130	130	134	134	140	140
Thickness	mm	2,4	2,4	2,8	2,8	2,8	2,8	2,8	2,8
Bore	mm	12,7	12,7	16	16	20	20	20	20
Teeth	No	12	18	12	18	12	18	12	18
For machines brand		B + D-Skil		Bosch-Skil		AEG-Holz Her		B + D-Peugeot	
<b>4840G</b>	<b>Each</b>	<b>42,50</b>	<b>22,40</b>	<b>18,50</b>	<b>22,40</b>	<b>18,80</b>	<b>22,60</b>	<b>19,40</b>	<b>23,90</b>

Type		<b>150A</b>	<b>150B</b>	<b>150L</b>	<b>150P</b>	<b>156A</b>	<b>156B</b>	<b>160A</b>	<b>160B</b>
Ø	mm	150	150	150	150	156,5	156,5	160	160
Thickness	mm	2,8	2,8	2,8	2,8	2,4	2,4	2,8	2,8
Bore	mm	16	16	20	20	12,7	12,7	16	16
Teeth	No	12	20	12	24	12	20	14	20
For machines brand		Bosch-Scheer		AEG-Fein-Hitachi-Metabo-Scheer-Peugeot-Skil		B + D		B + D-Peugeot-Scheer-Skil-Ulmia-Bosch	
<b>4840G</b>	<b>Each</b>	<b>22,40</b>	<b>27,50</b>	<b>22,40</b>	<b>27,50</b>	<b>53,50</b>	<b>68,10</b>	<b>24,10</b>	<b>28,30</b>

Type		<b>160L</b>	<b>160P</b>	<b>170A</b>	<b>170B</b>	<b>170L</b>	<b>170P</b>	<b>180A</b>	<b>180B</b>
Ø	mm	160	160	170	170	170	170	180	180
Thickness	mm	2,8	2,8	2,8	2,8	2,8	2,8	2,8	2,8
Bore	mm	20	20	20	20	30	30	20	20
Teeth	No	14	20	14	22	14	22	14	22
For machines brand		AEG-Fein-Haffner-Holz Her-Kress-Mafell-Metabo-Makita-Festo-Hitachi		Mafell-Metabo-Makita		Bosch-Elu-Festo-Haffner-Hitachi-Holz Her-Skil		Haffner-Makita-Metabo-Peugeot	
<b>4840G</b>	<b>Each</b>	<b>24,10</b>	<b>28,30</b>	<b>26,10</b>	<b>31,10</b>	<b>26,10</b>	<b>31,10</b>	<b>26,10</b>	<b>31,30</b>

Type		<b>180L</b>	<b>180P</b>	<b>184A</b>	<b>184B</b>	<b>190A</b>	<b>190B</b>	<b>190L</b>	<b>190P</b>
Ø	mm	180	180	184	184	190	190	190	190
Thickness	mm	2,8	2,8	2,8	2,8	2,8	2,6	2,8	2,6
Bore	mm	30	30	16	16	16	16	20	20
Teeth	No	14	22	14	22	14	30	14	30
For machines brand		Bosch-Elu-Festo-Haffner-Holz Her-Mafell		B + D-Rockwell-Skil-Stanley-De Walt-Peugeot		Bosch-Skil		Makita-Metabo-Schleicher-Kress	
<b>4840G</b>	<b>Each</b>	<b>26,10</b>	<b>31,30</b>	<b>25,50</b>	<b>30,90</b>	<b>27,60</b>	<b>38,30</b>	<b>27,60</b>	<b>38,30</b>

Type		<b>190S</b>	<b>190T</b>	<b>200A</b>	<b>200B</b>	<b>210A</b>	<b>210B</b>	<b>230A</b>	<b>230B</b>
Ø	mm	190	190	200	200	210	210	230	230
Thickness	mm	2,8	2,8	2,8	2,8	2,8	2,8	2,8	2,8
Bore	mm	30	30	30	30	30	30	30	30
Teeth	No	14	30	16	30	16	30	20	34
For machines brand		AEG-Bosch-Hitachi-Holz Her-Mafell-Scheer-Skil-De Walt-Elu-Festo-Makita-Peugeot		AEG-Bosch-Elu-Festo-Haffner-Holz Her-Mafell-Scheer-B + D-Emco-Kity-Peugeot-Ulmia		AEG-B + D-Bosch-Elu-Fein-Haffner-Hitachi-Holz Her-Kress-Mafell-Skil-Elektra-Metabo		AEG-B + D-Bosch-Festo-Haffner-Holz Her-Scheer-Mafell	
<b>4840G</b>	<b>Each</b>	<b>27,60</b>	<b>38,30</b>	<b>33,40</b>	<b>38,70</b>	<b>33,70</b>	<b>39,40</b>	<b>39,20</b>	<b>44,90</b>

Type		<b>240A</b>	<b>240B</b>
Ø	mm	240	240
Thickness	mm	2,8	2,8
Bore	mm	30	30
Teeth	No	16	34
For machines brand		AEG-Bosch-Elu-Festo-Hitachi-Mafell-Holz Her-Metabo-Scheer-De Walt	
<b>4840G</b>	<b>Each</b>	<b>50,60</b>	<b>53,20</b>

The thickness and number of saw teeth may vary slightly to meet manufacturing requirements.  
Sizes 125A - 156A and 156B running out of stock.

Prices in EUFRO - VAT not included

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**Orig. Schumacher - Art. UW-03**

FOR USE WITH STATIC MACHINES

Universal application. Alternate sharpening. Suitable to cut hardwood and softwood, plywood, coated boards, etc. Accurately worked and brased plates. Calibrated housing with ground hole and a very effective kerf blade guarantee a higher break resistance and efficiency.

Middle toothing (suitable for hardwood, multilayer wood and hardboards).

Ø	mm	150	200	250	300	350	400
Thickness	mm	2,8	3	3,2	3,2	3,5	3,5
Bore	mm	30	30	30	30	30	30
Teeth	No	24	34	42	48	54	60
<b>4843G</b>	<b>Each</b>	<b>58,70</b>	<b>76,70</b>	<b>66,70</b>	<b>99,70</b>	<b>126,00</b>	<b>193,00</b>

Sizes mm 150 and 200 running out of stock.

*H.O. Schumacher-Sohn* **HARTMETALL** **4843G**

**Orig. Schumacher - Art. KW-05**

Product description as Art. 4843G

Fine toothing (suitable for soft wood, multilayer wood and coated panels).

Ø	mm	150	200	250	300	350	400
Thickness	mm	2,8	3	3,2	3,2	3,5	3,5
Bore	mm	30	30	30	30	30	30
Teeth	No	36	48	60	72	84	96
<b>4844G</b>	<b>Each</b>	<b>72,60</b>	<b>93,50</b>	<b>73,50</b>	<b>124,00</b>	<b>159,00</b>	<b>226,00</b>

Sizes mm 150 and 200 running out of stock.

*H.O. Schumacher-Sohn* **HARTMETALL** **4844G**

**Orig. Schumacher - Art. VW-07**

Product description as Art. 4843G

Very fine toothing (suitable for plywood, formica, resopal and plexiglas).

Ø	mm	150	200	250	300	350
Thickness	mm	2,8	3	3,2	3,2	3,5
Bore	mm	30	30	30	30	30
Teeth	No	48	64	80	96	108
<b>4845G</b>	<b>Each</b>	<b>85,80</b>	<b>115,00</b>	<b>89,50</b>	<b>130,00</b>	<b>170,00</b>

Sizes mm 150 and 200 running out of stock.

When the stock will be run out, the Art. 4843G/4844G/4845G will be provided the same items Orig. SCU-MPS

*H.O. Schumacher-Sohn* **HARTMETALL** **4845G**

**Orig. Schumacher - Art. LWZ-15**

FOR USE WITH STATIC MACHINES

Universal application. Alternate sharpening. Suitable to cut hardwood and softwood, plywood, coated boards, etc. Accurately worked and brased plates. Calibrated housing with ground hole and a very effective kerf blade guarantee a higher break resistance and efficiency.

Ø	mm	250	300	350	400
Thickness	mm	3,2	3,2	3,5	3,5
Bore	mm	30	30	30	30
Teeth	No	24	28	32	36
<b>4848G</b>	<b>Each</b>	<b>63,70</b>	<b>83,70</b>	<b>98,30</b>	<b>130,00</b>

When the stock will be run out, we will provide the same item Orig. SCU-MPS

*H.O. Schumacher-Sohn* **HARTMETALL** **4848G**

**Prod. SCU**

FOR USE WITH STATIC MACHINES

Model suitable for building and carpentry applications. Reinforced bevelled toothing. To cut wooden frameworks and boards even with residual concrete and nails. Accurately worked and brased plates. Calibrated housing with ground hole.

Ø	mm	300	350	400
Thickness	mm	3,2	3,6	3,8
Bore	mm	30	30	30
Teeth	No	20	24	28
<b>4850G</b>	<b>Each</b>	<b>77,60</b>	<b>108,00</b>	<b>121,00</b>

 **HARTMETALL** **4850G**


**TROWELS**
**4851B****SCU****Prod. SCU**

Optimal price/quality ratio. In hardened steel, flexible. Wooden handle.  
Rounded narrow.

Blade length	mm	180	200	220
<b>4851B</b>	Each	3,32	3,80	4,26

**4851C****SCU**

Product description as Art. 4851B

Rounded.

Blade length	mm	180	200	220
<b>4851C</b>	Each	4,12	4,30	4,48

**4851D****SCU**

Product description as Art. 4851B

Square.

Blade length	mm	180	200	220
<b>4851D</b>	Each	4,02	4,26	4,48

**4851GA****SCU**

In hardened special steel. High flexibility. Ergonomic handle in dual component material, finger guard.

Rounded narrow.

Blade length	mm	180	200	220
<b>4851GA</b>	Each	9,80	10,20	10,70

**4851GE****SCU**

Product description as Art. 4851GA

Square

Blade length	mm	180	200	220
<b>4851GE</b>	Each	9,76	10,30	10,90

**TROWELS**
**4851GF****SCU****Prod. SCU**

Product description as Art. 4851GA

Rounded.

Blade length	mm	140	160
<b>4851GF</b>	Each	7,36	7,36

**4851GL****SCU**

Product description as Art. 4851GA

Pointed.

Blade length	mm	140	160
<b>4851GL</b>	Each	7,70	7,80

**TROWELS**
**4852GA****SCU****Prod. SCU**

In special hardened steel. High flexibility. Wooden handle.

Rounded narrow.

Blade length	mm	180	200	220
<b>4852GA</b>	Each	9,62	9,92	10,60

**4852GB****SCU**

Product description as Art. 4852GA

Rounded.

Blade length	mm	180	200	220
<b>4852GB</b>	Each	10,90	11,70	12,20

Product description as Art. 4852GA

Square

Blade length	mm	180	200	220
<b>4852GE</b>	Each	9,52	10,10	10,50

SCU


**4852GE**
**TROWELS**
**Prod. SCU**

Product description as Art. 4852GA

Rounded.

Blade length	mm	140	160
<b>4852GF</b>	Each	7,18	7,18

SCU


**4852GF**

Product description as Art. 4852GA

Pointed.

Blade length	mm	140	160
<b>4852GH</b>	Each	7,76	7,86

SCU


**4852GH**

Product description as Art. 4852GA

Square

Blade length	mm	140	160
<b>4852GL</b>	Each	8,10	9,24

SCU


**4852GL**
**TROWELS FOR CORNERS**
**Prod. SCU**

In stainless steel. Ergonomic two-component handle with finger protection.

Type for machining the inner corners.

Blades dimensions	mm	100x75x75
<b>4853GA</b>	Each	11,70

SCU


**4853GA**  
*new*

Product description as Art. 4853GA

Type for machining of the outer corners.

Blades dimensions	mm	100x75x75
<b>4853GB</b>	Each	11,70

SCU


**4853GB**  
*new*
**TROWELS FOR JOINTS**
**Prod. SCU**

In special hardened steel. Wooden grip.

Type with flat section blade.

Blades width	mm	8	10	12
<b>4853GE</b>	Each	3,84	3,84	3,84

SCU


**4853GE**  
*new*

Product description as Art. 4853GE

Type with half round section blade.

Blades width	mm	8	10	12
<b>4853GF</b>	Each	13,20	13,20	13,50

SCU


**4853GF**  
*new*
**FLOATS**
**Prod. SCU**

Wooden handle.

In special steel, smooth blade. Dimensions: 280x130mm.

<b>4854A</b>	Each	6,22
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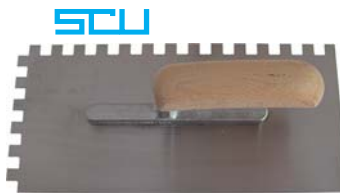
SCU


**4854A**

**4854B**

Product description as Art. 4854A  
In stainless steel, smooth blade. Dimensions: 280x130mm.

<b>4854B</b>	Each	<b>9,32</b>
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**4854D**  
*new*

Product description as Art. 4854A  
In special steel, toothed blade square (Greek), on the right. Dimensions 280x130 mm.

Side square tothing	mm	<b>6</b>	<b>8</b>	<b>10</b>
<b>4854D</b>	Each	<b>6,62</b>	<b>6,62</b>	<b>6,62</b>

**4854E**

Product description as Art. 4854A  
In special steel, saw-toothed blade (5x5mm). Dimensions: 280x120mm.

<b>4854E</b>	Each	<b>16,10</b>
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Product running out of stock.

**4854F**

Product description as Art. 4854A  
In special steel, square-toothed blade (8x8mm). Dimensions: 280x120mm.

<b>4854F</b>	Each	<b>14,60</b>
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Product running out of stock.

**4854G**  
*new*

Handle and smooth blade entirely of reinforced plastic.  
Dimensions 280x140 mm.

<b>4854G</b>	Each	<b>5,48</b>
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**4854L**  
*new*

Long wooden handle, suitable for use with 2 hands.  
In special steel, smooth blade. Dimensions 480x130 mm.

<b>4854L</b>	Each	<b>16,40</b>
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**4854M**  
*new*

Product description as Art. 4854L  
In special steel, toothed blade square (Greek). Dimensions 500x130 mm.

Side square tothing	mm	<b>6</b>	<b>10</b>
<b>4854M</b>	Each	<b>18,80</b>	<b>18,80</b>

**4854R**

Type in hard rubber sponge, suitable for plaster smoothing. Plastic handle.  
Dimensions: 210x130mm.

<b>4854R</b>	Each	<b>11,30</b>
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**4854S**

Product description as Art. 4854R  
Dimensions: 235x100mm.

<b>4854S</b>	Each	<b>10,80</b>
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Product running out of stock.

Product description as Art. 4854R

Dimensions: 400x70mm.

<b>4854T</b>	Each	<b>12,40</b>
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Product running out of stock.


**4854T**

Type in soft sponge rubber, particularly suitable for smoothing of the plaster.

Plastic handle. Dimensions 280x140 mm.

<b>4854VA</b>	Each	<b>7,88</b>
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SCU

**4854VA**
*new*


Type in completely smooth plywood.

Length	mm	<b>280</b>	<b>480</b>
Width	mm	140	240

<b>4854VE</b>	Each	<b>7,04</b>	<b>13,90</b>
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SCU

**4854VE**
*new*


Type completely reinforced plastic, rigid, lightweight, unbreakable, with work surface grating.

Length	mm	<b>280</b>	<b>480</b>
Width	mm	140	240

<b>4854VF</b>	Each	<b>5,22</b>	<b>13,60</b>
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SCU

**4854VF**
*new*


Smooth blades in special steel, suitable for plaster of Paris application. Wooden long handle, suitable for use with 2 hands.

Dimensions: 470x70mm.

<b>4854Z</b>	Each	<b>37,20</b>
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SCU

**4854Z**


Knurled blades in special steel, suitable for plaster of Paris, concrete, etc. application. Wooden handle and support.

Dimensions: 250x70mm.

<b>4855G</b>	Each	<b>22,10</b>
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SCU

**4855G**


Type gridded hardened steel, galvanized. Handle in soft material, non-slip.

Dimensions 285x150 mm.

<b>4855GE</b>	Each	<b>22,20</b>
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SCU

**4855GE**
*new*


Type for WASH, with sponge glued with high absorption. Plastic handle reinforced, rigid and lightweight.

Dimensions 280x140 mm.

<b>4855GP</b>	Each	<b>6,56</b>
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SCU

**4855GP**
*new*


Spare sponge supply on request.

### WASHING SPONGES

**Prod. SCU**

Type with high absorption, for universal use, in square shape.

Dimensions 170x115x60 mm.

<b>4855GT</b>	Each	<b>3,04</b>
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SCU

**4855GT**
*new*


**PLUMB BOBS**

4856


**Prod. SCU**

Steel cylindrical type.

Weight	grams	200	300	400	500
4856	Each	4,30	5,38	5,74	6,10

4856G


**Orig. Schröder**

Brass cylindrical type. Weight: 50g.

Supplied with 5m cord

4856G	Each	7,06
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**RUST SCRAPERS**

4894


**Prod. SCU**

In Swedish steel. Hardened, polished. Supplied in 12-pcs packing unit not sold separately.

Overall length	mm	140
Width	mm	70
Thickness	mm	0,7
4894	Each	1,96

Product running out of stock.

**WALL SCRAPERS**

4895

new


**Prod. SCU**

Type in special hardened steel, flexible. Wooden handle with hole.

Blade width	mm	20	30	40	50	60	70	80	
4895	Each	2,30	2,44	2,50	2,70	2,80	2,90	3,20	
Blade width	mm	100	120						
4895	Each	3,80	4,32						

4896




In hardened steel. Wooden handle.

Blade width	mm	20	30	50	60	70	80	90	
4896	Each	3,10	3,10	3,40	3,80	4,04	4,24	4,58	
Blade width	mm	100	120						
4896	Each	5,24	6,24						

Product running out of stock.

4896R

new





Type in stainless steel, flexible. Plastic handle with hole.

Blade width	mm	40	60	80	100	120
4896R	Each	1,68	2,08	2,44	2,78	3,34

4897





In stainless steel. Handle in synthetic material.

Blade width	mm	40	120
4897	Each	7,40	12,90

Product running out of stock.

4897E

new




Type of special steel, hardened. Wooden handle. Particularly suitable for plasterers.

Blade width	mm	120	140	160	180	200
4897E	Each	3,74	4,00	4,22	4,62	5,22

4897T

new




Type of special steel, hardened, for universal use. With two rounded corners.

In box of 12 pieces, indivisible.

Blade width	mm	30	40	50	60	80	100	120
4897T	Each	0,34	0,38	0,40	0,44	0,52	0,60	0,66



In Swedish steel. Blue hardened. Flexible. Length mm 120. Thickness mm 0,5.  
Supplied in 12-pcs. packing unit not sold separately.

Blade width	mm	30	40	50	60	70	80	100
<b>4898</b>	Each	0,38	0,42	0,50	0,52	0,68	0,72	0,86
Blade width	mm	120						
<b>4898</b>	Each	1,06						



**4898**

In special steel, hardened, teeth for glue, mastic, etc.  
Length mm 80. Thickness mm 0,5.  
Supplied in 12-pcs. packing unit not sold separately.

Blade width	mm	80	100	120
<b>4899</b>	Each	1,98	2,38	2,70



**4899**

Series of 4 spatulas made of special steel, hardened, for universal use, with plastic back protection.  
Composition of 1 per type, width of blades 50-80 - 100 - 120 mm.  
Blade length 110 mm.

<b>4899P</b>	La Serie	1,98
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**4899P**  
*new*

In special steel, hardened. Sheet steel handle.  
Width: 200mm.

Toothed blade for glue, mastic, etc.

<b>4900</b>	Each	6,92
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**4900**

Product description as Art. 4900

Smooth blade for plaster, etc.

<b>4902</b>	Each	6,68
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**4902**

### BIG WALL SCRAPERS

#### Prod. SCU

Type stainless steel, flexible. Aluminum support and handle with soft material, non-slip.  
Ideal for large walls.

Blade width	mm	400	500	600
<b>4903</b>	Each	9,44	10,50	11,50



**4903**  
*new*

### WATER SCRAPERS

#### Prod. SCU

Type lightweight with soft rubber double lip. Steel support, with handle holder, galvanized.  
Width 600 mm Without handle.

<b>4905A</b>	Each	5,08
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**4905A**  
*new*

High-resistance type with hard rubber, single-lip, suitable for use on aggressive materials.  
Steel support, with handle holder, galvanized.  
Width 600 mm Without handle.

<b>4905B</b>	Each	16,70
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**4905B**  
*new*

Wooden handles Ø mm 24. Total length 1400 mm.  
Suitable for spatulas Art. 4905 A - 4905 B.

<b>O4905B</b>	Each	4,32
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### SOFT BRUSHES

#### Prod. SCU

Extra quality model, made from pure white Chinese bristle, for universal use.  
Wooden handle, metal flange.

Round type.

Ø	mm	10,5	13	18	23	30	36	42
Bristles length approx.	mm	35	40	48	55	65	70	80
<b>4910</b>	Each	2,10	2,34	2,78	4,60	6,62	10,20	14,80



**4910**

Extra model Nylon bristle, for universal use.

Wooden handle, metal ring.

Round type.

Ø	mm	23	30
Bristles length approx.	mm	50	60
<b>4911</b>	Each	4,78	6,78



**4911**

**4912****SCU**

Extra quality model, made from pure white Chinese bristle, for universal use.

Wooden handle, metal flange.

Flat type. Thickness: 15mm.

Width	mm	20	30	40	50	60	80	100
Bristles length approx.	mm	45	50	55	60	60	65	70
<b>4912</b>	<b>Each</b>	<b>2,46</b>	<b>3,06</b>	<b>3,60</b>	<b>4,24</b>	<b>5,00</b>	<b>8,16</b>	<b>11,90</b>

**4913****SCU**

Extra model Nylon bristle, for universal use (also suitable for sealants).

Wooden handle, metal ring.

Flat type. Thickness 9mm.

Width	mm	30	60
Bristles length approx.	mm	30	50
<b>4913</b>	<b>Each</b>	<b>3,58</b>	<b>5,14</b>

**4915***new***SCU**

Type Extra, pure chinese blonde bristle, for finishing, retouching, etc.

Wood handle, ferrule made of sheet.

Type flat, thin.

Width	mm	6	10	16
Bristles length approx.	mm	18	27	33
<b>4915</b>	<b>Each</b>	<b>0,86</b>	<b>1,02</b>	<b>1,58</b>

**4918***new***SCU**

Type Extra, pure bristle bi-cooked, for radiator.

Hood handle, ferrule made of sheet.

Type flat, angled. Thickness 9 mm.

Width	mm	30	50
Bristles length approx.	mm	47	52
<b>4918</b>	<b>Each</b>	<b>2,26</b>	<b>3,42</b>

**LARGE SOFT BRUSHES****4920***new***SCU****Prod. SCU**

MIX TECNIFIL model, pure bristle and synthetic bristle mix. Plastic base and handle. Metal ferrule. Resistant to solvents. With hook to hang on bins and buckets.

Dimensions 150x50 mm. Length. bristles ca. 72 mm.

<b>4920</b>	<b>Each</b>	<b>12,70</b>
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**4922***new***SCU**

Type with bristle in pure TAMPICO natural. Wooden base and handle. Resistant to solvents and color. With hook support of bins and buckets.

Dimensions 160x70 mm. Length. bristles ca. 85 mm.

<b>4922</b>	<b>Each</b>	<b>6,48</b>
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**METAL PLANES****5000G****SCU****Prod. SCU**

Standard model. Steel blade with cut adjustment.

Length: 170mm. Iron width: 40mm.

<b>5000G</b>	<b>Each</b>	<b>12,60</b>
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Product running out of stock.

**5009G****SCU**

Professional model with handle and knob. Iron in special steel. Cutting adjustment by means of a screw.

Length: 240mm. Iron width: 50mm.

<b>5009G</b>	<b>Each</b>	<b>24,20</b>
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Professional model with handle and knob. Iron in special steel, HRC 50-55 hardness. Cutting adjustment by means of a screw.

Length: 350mm. Iron width: 55mm.

5010G	Each	118,00
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SCU



5010G

**WOODEN PLANES**

**Prod. SCU**

Standard model. Inserted tote and sole.

Double iron and short screw.

Length: 235mm.

Iron width	mm	44	48
5083	Each	46,50	47,50

Spare irons for Art. 5083.

Iron width	mm	44	48
O5083	Each	16,10	16,80

SCU



5083

Professional model. In precious wood, polished. Tote and sole inserted in hornbeam. Double iron and short screw.

Length: 240mm.

Iron width	mm	48
5085G	Each	66,70

Spare irons for Art. 5085 G.

O5085G	Each	19,80
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SCU



5085G

**REBATE PLANES**

**Prod. SCU**

Standard model. Single-iron plane.

Length: 240mm.

Iron width	mm	22	28
5099	Each	21,60	23,70

Spare irons for Art. 5099.

Iron width	mm	22	28
O5099	Each	6,92	9,06

SCU



5099

Professional model. In precious wood.

Single-iron 30mm. Length: 240mm.

5105G	Each	41,60
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Spare irons for Art. 5105 G.

O5105G	Each	14,40
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SCU



5105G

Professional model. In precious wood.

Iron adjusting screw. Double-iron 30mm. Length: 240mm.

5108G	Each	63,10
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Spare irons for Art. 5108 G.

O5108G	Each	18,10
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SCU



5108G

**WOODEN PLANES**

**Prod. SCU**

Long pattern, double-iron.

In precious wood, polished. Sole inserted in hornbeam.

With grip. Length: 600mm - Iron width: 50mm.

5120G	Each	107,00
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SCU



5120G

12

**MARKING GAUGES**

**Prod. SCU**

Double-graduated model.

In precious wood, adjustable stems. Length: 220mm. Graduation range: 0-150mm.

5131G	Each	21,60
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SCU



5131G

**BEVELLED CHISELS**
**5200G****SCU****Prod. SCU**

In high resistance steel. Accurately hardened and ground. Bevelled angles.

Professional type. Shaped wooden handle

Cutting width	mm	6	8	10	12	14	15	16
<b>5200G</b>	Each	10,20	10,30	10,50	10,90	11,30	11,80	12,10
Cutting width	mm	18	20	22	25	30	32	35
<b>5200G</b>	Each	12,30	12,90	13,50	14,70	15,90	17,40	18,80

**5202G****SCU**

Product description as Art. 5200G

Professional type. Ergonomic handle in rigid and soft dual component material, for optimal grip.

Cutting width	mm	6	8	10	12	14	15	16
<b>5202G</b>	Each	11,80	11,90	12,10	12,60	13,10	13,50	13,80
Cutting width	mm	18	20	22	25	30	32	35
<b>5202G</b>	Each	14,10	14,80	15,60	16,80	18,30	20,10	21,60

**5208****SCU**

In high resistance steel. Accurately hardened. Bevelled angles.

Normal type, wooden handle.

Cutting width	mm	4	6	8	10	12	14	16
<b>5208</b>	Each	5,02	6,22	6,44	6,66	7,42	7,72	8,10
Cutting width	mm	18	20	22	25	28	30	
<b>5208</b>	Each	8,40	9,12	9,80	11,10	11,80	12,50	

**5208GA****SCU**

In high resistance steel. Accurately hardened and ground. Bevelled angles.

Extra professional model - wooden shaped handle.

Cutting width	mm	4	6	8	10	12	14	16	18
<b>5208GA</b>	Each	13,20	13,20	13,20	13,40	14,20	14,50	14,80	15,10
Cutting width	mm	20	22	25	28	30	35	40	
<b>5208GA</b>	Each	15,50	16,10	16,90	17,80	18,20	20,10	21,60	

**5209GB****SCU**

Product description as Art. 5208GA

Extra professional model - Ergonomic handle in tri-component material.

Cutting width	mm	4	6	8	10	12	14	15
<b>5209GB</b>	Each	16,80	16,80	16,80	17,10	17,80	18,20	18,30
Cutting width	mm	18	20	22	25	30	35	40
<b>5209GB</b>	Each	18,60	19,20	19,60	20,60	21,90	23,70	25,40

**SETS OF BEVELLED CHISELS**
**5209GP****SCU****Prod. SCU**

9-pcs sets of bevelled chisels with wooden handle Art. 5208 supplied on a practical wooden displayer.

Sizes: 6-8-10-12-16-20-25-28-30mm.

<b>5209GP</b>	Each	125,66
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**5209GR****SCU**

9-pcs sets of bevelled chisels with wooden handle Art. 5208 GA supplied on a practical wooden displayer.

Sizes: 6-8-10-12-16-20-25-28-30mm.

<b>5209GR</b>	Each	183,50
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**5209GS****SCU**

9-pcs sets of bevelled chisels with wooden handle Art. 5208 GB supplied on a practical wooden displayer.

Sizes: 6-8-10-12-15-18-20-25-30mm.

<b>5209GS</b>	Each	213,40
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**NON BEVELLED CHISELS**
**Prod. SCU**

In high resistance steel. Accurately hardened and ground. Side sharp edges.  
Extra professional model - Shaped wooden handle.

Cutting width		mm	12	20	35
<b>5210G</b>	Each		12,60	14,30	19,30

Product running out of stock.


**5210G**

**JOINER'S GOUGES**
**Prod. SCU**

High resistance steel. Accurately hardened and ground. Extra quality model - Shaped wooden handle.

Cutting width		mm	6	8	10	12	14	15	16
<b>5211GA</b>	Each		22,40	23,10	24,10	24,80	25,90	25,10	26,70

Cutting width		mm	18	20
<b>5211GA</b>	Each		27,40	28,20

Sizes mm 6 - 15 and 18 running out of stock.


**5211GA**

**MORTISE CHISELS**
**Prod. SCU**

High resistance steel. Accurately hardened and ground. Extra quality model - Shaped wooden handle.

Cutting width		mm	4	6	8	10	12
<b>5217GA</b>	Each		20,60	21,70	23,70	25,60	26,90

Sizes mm 4 and 12 running out of stock.


**5217GA**

**TURNING CHISELS**
**Prod. SCU**

High resistance steel. Accurately hardened.  
Shaped wooden handle. Overall length: 290mm.  
Point-tipped, double bevelled.

Blade width		mm	13
<b>5219GA</b>	Each		45,10

Product running out of stock.


**5219GA**


Product description as Art. 5219GA

Point-tipped, not bevelled.

Blade width		mm	13
<b>5219GB</b>	Each		40,30

Product running out of stock.


**5219GB**


Product description as Art. 5219GA

Gouge tip

Blade width		mm	10
<b>5219GL</b>	Each		46,60

Product running out of stock.


**5219GL**

**MITRE SAWING APPLIANCES**
**Prod. SCU**

Precision execution.  
Suitable for straight and oblique cuts, bent at 22.5° - 30° - 36° - 45° and 90°.  
Cast body and stable base. Extension guide and universal blade for wood, plastic and aluminium.  
Supplied with blade.

Blade length		mm	550
Cutting width		mm	110
Cut height		mm	150
<b>5224G</b>	Each		71,00


**5224G**

**12**

### MITRE BOXES

**5227GA**  
**5227GB**
**SCU**

**Prod. SCU**

In legno massello evaporato, glued and screwed.  
 Suited to cut frames straightly or obliquely.

Art.		<b>5227GA</b>	<b>5227GB</b>
Overall length	mm	250	300
	Each	<b>7,58</b>	<b>8,04</b>

### SCRAPERS FOR VARIOUS USES

**5228GA**
**SCU**

**Prod. SCU**

Model made from synthetic material with protective blade cover. Suitable for upholsterers, plasterers, painters, etc. Straight blade, width 58mm.  
 Supplied with one blade.

<b>5228GA</b>	Each	<b>1,08</b>
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SPARE BLADES for Art. 5228 GA. Minimum quantity 10pcs.

<b>O5228GB</b>	Each	<b>0,26</b>
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**5228GE**
**SCU**


Steel housing model, plastic handle and cap the blade set. Suitable for Glaziers, Plasterers, decorators, upholsterers, etc. Straight blade, 40 mm width.

Total length 165mm.

With 1 blade.

<b>5228GE</b>	Each	<b>12,60</b>
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Product running out of stock.

SPARE BLADES for Art. 5228 GE. In packs of 5 blades, NOT SOLD SEPARATELY.

<b>O5228GE</b>	Per pack	<b>3,60</b>
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Product running out of stock.

**5228GL**
**SCU**


Metal model with plastic handle. Particularly suitable to remove stickers, labels etc. from smooth surfaces such as windshields, glass, Crystal, marble, tiles, etc. Straight blade, 40 mm width.

With 1 steel blade. Can also be supplied with plastic blades to avoid any damage to the treated surface (Art. O5228 GM).

Overall length	mm	<b>110</b>	<b>210</b>
<b>5228GL</b>	Each	<b>5,70</b>	<b>23,40</b>

REPLACEMENT BLADES per Art. 5228 GL 110/210. Supplied in packs of 10 INDIVISIBLE blades.

Steel blades.

<b>O5228GL</b>	Per pack	<b>3,78</b>
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Product description as Art. O5228GL

Plastic blades.

<b>O5228GM</b>	Per pack	<b>3,72</b>
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### SMALL BLADE CUTTERS

**5228GP**
**SCU**

**Prod. SCU**

Aluminium handle sheathed in synthetic material, blade protection cap.

Suitable to trim, snag and cut. Particularly suited to designers, decorators, etc.

Overall length: 155mm.

Supplied with one blade.

<b>5228GP</b>	Each	<b>11,30</b>
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SPARE BLADES for Art. 5228 GP. Minimum quantity 20pcs.

<b>O5228GR</b>	Each	<b>0,38</b>
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### COMBINATION BLADE CUTTERS

**5230GE**
**SCU**

**Prod. SCU**

Zinc die-cast handle. Finely lacquered.

Fastening through a large knurled head screw. Four mobile blades.

Suitable to modelmakers, engravers, etc.

Overall length, blade included: 135mm.

<b>5230GE</b>	Each	<b>14,30</b>
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Product running out of stock.

SPARE BLADES for Art. 5230 GE. Minimum quantity 5pcs.

<b>O5230GL</b>	Each	<b>0,86</b>
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Product description as Art. O5230GL

<b>O5230GM</b>	Each	<b>1,18</b>
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Product description as Art. O5230GL

<b>O5230GP</b>	Each	<b>1,54</b>
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Product description as Art. O5230GL

<b>O5230GR</b>	Each	<b>1,54</b>
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Articoli in esaurimento.

**UNIVERSAL TRAPEZOIDAL BLADE KNIVES**

**Prod. SCU**

With screw fixed blade.  
 Combination knives to cut and scrape.  
 Supplied with 5 trapezoidal blades stored in the handle. In die-cast aluminium.  
 Suited to cut linoleum, cardboard, leather, plywood, plastic, etc.

Overall length with blade	mm	135
Blade thickness	mm	0.45
<b>5231G</b>	<b>Each</b>	<b>8,40</b>

**SCU**

**5231G**



SPARE BLADES for Art. 5231 G. Minimum quantity 10pcs.

Blade length	mm	51
<b>O5231G</b>	<b>Each</b>	<b>0,44</b>

Heavy construction, with screw fixed blade.  
 Zinc die-cast handle. Supplied with five blades Art. 05232 GP.  
 Suited to cut linoleum, cardboard, leather, plywood, plastic, etc.

Overall length with blade	mm	140
Blade thickness	mm	0.65
<b>5232G</b>	<b>Each</b>	<b>10,90</b>

**SCU**

**5232G**



Heavy construction, toothed catch for rapid blade extension.  
 Zinc die-cast handle. Supplied with five blades Art. 05232 G 1.  
 Suited to cut linoleum, cardboard, leather, plywood, plastic, etc.

Overall length with blade	mm	140
Blade thickness	mm	0.65
<b>5232GM</b>	<b>Each</b>	<b>15,90</b>

**SCU**

**5232GM**



**Orig. Carolus - Art. 9100.00**

Professional, robust model with fast-forwarding through blade serrated button. Body in die-cast aluminium and bi-component material handle for maximum effort and comfort. Blade quick-change using button. With 5 blades Art. O5232 G 1. For cutting linoleum, cardboard, leather, wood, plywood, plastic, etc.

Overall length with blade	mm	175
Blade thickness	mm	0.65
<b>5232GR</b>	<b>Each</b>	<b>19,40</b>



**5232GR**

REPLACEMENT BLADES per Art. 5232 GR. Supplied in packs of 10 INDIVISIBLE blades.

Blade length	mm	60
<b>O5232GR 1</b>	<b>Per pack</b>	<b>5,90</b>



Product description as Art. O5232GR 1

Blade length	mm	53
<b>O5232GR 2</b>	<b>Per pack</b>	<b>6,86</b>

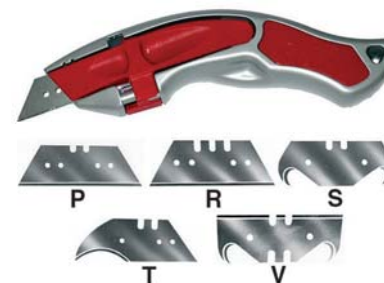
**Prod. SCU**

Professional and sturdy model with blade quick change patented system.  
 Handle in die-cast aluminium, curved and ergonomic for max effort. Provided with safety sheath.  
 With five blades Art. O5232 GP.  
 Suited to cut linoleum, cardboard, leather, plywood, plastic, etc.

Overall length with blade	mm	175
Blade thickness	mm	0.65
<b>5232GZ</b>	<b>Each</b>	<b>71,10</b>

**SCU**

**5232GZ**



SPARE BLADES for Art. 5232 G - 5232 GM - 5232 GZ. Minimum pack available: 10 blades.

Blade length	mm	60
<b>O5232GP</b>	<b>Each</b>	<b>0,62</b>

Product description as Art. O5232GP

Blade length	mm	53
<b>O5232GR</b>	<b>Each</b>	<b>0,60</b>

Product description as Art. O5232GP

Blade length	mm	53
<b>O5232GS</b>	<b>Each</b>	<b>0,92</b>

Product description as Art. O5232GP

Blade length	mm	60
<b>O5232GT</b>	<b>Each</b>	<b>0,84</b>

Product description as Art. O5232GP

Blade length	mm	53
<b>O5232GV</b>	<b>Each</b>	<b>1,04</b>

**5232GZE**



Professional model folding, with quick change button blade 45° to increase the speed of replacement and operator safety.

Ergonomic handle in aluminium alloy and steel saw blade head. With 1 BI-METALLIC trapezoid blade long life and high flexibility. O5232 GZE. Integrated strippers and locking clips to your belt. For cutting linoleum, cardboard, leather, plastic, wood etc.

Overall length as folded	mm	90
Overall length as open with blade	mm	150
Blade thickness	mm	0,65

<b>5232GZE</b>	Each	<b>23,10</b>
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REPLACEMENT BLADES per Art. 5232 GZE. Supplied in packs of 5 INDIVISIBLE blades.

Blade length	mm	60
<b>O5232GZE</b>	Per pack	<b>3,88</b>

**SAFETY UNIVERSAL KNIVES**
**5233A**


**Prod. SCU**

With accident prevention system. Automatic safety blade retreat once the operator leaves the slider. Handle in die-cast zinc.

Supplied with a trapezoidal blade Art. 05233 A.

Suited to cut linoleum, cardboard, leather, plywood, plastic, etc. Overall length of the closed knife: 170mm.

Blade thickness	mm	0,65
<b>5233A</b>	Each	<b>5,02</b>

SPARE BLADES for Art. 5233 A. Minimum quantity 10pcs. Trapezoidal type.

Blade length	mm	60
<b>O5233A</b>	Each	<b>0,18</b>

SPARE BLADES for Art. 5233 A. Minimum quantity 10pcs. Hook type.

Blade length	mm	51
<b>O5233B</b>	Each	<b>0,66</b>

**5233AC**



With TÜV-certified safety system. Automatic blade return as soon as the operator releases the appropriate cursor. Dual position of blade depth to use differentiated. Blunt blade profile to minimize the possibility of accidents. Ergonomic handle made of aluminium alloy containing 1 BI-METALLIC trapezoid blade long life and high flexibility. O50233 AC.

For cutting linoleum, cardboard, leather, plastic, wood etc. Total length from closed 170 mm.

Blade thickness	mm	0,65
<b>5233AC</b>	Each	<b>13,40</b>

SPARE BLADES for Art. 5233 AC. In packs of 5 blades, NOT SOLD SEPARATELY.

Blade length	mm	60
<b>O5233AC</b>	Per pack	<b>4,66</b>

**5233C**


**Orig. Peddinghaus - Art. 6228011001**

Professional model with safety system. Automatic blade return as soon as the operator releases the appropriate cursor. Aluminium alloy handle covered in soft rubber for a comfortable and safe grip. With trapezoidal blade 1 Art. O5233 c.

for cutting linoleum, cardboard, leather, plastic, wood etc. Total length from closed 160 mm.

Blade thickness	mm	0,65
<b>5233C</b>	Each	<b>15,90</b>

SPARE BLADES for Art. 5233 C. In packs of 10 blades, NOT SOLD SEPARATELY.

Blade length	mm	60
<b>O5233C</b>	Per pack	<b>9,64</b>

**UNIVERSAL KNIVES WITH SNAP-OFF BLADES**
**5233F**


**Orig. Carolus - Art. 9111.00**

Industrial model. High quality blade. Safety catch for extending/retreating the blade. Additional guides and blade locking device for particularly precise and stable cuts. Snap-off blades. Once the first snap-off section cut is worn out and removed, the second one is ready to be used and so on. Knurled handle in rigid and soft dual component material assures very good grip. Each knife is provided with five snap-off blades.

Blade width: 9mm.

Overall length	mm	140
<b>5233F</b>	Each	<b>3,46</b>

SPARE BLADES, 12 sectors for Art. 5233 F. Supplied in packs of 10 blades, NOT sold SEPARATELY.

Blade width	mm	9
<b>O5233F</b>	Per pack	<b>1,16</b>



**Prod. SCU**

Safety catch for extending/retracting the blade.  
 Snap-off blades. Once the first snap-off section cut is worn out and removed, the second one is ready to be used and so on.  
 Each knife is provided with three snap-off blades.  
 Stainless steel handle, thin, handy and sturdy.  
 Blade width: 9mm.

Overall length	mm	125
<b>5233G</b>	Each	<b>8,60</b>

**SCU**
**5233G**


Safety catch for extending/retracting the blade.  
 Snap-off blades. Once the first snap-off section cut is worn out and removed, the second one is ready to be used and so on.  
 Each knife is provided with three snap-off blades.  
 Handle in unbreakable plastic.

Overall length	mm	135
<b>5233GA</b>	Each	<b>5,96</b>

**SCU**
**5233GA**


SNAP-OFF BLADE, 12 sectors, for Art. 5233 G - 5233 GA. Minimum quantity 10pcs.

Blade width	mm	9
<b>O5233GB</b>	Each	<b>0,38</b>

Blade with button to advance/retract the blade. With additional steel guides for precise, stable cuts.

Blades divided into sectors. Once the cutting edge on the first sector has worn down, it is removed and the second is used, and so on.  
 Each knife is provided with 3 sector blades.  
 Handle made from unbreakable plastic.

Overall length	mm	160
<b>5233GC</b>	Each	<b>6,58</b>

**SCU**
**5233GC**


For spare blades see Art. 05233 GD.  
 Product running out of stock.

Professional model. Safety catch for extending/retracting the blade. Steel additional guides for precise and stable cuts.  
 Snap-off blades. Once the first snap-off section cut is worn out and removed, the second one is ready to be used and so on.  
 Each knife is provided with three snap-off blades.  
 Ergonomic handle in unbreakable plastic with anti-slip notches.  
 Blade width: 189mm.

Overall length	mm	165
<b>5233GE</b>	Each	<b>13,10</b>

**SCU**
**5233GE**


SPARE BLADE, 7 sectors, for Art. 5233 GC - GE. Minimum quantity 10pcs.

Blade width	mm	18
<b>O5233GD</b>	Each	<b>0,46</b>

Industrial model. High quality blade. Safety catch for extending/retracting the blade. Additional guides and blade locking device for particularly precise and stable cuts. Snap-off blades. Once the first snap-off section cut is worn out and removed, the second one is ready to be used and so on. Knurled handle in rigid and soft dual component material assures very good grip. Each knife is provided with three snap-off blades.

Overall length	mm	170
<b>5233GL</b>	Each	<b>3,82</b>

**SCU**
**5233GL**


SNAP-OFF BLADE, 7 sectors, for Art. 5233 GL. Minimum quantity 10pcs.

Blade width	mm	18
<b>O5233GM</b>	Each	<b>0,28</b>

Professional model, very cost-effective. Screw for extending/locking the blade. Steel additional guides for precise and stable cuts. Knurled handle in rigid and soft dual component material assures very good grip.

Overall length	mm	165
<b>5233P</b>	Each	<b>2,56</b>

**SCU**
**5233P**


**5233R****SCU**

Professional model, very cost-effective. Safety catch for extending/locking the blade. Steel additional guides for precise and stable cuts. Knurled handle in rigid and soft dual component material assures very good grip.

Each knife is provided with a snap-off blade.

Blade width: 18mm.

Overall length	mm	165
<b>5233R</b>	<b>Each</b>	<b>2,56</b>

SPARE SNAP-OFF BLADES, 7 sectors, for Art. 5233 P - 5233 R. Minimum quantity 10pcs.

Blade width	mm	18
<b>O5233T</b>	<b>Each</b>	<b>0,22</b>

**5233T****carolus** technic

**Orig. Carolus - Art. 9110.00**

Industrial model. High quality blade with push button forward/back to sweet and progressive movement. With additional guides and locking latch, for steel blade cuts particularly precise and stable. Blades divided into sectors. Once consumed the first sector, cutting off using the second and following. Knurled grip in hard and soft dual component material, for optimal grip. With 5 branches and Pencil Sharpener blades.

Blade width 18mm.

Overall length	mm	170
<b>5233T</b>	<b>Each</b>	<b>5,92</b>

SPARE BLADES, 7 sectors per Art. 5233 v. Supplied in packs of 10 blades, NOT sold SEPARATELY.

Blade width	mm	18
<b>O5233TA</b>	<b>Per pack</b>	<b>2,78</b>

**5233TE****SCU**

**Prod. SCU**

Industrial model works particularly burdensome and superior durability. Blade with clamping screw and button. With additional guides high thickness steel for precise cuts and very stable. Cast aluminium body and handle in soft material with a strong grip. Compartment for stowing 3 replacement blades. Supplied with 1 blade to sectors, BI-metal high durability and flexibility.

Blade width 18mm.

Overall length	mm	180
<b>5233TE</b>	<b>Each</b>	<b>21,10</b>

SPARE BLADES in 7 areas per Art. 5233 you. Supplied in packs of 8 INDIVISIBLE blades.

Blade width	mm	18
<b>O5233TE</b>	<b>Per pack</b>	<b>8,86</b>

**5233V****carolus** technic

**Orig. Carolus - Art. 9112.00**

Professional model with wide blade and 3-level sharpening for efficient and heavy duty performances. Steel additional guides for precise and stable cuts. Large-sized knurled handle in rigid and soft dual component material assures very good grip.

Provided with five snap-off blades, belt grip fastener .

Blade width: 25mm.

Overall length	mm	170
<b>5233V</b>	<b>Each</b>	<b>12,80</b>

SPARE BLADES, 7 sectors for Art. 5233 V. Supplied in packs of 10 blades, NOT sold SEPARATELY.

Blade width	mm	25
<b>O5233V</b>	<b>Per pack</b>	<b>6,86</b>

### EXPANDED POLYSTYRENE KNIVES

**5234***new***SCU**

**Prod. SCU**

Professional model with long blade, smooth, to cut polystyrene, insulating materials, glass fibres, etc.

Die-cast zinc handle, blade attached with screw. With 1 blade.

Overall length with blade	mm	245
Blade thickness	mm	0,45
<b>5234</b>	<b>Each</b>	<b>8,94</b>

The knife can also be used with the normal trapezoidal blades straight or hook Art. O5232 to O5232 GP GV.

SPARE BLADES for Art. 5234. Supplied in sets of 2 INDIVISIBLE blades.

Blade length	mm	140
<b>O5234</b>	<b>Per pack</b>	<b>11,10</b>

**SCULPTOR'S GOUGES**

**Prod. SCU**

In extra fine steel. Accurately hardened.  
 Long-lasting cutting edge. Suited to sculptors.  
 The number following the Art. 5234G indicates the gouge's shape.  
 Overall length: approx. 170mm.  
 Length edge to socket: approx. 120mm.

Handles for gouges, see Art. 5239P - Wooden hammers for gouges, see Art. 5236G.

Width	mm	2	4	6	8	10	12	14	16
<b>5234G 1</b>	<b>Each</b>	24,90	23,70	23,70	23,70	23,70	28,70	28,70	33,50

Width	mm	18	20	22	25	30	35	40
<b>5234G 1</b>	<b>Each</b>	33,50	34,70	35,90	37,10	38,30	40,70	44,20

**SCU**

**5234G 1**



Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14	16
<b>5234G 2</b>	<b>Each</b>	24,90	23,70	23,70	23,70	23,70	28,70	28,70	33,50

Width	mm	18	20	22	25	30	35	40
<b>5234G 2</b>	<b>Each</b>	33,50	34,70	35,90	37,10	38,30	40,70	44,20

**SCU**

**5234G 2**



Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14	16
<b>5234G 3</b>	<b>Each</b>	32,10	30,80	30,80	30,80	30,80	33,50	33,50	34,60

Width	mm	18	20	22	25	30	35	40
<b>5234G 3</b>	<b>Each</b>	34,70	35,90	37,10	38,10	40,70	44,20	47,80

**SCU**

**5234G 3**



Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14	16
<b>5234G 4</b>	<b>Each</b>	32,10	30,80	30,80	30,80	30,80	33,50	33,50	34,60

Width	mm	18	20	22	25	30	35	40
<b>5234G 4</b>	<b>Each</b>	34,70	35,90	37,10	38,30	40,70	44,20	47,80

**SCU**

**5234G 4**



Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14	16
<b>5234G 5</b>	<b>Each</b>	32,10	30,80	30,80	30,80	30,80	33,50	33,50	34,60

Width	mm	18	20	22	25	30	35	40
<b>5234G 5</b>	<b>Each</b>	34,70	35,90	37,10	38,30	40,70	44,20	47,80

**SCU**

**5234G 5**



Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14	16
<b>5234G 6</b>	<b>Each</b>	34,40	33,20	33,20	33,20	33,20	35,80	35,80	37,10

Width	mm	18	20	22	25	30	35	40
<b>5234G 6</b>	<b>Each</b>	37,10	38,30	40,60	43,10	47,80	53,80	59,70

**SCU**

**5234G 6**



Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14	16
<b>5234G 7</b>	<b>Each</b>	34,40	33,20	33,20	33,20	33,20	35,80	35,80	37,10

Width	mm	18	20	22	25	30	35	40
<b>5234G 7</b>	<b>Each</b>	37,10	38,30	40,60	43,10	47,80	53,80	59,70

**SCU**

**5234G 7**



Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14	16
<b>5234G 8</b>	<b>Each</b>	34,40	33,20	33,20	33,20	33,20	35,80	35,80	37,10

Width	mm	18	20	22	25	30	35	40
<b>5234G 8</b>	<b>Each</b>	37,10	38,30	40,60	44,60	47,80	53,80	59,70

**SCU**

**5234G 8**



Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
<b>5234G 9</b>	<b>Each</b>	36,80	35,60	35,60	35,60	35,60	38,20	38,20

Width	mm	16	18	20	22	25
<b>5234G 9</b>	<b>Each</b>	40,60	40,60	43,10	47,80	52,60

**SCU**

**5234G 9**



Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
<b>5234G 10</b>	<b>Each</b>	36,80	35,60	35,60	35,60	35,60	38,20	38,20

Width	mm	16	18	20	22	25
<b>5234G 10</b>	<b>Each</b>	40,60	40,60	43,10	47,80	52,60

**SCU**

**5234G 10**



**5234G 11** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 11	Each	36,80	35,60	35,60	35,60	35,60	38,20	38,20
Width	mm	16	18	20	22	25		
5234G 11	Each	40,60	40,60	43,10	47,80	52,60		

**5234G 12** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 12	Each	34,40	33,20	33,20	33,20	33,20	35,80	35,80
Width	mm	16	18	20				
5234G 12	Each	37,10	37,10	38,30				

**5234G 13** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 13	Each	34,40	33,20	33,20	33,20	33,20	35,80	35,80
Width	mm	16	18	20				
5234G 13	Each	37,10	37,10	38,30				

**5234G 14** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 14	Each	34,40	33,20	33,20	33,20	33,20	35,80	35,80
Width	mm	16	18	20				
5234G 14	Each	37,10	37,10	38,30				

**5234G 15** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 15	Each	36,80	35,60	35,60	35,60	35,60	38,20	38,20
Width	mm	16	18	20				
5234G 15	Each	40,60	40,60	43,10				

**5234G 16** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 16	Each	36,80	35,60	35,60	35,60	35,60	38,20	38,20
Width	mm	16	18	20				
5234G 16	Each	40,60	40,60	43,10				

**5234G 17** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 17	Each	36,80	35,60	35,60	35,60	35,60	38,20	38,20
Width	mm	16	18	20				
5234G 17	Each	40,60	40,60	43,10				

**5234G 18** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 18	Each	39,10	38,10	38,10	38,10	38,10	40,60	40,60
Width	mm	16	18	20				
5234G 18	Each	43,10	43,10	45,40				

**5234G 19** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 19	Each	39,10	38,10	38,10	38,10	38,10	40,60	40,60
Width	mm	16	18	20				
5234G 19	Each	43,10	43,10	45,40				

**5234G 20** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 20	Each	39,10	38,10	38,10	38,10	38,10	40,60	40,60
Width	mm	16	18	20				
5234G 20	Each	43,10	43,10	45,40				

**5234G 21** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 21	Each	29,60	28,40	28,40	28,40	28,40	31,10	31,10
Width	mm	16						
5234G 21	Each	34,60						

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 22	Each	29,60	28,40	28,40	28,40	28,40	31,10	31,10

Width	mm	16
5234G 22	Each	34,60



5234G 22

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 23	Each	29,60	28,40	28,40	28,40	28,40	31,10	31,10

Width	mm	16
5234G 23	Each	34,60



5234G 23

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 24	Each	35,60	34,40	34,40	34,40	34,40	37,10	37,10

Width	mm	16
5234G 24	Each	38,20



5234G 24

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 25	Each	35,60	34,40	34,40	34,40	34,40	37,10	37,10

Width	mm	16
5234G 25	Each	38,20



5234G 25

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 26	Each	35,60	34,40	34,40	34,40	34,40	37,10	37,10

Width	mm	16
5234G 26	Each	38,20



5234G 26

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 27	Each	38,10	36,80	36,80	36,80	36,80	39,40	39,40

Width	mm	16
5234G 27	Each	41,80



5234G 27

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 28	Each	38,10	36,80	36,80	36,80	36,80	39,40	39,40

Width	mm	16
5234G 28	Each	41,80



5234G 28

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 29	Each	38,10	36,80	36,80	36,80	36,80	39,40	39,40

Width	mm	16
5234G 29	Each	41,80



5234G 29

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 30	Each	40,30	39,10	39,10	39,10	39,10	41,80	41,80

Width	mm	16
5234G 30	Each	44,10



5234G 30

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 31	Each	40,30	39,10	39,10	39,10	39,10	41,80	41,80

Width	mm	16
5234G 31	Each	44,10



5234G 31

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 32	Each	40,30	39,10	39,10	39,10	39,10	41,80	41,80

Width	mm	16
5234G 32	Each	44,10



5234G 32

**5234G 33** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 33	Each	32,30	31,30	31,30	31,30	31,30	33,30	33,30
Width	mm	16						
5234G 33	Each	34,40						

Product running out of stock.

**5234G 34** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 34	Each	36,80	35,60	35,60	35,60	35,60	38,20	38,20
Width	mm	16						
5234G 34	Each	39,40						

**5234G 35** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 35	Each	36,80	35,60	35,60	35,60	35,60	38,20	38,20
Width	mm	16						
5234G 35	Each	39,40						

**5234G 36** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 36	Each	39,10	38,10	38,10	38,10	38,10	40,60	40,60
Width	mm	16						
5234G 36	Each	43,10						

**5234G 37** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 37	Each	39,10	38,10	38,10	38,10	38,10	40,60	40,60
Width	mm	16						
5234G 37	Each	43,10						

**5234G 38** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 38	Each	39,10	38,10	38,10	38,10	38,10	40,60	40,60
Width	mm	16						
5234G 38	Each	43,10						

**5234G 39** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12	14
5234G 39	Each	39,10	38,10	38,10	38,10	38,10	47,70	47,70
Width	mm	16						
5234G 39	Each	52,50						

**5234G 40** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12
5234G 40	Each	42,70	41,50	41,50	41,50	41,50	52,50

**5234G 41** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12
5234G 41	Each	39,10	38,10	38,10	38,10	38,10	47,70

**5234G 42** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12
5234G 42	Each	42,70	41,50	41,50	41,50	41,50	52,50

**5234G 43** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12
5234G 43	Each	43,90	42,70	42,70	42,70	42,70	54,90

**5234G 44** SCU

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12
5234G 44	Each	43,90	42,70	42,70	42,70	42,70	54,90

Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12
<b>5234G 45</b>	Each	39,10	38,10	38,10	38,10	38,10	47,70



Product description as Art. 5234G 1

Width	mm	2	4	6	8	10	12
<b>5234G 46</b>	Each	42,70	41,50	41,50	41,50	41,50	52,50

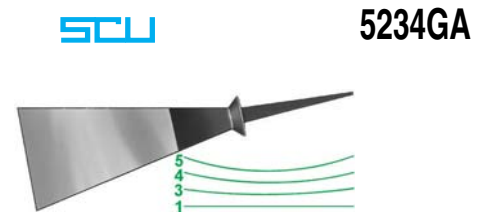


Suited to sculptors. Wide dimensions.

In alloyed steel. Hardened, finely ground and polished.

Swiss-type.

Shape	mm	1	1	1*	3	3	3*	4
<b>5234GA</b>	Each	79,30	104,00	116,00	104,00	111,00	124,00	104,00



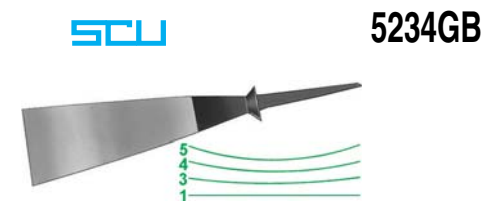
Shape	mm	4	4*	5	5	5*
<b>5234GA</b>	Each	111,00	124,00	104,00	111,00	124,00

\* Sizes running out of stock.

Product description as Art. 5234GA

Tiroler-type.

Shape	mm	1	1	1*	3	3	3*	4
<b>5234GB</b>	Each	91,20	119,00	135,00	119,00	127,00	143,00	119,00



Shape	mm	4	4*	5	5	5*
<b>5234GB</b>	Each	127,00	143,00	119,00	127,00	143,00

\* Sizes running out of stock.

**SETS OF SCULPTOR'S GOUGES**

**Prod. SCU**

In alloyed steel. Finely polished working parts.

Accurately hardened for a long lasting cutting edge.

Suited to sculptors.

Supplied in robust holding bag.

8-pcs sets.

Each set contains gouges Art. 5234 G with handle.

Shape/cut width: 1/10 - 2/12 - 5/14 - 8/6 - 10/4 - 11/2 - 11/8 - 39/6.

<b>5234GL</b>	Each	322,00
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Product description as Art. 5234GL

12-pcs. sets.

Each set contains gouges Art. 5234 G with handle.

Shape/cut width: 1/6 - 1/16 - 2/14 - 4/8 - 6/10 - 7/12 - 8/4 - 8/14 - 9/10 - 11/2 - 11/8 - 39/6.

<b>5234GP</b>	Each	475,00
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Product description as Art. 5234GL

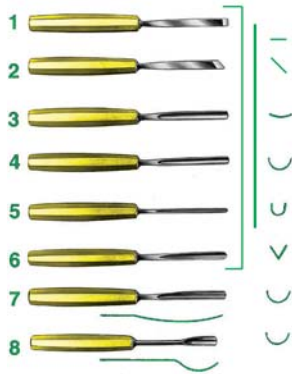
24-pcs sets.

Each set contains gouges Art. 5234 G with handle.

Shape/cut width: 1/4 - 1/6 - 1/10 - 1/16 - 1/20 - 2/18 - 3/6 - 3/14 - 5/4 - 5/8 - 5/14 - 5/20 - 7/2 - 7/6 - 7/12 - 7/18 - 8/4 - 8/10 - 8/16 - 11/2 - 11/4 - 11/8 - 39/4 - 39/8.

<b>5234GT</b>	Each	946,00
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**SCULPTOR'S GOUGES WITH HANDLE**
**5235G SCU**

**Prod. SCU**

Extra-fine quality - Suited to sculptors.

Hardened steel, very accurate finish for very long lasting cutting edge.

Shape		1	1	1	1	1	2	2
Width	mm	2	4	6	8	10	2	4
<b>5235G</b>	<b>Each</b>	<b>19,10</b>	<b>19,10</b>	<b>19,10</b>	<b>19,10</b>	<b>19,10</b>	<b>19,10</b>	<b>19,10</b>
Shape		2	2	2	3	3	3	3
Width	mm	6	8	10	2	4	6	8
<b>5235G</b>	<b>Each</b>	<b>19,10</b>	<b>19,10</b>	<b>19,10</b>	<b>24,90</b>	<b>24,90</b>	<b>24,90</b>	<b>24,90</b>
Shape		3	4	4	4	4	4	5
Width	mm	10	2	4	6	8	10	2
<b>5235G</b>	<b>Each</b>	<b>24,90</b>	<b>24,90</b>	<b>24,90</b>	<b>24,90</b>	<b>24,90</b>	<b>24,90</b>	<b>30,30</b>
Shape		5	5	5	6	6	6	6
Width	mm	4	6	8	2	4	6	8
<b>5235G</b>	<b>Each</b>	<b>30,30</b>	<b>30,30</b>	<b>30,30</b>	<b>31,10</b>	<b>31,10</b>	<b>31,10</b>	<b>31,10</b>
Shape		7	7	7	7	7	8	8
Width	mm	2	4	6	8	10	2	4
<b>5235G</b>	<b>Each</b>	<b>30,20</b>	<b>30,20</b>	<b>30,20</b>	<b>30,20</b>	<b>30,20</b>	<b>31,30</b>	<b>31,30</b>
Shape		8	8	8				
Width	mm	6	8	10				
<b>5235G</b>	<b>Each</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>				

**WOODEN MALLETS FOR GOUGES**
**5236G SCU**

**Prod. SCU**

In precious wood, suited to be used with gouges.

Head Ø	mm	80	100
<b>5236G</b>	<b>Each</b>	<b>26,40</b>	<b>33,70</b>

**LINOLEUM CARVING TOOLS IN PLASTIC KIT**
**5237G SCU**

**Prod. SCU**

Suitable to cut linoleum and plastic materials and for wood sculptors.

Extra-fine quality steel, hardened. Supplied in bag.

Tools with handle.

Each kit contains 3 gouges and 1 knife

<b>5237G</b>	<b>Each</b>	<b>90,40</b>
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**5238G SCU**


Product description as Art. 5237G

Each kit contains 3 knives

<b>5238G</b>	<b>Each</b>	<b>42,20</b>
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**5238GA SCU**


Product description as Art. 5237G

Each kit contains 3 gouges, 3 blades and 1 abrasive sanding block

<b>5238GA</b>	<b>Each</b>	<b>127,00</b>
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**5239GA SCU**


Loose spare blades for sets Art. 5237 G, 5238 G and 5238 GA.

Knife with frontal cutting edge

<b>5239GA</b>	<b>Each</b>	<b>12,10</b>
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Product description as Art. 5239GA

Knife with straight side cutting edge.

<b>5239GB</b>	Each	<b>12,50</b>
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**SCU**

**5239GB**

Product description as Art. 5239GA

Knife with narrow side cutting edge.

<b>5239GC</b>	Each	<b>14,30</b>
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**SCU**

**5239GC**

Product description as Art. 5239GA

Knife with double cutting edge.

<b>5239GD</b>	Each	<b>17,80</b>
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**SCU**

**5239GD**

Product description as Art. 5239GA

Knife with oblique cutting edge.

<b>5239GE</b>	Each	<b>10,90</b>
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**SCU**

**5239GE**
**TOOL HANDLES**
**Prod. SCU**

Made of wood, for sculptors' and carvers' gouges.

Overall length	mm	<b>130</b>
<b>5239P</b>	Each	<b>1,00</b>

**SCU**

**5239P**

Product running out of stock.

Made of wood. With metal double ring nut.

Overall length	mm	<b>130</b>	<b>140</b>	<b>150</b>
<b>5239T</b>	Each	<b>1,04</b>	<b>1,08</b>	<b>1,22</b>

**SCU**

**5239T**
**CLAMPING PINNERS**
**Prod. SCU**

In stamped steel plate. Spring rapid closing system. Fiber-coated jaws.

Overall length	mm	<b>110</b>	<b>155</b>
Useful opening	mm	32	55
<b>5240G</b>	Each	<b>1,62</b>	<b>2,36</b>

**SCU**

**5240G**

Sturdy body made from synthetic material reinforced with fibreglass.

Progressive closing mechanism and quick opening lever. Toothed jaws (only size 230mm) with mobile plates.

Overall length	mm	<b>180</b>	<b>230</b>
Useful opening	mm	0 to 50	0 to 75
<b>5240GE</b>	Each	<b>13,60</b>	<b>15,70</b>

**SCU**

**5240GE**
**WELDING BAR CLAMPS**
**Prod. SCU**

Model for clamping and opening, with mobile jaw installed on the side opposite to the bar.

One-hand use. Big clamping force (max 1764 N) with little effort thanks to rack movement.

Sturdy body in synthetic material reinforced with glass fibers. Steel bar, ribbed, Caps in synthetic material protect work surface.

Throat 85mm. Bar cross section 19x5mm.

Useful opening	mm	<b>150</b>	<b>300</b>	<b>450</b>	<b>600</b>
<b>5241G</b>	Each	<b>26,20</b>	<b>29,10</b>	<b>32,10</b>	<b>36,10</b>

**SCU**

**5241G**

**WELDING BAR CLAMPS**
**5242G** 

**Prod. SCU**

Heavy construction.  
Hardened steel bar. High resistance cast arms.  
Hole to place cables in the fixed bar.  
Locking thumb screw. Up to 600 A.

Useful opening	mm	150
Depth	mm	65
Rod section	mm	30x8

<b>5242G</b>	Each	<b>27,50</b>
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**BAR CLAMPS**
**5243T** 

**Prod. SCU**

Model with an optimal price/quality ratio.  
In rolled steel. Slider grip.

Useful opening	mm	200	300	400	500	600	800	1000
Depth	mm	70	80	80	80	120	120	120
Rod section	mm	25x6	30x6	30x6	30x6	35x7	35x7	40x7
<b>5243T</b>	Each	<b>8,98</b>	<b>10,10</b>	<b>12,60</b>	<b>18,20</b>	<b>19,90</b>	<b>24,10</b>	<b>29,10</b>

Useful opening	mm	1200	1500	2000
Depth	mm	120	120	120
Rod section	mm	40x7	40x8	40x8
<b>5243T</b>	Each	<b>33,90</b>	<b>39,70</b>	<b>65,10</b>

**5244** 

**Prod. SCU - Art. Mod. ALFA**

In rolled forged steel. Slider grip.

Useful opening	mm	200	300	400	500	600	800	1000
Depth	mm	80	90	90	100	100	100	110
Rod section	mm	25x6	30x6	30x6	35x7	35x7	35x7	40x7
<b>5244</b>	Each	<b>22,60</b>	<b>26,40</b>	<b>28,10</b>	<b>35,30</b>	<b>37,70</b>	<b>43,20</b>	<b>56,80</b>

Useful opening	mm	1200	1500	2000
Depth	mm	110	110	110
Rod section	mm	40x7	40x7	40x8
<b>5244</b>	Each	<b>61,60</b>	<b>76,40</b>	<b>105,00</b>

**UNIVERSAL STEEL BAR CLAMPS**
**5244GA** 

**Orig. Kanca**

Excellent clamping performance, max stiffness.

Flat bar in hardened steel, side knurled. Arms in forged steel.

Wooden handle. Throat 120mm. Bar cross section 35x11mm. Reachable pressure with 150mm opening: approx. 15000 N (1500 Kg) equivalent to 50 Nm torque value.

Useful opening	mm	200	250	300	400	500	600	800
<b>5244GA</b>	Each	<b>30,60</b>	<b>31,70</b>	<b>32,80</b>	<b>35,10</b>	<b>37,30</b>	<b>39,50</b>	<b>44,10</b>

Useful opening	mm	1000	1200	1500	2000
<b>5244GA</b>	Each	<b>48,50</b>	<b>53,10</b>	<b>59,80</b>	<b>71,10</b>

**5244GE** 


Product description as Art. 5244GA

Sliding grip. Throat 120mm. Bar cross section 35x11mm. Reachable pressure with 150mm opening: approx. 15000 N (1500 Kg) equivalent to 50 Nm torque value.

Useful opening	mm	200	250	300	400	500	600	800
<b>5244GE</b>	Each	<b>30,60</b>	<b>31,70</b>	<b>32,80</b>	<b>35,10</b>	<b>37,30</b>	<b>39,50</b>	<b>44,10</b>

Useful opening	mm	1000	1200	1500	2000
<b>5244GE</b>	Each	<b>48,50</b>	<b>53,10</b>	<b>59,80</b>	<b>71,10</b>

**Prod. SCU**

In forged hardened steel, profiled bar.  
 Quick adjusting tightening device with clamp and mobile clamping surface.  
 Tested at high clamping pressure.  
 Totally galvanized, burnished clamp screws.

With wooden handle.

Useful opening	mm	<b>120</b>	<b>160</b>	<b>200</b>	<b>250</b>	<b>300</b>	<b>400</b>	<b>500</b>
Depth	mm	60	80	100	120	140	120	120
Rod section	mm	13,5x6,5	16x7,5	19,5x9,5	22x10,5	25x12	25x12	25x12
Tightening force	N	1000	2500	4000	5500	6500	7500	7500
<b>5245G</b>	<b>Each</b>	<b>18,70</b>	<b>23,40</b>	<b>29,60</b>	<b>36,10</b>	<b>45,00</b>	<b>52,40</b>	<b>56,30</b>

Useful opening	mm	<b>600</b>	<b>800</b>	<b>1000</b>
Depth	mm	120	120	120
Rod section	mm	25x12	27x13	27x13
Tightening force	N	7500	8500	8500
<b>5245G</b>	<b>Each</b>	<b>60,30</b>	<b>73,70</b>	<b>83,40</b>



**5245G**

Product description as Art. 5245G

Ergonomic handle in plastic material, articulated, joining the advantages of a fixed wooden handle and of a lever handle.

Useful opening	mm	<b>250</b>	<b>300</b>	<b>400</b>	<b>600</b>
Depth	mm	120	140	120	120
Rod section	mm	22x10,5	25x12	25x12	25x12
Tightening force	N	5000	6000	7500	7500
<b>5245GB</b>	<b>Each</b>	<b>40,10</b>	<b>49,70</b>	<b>53,30</b>	<b>62,10</b>

Product running out of stock.



**5245GB**
**Orig. Gedore - Art. TGP**

Product description as Art. 5245G

With ergonomic wooden handle, articulated, joining the advantages of a fixed wooden handle and of a lever handle.

Useful opening	mm	<b>250</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>	<b>800</b>	<b>1000</b>
Depth	mm	120	140	120	120	120	120	120
Rod section	mm	22x11	25x12	25x12	25x12	25x12	28x14	28x14
Tightening force	N	5500	6500	7500	7500	7500	8500	8500
<b>5245GE</b>	<b>Each</b>	<b>45,40</b>	<b>52,20</b>	<b>54,30</b>	<b>59,30</b>	<b>60,10</b>	<b>75,60</b>	<b>87,30</b>

Useful opening	mm	<b>1200</b>
Depth	mm	120
Rod section	mm	28x14
Tightening force	N	8500
<b>5245GE</b>	<b>Each</b>	<b>97,30</b>

Product running out of stock.



**5245GE**
**Prod. SCU**

Product description as Art. 5245G

Slider grip and turned plate (except size 160mm).

Useful opening	mm	<b>160</b>	<b>200</b>	<b>250</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>
Depth	mm	80	100	120	140	120	120	120
Rod section	mm	16x7,5	19,5x9,5	22x10,5	25x12	25x12	25x12	25x12
Tightening force	N	2500	4000	5500	6500	7500	7500	7500
<b>5245GM</b>	<b>Each</b>	<b>22,60</b>	<b>29,30</b>	<b>35,10</b>	<b>44,70</b>	<b>50,60</b>	<b>54,40</b>	<b>58,30</b>

Useful opening	mm	<b>800</b>	<b>1000</b>	<b>1250</b>	<b>1500</b>
Depth	mm	120	120	120	120
Rod section	mm	27x13	27x13	27x13	27x13
Tightening force	N	8500	8500	8500	8500
<b>5245GM</b>	<b>Each</b>	<b>71,80</b>	<b>81,40</b>	<b>105,00</b>	<b>117,00</b>



**5245GM**

**5245GME**

**Orig. Kanca**

In forged and hardened steel, profiled bar.  
Quick adjusting tightening device with clamp and mobile interchangeable clamping surface.  
Tested at very high clamping pressure.  
Totally galvanized, burnished clamp screws.

Sliding grip.

Reinforced model.

Throat 140mm. Bar cross section 30x15mm. Reachable pressure with 150mm opening: approx. 15000 N (1500 Kg) equivalent to 50 Nm torque value.

Useful opening	mm	<b>200</b>	<b>250</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>	<b>800</b>
Weight	Kg	2,5	2,8	3	3,4	3,7	4,1	4,7
<b>5245GME</b>	<b>Each</b>	<b>46,10</b>	<b>48,10</b>	<b>50,20</b>	<b>54,30</b>	<b>58,70</b>	<b>62,80</b>	<b>71,40</b>

Useful opening	mm	<b>1000</b>	<b>1200</b>
Weight	Kg	5,2	5,7
<b>5245GME</b>	<b>Each</b>	<b>79,50</b>	<b>83,80</b>

**5245GP**

**Prod. SCU**

In forged and hardened steel, profiled bar. Quick adjusting tightening device with rolled hardened screw.

Interchangeable mobile clamping surface.

Reinforced model. Throat: 120mm. Bar cross section 27x13mm. Reachable pressure with 150mm opening: approx. 8500 N (850 kg).

Useful opening	mm	<b>200</b>	<b>250</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>	<b>800</b>
Weight	Kg	2,00	2,11	2,24	2,45	2,70	2,96	3,5
<b>5245GP</b>	<b>Each</b>	<b>59,40</b>	<b>62,10</b>	<b>64,10</b>	<b>69,10</b>	<b>73,70</b>	<b>78,80</b>	<b>86,60</b>

Useful opening	mm	<b>1000</b>
Weight	Kg	3,9
<b>5245GP</b>	<b>Each</b>	<b>97,00</b>

**5245GR**



In forged and hardened steel, profiled bar.

Quick adjusting tightening device with rolled hardened screw provided with hexagon to be operated also with torque wrenches.

Interchangeable mobile clamping surface.

Reinforced model. Bar cross section 30x15mm. Reachable pressure with 150mm opening: approx. 12000 N (1200 kg) equivalent to 40Nm torque value.

Useful opening	mm	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>	<b>800</b>	<b>1000</b>	<b>1250</b>
Depth	mm	140	120	140	120	140	120	120
Weight	Kg	3,00	3,20	3,70	3,90	4,60	5,10	6,00
<b>5245GR</b>	<b>Each</b>	<b>77,70</b>	<b>83,40</b>	<b>92,10</b>	<b>96,30</b>	<b>111,00</b>	<b>121,00</b>	<b>139,00</b>

Useful opening	mm	<b>1500</b>
Depth	mm	120
Weight	Kg	6,60
<b>5245GR</b>	<b>Each</b>	<b>156,00</b>

**5245GS**



Product description as Art. 5245GR

Reinforced model. Throat: 175mm. Bar cross section 40x20mm. Reachable pressure with 150mm opening: approx. 22000 N (2200 kg) equivalent to 80Nm torque value.

Useful opening	mm	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>	<b>800</b>	<b>1000</b>	<b>1250</b>
Weight	Kg	5,50	6,10	6,60	7,20	8,30	9,40	10,80
<b>5245GS</b>	<b>Each</b>	<b>117,00</b>	<b>129,00</b>	<b>140,00</b>	<b>152,00</b>	<b>163,00</b>	<b>194,00</b>	<b>226,00</b>

Useful opening	mm	<b>1500</b>
Weight	Kg	12,10
<b>5245GS</b>	<b>Each</b>	<b>253,00</b>

**UNIVERSAL STEEL BAR CLAMPS, QUICK LOCKING**

**Orig. Kanca**

In forged and hardened steel, profiled bar. For rapid locking.  
 Rack clamping with toothed bar.  
 Highest strength even in case of vibrations.



**5245GSE**

Useful opening	mm	160	200	250	300	400	500	600
Depth	mm	80	100	120	140	120	120	120
Rod section	mm	16x7,5	19,5x9,5	22x10,5	25x12	25x12	25x12	25x12
Tightening force	N	2300	3500	4500	5000	5500	5500	5500
<b>5245GSE</b>	<b>Each</b>	<b>31,10</b>	<b>44,10</b>	<b>50,80</b>	<b>62,80</b>	<b>65,90</b>	<b>69,40</b>	<b>72,30</b>

Useful opening	mm	800	1000
Depth	mm	120	120
Rod section	mm	27x13	27x13
Tightening force	N	6000	6000
<b>5245GSE</b>	<b>Each</b>	<b>83,90</b>	<b>92,90</b>

For snap-on clamps see Art. 429 GT-V.

**Orig. Gedore - Art. TGE**

Product description as Art. 5245GSE



**5245GT**

Useful opening	mm	160	600	800	1000
Depth	mm	80	120	120	120
Rod section	mm	16x8	25x12	28x14	28x14
Tightening force	N	2300	5500	6000	6000
<b>5245GT</b>	<b>Each</b>	<b>61,70</b>	<b>113,00</b>	<b>126,00</b>	<b>135,00</b>

Product running out of stock.

**Prod. SCU - Orig. Synchro - Lock**

Totally in forged and hardened steel, with profiled bar.  
 Ratchet-type clamping device, double release (lever and button) for an easier upper and lower bracketing. Safe location of the device for highest finger protection. Rapid screw clamp closing and opening with little effort.



**5245GV**

Highest tightening even in case of vibrations.

Useful opening	mm	250	300	400	500	600
Depth	mm	120	120	120	120	120
Rod section	mm	25x12	25x12	25x12	25x12	25x12
<b>5245GV</b>	<b>Each</b>	<b>42,90</b>	<b>47,60</b>	<b>53,30</b>	<b>57,40</b>	<b>59,60</b>

Product running out of stock.

**Prod. SCU**

With Ø 12 mm hole on the support base for mounting on the work surface.  
 Made of forged and hardened steel, with profiled bar. For quick locking  
 Tightening mechanism with rack and gear lever. Maximum durability also in the presence of vibration.



**5245GVE**

Useful opening	mm	200
Depth	mm	100
Rod section	mm	21x10
Tightening force	N	3500
<b>5245GVE</b>	<b>Each</b>	<b>237,00</b>

Product running out of stock.

**UNIVERSAL IRON BAR CLAMPS**

**Prod. SCU**

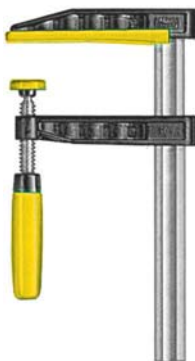
Flat rod in hardened steel, side knurled.  
 Malleable cast iron arms. Wooden handle.  
 Caps in synthetic material protect clamping surface.



**5245GZ**

Useful opening	mm	100	150	200	250	300	400	500
Depth	mm	50	50	80	80	80	80	80
Rod section	mm	15x5	15x5	22x6	22x6	22x6	22x6	22x6
<b>5245GZ</b>	<b>Each</b>	<b>8,02</b>	<b>8,18</b>	<b>12,20</b>	<b>12,70</b>	<b>13,20</b>	<b>14,10</b>	<b>15,10</b>

**12**

**5246G** 


Forged and hardened bar, profiled and side knurled for highest strength.

Ribbed arms in high resistance cast iron GTW 40. Wooden handle.

Caps in syntheric material protect work surface.

Type		<b>400L</b>	<b>500</b>	<b>1000</b>			
Useful opening	mm	400	500	1000			
Depth	mm	120	100	120			
Rod section	mm	29x9	27x7	29x9			
<b>5246G</b>	<b>Each</b>	<b>26,40</b>	<b>25,40</b>	<b>37,60</b>			

Product running out of stock.

**5246GA** 


Forged and hardened bar, profiled and side knurled for highest strength.

High resistance cast iron arms. Wooden handle.

Caps in syntheric material protect work surface.

Useful opening	mm	<b>160</b>	<b>200</b>	<b>250</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>
Depth	mm	80	120	120	120	120	120	120
Rod section	mm	22x6	30x8	30x8	30x8	30x8	30x8	30x8
Tightening force	N	3500	4500	4500	4500	4500	4500	4500
<b>5246GA</b>	<b>Each</b>	<b>26,70</b>	<b>44,40</b>	<b>45,20</b>	<b>48,90</b>	<b>53,10</b>	<b>57,10</b>	<b>60,80</b>
Useful opening	mm	<b>800</b>	<b>1000</b>					
Depth	mm	120	120					
Rod section	mm	30x8	30x8					
Tightening force	N	4500	4500					
<b>5246GA</b>	<b>Each</b>	<b>68,20</b>	<b>76,40</b>					

**5246GC** 


According to DIN 5117.

Forged and hardened bar, profiled and side knurled for highest strength.

High resistance cast iron arms. Ergonomic handle in dual component material.

Caps in syntheric material protect work surface.

Useful opening	mm	<b>120</b>	<b>160</b>	<b>200</b>	<b>250</b>	<b>300</b>	<b>400</b>	<b>500</b>
Depth	mm	65	80	100	120	140	120	120
Rod section	mm	22x6	22x6	30x8	30x8	35x9	35x11	35x11
Tightening force	N	3500	5000	5000	5000	5000	7500	7500
<b>5246GC</b>	<b>Each</b>	<b>23,90</b>	<b>28,10</b>	<b>39,10</b>	<b>47,30</b>	<b>59,20</b>	<b>66,20</b>	<b>72,30</b>
Useful opening	mm	<b>600</b>	<b>800</b>	<b>1000</b>	<b>1250</b>	<b>1500</b>	<b>2000</b>	
Depth	mm	120	120	120	120	120	120	
Rod section	mm	35x11	35x11	35x11	35x11	35x11	35x11	
Tightening force	N	7500	7500	7500	7500	7500	7500	
<b>5246GC</b>	<b>Each</b>	<b>76,40</b>	<b>86,30</b>	<b>96,20</b>	<b>105,00</b>	<b>115,00</b>	<b>140,00</b>	

**5246GE** 


Forged and hardened bar, side knurled for highest strength.

Ribbed arms in high resistance cast iron GTW 40. Slider grip.

Caps in syntheric material protect work surface.

Throat: 120mm. Bar cross section: 29x9mm.

Useful opening	mm	<b>1000</b>
<b>5246GE</b>	<b>Each</b>	<b>41,30</b>

Product running out of stock.

According to DIN 5117.

Forged and hardened bar, profiled and side knurled for highest strength.

High resistance cast iron arms. With sliding bar handle.

Caps in synthetic material protect work surface.

Useful opening	mm	<b>160</b>	<b>200</b>	<b>250</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>
Depth	mm	80	100	120	140	120	120	120
Rod section	mm	22x6	30x8	30x8	35x9	35x11	35x11	35x11
Tightening force	N	5000	5000	5000	5000	7500	7500	7500
<b>5246GF</b>	<b>Each</b>	<b>28,10</b>	<b>39,10</b>	<b>47,30</b>	<b>59,20</b>	<b>64,90</b>	<b>72,30</b>	<b>74,40</b>

Useful opening	mm	<b>800</b>	<b>1000</b>	<b>1250</b>	<b>1500</b>	<b>2000</b>
Depth	mm	120	120	120	120	120
Rod section	mm	35x11	35x11	35x11	35x11	35x11
Tightening force	N	7500	7500	7500	7500	7500
<b>5246GF</b>	<b>Each</b>	<b>83,40</b>	<b>96,20</b>	<b>101,00</b>	<b>115,00</b>	<b>140,00</b>



**5246GF**

Flat rod, large cross section bar, forged and hardened steel, side knurled for highest strength.

Ribbed arms in high resistance cast iron.

With sliding bar handle.

Type		<b>400</b>	<b>400A</b>	<b>600</b>	<b>600A</b>	<b>800</b>	<b>800A</b>	<b>1000</b>
Useful opening	mm	400	400	600	600	800	800	1000
Depth	mm	250	400	250	400	300	400	300
Rod section	mm	45x12	45x12	45x12	45x12	45x12	45x12	45x12
Tightening force	N	8000	8000	8000	8000	8000	8000	8000
<b>5246GL</b>	<b>Each</b>	<b>82,90</b>	<b>143,00</b>	<b>93,80</b>	<b>155,00</b>	<b>117,00</b>	<b>166,00</b>	<b>129,00</b>

Type		<b>1000A</b>
Useful opening	mm	1000
Depth	mm	400
Rod section	mm	45x12
Tightening force	N	8000
<b>5246GL</b>	<b>Each</b>	<b>182,00</b>



**5246GL**

Forged and hardened bar, side knurled for highest strength.

Ribbed arms in high resistance cast iron GTW 40. Slider grip.

Caps in synthetic material protect work surface.

Throat: 140mm. Bar cross section: 32x10mm.

Useful opening	mm	<b>600</b>	<b>800</b>	<b>1000</b>
<b>5246GM</b>	<b>Each</b>	<b>41,70</b>	<b>47,10</b>	<b>52,60</b>

Product running out of stock.



**5246GM**

### U-STEEL BAR CLAMPS

**Prod. SCU**

Suitable to tighten bulky workpieces. Slider grip. In forged and hardened steel, profiled bar. Quick

adjusting tightening device with clamp and mobile, reinforced and interchangeable clamping

surface. Totally galvanized, burnished clamp screws.

Particularly suitable for carpentry, welding, building, etc.

Useful opening	mm	<b>250</b>
Depth	mm	120
Rod section	mm	22x11
<b>5249GE</b>	<b>Each</b>	<b>62,10</b>

Product running out of stock.



**5249GE**

**5249GF****SCU**

Heavy construction.

Suitable to tighten bulky workpieces. Slider grip. In forged and hardened steel, profiled bar. Quick adjusting tightening device with clamp and reinforced adjustable mobile clamping surface. Totally galvanized, burnished clamp screws provided with hexagon to be operated also with torque wrenches.

Particularly suitable for carpentry, welding, building, etc.

Type		300	300A	400	500	500A
Useful opening	mm	300	300	400	500	500
Depth	mm	120	175	175	120	175
Rod section	mm	30x15	40x20	40x20	30x15	40x20
<b>5249GF</b>	<b>Each</b>	<b>98,10</b>	<b>173,00</b>	<b>185,00</b>	<b>110,00</b>	<b>194,00</b>

Product running out of stock.

**CLAMPS****5249GT****SCU****Prod. SCU**

High resistance cast iron arc. Rolled and hardened screws with sliding bars.

Wide clamping surface with protection caps in synthetic material.

Working opening: 70mm, depth: 60mm.

<b>5249GT</b>	<b>Each</b>	<b>98,10</b>
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Product running out of stock.

**CLAMPS****5256G****SCU****Prod. SCU**

High resistance cast iron body, enamelled.

Clamp screw with bolster.

Useful opening	mm	50	75	100	150	200
Depth	mm	30	52	60	75	83
<b>5256G</b>	<b>Each</b>	<b>7,90</b>	<b>15,80</b>	<b>19,30</b>	<b>33,20</b>	<b>47,30</b>

**5256GE****KANCA****Orig. Kanca**

Body made from extra-strong cast steel, enamelled. Sturdy construction.

Clamp screw with bolster.

Heavy duty.

Useful opening	mm	50	100	150	200	250	300
Depth	mm	39	60	70	77	92	93
Weight	Kg	1,2	1,5	1,8	2,1	3,2	3,6
<b>5256GE</b>	<b>Each</b>	<b>37,10</b>	<b>43,50</b>	<b>47,80</b>	<b>54,40</b>	<b>69,60</b>	<b>78,20</b>

**5256GP****KANCA**

Body in forged steel, enamelled. Very sturdy construction, unbendable.

Clamp screw with bolster.

Heavy duty.

Useful opening	mm	60	100	150	200	250
Weight	Kg	1,1	1,4	1,7	2,5	3,1
Depth	mm	55	65	95	105	115
<b>5256GP</b>	<b>Each</b>	<b>37,10</b>	<b>43,50</b>	<b>47,80</b>	<b>54,40</b>	<b>69,60</b>

**5256GR****SCU****Prod. SCU**

Body in forged steel, galvanized. Extra sturdy and heavy.

Trapezoidal threading clamp screw, with bolster.

Reinforced body and high quality steel assure a perfect, indeformable and long lasting tightening.

Useful opening	mm	35	60	90	125	160	200
Weight	Kg	0,4	0,9	1,6	3,2	5,5	9,6
Depth	mm	40	50	60	90	100	120
<b>5256GR</b>	<b>Each</b>	<b>28,10</b>	<b>55,40</b>	<b>71,80</b>	<b>130,00</b>	<b>227,00</b>	<b>336,00</b>

Size 35mm with round-shaped arc and locking wing nut, painted.



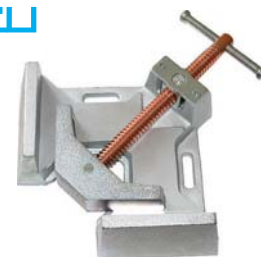
**WELDING CLAMPS**

**Prod. SCU**

Body in special cast iron, hardened steel screw, burnished, sliding jaw.  
Suitable for 90° pipe and all kind of metal profile welding.  
Clamping strength up to 60mm. Weight: 4kg.

**SCU**

**5257GA**



<b>5257GA</b>	Each	<b>256,00</b>
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Body in special cast iron, galvanized screw.  
Suitable for 90° pipe and all kind of metal profile welding.

**SCU**

**5258G**



Size		<b>1</b>	<b>2</b>
Tightening capacity up to	mm	50	100
Weight	Kg	1,4	2,6
<b>5258G</b>	Each	<b>197,00</b>	<b>303,00</b>

**CARPENTER'S BENCH SCREWS**

**Prod. SCU**

Forged. Square threaded screws.

**SCU**

**5260**



Screw Ø	mm	<b>22</b>	<b>24</b>	<b>26</b>	<b>30</b>
Overall length	mm	350	400	400	400
<b>5260</b>	Each	<b>74,90</b>	<b>81,10</b>	<b>87,60</b>	<b>107,00</b>

**GRINDING WHEELS**

**Orig. H. Sebald**

In electrocorindon. COLOUR: GREY.



**7000G**

High quality grinding wheels suitable for all workshop applications. Suited for iron, rolled steel, forged steel, cast steel, semisteel cast iron, malleable cast iron.

Grade: G (coarse 36/specific 10A36PVS) - M (medium 60/specific 10A60NVS) - F (fine 80/specific 10A80MVS).

Middle hardness.

Ø and thickness	mm	<b>100x16</b>	<b>100x16</b>	<b>125x16</b>	<b>125x16</b>	<b>125x20</b>	<b>125x20</b>	<b>150x20</b>
Grain		<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>G</b>
Bore Ø	mm	13	13	16	16	16	16	16
<b>7000G</b>	Each	<b>10,20</b>	<b>10,20</b>	<b>14,90</b>	<b>14,90</b>	<b>15,90</b>	<b>15,90</b>	<b>19,80</b>
Ø and thickness	mm	<b>150x20</b>	<b>150x20</b>	<b>150x25</b>	<b>150x25</b>	<b>150x25</b>	<b>175x25</b>	<b>175x25</b>
Grain		<b>M</b>	<b>F</b>	<b>G</b>	<b>M</b>	<b>F</b>	<b>G</b>	<b>M</b>
Bore Ø	mm	16	16	16	16	16	20	20
<b>7000G</b>	Each	<b>19,80</b>	<b>19,80</b>	<b>23,10</b>	<b>23,10</b>	<b>23,10</b>	<b>29,50</b>	<b>29,50</b>
Ø and thickness	mm	<b>175x25</b>	<b>200x20</b>	<b>200x20</b>	<b>200x20</b>	<b>200x25</b>	<b>200x25</b>	<b>200x25</b>
Grain		<b>F</b>	<b>G</b>	<b>M</b>	<b>F</b>	<b>G</b>	<b>M</b>	<b>F</b>
Bore Ø	mm	20	20	20	20	20	20	20
<b>7000G</b>	Each	<b>29,50</b>	<b>31,60</b>	<b>31,60</b>	<b>31,60</b>	<b>38,20</b>	<b>38,20</b>	<b>38,20</b>
Ø and thickness	mm	<b>200x30</b>	<b>200x30</b>	<b>200x30</b>	<b>250x25</b>	<b>250x25</b>	<b>250x25</b>	<b>250x30</b>
Grain		<b>G</b>	<b>M</b>	<b>F</b>	<b>G</b>	<b>M</b>	<b>F</b>	<b>G</b>
Bore Ø	mm	20	20	20	25	25	25	25
<b>7000G</b>	Each	<b>43,10</b>	<b>43,10</b>	<b>43,10</b>	<b>55,10</b>	<b>55,10</b>	<b>55,10</b>	<b>64,60</b>
Ø and thickness	mm	<b>250x30</b>	<b>250x30</b>	<b>300x30</b>	<b>300x30</b>	<b>300x40</b>	<b>300x40</b>	<b>350x40</b>
Grain		<b>M</b>	<b>F</b>	<b>G</b>	<b>M</b>	<b>G</b>	<b>M</b>	<b>G</b>
Bore Ø	mm	25	25	30	30	30	30	30
<b>7000G</b>	Each	<b>64,60</b>	<b>64,60</b>	<b>81,30</b>	<b>81,30</b>	<b>94,60</b>	<b>94,60</b>	<b>135,00</b>
Ø and thickness	mm	<b>350x40</b>	<b>400x40</b>	<b>400x40</b>	<b>400x50</b>	<b>400x50</b>	<b>500x50</b>	<b>500x50</b>
Grain		<b>M</b>	<b>G</b>	<b>M</b>	<b>G</b>	<b>M</b>	<b>G</b>	<b>M</b>
Bore Ø	mm	30	40	40	40	40	50	50
<b>7000G</b>	Each	<b>135,00</b>	<b>166,00</b>	<b>166,00</b>	<b>214,00</b>	<b>214,00</b>	<b>448,00</b>	<b>448,00</b>



7005



**Prod. SCU**

In electrocoridon. COLOUR: GREY.

High quality grinding wheels suitable for all workshop applications. Suited for iron, rolled steel, forged steel, cast steel, semisteel cast iron, malleable cast iron.

Grade: G (coarse 36/specific A36P5V) - M (medium 60/specific A60M5V) - F (fine 80/specific A80M5V). Medium hardness.

Ø and thickness	mm	100x16	100x16	125x16	125x16	125x20	125x20	150x20	150x20	150x20	150x25
Grain		M	F	M	F	M	F	G	M	F	G
Bore Ø	mm	13	13	16	16	16	16	16	16	16	16
<b>7005</b>	<b>Each</b>	5,32	5,32	9,58	9,58	10,50	10,50	12,70	12,70	12,70	15,80
Ø and thickness	mm	150x25	150x25	150x30	150x30	150x30	175x25	175x25	175x25	200x20	200x20
Grain		M	F	G	M	F	G	M	F	G	M
Bore Ø	mm	16	16	16	16	16	20	20	20	20	20
<b>7005</b>	<b>Each</b>	15,80	15,80	18,20	18,20	18,20	19,80	19,80	19,80	20,80	20,80
Ø and thickness	mm	200x20	200x25	200x25	200x25	200x30	200x30	200x30	250x25	250x25	250x25
Grain		F	G	M	F	G	M	F	G	M	F
Bore Ø	mm	20	20	20	20	20	20	20	25	25	25
<b>7005</b>	<b>Each</b>	20,80	22,20	22,20	22,20	31,90	31,90	31,90	41,20	41,20	41,20
Ø and thickness	mm	250x30	250x30	250x30	300x30*	300x30*	300x40*	300x40*			
Grain		G	M	F	G	M	G	M			
Bore Ø	mm	25	25	25	30	30	30	30			
<b>7005</b>	<b>Each</b>	52,70	52,70	52,70	88,80	88,80	104,00	104,00			

\* Sizes running out of stock.

7010G



**Orig. H. Sebald**

In electrocoridon. COLOUR: RED/BROWN.

High performance grinding wheels with high abrasive power. Suited to grind and sharpen hard steel, alloyed steel, hardened steel, cutting tools, hard and semisteel cast iron.

Grade: G (coarse 36/specific 31A36MVS) - M (medium 60/specific 31A60MVS) - F (fine 80/specific 31A80MVS1). Medium hardness.

Ø and thickness	mm	100x16	100x16	125x20	125x20	150x20	150x20	150x25
Grain		M	F	M	F	M	F	M
Bore Ø	mm	13	13	16	16	16	16	16
<b>7010G</b>	<b>Each</b>	11,60	11,60	18,40	18,40	22,10	22,10	26,20
Ø and thickness	mm	150x25	175x20	175x20	175x25	175x25	200x20	200x20
Grain		F	M	F	M	F	G	M
Bore Ø	mm	16	20	20	20	20	20	20
<b>7010G</b>	<b>Each</b>	26,20	28,10	28,10	33,50	33,50	34,80	34,80
Ø and thickness	mm	200x20	200x25	200x25	200x25	200x30	200x30	200x30
Grain		F	G	M	F	G	M	F
Bore Ø	mm	20	20	20	20	20	20	20
<b>7010G</b>	<b>Each</b>	34,80	42,80	42,80	42,80	48,40	48,40	48,40
Ø and thickness	mm	250x25	250x25	250x25	250x30	250x30	250x30	300x30
Grain		G	M	F	G	M	F	G
Bore Ø	mm	25	25	25	25	25	25	30
<b>7010G</b>	<b>Each</b>	61,80	61,80	61,80	72,40	72,40	72,40	90,90
Ø and thickness	mm	300x30	300x30	300x40	300x40	300x40	400x45	400x45
Grain		M	F	G	M	F	G	M
Bore Ø	mm	30	30	30	30	30	40	40
<b>7010G</b>	<b>Each</b>	90,90	90,90	106,00	106,00	106,00	213,00	213,00

7015



**Prod. SCU**

In electrocoridon. COLOUR: PINK.

High performance grinding wheels with high abrasive power. Suited to grind and sharpen hard steel, alloyed steel, hardened steel, cutting tools, hard and semisteel cast iron.

Grade: G (coarse 36/specific AR36P5V) - M (medium 60/specific AR60M5V) - F (fine 80/specific AR80M5V). Medium hardness.

Ø and thickness	mm	100x16	100x16	125x20	125x20	150x20	150x20	150x25	150x25
Grain		M	F	M	F	M	F	M	F
Bore Ø	mm	13	13	16	16	16	16	16	16
<b>7015</b>	<b>Each</b>	6,58	6,58	13,10	13,10	16,20	16,20	19,60	19,60
Ø and thickness	mm	175x20	175x20	175x25	175x25	200x20	200x20	200x20	200x25
Grain		M	F	M	F	G	M	F	G
Bore Ø	mm	20	20	20	20	20	20	20	20
<b>7015</b>	<b>Each</b>	20,50	20,50	24,60	24,60	25,90	25,90	25,90	28,10
Ø and thickness	mm	200x25	200x25	200x30	200x30	200x30	250x25	250x25	250x25
Grain		M	F	G	M	F	G	M	F
Bore Ø	mm	20	20	20	20	20	25	25	25
<b>7015</b>	<b>Each</b>	28,10	28,10	43,90	43,90	43,90	51,80	51,80	51,80
Ø and thickness	mm	250x30	250x30	250x30	300x30	300x30	300x30		
Grain		G	M	F	G	M	F		
Bore Ø	mm	25	25	25	30	30	30		
<b>7015</b>	<b>Each</b>	64,90	64,90	64,90	111,00	111,00	111,00		

Prices in EUFRO - VAT not included

**Orig. H. Sebald**

In silicon carbide. COLOUR: GREEN

Suitable for any kind of hard metals such as Widia and similar, copper, brass, aluminium and relative alloys.

Grade: M (medium 60/specific 10C60JVS) - F (fine 80/specific 10C80JVS).

Hardness: fond.

Ø and thickness	mm	125x20	125x20	150x20	150x20	150x25	150x25	200x20
Grain		M	F	M	F	M	F	M
Bore Ø	mm	16	16	16	16	16	16	20
<b>7020G</b>	<b>Each</b>	<b>21,30</b>	<b>21,30</b>	<b>26,20</b>	<b>26,20</b>	<b>30,70</b>	<b>30,70</b>	<b>41,40</b>
Ø and thickness	mm	200x20	200x25	200x25	200x30	200x30	250x25	250x25
Grain		F	M	F	M	F	M	F
Bore Ø	mm	20	20	20	20	20	25	25
<b>7020G</b>	<b>Each</b>	<b>41,40</b>	<b>50,60</b>	<b>50,60</b>	<b>57,40</b>	<b>57,40</b>	<b>73,30</b>	<b>73,30</b>
Ø and thickness	mm	250x30	250x30	300x30	300x30			
Grain		M	F	M	F			
Bore Ø	mm	25	25	30	30			
<b>7020G</b>	<b>Each</b>	<b>85,90</b>	<b>85,90</b>	<b>108,00</b>	<b>108,00</b>			



**7020G**



**Prod. SCU**

In silicon carbide. COLOUR: GREEN

Suitable for any kind of hard metals such as Widia and similar, copper, brass, aluminium and relative alloys.

Grade: M (medium 60/specific W60J8V) - F (fine 80/specific W80J8V).

Medium hardness.

Ø and thickness	mm	125x20	125x20	150x20	150x20	150x25	150x25	200x20
Grain		M	F	M	F	M	F	M
Bore Ø	mm	16	16	16	16	16	16	20
<b>7021</b>	<b>Each</b>	<b>20,20</b>	<b>20,20</b>	<b>20,80</b>	<b>20,80</b>	<b>24,90</b>	<b>24,90</b>	<b>32,20</b>
Ø and thickness	mm	200x20	200x25	200x25	200x30	200x30	250x25	250x25
Grain		F	M	F	M	F	M	F
Bore Ø	mm	20	20	20	20	20	25	25
<b>7021</b>	<b>Each</b>	<b>32,20</b>	<b>34,40</b>	<b>34,40</b>	<b>57,80</b>	<b>57,80</b>	<b>65,40</b>	<b>65,40</b>
Ø and thickness	mm	250x30	250x30	300x30	300x30			
Grain		M	F	M	F			
Bore Ø	mm	25	25	30	30			
<b>7021</b>	<b>Each</b>	<b>81,40</b>	<b>81,40</b>	<b>141,00</b>	<b>141,00</b>			



**7021**



Sizes 300 30M and 300 30F running out of stock.

**BEVELED GRINDING WHEELS**

**Orig. H. Sebald**

Special grinding wheels to sharpen belt saws.

Strongly abrasive. Rapid blade sharpening without overheating.

Grade: M (medium 60/specific 10A60HVS) - Medium hardness.

In electrocorindon: COLOUR: GREY.

Ø and thickness	mm	150x6	150x8	200x8	200x10	250x10
Bore Ø	mm	20	20	20	20	25
Grain		M	M	M	M	M
<b>7022G</b>	<b>Each</b>	<b>13,80</b>	<b>15,20</b>	<b>22,20</b>	<b>22,20</b>	<b>31,60</b>



**7022G**



Special grinding wheels to sharpen belt saws.

Strongly abrasive. Rapid blade sharpening without overheating.

Grade: M (medium 60/specific 31A60MVS) - Medium hardness.

In electrocorindon: COLOUR: RED/BROWN

Ø and thickness	mm	150x6	150x8	200x8	200x10	250x10
Bore Ø	mm	20	20	20	20	25
Grain		M	M	M	M	M
<b>7024G</b>	<b>Each</b>	<b>15,40</b>	<b>17,10</b>	<b>24,60</b>	<b>24,60</b>	<b>34,80</b>



**7024G**



Only Art. 7024 G 250x10 in white colour.

7026G



Special grinding wheels to sharpen belt saws.  
Strongly abrasive. Rapid blade sharpening without overheating.  
Grade: M (medium 60/specific 10C60JVS) - Medium hardness.  
In silicon carbide: COLOUR: GREEN

Ø and thickness	mm	150x6	150x8	200x8	200x10	250x10
Bore Ø	mm	20	20	20	20	25
Grain		M	M	M	M	M
<b>7026G</b>	<b>Each</b>	<b>18,50</b>	<b>20,30</b>	<b>29,20</b>	<b>29,20</b>	<b>41,40</b>

**GRINDING WHEELS**

7028G



**Orig. H. Sebald**  
DIN 69146. In electrocorindon. COLOUR: WHITE.  
Grinding wheels suited to sharpen and grind.  
Strongly abrasive without overheating.  
Grade: M (medium 60/specific 30A60MVS1) - F (fine 80/specific 30A80MVS1). Medium hardness.

Ø	mm	125	125	150	150	200	200
Grain		M	F	M	F	M	F
Bore Ø	mm	20	20	20	20	20	20
Thickness	mm	7	7	8	8	12	12
<b>7028G</b>	<b>Each</b>	<b>17,70</b>	<b>17,70</b>	<b>21,10</b>	<b>21,10</b>	<b>34,80</b>	<b>34,80</b>

**GRINDING WHEELS**

7040G



**Orig. H. Sebald**  
DIN 69148. In electrocorindon. COLOUR: WHITE. Suited to sharpen and grind. High performance and reduced power consumption grinding wheels. Quick metal removal. Suitable for very quick grinding and smoothing with angle electric grinder, without overheating.  
Grade: M (medium 60/specific 30A60MVS1) - F (fine 80/specific 30A80MVS1). Medium hardness.

Max ext Ø	mm	80	80	100	100	125	125	150	150
Grain		M	F	M	F	M	F	M	F
Min ext Ø	mm	55	55	75	75	92	92	114	114
Bore Ø	mm	20	20	20	20	20	20	20	20
Wall thickness	mm	6	6	8	8	8	8	10	10
<b>7040G</b>	<b>Each</b>	<b>18,70</b>	<b>18,70</b>	<b>25,90</b>	<b>25,90</b>	<b>38,90</b>	<b>38,90</b>	<b>52,50</b>	<b>52,50</b>

**GRINDING WHEELS**

7044G



**Orig. H. Sebald**  
DIN 69139. In electrocorindon. COLOUR: WHITE  
Suited to sharpen and grind. Strongly abrasive.  
Exceptional performance and long lasting life.  
Grade: M (medium 60/specific 30A60MVS1) - F (fine 80/specific 30A80MVS1) Medium hardness.

Ext. Ø	mm	50	50	80	80	100	100	125
Grain		M	F	M	F	M	F	M
Height	mm	32	32	40	40	50	50	63
Bore Ø	mm	13	13	20	20	20	20	20
Wall thickness	mm	5	5	6	6	8	8	8
<b>7044G</b>	<b>Each</b>	<b>11,20</b>	<b>11,20</b>	<b>21,10</b>	<b>21,10</b>	<b>30,70</b>	<b>30,70</b>	<b>50,10</b>

Ext. Ø	mm	125	150	150
Grain		F	M	F
Height	mm	63	80	80
Bore Ø	mm	20	20	20
Wall thickness	mm	8	10	10
<b>7044G</b>	<b>Each</b>	<b>50,10</b>	<b>75,90</b>	<b>75,90</b>

**GRINDING WHEELS**

7050G

SCU



**Prod. SCU**  
Suitable for high speed trimming and smoothing with angle grinder. Strong resin binder. High performance and long lasting life. Grade 24.  
In electrocorindon. Suitable for metals.

Max ext Ø	mm	110	140
Min ext Ø	mm	100	120
Height	mm	55	55
Bore Ø	mm	22,2	22,2
Max speed	rev/min	8500	6500
<b>7050G</b>	<b>Each</b>	<b>10,20</b>	<b>24,20</b>

Suitable for high speed trimming and smoothing with angle grinder.  
Strong resin binder.  
High performance and long lasting life. Grade 60.  
In electrocorindon. Suitable for metals.

Max ext Ø	mm	110
Min ext Ø	mm	100
Height	mm	55
Bore Ø	mm	22,2
Max speed	rev/min	8500

<b>7051G</b>	<b>Each</b>	<b>10,20</b>
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**7051G**



Suitable for high speed trimming and smoothing with angle grinder.  
Strong resin binder.  
High performance and long lasting life. Grade 24.  
In silicon carbide. Suitable for stones and cast iron.

Max ext Ø	mm	110	140
Min ext Ø	mm	100	120
Height	mm	55	55
Bore Ø	mm	22,2	22,2
Max speed	rev/min	7800	6500

<b>7052G</b>	<b>Each</b>	<b>10,50</b>	<b>23,50</b>
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**7052G**



**DIAMOND CUTTING WHEELS**

**Orig. Sonnenflex - Art. Universal Eco**

Universal model with diamond segments. Suitable for portable machines.  
Used for dry cutting of all kind of concrete, roof tiles, stones, klinker, briks, basalts, etc. Hole Ø: 22mm.

Ø	mm	115	230
Segment height x thickness	mm	7x2	7,5x2,6
Max speed	rev/min	13300	6600

<b>7080G</b>	<b>Each</b>	<b>7,40</b>	<b>22,40</b>
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Very efficient cooling is obtained by letting the wheel idle at intervals.



**7080G**



**Orig. Sonnenflex - Art. Universal Laser**

Universal model with laser-welded diamond segments.  
Suitable for portable machines. Used for dry cutting of all kinds of concrete (even reinforced concrete), roof tiles, stones, klinker, briks, basalts, etc. Hole Ø 22mm.

Ø	mm	115	125	180	230
Segment height x thickness	mm	10x2	10x2	10x2,2	10x2,4
Max speed	rev/min	13300	12200	8600	6600

<b>7090G</b>	<b>Each</b>	<b>26,10</b>	<b>30,30</b>	<b>41,60</b>	<b>56,10</b>
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Very efficient cooling is obtained by letting the wheel idle at intervals.



**7090G**



**Orig. Sonnenflex - Art. Universal Turbo**

Special type, high performance, with diamond segments combined with TURBO profile for an effective material discharge and cooling. Suitable for portable machines. Used for dry cutting of concrete, any kind of stones, ceramics, tiles, bricks, plaster boards, etc. Hole Ø 22mm.

Ø	mm	115	125	180	230
Segment height x thickness	mm	8x2,7	8x2,8	8x3	8x3,2
Max speed	rev/min	13300	12200	8600	6600

<b>7092G</b>	<b>Each</b>	<b>21,50</b>	<b>24,50</b>	<b>56,10</b>	<b>70,10</b>
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Very efficient cooling is obtained by letting the wheel idle at intervals.



**7092G**



7093G

**Orig. Sonnenflex - Art. Abrasiv**

Special type with laser-welded diamond segments.

Suitable for portable machines. Used to dry cut asphalt, plaster, concrete, etc.

Hole Ø 22mm.

Ø	mm	115	125	180	230
Segment height x thickness	mm	8x2,7	8x2,8	8x3	8x3,2
Max speed	rev/min	13300	12200	8600	6600
<b>7093G</b>	<b>Each</b>	<b>23,30</b>	<b>27,50</b>	<b>60,60</b>	<b>74,70</b>

Very efficient cooling is obtained by letting the wheel idle at intervals.

7094G

**Orig. Sonnenflex - Art. Fliesen**

Diamond continuous cutting. Suitable for portable machines.

Used for dry cutting of marble, thin granite, tiles, ceramics, synthetic fibers, etc.

Hole Ø 22mm.

Ø	mm	115	125	180	230
Segment height x thickness	mm	7x1,6	7x1,6	7x1,6	8x1,7
Max speed	rev/min	13300	12200	8600	6600
<b>7094G</b>	<b>Each</b>	<b>18,40</b>	<b>22,10</b>	<b>33,50</b>	<b>50,00</b>

Very efficient cooling is obtained by letting the wheel idle at intervals.

7096G

**Orig. Sonnenflex - Art. Feinsteinzeug**

Diamond continuous cutting, thin thickness, COBALT binder. Suitable for portable machines.

Very high performance to cut porcelain stoneware, tiles obtained by any firing process, klinker, marbles and natural and artificial stones.

Hole Ø 22mm.

Ø	mm	115	125	180	230
Segment height x thickness	mm	7x1,2	7x1,2	10x1,6	10x1,6
Max speed	rev/min	13300	12200	8600	6600
<b>7096G</b>	<b>Each</b>	<b>23,60</b>	<b>29,60</b>	<b>65,50</b>	<b>84,50</b>

7098G

**Orig. Sonnenflex - Art. Mauernutfräser**

Special type with laser-welded diamond segments. Specifically indicated to cut slots with portable machines (grinders and cutters) in walls, stones, concrete, etc.

Hole Ø 22mm.

Ø	mm	115	125
Segment height x thickness	mm	7x6,4	7x6,4
Max speed	rev/min	13300	12200
<b>7098G</b>	<b>Each</b>	<b>48,30</b>	<b>53,90</b>

**DIAMOND COATED MILLING DISKS**

12 7099GA

**Orig. Sonnenflex - Art. Einfach belegt**

Universal model diamond segments. Suitable for portable machines. Dry milling materials generally, concrete, granite from lay, etc.

Hole diameter 22 mm.

Depressed centre type.

Ø	mm	100	125	180
Segment height x thickness	mm	10x5	10x5	10x5
Max speed	rev/min	15200	12200	8600
<b>7099GA</b>	<b>Each</b>	<b>65,90</b>	<b>82,80</b>	<b>126,00</b>

**Orig. Sonnenflex - Art. Doppelt belegt**

Universal model with double round of diamond segments for better expulsion of debris. Suitable for portable machines. Dry milling materials generally, concrete, granite from lay, etc. Hole diameter 22 mm.

Depressed centre type.

Ø	mm	100	125	180
Segment height x thickness	mm	10x5	10x5	10x5
Max speed	rev/min	15200	12200	8600
<b>7099GB</b>	<b>Each</b>	<b>90,50</b>	<b>107,00</b>	<b>142,00</b>



**7099GB**



**CUTTING-OFF WHEELS FOR STEEL AND INOX**

**Orig. Sonnenflex - Art. AS30PBF-ROF-F.42**

Suited to cut metals, steel and stainless steel. It does not leave ferrous and sulphide traces. Very high performance, in hardened and tempered electrocorindon, hard-type. Synthetic resin binder. Reinforced. Hole Ø 22mm.

Depressed-centre model. Grade 30.

Ø	mm	115	125	180	230
Thickness	mm	3	3	3	3
Indicative pck.	Pz	25	25	25	25
<b>7100G</b>	<b>Each</b>	<b>1,66</b>	<b>1,76</b>	<b>2,22</b>	<b>3,42</b>

Size mm 180 running out of stock.



**7100G**



Metal

**Orig. Sonnenflex - Art. AS 30 PBF-ROF-F.41**

Product description as Art. 7100G

Flat centre model. Grade 30.

Ø	mm	180	230
Thickness	mm	3	3
Indicative pck.	Pz	25	25
<b>7105G</b>	<b>Each</b>	<b>2,22</b>	<b>3,42</b>



**7105G**



Metal

**Orig. Sonnenflex - Art. AS 60 QBF-ROF-F.41**

Product description as Art. 7100G

Extra-thin, flat centre type. Grain 60.

Ø	mm	115	125
Thickness	mm	0,8	0,8
Indicative pck.	Pz	25	25
<b>7106G</b>	<b>Each</b>	<b>1,84</b>	<b>2,02</b>



**7106G**



Metal

**Orig. Sonnenflex - Art. AS 60 PBF-ROF-F.41**

Product description as Art. 7100G

Flat and thin centre model. Grade 60.

Ø	mm	115	125
Thickness	mm	1	1
Indicative pck.	Pz	50	50
<b>7107G</b>	<b>Each</b>	<b>1,38</b>	<b>1,48</b>



**7107G**



Metal

7108G



Metal



**Orig. Sonnenflex - Art. AS 46 PBF-ROF-F.41**

Product description as Art. 7100G

Flat and thin centre model. Grade 46.

Ø	mm	115	125
Thickness	mm	1,6	1,6
Indicative pck.	Pz	50	50
<b>7108G</b>	<b>Each</b>	<b>1,38</b>	<b>1,48</b>

7110G



Metal



**Orig. Sonnenflex - Art. AS 40 PBF-ROF-F.41**

Product description as Art. 7100G

Flat and thin centre model. Grade 36/40.

Ø	mm	180	230
Thickness	mm	1,6	1,9
Indicative pck.	Pz	25	25
<b>7110G</b>	<b>Each</b>	<b>2,22</b>	<b>2,90</b>

7115G



Metal



**Orig. Sonnenflex - Art. AS 30 T6BF-F.42**

Suited to cut steel, stainless steel and cast iron.

Particularly used in carpentry and industrial applications.

Very high performance and long lasting life. In hardened and tempered electrocorindum. Reinforced. Hole Ø 22mm.

Depressed-centre model. Grade 30.

Ø	mm	115	125	230
Thickness	mm	3	3	3
Indicative pck.	Pz	25	25	25
<b>7115G</b>	<b>Each</b>	<b>1,76</b>	<b>1,88</b>	<b>3,94</b>

**CUTTING-OFF WHEELS FOR ALUMINIUM**

7119G



Metal



**Orig. Sonnenflex - Art. AS 46 RBF-ALU-F.41**

For cutting aluminium and non-ferrous metals. The particular structure of the grinding prevents clogging due to the material removal rate while also being able to maintain the abrasive power and prolong the operational time. Comes in a tempered model which is strong in electro corundum, and has synthetic resin binder. Fibre reinforcement. Hole diameter 22 mm.

Thin, flat centre type. Grain 46.

Ø	mm	115	125
Thickness	mm	1,6	1,6
Indicative pck.	Pz	50	50
<b>7119G</b>	<b>Each</b>	<b>1,48</b>	<b>1,58</b>

7120G



Metal



**Orig. Sonnenflex - Art. AS 36 RBF-ALU-F.42**

Product description as Art. 7119G

Depressed-centre model. Grade 36.

Ø	mm	115	125	180
Thickness	mm	3	3	3
Indicative pck.	Pz	25	25	25
<b>7120G</b>	<b>Each</b>	<b>1,66</b>	<b>1,76</b>	<b>3,18</b>

Size mm 180 running out of stock.



**Orig. Sonnenflex - Art. AS 36 RBF-ALU-F.41**

Product description as Art. 7119G

Flat centre model. Grade 36.

Ø	mm	180	230
Thickness	mm	3	3
Indicative pck.	Pz	25	25
<b>7125G</b>	<b>Each</b>	<b>3,18</b>	<b>3,42</b>

Size mm 180 running out of stock.



**7125G**



Metal



**ROUGH GRINDING WHEELS FOR METAL**

**Orig. Sonnenflex - Art. AS 60 RBF-F.41**

Universal model to cut iron, metals and alloyed steel.

In electrocorindon, wired, flexible and unbreakable. Perfect cut without deburring.

Hole Ø 22mm.

Flat and thin centre model. Grade 60.

Ø	mm	115	125
Thickness	mm	1	1
Indicative pck.	Pz	50	50
<b>7127G</b>	<b>Each</b>	<b>1,14</b>	<b>1,24</b>



**7127G**



Metal



**Orig. Sonnenflex - Art. AS 46 RBF-F.41**

Product description as Art. 7127G

Flat and thin centre model. Grade 46.

Ø	mm	115	125
Thickness	mm	1,6	1,6
Indicative pck.	Pz	50	50
<b>7128G</b>	<b>Each</b>	<b>1,20</b>	<b>1,30</b>



**7128G**



Metal



**Orig. Sonnenflex - Art. AS 36 RBF-F.42**

Product description as Art. 7127G

Depressed-centre model. Grade 36.

Ø	mm	100	115	125	180	230
Thickness	mm	2,5	2,5	2,5	3	3
Indicative pck.	Pz	25	25	25	25	25
<b>7130G</b>	<b>Each</b>	<b>1,30</b>	<b>1,24</b>	<b>1,42</b>	<b>2,30</b>	<b>2,58</b>

Art. 7130 G 100 : foro Ø 17mm



**7130G**



Metal



**Orig. Sonnenflex - Art. AS 36 RBF-F.41**

Product description as Art. 7127G

Flat centre model. Grade 36.

Ø	mm	115	125	180	230
Thickness	mm	2,5	2,5	3	3
Indicative pck.	Pz	25	25	25	25
<b>7136G</b>	<b>Each</b>	<b>1,34</b>	<b>1,42</b>	<b>2,30</b>	<b>2,72</b>



**7136G**



Metal



7137G



Metal

**Orig. Sonnenflex - Art. AS 40 RBF-F.42**

Extra quality, to cut sheet steel.

In electrocorindon, wired, thin, sturdy, long-lasting.  
Hole Ø 22mm.

Depressed-centre model. Grade 40.

Ø	mm	115	125	
Thickness	mm	2	2	
Indicative pck.	Pz	50	50	
<b>7137G</b>	<b>Each</b>	<b>1,34</b>	<b>1,42</b>	

7138G



Metal

**Orig. Sonnenflex - Art. AS 40 RBF-F.41**

Product description as Art. 7137G

Flat centre model. Grade 40.

Ø	mm	115	125	180	230
Thickness	mm	2	2	2	2
Indicative pck.	Pz	25	25	25	25
<b>7138G</b>	<b>Each</b>	<b>1,34</b>	<b>1,42</b>	<b>2,22</b>	<b>2,72</b>

7140G



Metal

**Orig. Sonnenflex - Art. AS 30 TBF-F.41**

Special model for dry cutting. Suitable for stationary machines.

Used to cut steel (higher than R 60 kg/mm<sup>2</sup>).

In electrocorindon, wired, with double reinforcement, flexible and unbreakable.

Perfect cut without deburring. Hole Ø 25.4mm.

Flat centre model. Grade 30.

Ø	mm	300	350	400
Thickness	mm	3,5	3,5	4,5
Indicative pck.	Pz	25	20	15
<b>7140G</b>	<b>Each</b>	<b>5,74</b>	<b>9,68</b>	<b>10,90</b>

7145G



Metal

**Orig. Sonnenflex - Art. AS 36 NBF-F.41**

Universal model for dry cutting. Suitable for portable machines, with protected blade.

Used to cut steel, profiles, pipes, levers, etc.

In electrocorindon, wired, flexible and unbreakable.

Hole Ø 25.4mm.

Flat centre model. Grade 36.

Ø	mm	300	355
Thickness	mm	2,8	2,8
Indicative pck.	Pz	25	25
<b>7145G</b>	<b>Each</b>	<b>5,40</b>	<b>9,52</b>

**COMBINED CUTTING WHEELS FOR STEEL, INOX, STONE AND TILE**

**Orig. Sonnenflex - Art. AC 60 RBF-F.41**

For universal use with no need to change discs. Particularly suitable in carpentry and construction. High efficiency in electrocorindon and silicon carbide reclaimed. Synthetic resin binder reinforced with fiber reinforcement. Ø 22 mm hole.

Type with thin flat center. Grain 60.

Ø	mm	115	125
Thickness	mm	1	1
Indicative pck.	Pz	50	50
<b>7146G</b>	<b>Each</b>	<b>1,48</b>	<b>1,58</b>



**7146G**  
*new*



**Metals  
Stones**



**DEPRESSED-CENTRE GRINDING WHEELS FOR STEEL AND INOX**

**Orig. Sonnenflex - Art. A 46P BF-ROF-F.27**

Suitable for cutting and deburring metals, steels and inox. Very high performance thanks to the very good combination of thickness and reinforcement. In hardened and tempered electrocorindon, hard type, synthetic resin binder. Glass fibre reinforcement, no ferrous and sulphide traces. Hole Ø 22mm. Depressed-centre model. Grade 46.

Ø	mm	115	125
Thickness	mm	1,9	1,9
Indicative pck.	Pz	10	10
<b>7147G</b>	<b>Each</b>	<b>2,76</b>	<b>2,76</b>



**7147G**



**Metal**



**DEPRESSED-CENTRE GRINDING WHEELS FOR STEEL AND INOX**

**Orig. Sonnenflex - Art. AS 2407 BF-ROF-F.27**

Suited to rough-shape metals, steel and stainless steel. Particularly used in food industry and for applications in nuclear power plants as it does not leave ferrous and sulphide traces. Very high performance, in hardened and tempered electrocorindon, hard-type. Synthetic resin binder. Reinforced. Hole Ø 22mm.

Ø	mm	115	125	180	230
Thickness	mm	6	6	8	8
Indicative pck.	Pz	10	10	10	10
<b>7150G</b>	<b>Each</b>	<b>2,36</b>	<b>2,54</b>	<b>5,82</b>	<b>7,50</b>



**7150G**



**Metal**



**Orig. Sonnenflex - Art. AS 24 R6 BF-F.27**

Suited to rough-shape steel, stainless steel and cast-iron. Particularly used in carpentry and for industrial applications. In hardened and tempered electrocorindon. Reinforced. Hole Ø 22mm.

Depressed-centre model. Grade 24.

Ø	mm	115	125	180	230
Thickness	mm	6	6	6	6
Indicative pck.	Pz	10	10	10	10
<b>7155G</b>	<b>Each</b>	<b>2,64</b>	<b>2,90</b>	<b>4,66</b>	<b>6,58</b>



**7155G**



**Metal**



**Prod. SCU**

Ultra high performance model with special abrasive zirconium compounds and abrasive surface design involved in fittings. This allows fast processing with few grinding vibrations and can also be used with very hard materials such as titanium and stainless steel, or with very tough materials such as stainless steels and aluminium Fibre reinforcement. Hole Diameter 22 mm.

Centrally pressed. 36 grit.

Ø	mm	115	125	180
Thickness	mm	5	5	5
Indicative pck.	Pz	10	10	10
<b>7157G</b>	<b>Each</b>	<b>8,14</b>	<b>9,20</b>	<b>16,20</b>



**7157G**



**Metal**



**DEPRESSED-CENTRE GRINDING WHEELS FOR ALUMINIUM**

7160G



Metal



**Orig. Sonnenflex - Art. AS 24 PBF-ALU-F.27**

Suited to rough-shape aluminium and non-ferrous metals. Their special structure avoid clogging due to removed material without altering abrasive power and prolonging the tool life. In hardened and tempered electrocorindon, hard-type. Synthetic resin binder. Reinforced. Hole Ø 22mm.

Depressed-centre model. Grade.24

Ø	mm	115	125
Thickness	mm	6	6
Indicative pck.	Pz	10	10
<b>7160G</b>	<b>Each</b>	<b>2,22</b>	<b>2,46</b>

**ROUGH GRINDING WHEELS FOR METAL**

7165G



Metal



**Orig. Sonnenflex - Art. AS 24 PBF-F.27**

Universal model to rough-shape iron, metals and alloyed steel. In electrocorindon, wired, flexible and unbreakable. Hole Ø 22mm. (Only measure 100x6 mm: Ø 16 mm) Depressed-centre model. Grade 24.

Ø and thickness	mm	100x6	115x6	125x6	180x6	180x8	230x6	230x8
Indicative pck.	Pz	10	10	10	10	10	10	10
<b>7165G</b>	<b>Each</b>	<b>1,76</b>	<b>2,02</b>	<b>2,22</b>	<b>3,80</b>	<b>4,68</b>	<b>5,92</b>	<b>6,44</b>

7168G



Metal



**Orig. Sonnenflex - Art. AS 30 TBF-F.27**

Extra quality, particularly suited to the rough-shaping of angled surface in steel, cast iron, weld beads, etc. In electrocorindon, wired and unbreakable. Hole Ø 22mm.

Depressed-centre model. Grade 30.

Ø	mm	115	125	180	230
Thickness	mm	6	6	6	6
Indicative pck.	Pz	10	10	10	10
<b>7168G</b>	<b>Each</b>	<b>2,02</b>	<b>2,22</b>	<b>3,80</b>	<b>5,92</b>

**WHITE GRINDING WHEELS TO CLEAN STEEL, STAINLESS STEEL AND ALUMINIUM**

7170G



Metal



**Prod. SCU**

Special type to rough-shape and clean in a single operation. Moderately abrasive. Better finishing than standard abrasive disks. The special construction avoids clogging of the grinding wheel, thus prolonging its working life. Suitable for aluminium (grade 24 M), steel and stainless steel (grade 36 G). Hole Ø: 22mm.

Depressed centre model.

Size		115	115A
Ø	mm	115	115
Thickness	mm	5	5
Grain		24 M	36 G
Indicative pck.	Pz	5	5
<b>7170G</b>	<b>Each</b>	<b>20,60</b>	<b>20,60</b>

Product running out of stock.

**ROUGH GRINDING WHEELS**

**Orig. Sonnenflex - Art. CS 30 TBF-F.42**

In silicon carbide. Perfect cut without deburring. Hole Ø 22mm.  
Suitable to cut natural or artificial stones and marbles.  
Depressed-centre model. Grade 30.

Ø	mm	115	125	230
Thickness	mm	3	3	3
Indicative pck.	Pz	25	25	25
<b>7175G</b>	<b>Each</b>	<b>1,34</b>	<b>1,42</b>	<b>3,04</b>



**7175G**



**Stones**



**Orig. Sonnenflex - Art. CS 30 TBF-F.41**

Product description as Art. 7175G  
Suitable to cut natural or artificial stones and marbles.  
Flat centre model. Grade 30.

Ø	mm	115	125	180	230
Thickness	mm	3	3	3	3
Indicative pck.	Pz	25	25	25	25
<b>7176G</b>	<b>Each</b>	<b>1,34</b>	<b>1,42</b>	<b>2,36</b>	<b>2,90</b>



**7176G**



**Stones**



**COMBINED CUTTING WHEELS FOR METAL AND STONE**

**Orig. Sonnenflex - Art. AC 30 RBF-F.42**

For universal use with no need to change discs. Particularly suitable in carpentry and construction. High efficiency in electrocorindon and silicon carbide reclaimed. Synthetic resin binder reinforced with fiber reinforcement. Ø 22 mm hole.

Type with depressed center. Grain 30.

Ø	mm	115	125	180	230
Thickness	mm	3	3	3	3
Indicative pck.	Pz	25	25	25	25
<b>7195GA</b>	<b>Each</b>	<b>1,34</b>	<b>1,42</b>	<b>2,36</b>	<b>2,90</b>



**7195GA**  
*new*



**Metals  
Stones**



**Orig. Sonnenflex - Art. AC 30 RBF-F.41**

Product description as Art. 7195GA  
Type at flat center.

Ø	mm	180	230	300	355
Thickness	mm	3	3	3,5	4
Indicative pck.	Pz	25	25	25	20
<b>7195GB</b>	<b>Each</b>	<b>2,36</b>	<b>2,90</b>	<b>5,84</b>	<b>10,40</b>



**7195GB**  
*new*



**Metals  
Stones**



**DEPRESSED-CENTRE GRINDING WHEELS FOR STONE AND GREY CAST IRON**

**7200G**



Stones and Cast Iron



**Orig. Sonnenflex - Art. CS 24 RBF-F.27**

Suitable to rough-shape stones, cast iron, non-ferrous metals and aluminium. Universal use with great abrasive power.

In hardened and tempered silicon carbide, hard type.

Synthetic resin binder.

Reinforced. Hole Ø 22mm.

Depressed-centre model. Grade 24.

Ø	mm	115	125	180
Thickness	mm	6	6	8
Indicative pck.	Pz	10	10	10
<b>7200G</b>	<b>Each</b>	<b>2,12</b>	<b>2,40</b>	<b>5,18</b>

Size mm 180 running out of stock.

**ABRASIVE FILES**

**7600A**



**Prod. SCU**

Made of corundum. Files for sharpening or grinding steel. Dry/water/oil use.

Kind of grain: M (180 Medium) – F (320 Fine). Brown colour.

Square files.

Size		1	1	2	2	3	3	4
Grain		M	F	M	F	M	F	M
Dimensions approx.	mm	100x6	100x6	100x8	100x8	100x10	100x10	150x10
<b>7600A</b>	<b>Each</b>	<b>2,18</b>	<b>2,44</b>	<b>2,24</b>	<b>2,48</b>	<b>2,24</b>	<b>2,48</b>	<b>2,44</b>
Size		4	5	5	6	6		
Grain		F	M	F	M	F		
Dimensions approx.	mm	150x10	150x15	150x15	200x20	200x20		
<b>7600A</b>	<b>Each</b>	<b>2,70</b>	<b>2,92</b>	<b>3,26</b>	<b>4,62</b>	<b>5,04</b>		

Indicative packing unit: 10 pieces.

**7600B**



Product description as Art. 7600A

Triangular files.

Size		1	1	2	2	3	3	4
Grain		M	F	M	F	M	F	M
Dimensions approx.	mm	100x6	100x6	100x8	100x8	100x10	100x10	150x10
<b>7600B</b>	<b>Each</b>	<b>2,18</b>	<b>2,44</b>	<b>2,24</b>	<b>2,48</b>	<b>2,24</b>	<b>2,48</b>	<b>2,44</b>
Size		4	5	5	6	6		
Grain		F	M	F	M	F		
Dimensions approx.	mm	150x10	150x15	150x15	200x20	200x20		
<b>7600B</b>	<b>Each</b>	<b>2,70</b>	<b>2,92</b>	<b>3,26</b>	<b>4,62</b>	<b>5,04</b>		

Indicative packing unit: 10 pieces.

**7600C**



Product description as Art. 7600A

Round files

Size		1	1	2	2	3	3	4
Grain		M	F	M	F	M	F	M
Dimensions approx.	mm	100x6	100x6	100x8	100x8	100x10	100x10	150x10
<b>7600C</b>	<b>Each</b>	<b>2,18</b>	<b>2,44</b>	<b>2,24</b>	<b>2,48</b>	<b>2,24</b>	<b>2,48</b>	<b>2,44</b>
Size		4	5	5	6	6		
Grain		F	M	F	M	F		
Dimensions approx.	mm	150x10	150x15	150x15	200x20	200x20		
<b>7600C</b>	<b>Each</b>	<b>2,70</b>	<b>2,92</b>	<b>3,26</b>	<b>4,62</b>	<b>5,04</b>		

Indicative packing unit: 10 pieces.

**7600D**



Product description as Art. 7600A

Half-round files.

Size		1	1	2	2	3	3	4
Grain		M	F	M	F	M	F	M
Dimensions approx.	mm	100x6	100x6	100x8	100x8	100x10	100x10	150x10
<b>7600D</b>	<b>Each</b>	<b>2,18</b>	<b>2,44</b>	<b>2,24</b>	<b>2,48</b>	<b>2,24</b>	<b>2,48</b>	<b>2,54</b>
Size		4	5	5	6	6		
Grain		F	M	F	M	F		
Dimensions approx.	mm	150x10	150x15	150x15	200x20	200x20		
<b>7600D</b>	<b>Each</b>	<b>2,70</b>	<b>2,92</b>	<b>3,26</b>	<b>4,62</b>	<b>5,04</b>		

Indicative packing unit: 10 pieces.

Product description as Art. 7600A

Flat files.

Size		1	1	2	2	3	3
Grain		M	F	M	F	M	F
Dimensions approx.	mm	100X8	100X8	100X10	100X10	150X10	150X10
Thickness approx.	mm	4	4	5	5	5	5
<b>7600E</b>	<b>Each</b>	<b>2,40</b>	<b>2,60</b>	<b>2,40</b>	<b>2,60</b>	<b>2,66</b>	<b>2,92</b>

Size		4	4	5	5	6	6
Grain		M	F	M	F	M	F
Dimensions approx.	mm	150X15	150X15	150X20	150X20	200X20	200X20
Thickness approx.	mm	10	10	10	10	10	10
<b>7600E</b>	<b>Each</b>	<b>2,66</b>	<b>2,92</b>	<b>2,92</b>	<b>3,26</b>	<b>3,60</b>	<b>3,90</b>

Indicative packing unit: 10 pieces.


**7600E**


Made of carborundum. Files for sharpening or grinding hard or hardened steel, Widia, etc.. Dry/ water/oil use.

Kind of grain: M (180 Medium) – F (220 Fine). Green colour.

Square files.

Size		1	1	2	2	3	3	4
Grain		M	F	M	F	M	F	M
Dimensions approx.	mm	100x6	100x6	100x8	100x8	100x10	100x10	150x10
<b>7604A</b>	<b>Each</b>	<b>2,44</b>	<b>2,44</b>	<b>2,48</b>	<b>2,48</b>	<b>2,48</b>	<b>2,48</b>	<b>2,70</b>

Size		4	5	5	6	6
Grain		F	M	F	M	F
Dimensions approx.	mm	150x10	150x15	150x15	200x20	200x20
<b>7604A</b>	<b>Each</b>	<b>2,70</b>	<b>3,26</b>	<b>3,26</b>	<b>5,04</b>	<b>5,04</b>

Indicative packing unit: 10 pieces.


**7604A**


Product description as Art. 7604A

Triangular files.

Size		1	1	2	2	3	3	4
Grain		M	F	M	F	M	F	M
Dimensions approx.	mm	100x6	100x6	100x8	100x8	100x10	100x10	150x10
<b>7604B</b>	<b>Each</b>	<b>2,44</b>	<b>2,44</b>	<b>2,48</b>	<b>2,48</b>	<b>2,48</b>	<b>2,48</b>	<b>2,70</b>

Size		4	5	5	6	6
Grain		F	M	F	M	F
Dimensions approx.	mm	150x10	150x15	150x15	200x20	200x20
<b>7604B</b>	<b>Each</b>	<b>2,70</b>	<b>3,26</b>	<b>3,26</b>	<b>5,04</b>	<b>5,04</b>

Indicative packing unit: 10 pieces.


**7604B**


Product description as Art. 7604A

Round files.

Size		1	1	2	2	3	3	4
Grain		M	F	M	F	M	F	M
Dimensions approx.	mm	100x6	100x6	100x8	100x8	100x10	100x10	150x10
<b>7604C</b>	<b>Each</b>	<b>2,44</b>	<b>2,44</b>	<b>2,48</b>	<b>2,48</b>	<b>2,48</b>	<b>2,48</b>	<b>2,70</b>

Size		4	5	5	6	6
Grain		F	M	F	M	F
Dimensions approx.	mm	150x10	150x15	150x15	200x20	200x20
<b>7604C</b>	<b>Each</b>	<b>2,70</b>	<b>3,26</b>	<b>3,26</b>	<b>5,04</b>	<b>5,04</b>

Indicative packing unit: 10 pieces.


**7604C**


Product description as Art. 7604A

Half-round files.

Size		1	1	2	2	3	3	4
Grain		M	F	M	F	M	F	M
Dimensions approx.	mm	100x6	100x6	100x8	100x8	100x10	100x10	150x10
<b>7604D</b>	<b>Each</b>	<b>2,44</b>	<b>2,44</b>	<b>2,48</b>	<b>2,48</b>	<b>2,48</b>	<b>2,48</b>	<b>2,70</b>

Size		4	5	5	6	6
Grain		F	M	F	M	F
Dimensions approx.	mm	150x10	150x15	150x15	200x20	200x20
<b>7604D</b>	<b>Each</b>	<b>2,70</b>	<b>3,26</b>	<b>3,26</b>	<b>5,04</b>	<b>5,04</b>

Indicative packing unit: 10 pieces.


**7604D**


**7604E****SCU**

Product description as Art. 7604A

Flat files.

Size		1	1	2	2	3	3
Grain		M	F	M	F	M	F
Dimensions approx.	mm	100X8	100X8	100X10	100X10	150X10	150X10
Thickness approx.	mm	4	4	5	5	5	5
<b>7604E</b>	<b>Each</b>	<b>2,60</b>	<b>2,60</b>	<b>2,60</b>	<b>2,60</b>	<b>2,92</b>	<b>2,92</b>
Size		4	4	5	5	6	6
Grain		M	F	M	F	M	F
Dimensions approx.	mm	150X15	150X15	150X20	150X20	200X20	200X20
Thickness approx.	mm	10	10	10	10	10	10
<b>7604E</b>	<b>Each</b>	<b>2,92</b>	<b>2,92</b>	<b>3,26</b>	<b>3,26</b>	<b>3,90</b>	<b>3,90</b>

Indicative packing unit: 10 pieces.

**7612GA****APEX****Orig. Apex**

Corap. Made of electrocorundum. Brown colour.

Files for sharpening or grinding hard or hardened steel. Dry/water/oil use.

Kind of grain: G (120 Coarse) – M (180 Medium) – F (320 Fine).

Square files.

Dimensions approx.	mm	100x8	100x8	100x8	100x10	100x10	100x10	150x10
Grain		G	M	F	G	M	F	G
<b>7612GA</b>	<b>Each</b>	<b>5,10</b>	<b>5,10</b>	<b>5,10</b>	<b>5,16</b>	<b>5,16</b>	<b>5,16</b>	<b>7,50</b>
Dimensions approx.	mm	150x10	150x10	150x13	150x13	150x13	150x15	150x15
Grain		M	F	G	M	F	G	M
<b>7612GA</b>	<b>Each</b>	<b>7,50</b>	<b>7,50</b>	<b>7,70</b>	<b>7,70</b>	<b>7,70</b>	<b>8,04</b>	<b>8,04</b>
Dimensions approx.	mm	150x15	200x20	200x20	200x20			
Grain		F	G	M	F			
<b>7612GA</b>	<b>Each</b>	<b>8,04</b>	<b>10,40</b>	<b>10,40</b>	<b>10,40</b>			

Indicative packing unit: 10 pieces.

**7612GB****APEX**

Product description as Art. 7612GA

Triangular files.

Dimensions approx.	mm	100x8	100x8	100x8	100x10	100x10	100x10	150x10
Grain		G	M	F	G	M	F	G
<b>7612GB</b>	<b>Each</b>	<b>6,58</b>	<b>6,58</b>	<b>6,58</b>	<b>6,66</b>	<b>6,66</b>	<b>6,66</b>	<b>8,32</b>
Dimensions approx.	mm	150x10	150x10	150x13	150x13	150x13	150x15	150x15
Grain		M	F	G	M	F	G	M
<b>7612GB</b>	<b>Each</b>	<b>8,32</b>	<b>8,32</b>	<b>8,48</b>	<b>8,48</b>	<b>8,48</b>	<b>9,16</b>	<b>9,16</b>
Dimensions approx.	mm	150x15	200x20	200x20	200x20			
Grain		F	G	M	F			
<b>7612GB</b>	<b>Each</b>	<b>9,16</b>	<b>12,40</b>	<b>12,40</b>	<b>12,40</b>			

Indicative packing unit: 10 pieces.

**7612GC****APEX**

Product description as Art. 7612GA

Round files

Dimensions approx.	mm	100x8	100x8	100x8	100x10	100x10	100x10	150x10
Grain		G	M	F	G	M	F	G
<b>7612GC</b>	<b>Each</b>	<b>6,68</b>	<b>6,68</b>	<b>6,68</b>	<b>6,76</b>	<b>6,76</b>	<b>6,76</b>	<b>7,66</b>
Dimensions approx.	mm	150x10	150x10	150x13	150x13	150x13	150x15	150x15
Grain		M	F	G	M	F	G	M
<b>7612GC</b>	<b>Each</b>	<b>7,66</b>	<b>7,66</b>	<b>7,90</b>	<b>7,90</b>	<b>7,90</b>	<b>9,10</b>	<b>9,10</b>
Dimensions approx.	mm	150x15	200x20	200x20	200x20			
Grain		F	G	M	F			
<b>7612GC</b>	<b>Each</b>	<b>9,10</b>	<b>11,50</b>	<b>11,50</b>	<b>11,50</b>			

Indicative packing unit: 10 pieces.

**7612GD****APEX**

Product description as Art. 7612GA

Half-round files.

Dimensions approx.	mm	100x8	100x8	100x8	100x10	100x10	100x10	150x10
Grain		G	M	F	G	M	F	G
<b>7612GD</b>	<b>Each</b>	<b>6,82</b>	<b>6,82</b>	<b>6,82</b>	<b>6,98</b>	<b>6,98</b>	<b>6,98</b>	<b>9,16</b>
Dimensions approx.	mm	150x10	150x10	150x13	150x13	150x13	150x15	150x15
Grain		M	F	G	M	F	G	M
<b>7612GD</b>	<b>Each</b>	<b>9,16</b>	<b>9,16</b>	<b>9,40</b>	<b>9,40</b>	<b>9,40</b>	<b>9,64</b>	<b>9,64</b>
Dimensions approx.	mm	150x15	200x20	200x20	200x20			
Grain		F	G	M	F			
<b>7612GD</b>	<b>Each</b>	<b>9,64</b>	<b>11,90</b>	<b>11,90</b>	<b>11,90</b>			

Indicative packing unit: 10 pieces.



Product description as Art. 7612GA

Flat files.

Dimensions approx.	mm	120x15	120x15	120x15	150x20	150x20	150x20
Grain		G	M	F	G	M	F
Thickness approx.	mm	6	6	6	8	8	8
<b>7612GE</b>	<b>Each</b>	<b>5,60</b>	<b>5,60</b>	<b>5,60</b>	<b>10,30</b>	<b>10,30</b>	<b>10,30</b>

Dimensions approx.	mm	200x20	200x20	200x20
Grain		G	M	F
Thickness approx.	mm	10	10	10
<b>7612GE</b>	<b>Each</b>	<b>12,60</b>	<b>12,60</b>	<b>12,60</b>

Indicative packing unit: 10 pieces.

**APEX**
**7612GE**


Silap. Made of carborundum. Grey colour.

Files for sharpening or grinding hard or hardened steel, hard metals, Widia etc.. Dry/water/oil use.

Kind of grain: G (120 Coarse) – M (180 Medium) – F (220 Fine).

Square files.

Dimensions approx.	mm	100x8	100x8	100x8	100x10	100x10	100x10	150x10
Grain		G	M	F	G	M	F	G
<b>7614GA</b>	<b>Each</b>	<b>5,22</b>	<b>5,22</b>	<b>5,22</b>	<b>5,36</b>	<b>5,36</b>	<b>5,36</b>	<b>7,70</b>

Dimensions approx.	mm	150x10	150x10	150x13	150x13	150x13	150x15	150x15
Grain		M	F	G	M	F	G	M
<b>7614GA</b>	<b>Each</b>	<b>7,70</b>	<b>7,70</b>	<b>8,04</b>	<b>8,04</b>	<b>8,04</b>	<b>8,24</b>	<b>8,24</b>

Dimensions approx.	mm	150x15	200x20	200x20	200x20
Grain		F	G	M	F
<b>7614GA</b>	<b>Each</b>	<b>8,24</b>	<b>10,70</b>	<b>10,70</b>	<b>10,70</b>

Indicative packing unit: 10 pieces.

**APEX**
**7614GA**


Product description as Art. 7614GA

Triangular files.

Dimensions approx.	mm	100x8	100x8	100x8	100x10	100x10	100x10	150x10
Grain		G	M	F	G	M	F	G
<b>7614GB</b>	<b>Each</b>	<b>6,72</b>	<b>6,72</b>	<b>6,72</b>	<b>6,92</b>	<b>6,92</b>	<b>6,92</b>	<b>8,62</b>

Dimensions approx.	mm	150x10	150x10	150x13	150x13	150x13	150x15	150x15
Grain		M	F	G	M	F	G	M
<b>7614GB</b>	<b>Each</b>	<b>8,62</b>	<b>8,62</b>	<b>8,82</b>	<b>8,82</b>	<b>8,82</b>	<b>9,46</b>	<b>9,46</b>

Dimensions approx.	mm	150x15	200x20	200x20	200x20
Grain		F	G	M	F
<b>7614GB</b>	<b>Each</b>	<b>9,46</b>	<b>12,70</b>	<b>12,70</b>	<b>12,70</b>

Indicative packing unit: 10 pieces.

**APEX**
**7614GB**


Product description as Art. 7614GA

Round files.

Dimensions approx.	mm	100x8	100x8	100x8	100x10	100x10	100x10	150x10
Grain		G	M	F	G	M	F	G
<b>7614GC</b>	<b>Each</b>	<b>6,72</b>	<b>6,72</b>	<b>6,72</b>	<b>6,92</b>	<b>6,92</b>	<b>6,92</b>	<b>7,80</b>

Dimensions approx.	mm	150x10	150x10	150x13	150x13	150x13	150x15	150x15
Grain		M	F	G	M	F	G	M
<b>7614GC</b>	<b>Each</b>	<b>7,80</b>	<b>7,80</b>	<b>8,04</b>	<b>8,04</b>	<b>8,04</b>	<b>9,30</b>	<b>9,30</b>

Dimensions approx.	mm	150x15	200x20	200x20	200x20
Grain		F	G	M	F
<b>7614GC</b>	<b>Each</b>	<b>9,30</b>	<b>12,20</b>	<b>12,20</b>	<b>12,20</b>

Indicative packing unit: 10 pieces.

**APEX**
**7614GC**


Product description as Art. 7614GA

Half-round files.

Dimensions approx.	mm	100x8	100x8	100x8	100x10	100x10	100x10	150x10
Grain		G	M	F	G	M	F	G
<b>7614GD</b>	<b>Each</b>	<b>7,02</b>	<b>7,02</b>	<b>7,02</b>	<b>7,16</b>	<b>7,16</b>	<b>7,16</b>	<b>9,46</b>

Dimensions approx.	mm	150x10	150x10	150x13	150x13	150x13	150x15	150x15
Grain		M	F	G	M	F	G	M
<b>7614GD</b>	<b>Each</b>	<b>9,46</b>	<b>9,46</b>	<b>9,60</b>	<b>9,60</b>	<b>9,60</b>	<b>9,66</b>	<b>9,66</b>

Dimensions approx.	mm	150x15	200x20	200x20	200x20
Grain		F	G	M	F
<b>7614GD</b>	<b>Each</b>	<b>9,66</b>	<b>12,20</b>	<b>12,20</b>	<b>12,20</b>

Indicative packing unit: 10 pieces.

**APEX**
**7614GD**


**7614GE APEX**


Product description as Art. 7614GA

Flat files.

Dimensions approx.	mm	100x20	100x20	100x20	150x20	150x20	150x20
Grain		G	M	F	G	M	F
Thickness approx.	mm	6	6	6	10	10	10
<b>7614GE</b>	<b>Each</b>	<b>5,70</b>	<b>5,70</b>	<b>5,70</b>	<b>10,70</b>	<b>10,70</b>	<b>10,70</b>
Dimensions approx.	mm	200x25	200x25	200x25			
Grain		G	M	F			
Thickness approx.	mm	13	13	13			
<b>7614GE</b>	<b>Each</b>	<b>12,10</b>	<b>12,10</b>	<b>12,10</b>			

Indicative packing unit: 10 pieces.

**FLAT ABRASIVE FILES WITH HANDGRIP**
**7618G APEX**
**Orig. Apex**

Silap. Made of carborundum. Grey colour.

Files for sharpening or grinding hard or hardened steel, hard metals, Widia etc..

With handgrip. Dry/water/oil use.

Kind of grain: M (180 Medium).

Abrasive length approx.	mm	100	150	200
Overall length	mm	200	280	300
<b>7618G</b>	<b>Each</b>	<b>8,08</b>	<b>13,10</b>	<b>14,40</b>

Product running out of stock.

**COMBINED SILAP FLAT FILES**
**7620G APEX**
**Orig. Apex**

Silap. Made of carborundum. Grey colour.

Files for sharpening or grinding hard or hardened steel, hard metals, Widia etc..

Without handgrip. Dry/water/oil use.

Combined grains: Fine grain (220) on one side, Coarse grain (120) on the other.

Abrasive length approx.	mm	150	200
<b>7620G</b>	<b>Each</b>	<b>12,40</b>	<b>14,30</b>

**ARTIFICIAL ARKANSAS ABRASIVE FILES**
**7622GA APEX**
**Orig. Apex**

Synthetic Arkansas – White colour.

Suitable for sharpening cutting edges, especially for high precision tools. Water/oil use. Very fine grain.

Square files.

Length approx.	mm	100	125
Width approx.	mm	10	10
<b>7622GA</b>	<b>Each</b>	<b>5,70</b>	<b>6,96</b>

**7622GB APEX**


Product description as Art. 7622GA

Triangular files.

Length approx.	mm	100	125
Width approx.	mm	10	10
<b>7622GB</b>	<b>Each</b>	<b>5,98</b>	<b>8,38</b>

**7622GC APEX**


Product description as Art. 7622GA

Round files

Length approx.	mm	100	125
Width approx.	mm	10	10
<b>7622GC</b>	<b>Each</b>	<b>6,96</b>	<b>9,64</b>

**7622GD APEX**


Product description as Art. 7622GA

Half-round files.

Length approx.	mm	100	125
Width approx.	mm	10	10
<b>7622GD</b>	<b>Each</b>	<b>8,76</b>	<b>11,50</b>

**7622GE APEX**


Product description as Art. 7622GA

Flat files.

Length approx.	mm	100	125
Width approx.	mm	6 to 10	12 to 20
Thickness approx.	mm	2 to 5	5 to 10
<b>7622GE</b>	<b>Each</b>	<b>6,72</b>	<b>9,66</b>

**SINTERED RUBY CRYSTALS ABRASIVE FILES**
**Orig. Apex**

SICORIT – White colour. Files made of ruby crystals sintered at a very high temperature, without bonding agents.

Abrasive power and life much higher than the best NATURAL ARKANSAS. Very strong high-precision edges.

Suitable for extra fine sharpening and lapping. Dry/water/oil use. Extra fine grain.

Square files.

Length approx.	mm	100	120
Width approx.	mm	8	13
<b>7628GA</b>	<b>Each</b>	<b>15,80</b>	<b>20,90</b>

**APEX**
**7628GA**


Product description as Art. 7628GA

Triangular files.

Length approx.	mm	100	120
Width approx.	mm	8	13
<b>7628GB</b>	<b>Each</b>	<b>17,10</b>	<b>21,50</b>

**APEX**
**7628GB**


Product description as Art. 7628GA

Round files

Length approx.	mm	100	120
Width approx.	mm	8	13
<b>7628GC</b>	<b>Each</b>	<b>18,80</b>	<b>23,20</b>

**APEX**
**7628GC**


Product description as Art. 7628GA

Half-round files.

Length approx.	mm	100	120
Width approx.	mm	8	13
<b>7628GD</b>	<b>Each</b>	<b>19,20</b>	<b>24,50</b>

**APEX**
**7628GD**


Product description as Art. 7628GA

Flat files.

Length approx.	mm	100	120
Width approx.	mm	8	12
Thickness approx.	mm	4	6
<b>7628GE</b>	<b>Each</b>	<b>17,70</b>	<b>23,30</b>

**APEX**
**7628GE**

**SILICON CARBIDE SHARPENING STONES**
**Orig. Apex**

Silicon carbide. Use with water or oil.

Fine grain (220).

Kife shape.

Length approx.	mm	115	150
Width approx.	mm	45	45
<b>7650G</b>	<b>Each</b>	<b>7,30</b>	<b>9,84</b>

**APEX**
**7650G**


Product description as Art. 7650G

Multishape.

Length approx.	mm	115	150
Width approx.	mm	45	45
<b>7655G</b>	<b>Each</b>	<b>9,12</b>	<b>11,10</b>

**APEX**
**7655G**


Product description as Art. 7650G

Convex shape.

Length approx.	mm	115	150
Width approx.	mm	45	45
<b>7660G</b>	<b>Each</b>	<b>7,30</b>	<b>9,84</b>

**APEX**
**7660G**


**KNIFE SHARPENING STONES**

7662G

**APEX**



**Orig. Apex**

With one acute edge and one flat edge. Dimensions are approximate. Lubricated with water and oil. Very fine grit.

Synthetic Arkansas.

Length approx. mm 100  
 Width approx. mm 25  
 Sides height approx. mm 1-8

**7662G Each 8,10**

7663G

**APEX**



With one acute edge and one flat edge. Dimensions are approximate. To be used alone or lubricated with water and oil. Very fine grit.

SICORIT - In RUBY crystals.

Length approx. mm 100  
 Width approx. mm 25  
 Sides height approx. mm 1-5

**7663G Each 31,10**

**CONVEX SHARPENING STONES**

7665G

**APEX**



**Orig. Apex**

With both rounded edges. Dimensions are approximate. Lubricated with water and oil. Very fine grit.

Synthetic Arkansas.

Length approx. mm 100 125  
 Width approx. mm 45 45  
 Sides height approx. mm 2-6 3-10

**7665G Each 8,62 11,20**

7668G

**APEX**



With both rounded edges. Dimensions are approximate. To be used alone or lubricated with water and oil. Very fine grit.

SICORIT - In RUBY crystals.

Length approx. mm 100  
 Width approx. mm 40  
 Sides height approx. mm 3-8

**7668G Each 37,10**

**RECTANGULAR SHARPENING STONES**

7675G

**APEX**



**Orig. Apex**

To sharpen any kind of cutting tool.

Lubricated with water or oil. Thickness 20mm (16mm for size 125).

Grits: M (180 Medium) - F (320 Fine).

Electrocorundum Corap - Brown.

Length approx. mm 125 125 150 150 200 200  
 Grain M F M F M F  
 Width approx. mm 50 50 50 50 50 50

**7675G Each 9,88 9,88 12,10 12,10 17,70 17,70**

7678G

**APEX**



To sharpen any kind of cutting tool.

Lubricated with water or oil. Thickness 20mm (16mm for size 125).

Grits: M (180 Medium) - F (220 Fine).

Silicon carbide Silap - Grey

Length approx. mm 125 125 150 150 200 200  
 Grain M F M F M F  
 Width approx. mm 50 50 50 50 50 50

**7678G Each 9,60 9,60 13,50 13,50 18,90 18,90**

7680G

**APEX**



Lubricated with water or oil. Very fine grit. Wooden case.

Synthetic Arkansas.

Length approx. mm 100 125 175  
 Width approx. mm 50 50 50

**7680G Each 12,70 15,30 19,50**

12

To be used alone or lubricated with water or oil. Very fine grit. Wooden case.

SICORIT - In RUBY crystals.

Length approx.	mm	125	150	200
Width approx.	mm	40	40	50
<b>7684G</b>	<b>Each</b>	<b>52,10</b>	<b>62,50</b>	<b>127,00</b>

**APEX**
**7684G**

**WATERSTONES**

**Orig. Apex**

Half medium grit (180) and half fine grit (320).

To be used only with water. Thickness 20mm.

Particularly indicated for sharpening cutting tools.

In corundum - Standard quality.

Length approx.	mm	100	150	200
Width approx.	mm	50	50	50
<b>7689G</b>	<b>Each</b>	<b>6,58</b>	<b>11,10</b>	<b>15,70</b>

**APEX**
**7689G**


Product description as Art. 7689G

In Electrocorindon - Fine quality.

Length approx.	mm	125	150	150	200
Width approx.	mm	50	50	90	50
<b>7690G</b>	<b>Each</b>	<b>9,64</b>	<b>12,40</b>	<b>25,20</b>	<b>19,20</b>

**APEX**
**7690G**


Product description as Art. 7689G

SAL-Stein - Extra quality.

Length approx.	mm	100	150	200
Width approx.	mm	50	50	50
<b>7692G</b>	<b>Each</b>	<b>7,94</b>	<b>13,70</b>	<b>20,30</b>

**APEX**
**7692G**


Half medium grit (180) and half fine grit (320).

To be used only with water. Thickness 20mm.

Particularly indicated for sharpening cutting tools.

Corundum Corap.

Length approx.	mm	100	150	200
Width approx.	mm	50	50	50
<b>7694G</b>	<b>Each</b>	<b>8,32</b>	<b>11,90</b>	<b>18,40</b>

**APEX**
**7694G**


Half medium grit (180) and half fine grit (220).

To be used only with water. Thickness 20mm.

Particularly indicated for sharpening cutting tools.

Silicon carbide Silap.

Length approx.	mm	100	150	200
Width approx.	mm	50	50	50
<b>7695G</b>	<b>Each</b>	<b>9,84</b>	<b>13,80</b>	<b>19,70</b>

**APEX**
**7695G**

**COMBINATED STONES**

**Orig. Apex**

New generation of "MULTIGRIT" abrasive stones which combine different materials and grits for a wider possibility of use. Apt for sharpening, grinding and dressing steels of any type and size. To be used with water or oil. Thickness 22mm.

DUOGRIT combination of 2 grits.

Dark corundum, coarse grit (120) and light corundum, fine grit (320).

Length approx.	mm	150	200
Width approx.	mm	50	50
<b>7696GA</b>	<b>Each</b>	<b>18,10</b>	<b>24,50</b>

**APEX**
**7696GA**


Product description as Art. 7696GA

DUOGRIT combination of 2 grits.

Dark silicon carbide, coarse grit (120) and light silicon carbide, fine grit (220).

Length approx.	mm	150	200
Width approx.	mm	50	50
<b>7696GE</b>	<b>Each</b>	<b>18,20</b>	<b>24,80</b>

**APEX**
**7696GE**


**7697GA APEX**

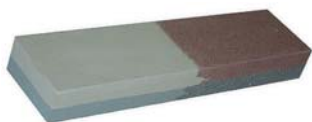
Product description as Art. 7696GA  
TRIOGRIT combination of 3 grits.  
Dark corundum, coarse grit (120), light corundum, fine grit (320) and tooldresser silicon carbide.

Length approx.	mm	150	200
Width approx.	mm	50	50
<b>7697GA</b>	<b>Each</b>	<b>19,80</b>	<b>26,90</b>

**7697GE APEX**

Product description as Art. 7696GA  
TRIOGRIT combination of 3 grits.  
Light corundum, fine grit (320), light silicon carbide, fine grit (220) and tooldresser silicon carbide.

Length approx.	mm	150	200
Width approx.	mm	50	50
<b>7697GE</b>	<b>Each</b>	<b>20,10</b>	<b>27,40</b>

**7698GA APEX**

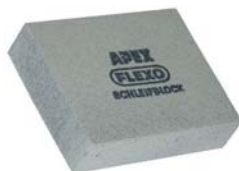
Product description as Art. 7696GA  
QUATTROGRIT combination of 4 grits.  
Dark corundum, coarse grit (120), light corundum, fine grit (320), light silicon carbide, fine grit (220) and dark silicon carbide, coarse grit (120).

Length approx.	mm	150	200
Width approx.	mm	50	50
<b>7698GA</b>	<b>Each</b>	<b>20,70</b>	<b>28,20</b>

**SHARPENING HONES****7700 SCU**

**Prod. SCU**  
In corundum.  
Mixture of medium (180) and fine (320) grit, apt for very fine touch-up jobs.  
Particularly indicated for sharpening tools for agriculture.

Dimensions approx.	mm	225x32x12
<b>7700</b>	<b>Each</b>	<b>1,08</b>

**ELASTIC ABRASIVE STONES****7710G APEX**

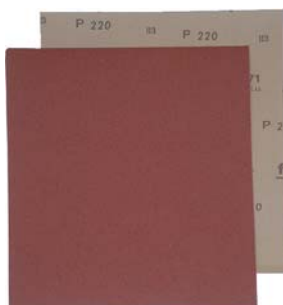
**Orig. Apex**  
Abrasive stone in Silicium-Carbid mixed with soft and elastic plastic, 120 gritf.  
Thickness approx. 20mm.  
Apt for hand cleaning of irregular metal, plastic, wooden, leather surfaces.  
Rectangular shape.

Length approx.	mm	50	80
Width approx.	mm	40	65
<b>7710G</b>	<b>Each</b>	<b>8,38</b>	<b>16,30</b>

**ELASTIC ABRASIVE WHEELS****7714G APEX**

**Orig. Apex**  
Abrasive stone in Silicium-Carbid mixed with soft and elastic plastic, 240 gritf.  
Thickness approx. 20mm.  
Apt for hand cleaning of irregular metal, plastic, wooden, leather surfaces.

Ø	mm	125	150	200
Bore Ø	mm	32	32	32
<b>7714G</b>	<b>Each</b>	<b>82,80</b>	<b>101,00</b>	<b>174,00</b>

**ABRASIVE PAPER****7758G SCU**

**Prod. SCU**  
Oxy-aluminium type, on flexible resistant card support.  
For manual working of metals, steel, wood, paint and plaster.

Papers size 23x28cm.

Grain		220	180	150	120	100	80	60	
<b>7758G</b>	<b>Each</b>	<b>0,44</b>	<b>0,44</b>	<b>0,44</b>	<b>0,44</b>	<b>0,44</b>	<b>0,44</b>	<b>0,46</b>	
Grain		50	40						
<b>7758G</b>	<b>Each</b>	<b>0,62</b>	<b>0,50</b>						

Size 50 running out of stock.

In silicon carbide, on water proof support made of flexible and resistant latex paper. For wet and dry hand use on metals, emails, ceramics, glass, plastics and marble. Particularly indicated in bodyworks.

Paper size 23x28cm.

Grain		600	500	400	360	320	280	240
7764G	Each	0,58	0,58	0,58	0,58	0,58	0,58	0,58

Grain		220	180	150	120	100	80
7764G	Each	0,58	0,58	0,58	0,62	0,64	0,68


**7764G**


### ABRASIVE CLOTH IN SHEETS

**Prod. SCU**

Oxy-aluminium type, on flexible canvas support, very high duration and high resistance. Hand use on metals, stainless steel, wood, plastic materials.

Papers size 23x28cm.

Grain		400	320	240	220	180	150	120
7768G	Each	0,68	0,68	0,68	0,68	0,68	0,68	0,68

Grain		100	80	60	40
7768G	Each	0,68	0,70	0,72	0,76


**7768G**


### ABRASIVE PAPER CARTRIDGE ROLLS

**Prod. SCU**

Oxy-aluminium type, on flexible resistant card support. For manual and machine working of metals, steel, wood, paint and plaster.

Package units of 50 m., not to be divided.

Tape length 115mm.

Grain		220	180	150	120	100	80	60
7770G	Per meter	0,62	0,62	0,62	0,62	0,62	0,64	0,66

Grain		50	40
7770G	Per meter	1,14	0,72

Size 50 running out of stock.


**7770G**


Aluminium oxide stearate typ on particularly resistant paper support. Suitable for roughing and finishing woods, paintings and stucco, hand and machine use.

Package unit of 50m cartridge rolls, not sold separately.

Tape width 120mm.

Grain		600	400	320	280	220	150	120
7773G	Per meter	1,54	1,54	1,54	1,54	1,54	1,54	1,66

Grain		80
7773G	Per meter	1,94


**7773G**


### ABRASIVE CLOTH CARTRIDGE ROLLS

**Prod. SCU**

Oxy-aluminium type, on flexible, very resistant and long life cloth. For hand metal, steel, wood and plastic material working. For turning, forging dies, guns, etc.

Package unit of cartridge rolls of 25 not sold separately.

Tape length 50mm.

Grain		400	320	240	220	180	150	120
7776GB	Per meter	0,86	0,86	0,86	0,86	0,86	0,86	0,86

Grain		100	80	60	40
7776GB	Per meter	0,86	0,88	0,92	1,04


**7776GB**


**7776GL SCU**



Product description as Art. 7776GB  
 Package unit of cartridge rolls of 25 not sold separately.  
 Tape length 115mm.

Grain		400	320	240	220	180	150	120
<b>7776GL</b>	Per meter	1,86	1,86	1,86	1,86	1,86	1,86	1,86
Grain		100	80	60	40			
<b>7776GL</b>	Per meter	1,86	1,90	2,04	2,26			

**FLEECE PADS**

**7778GA SCU**



**Prod SCU**  
 Abrasive type with synthetic fibre cloth support, light, resistant, very flexible and adaptable to any surface shape. Particularly indicated for light smoothing and finishing of metals, synthetic materials, woods, paintings, etc.  
 Paper size 115x280mm.

Grain		120	180	320	600
Colour		brown	brown	brown	grey
<b>7778GA</b>	Each	1,50	1,22	1,22	1,24

**7779G SCU**



Product description as Art. 7778GA  
 Paper size 150x230mm.

Grain		120	180	320	600
Colour		brown	brown	brown	grey
<b>7779G</b>	Each	1,52	1,24	1,24	1,28

**FLEECE ROLLS**

**7781G SCU**



**Prod. SCU**  
 Abrasive type with synthetic fibre cloth support, light, resistant, very flexible and adaptable to any surface shape. Particularly indicated for light smoothing and finishing of metals, synthetic materials, woods, paintings, etc.  
 In rolls of 10m not sold separately. Width 115mm.

Grain		120	180	320	600
Name		medium	fine	very fine	ultra-fine
Colour		brown	brown	brown	grey
<b>7781G</b>	Each roll	42,50	33,70	33,70	33,70

**ABRASIVE DISKS**

**7800G SCU**



**Prod. SCU**  
 Suitable for metals, woods, plastic materials, stucco, etc.  
 Oxy-aluminium type, on medium-weight resinbonded paper support.  
 Velcro back for use with sander VELCRO pads. Indicative package 50 pcs.  
 Without holes, Ø 115mm.  
 Max speed 13300 rev/min.

Grain		40	60	80	100	120
<b>7800G</b>	Each	0,42	0,36	0,34	0,32	0,32

**7801G SCU**



Product description as Art. 7800G  
 With 8 holes, Ø 125mm.  
 Max speed 12300 rev/min.

Grain		40	60	80	100	120	180
<b>7801G</b>	Each	0,42	0,36	0,34	0,32	0,32	0,32

**7802G SCU**



Product description as Art. 7800G  
 Without holes, Ø 150mm.  
 Max speed 10200 rev/min.

Grain		40	60	80
<b>7802G</b>	Each	0,64	0,54	0,54

12

Prices in EUFRO - VAT not included



Product description as Art. 7800G

With 7 holes, Ø 150mm.

Max speed 10200 rev/min.

Grain		40	60	80	100
<b>7803G</b>	Each	0,64	0,54	0,54	0,48

SCU


**7803G**


Product description as Art. 7800G

With 9 holes, Ø 150mm.

Max speed 10200 rev/min.

Grain		40	60	80	100	150
<b>7804G</b>	Each	0,64	0,54	0,54	0,48	0,48

SCU


**7804G**

**VELCRO-BACKED ABRASIVE DISK HOLDER**
**Prod. SCU**

Semi-flexible rubber for dragging and providing support for Velcro grinding discs as per Art. 7800 G and 7802 G.

Ø	mm	115	150
Thread bore	M.	14	14
<b>7810G</b>	Each	10,50	16,20

SCU


**7810G**

**FIBRE ABRASIVE DISKS**
**Prod. SCU**

For metals. Electro-corundum type. Flexible.

To be used with high-speed angle grinders. Suitable to machine curved or irregular surfaces, particularly suitable for car bodyworking. For iron, steel, cast iron. Hole 22mm. Cross-slotted.

Maximum speed 80 m/s.

Ø 115mm.

Grain		120	80	60	40	24
<b>7829G</b>	Each	0,62	0,62	0,64	0,68	0,74

SCU


**7829G**


Product description as Art. 7829G

Ø 125mm.

Grain		120	80	60	40	24
<b>7829GA</b>	Each	0,70	0,70	0,72	0,78	0,86

SCU


**7829GA**


Product description as Art. 7829G

Ø 180mm.

Grain		60	40	24
<b>7830G</b>	Each	1,40	1,50	1,64

SCU


**7830G**

**Orig. Sonnenflex**

For metals. Zinc-corundum type. Flexible.

To be used with high-speed angle grinders. Suitable for heavy-duty work even on curved or irregular surfaces. For all types of iron, steel, cast iron and particularly suitable for stainless steel and welding beads. Great abrasive capacity and long-lasting. Hole 22mm. Cross-slotted.

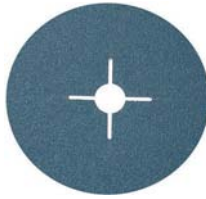
Maximum speed 80 m/s.

Ø 115mm.


Grain		120	80	60	40	24
<b>7830GE</b>	Each	0,68	0,72	0,72	0,78	0,98


**7830GE**


**7830GF** 

 Product description as Art. 7830GE  
 Ø 125mm.


Grain		120	80	60	40	24
<b>7830GF</b>	Each	0,76	0,80	0,82	0,88	1,08

**7830GL** 

**Prod. SCU**  
 Product description as Art. 7830GE  
 Ø 180mm.


Grain		120	80	60	40	24
<b>7830GL</b>	Each	2,08	2,14	2,26	2,64	3,30

**7831GA** 

**Orig. Sonnenflex**

For metals. Provides high power ceramic abrasive removals and a special cooling surface for high-class durability. Flexible.

Can be used with angle grinders at high speed. Recommended for demanding machine-based operations even on curved or irregular surfaces. For all types of iron, steels, cast irons, and is particularly suitable for stainless steels, weld beads and non-ferrous metals. 22 mm hole. Includes cross cuts. Maximum speed of 80 m/s.



Ø 115mm.

Grain		60	40
<b>7831GA</b>	Each	1,74	2,22

**7831GB** 

 Product description as Art. 7831GA  
 Ø 125mm.


Grain		60	40
<b>7831GB</b>	Each	1,94	2,46

### RUBBER BACKING PADS

**7834GS** 

**Prod. SCU**

In rubber for dragging and supporting abrasive discs.



Ø	mm	115	125	180
Thread bore	M.	14	14	14
<b>7834GS</b>	Each	4,60	4,96	6,52

### ABRASIVE GRINDING WHEELS

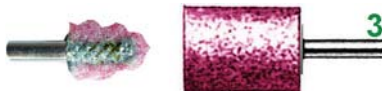
**7840A** 

**Prod. SCU**

Connection Ø 3mm, length 38mm. In pink CORUNDUM.

Optimal price/quality ratio. M hardness, with ceramic binder. For universal use.

Cylindrical shape.



Head Ø and height	mm	2x6	3x6	4x8	5x10	6x10	8x12	10x10	10x15
Grain		60	60	60	60	60	60	60	60
<b>7840A</b>	Each	0,74	0,64	0,64	0,64	0,64	0,68	0,64	0,68

For converters see Art. 8148 A - G.

Product description as Art. 7840A

Sphere shape.

Head Ø	mm	4	6	8	10	15
Grain		60	60	60	60	46
<b>7840E</b>	<b>Each</b>	<b>1,00</b>	<b>1,00</b>	<b>1,00</b>	<b>1,00</b>	<b>1,28</b>

For converters see Art. 8148 A - G.

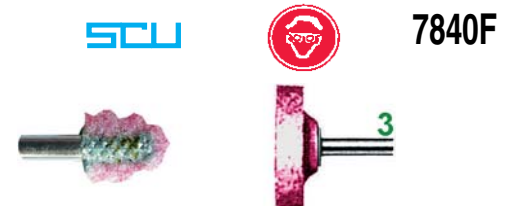


Product description as Art. 7840A

Flat Cylindrical shape.

Head Ø and height	mm	15x3	20x4	20x10
Grain		60	60	60
<b>7840F</b>	<b>Each</b>	<b>1,02</b>	<b>1,06</b>	<b>1,06</b>

For converters see Art. 8148 A - G.



Connection Ø 3mm, length 38mm. In white CORUNDUM.

M hardness, with ceramic binder. For extra-hard steels, moulds, cast irons and weld beads, etc.

Cylindrical shape.

Head Ø and height	mm	4x8	5x10	6x10	8x12	10x10
Grain		60	60	60	60	60
<b>7841A</b>	<b>Each</b>	<b>0,64</b>	<b>0,64</b>	<b>0,64</b>	<b>0,68</b>	<b>0,64</b>

For converters see Art. 8148 A - G.



Connection Ø 3mm, length 38mm. In green SILICON CARBIDE.

Optimal price/quality ratio. M hardness, with ceramic binder. For hard metals, high alloy steels, granites, glasses, ceramics, etc.

Cylindrical shape.

Head Ø and height	mm	6x10	8x12	10x10
Grain		60	60	60
<b>7842A</b>	<b>Each</b>	<b>0,86</b>	<b>0,92</b>	<b>0,86</b>

For converters see Art. 8148 A - G.



Connection Ø 6mm, length 40mm. In pink CORUNDUM. Optimal price/quality ratio.

M hardness, with ceramic binder. For universal use.

Cylindrical shape.

Head Ø and height	mm	3x6	4x8	5x10	6x10	6x20	8x12	8x20	10x10
Grain		60	60	60	60	60	60	60	60
<b>7845A</b>	<b>Each</b>	<b>0,64</b>	<b>0,64</b>	<b>0,64</b>	<b>0,64</b>	<b>0,84</b>	<b>0,68</b>	<b>0,84</b>	<b>0,64</b>

Head Ø and height	mm	10x15	10x20	10x30	12x15	12x20	15x15	15x20	15x30
Grain		60	60	60	46	46	46	46	46
<b>7845A</b>	<b>Each</b>	<b>0,68</b>	<b>0,84</b>	<b>1,00</b>	<b>0,74</b>	<b>0,88</b>	<b>0,84</b>	<b>0,92</b>	<b>1,18</b>

Head Ø and height	mm	20x20	20x25	20x30	25x25	30x25	30x30	40x20	40x40
Grain		46	46	46	46	46	46	46	46
<b>7845A</b>	<b>Each</b>	<b>1,18</b>	<b>1,24</b>	<b>1,42</b>	<b>1,40</b>	<b>1,58</b>	<b>1,72</b>	<b>2,18</b>	<b>3,26</b>



Product description as Art. 7845A

Conical shape.

Head Ø and height	mm	10x20	15x30	20x25	25x30	25x40	30x40
Grain		60	60	46	46	46	46
<b>7845B</b>	<b>Each</b>	<b>1,02</b>	<b>1,40</b>	<b>1,50</b>	<b>1,84</b>	<b>2,40</b>	<b>2,62</b>



Product description as Art. 7845A

Cylindrical pointed nose.

Head Ø and height	mm	5x10	12x20	15x20	20x25	20x30
Grain		60	60	46	46	46
<b>7845C</b>	<b>Each</b>	<b>0,78</b>	<b>1,06</b>	<b>1,12</b>	<b>1,50</b>	<b>1,70</b>



Product description as Art. 7845A

Sphere shape.

Head Ø	mm	6	8	10	15	20	25	30
Grain		60	60	60	46	46	46	46
<b>7845E</b>	<b>Each</b>	<b>1,00</b>	<b>1,00</b>	<b>1,00</b>	<b>1,28</b>	<b>1,76</b>	<b>2,02</b>	<b>2,46</b>



**7845F**

SCU



Product description as Art. 7845A

Flat Cylindrical shape.

Head Ø and height	mm	20x4	20x10	25x10	30x10	40x10	50x10
Grain		60	60	46	46	46	46
<b>7845F</b>	Each	<b>1,02</b>	<b>1,06</b>	<b>1,10</b>	<b>1,28</b>	<b>1,94</b>	<b>2,42</b>

**7846A**

SCU



Connection Ø 6mm, length 40mm. In white CORUNDUM. Optimal price/quality ratio.

M hardness, with ceramic binder. For extra-hard steels, moulds, cast irons and weld beads, etc.

Cylindrical shape.

Head Ø and height	mm	12x20	15x20	20x20	20x30	30x30
Grain		60	46	46	46	46
<b>7846A</b>	Each	<b>0,88</b>	<b>0,92</b>	<b>1,18</b>	<b>1,42</b>	<b>1,72</b>

**7847A**

SCU



Connection Ø 6mm, length 40mm. In green SILICON CARBIDE.

Optimal price/quality ratio.

M hardness, with ceramic binder. For hard metals, high alloy steels, granites, glasses, ceramics, etc.

Cylindrical shape.

Head Ø and height	mm	10x10	10x20	12x20	15x20	15x30	20x20	20x30	30x30
Grain		60	60	60	60	60	60	60	60
<b>7847A</b>	Each	<b>0,86</b>	<b>1,14</b>	<b>1,18</b>	<b>1,26</b>	<b>1,58</b>	<b>1,58</b>	<b>1,92</b>	<b>2,32</b>

**7851G**

ERZETT



Orig. Erzett

Connection Ø 3mm, length 30mm. In pink EDELKORUND.

EKR quality. N hardness, with ceramic binder. For universal use.

Cylindrical shape.

Head Ø and height	mm	2x5	3x6	4x8	5x10	6x10	8x10
Grain		120	100	80	80	60	60
<b>7851G</b>	Each	<b>2,20</b>	<b>2,00</b>	<b>2,00</b>	<b>2,00</b>	<b>2,00</b>	<b>1,82</b>

For converters see Art. 8148 A - G.

**7853G**

ERZETT



Product description as Art. 7851G

Sphere shape.

Head Ø

Grain

<b>7853G</b>	Each	<b>2,46</b>
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For converters see Art. 8148 A - G.

**7854G**

ERZETT



Product description as Art. 7851G

Flat Cylindrical shape.

Head Ø and height

Grain

<b>7854G</b>	Each	<b>1,86</b>
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For converters see Art. 8148 A - G.

**7855G**

ERZETT



Connection Ø 6mm, length 40mm. In pink EDELKORUND.

EKR quality. N hardness, with ceramic binder. For universal use.

Cylindrical shape.

Head Ø and height	mm	6x10	8x10	8x16	10x13	10x20	10x32	13x25	16x20
Grain		60	60	60	60	60	60	46	46
<b>7855G</b>	Each	<b>2,16</b>	<b>2,06</b>	<b>2,12</b>	<b>2,06</b>	<b>2,22</b>	<b>2,84</b>	<b>2,60</b>	<b>2,46</b>

Head Ø and height	mm	16x32	20x20	20x25	20x32	20x40	25x32	40x20
Grain		46	36	36	36	36	36	30
<b>7855G</b>	Each	<b>2,74</b>	<b>2,58</b>	<b>2,68</b>	<b>2,82</b>	<b>3,36</b>	<b>3,36</b>	<b>3,42</b>

For sets see Art. 8105 G.

**7856G**

ERZETT



Product description as Art. 7855G

Conical shape.

Head Ø and height

Grain

<b>7856G</b>	Each	<b>4,00</b>	<b>3,66</b>	<b>4,18</b>
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For sets see Art. 8105 G.

Product description as Art. 7855G

Cylindrical pointed nose.

Head Ø and height	mm	13x20	20x32
Grain		46	36
<b>7859G</b>	Each	3,70	4,18

For sets see Art. 8105 G.



**7859G**



Product description as Art. 7855G

Sphere shape.

Head Ø	mm	8	16	20
Grain		60	46	36
<b>7860G</b>	Each	2,98	3,12	3,42

For sets see Art. 8105 G.



**7860G**



Product description as Art. 7855G

Flat Cylindrical shape.

Head Ø and height	mm	16x4	20x6
Grain		60	60
<b>7861G</b>	Each	2,20	2,20

For sets see Art. 8105 G.



**7861G**



CONNECTION Ø: 6mm, length: 40mm. New model in SILICIUMKARBID, green. Quality: RZ - ALU. Hardness V, ceramic bound, wax-impregnated. Universal use on high-alloyed steels, hardened steels, heat-treated steels, non-ferrous metals, etc. Grade 80.

Cylindric shape

Head Ø and height	mm	10x13	10x20	13x13	13x32	16x16	16x32	20x20
<b>7864G</b>	Each	2,54	2,74	2,60	2,74	2,60	2,92	3,06
Head Ø and height	mm	20x25	20x40	32x32	40x20			
<b>7864G</b>	Each	3,18	3,42	4,12	4,86			



**7864G**



**Prod. SCU**

CONNECTION Ø: 6mm, length: 40mm. In CORINDON/SILICON CARBIDE, dark brown. Hardness M, bakelite bound. Use on stainless steel and cast iron.

Cylindric shape

Head Ø and height	mm	10x20	10x30	13x20	13x30	15x15	15x20	15x30	
Grain		46	46	46	46	46	36	36	
<b>7865A</b>	Each	0,92	1,10	0,96	1,20	0,92	1,02	1,28	
Head Ø and height	mm	15x40	20x20	20x30	20x40	25x30	30x30	40x20	
Grain		36	36	36	36	36	36	36	
<b>7865A</b>	Each	1,76	1,28	1,56	2,04	1,68	1,88	2,40	
Head Ø and height	mm	50x20							
Grain		24							
<b>7865A</b>	Each	2,96							



**7865A**



**Orig. Erzett**

CONNECTION Ø: 6mm, length: 40mm. New model in NORMALKORUND. Quality: AO-INOX. Hardness I, resinoid bound. Use on STAINLESS steel and relative alloys and on high-alloyed steels. Grade 24.

Cylindric shape

Head Ø and height	mm	13x32	16x32	20x40	25x32	32x32	40x20	50x20
<b>7865G</b>	Each	3,08	2,70	3,40	3,40	3,78	3,46	4,36



**7865G**



**Prod. SCU**

CONNECTION Ø: 6mm, length: 40mm. In CORINDON/SILICON CARBIDE, dark brown. Hardness M, bakelite bound. Use on stainless steel and cast iron.

Flat cylindric shape

Head Ø and height	mm	40X10	50X10
Grain		36	24
<b>7866A</b>	Each	1,92	2,40



**7866A**



**Orig. Erzett**

CONNECTION Ø: 6mm, length: 40mm. New model in NORMALKORUND. Quality: AO-INOX. Hardness I, resinoid bound. Use on STAINLESS steel and relative alloys and on high-alloyed steels. Grade 24.

Flat cylindric shape

Head Ø and height	mm	40x10	50x10
<b>7866G</b>	Each	3,02	3,42



**7866G**



**POLISHING POINTS WITH HARD RUBBER SUPPORT**

7868A

SCU



**Prod. SCU**

SHANK diameter 3 mm, length 30 mm.  
For grinding and polishing metal parts.  
Maximum 30,000 RPM. 80 grit.  
Cylindrical shape.

Head Ø and height	mm	4x13	5x15	6x17	8x20	10x20
<b>7868A</b>	Each	1,06	1,06	1,06	1,06	1,06

For converters see Art. 8148 A - G.

7868G

ERZETT



**Orig. Erzett**

Connection Ø 3mm, length 30mm.  
For grinding and polishing metal parts.  
Indicated peripheral speed 45 m/s. Grit 100.  
Cylindrical shape.

Head Ø and height	mm	4x8	5x10	6x10	8x10
<b>7868G</b>	Each	4,04	4,04	4,04	4,04

For converters see Art. 8148 A - G.

7869G

ERZETT



Product description as Art. 7868G

Flat Cylindrical shape.

Head Ø and height	mm	13x3
<b>7869G</b>	Each	4,04

For converters see Art. 8148 A - G.

7870A

SCU



**Prod. SCU**

SHANK diameter 6 mm, length 35 mm.  
For grinding and polishing metal parts.  
80 grit.  
Cylindrical shape.

Head Ø and height	mm	10x20	16x25	20x25	30x25	
<b>7870A</b>	Max speed	rev/min	20000	15000	15000	10000
	Each		2,06	3,58	3,82	5,30

7870G

ERZETT



**Orig. Erzett**

Connection Ø 6mm, length 40mm.  
For grinding and polishing metal parts.  
Indicated peripheral speed 50 m/s. Grit 100.  
Cylindrical shape.

Head Ø and height	mm	8x16	10x20	13x20	16x20	20x32	40x20
<b>7870G</b>	Each	4,18	4,18	4,18	5,28	6,86	12,10

7871G

ERZETT



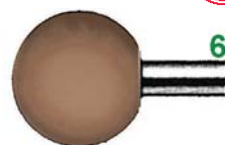
Product description as Art. 7870G

Conical shape.

Head Ø and height	mm	20x32
<b>7871G</b>	Each	9,22

7874G

ERZETT



Product description as Art. 7870G

Sphere shape.

Head Ø	mm	16
<b>7874G</b>	Each	5,92

**POLISHING POINTS WITH SOFT RUBBER SUPPORT**

7875E

SCU



**Prod. SCU**

SHANK diameter 3 mm, length 30 mm.  
For polishing and cleaning metal parts.  
Maximum 30,000 RPM.  
120 grit.  
Cylindrical shape.

Head Ø and height	mm	4x13	5x15	6x17	8x20	10x20
<b>7875E</b>	Each	1,06	1,06	1,06	1,06	1,06

For converters see Art. 8148 A - G.

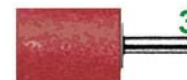
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**Orig. Erzett**

Connection Ø 3mm, length 30mm.  
 For grinding and mirror polishing metal.  
 Indicated peripheral speed max 15 m/s.  
 Cylindrical shape. Grit 120 - Red colour.

Head Ø and height	mm	4x8	5x10	6x10	8x10	10x10
<b>7875GA</b>	Each	3,94	3,94	3,94	3,94	3,94

For converters see Art. 8148 A - G.


**7875GA**


Product description as Art. 7875GA

Cylindrical shape. Grit 220 - Brown colour.

Head Ø and height	mm	4x8	5x10	6x10	8x10	10x10
<b>7875GB</b>	Each	3,94	3,94	3,94	3,94	3,94

For converters see Art. 8148 A - G.


**7875GB**


Product description as Art. 7875GA

Cylindrical shape. Grit 280 - Green colour.

Head Ø and height	mm	4x8	5x10	6x10	8x10	10x10
<b>7875GC</b>	Each	3,94	3,94	3,94	3,94	3,94

For converters see Art. 8148 A - G.


**7875GC**

**Prod. SCU**

SHANK diameter 6 mm, length 35 mm.  
 For polishing and cleaning metal parts.  
 120 grit.

Cylindrical shape.

Head Ø and height	mm	10x20	16x25	20x25	30x25
Max speed	rev/min	20000	15000	15000	10000
<b>7876A</b>	Each	2,06	3,58	3,82	5,30


**7876A**

**Orig. Erzett**

Connection Ø 6mm, length 40mm.  
 For grinding and mirror polishing metal.  
 Indicated peripheral speed max 15 m/s.  
 Cylindrical shape. Grit 120 - Red colour.

Head Ø and height	mm	8x16	10x20	13x20	16x20	20x32	32x32	40x20
<b>7876G</b>	Each	4,14	4,14	4,18	4,66	6,16	9,42	9,94


**7876G**


Product description as Art. 7876G

Cylindrical shape. Grit 220 - Brown colour.

Head Ø and height	mm	8x16	10x20	13x20	16x20	20x32
<b>7877G</b>	Each	4,14	4,14	4,18	4,66	6,16


**7877G**


Product description as Art. 7876G

Cylindrical shape. Grit 280 - Green colour.

Head Ø and height	mm	8x16	10x20	13x20	16x20	20x32
<b>7878G</b>	Each	4,14	4,14	4,18	4,66	6,16


**7878G**

**Prod. SCU**

Shank Ø 6 mm, length 35 mm  
 To face machining, suitable for the engine turned particularly brilliant of all stainless steels.  
 Cylindrical shape. Grain 60.

Head Ø and height	mm	50x30	60x30
<b>7879GA</b>	Each	22,90	26,30


**7879GA**  
*new*


### FELT POLISHING POINTS

**7879GE****Orig. Erzett**

Connection Ø 3mm, length approx. 40mm.

In wool felt H3 DIN61200.

For cleaning and mirror polishing moulds and shells.

Indicated peripheral speed max 10 m/sec.

Cylindrical shape.

Head Ø and height	mm	6x10	8x10	10x12	12x15
<b>7879GE</b>	Each	3,66	3,66	3,70	3,66

For converters see Art. 8148 A - G.

**7879GF**

Product description as Art. 7879GE

Cylindrical pointed nose.

Head Ø and height	mm	6x10	10x12
<b>7879GF</b>	Each	3,78	3,78

For converters see Art. 8148 A - G.

**7879GL**

Product description as Art. 7879GE

Sphere shape.

Head Ø	mm	6	8	10
<b>7879GL</b>	Each	3,66	3,74	3,98

For converters see Art. 8148 A - G.

**7880G**

Connection Ø 6mm, length approx. 40mm.

In wool felt H3 DIN61200.

For cleaning and mirror polishing moulds and shells.

Indicated peripheral speed max 10 m/sec.

Cylindrical shape.

Head Ø and height	mm	10x15	12x20	16x20	20x25	25x30	30x40
<b>7880G</b>	Each	3,78	3,94	4,04	4,36	6,72	9,14

**7881G**

Product description as Art. 7880G

Conical shape.

Head Ø and height	mm	16x20	20x25	25x30	30x40
<b>7881G</b>	Each	3,94	4,60	7,06	9,14

**7882G**

Product description as Art. 7880G

Cylindrical pointed nose.

Head Ø and height	mm	12x20	20x25	25x30	30x40
<b>7882G</b>	Each	3,94	4,56	6,78	9,24

**7883G**

Product description as Art. 7880G

Sphere shape.

Head Ø	mm	20
<b>7883G</b>	Each	6,58

### BORNTRID GRINDING POINTS

**7884GA****Prod. SCU**

Special type with borntrid surface, long duration and high performance.

Particularly indicated for working alloy steel, hardened steel, stainless steel, etc.

Revolving speed up to 20 m/sec.

Medium grit (B 126).

Cylindrical shape.

Size		6	7	8	9	10	11	12
Head Ø and height	mm	1x3	1,5x3	2x5	2,5x5	3x5	4x5	5x6
DRIVE Ø	mm	3	3	3	3	3	3	3
Overall length	mm	40	40	40	40	40	40	40
<b>7884GA</b>	Each	14,40	14,40	14,40	14,40	14,40	14,40	14,40

Size		13	14	15
Head Ø and height	mm	6x7	8x10	10x10
DRIVE Ø	mm	3	6	6
Overall length	mm	40	60	60
<b>7884GA</b>	Each	14,40	26,30	34,40



**DIAMOND GRINDING POINTS**

**Prod. SCU**

Special type with diamond surface, long duration and high performance.  
 Particularly indicated for working hard metal, hardened steel, glass, ceramics, etc.  
 Revolving speed up to 20 m/sec.  
 Medium grit (B 126).  
 Cylindrical shape.



Size	1	2	3	4	5	6	7
Head Ø and height	mm 2x5	3x5	4x6	5x6	6x6	1x3	1,5x3
DRIVE Ø	mm 2,35	2,35	2,35	2,35	2,35	3	3
Overall length	mm 40	40	40	40	40	40	40
<b>7884GP</b>	<b>Each 12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>12,80</b>
Size	8	9	10	11	12	13	14
Head Ø and height	mm 2x5	2,5x5	3x5	4x5	5x6	6x7	8x10
DRIVE Ø	mm 3	3	3	3	3	3	6
Overall length	mm 40	40	40	40	40	40	60
<b>7884GP</b>	<b>Each 12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>24,40</b>
Size	15						
Head Ø and height	mm 10x10						
DRIVE Ø	mm 6						
Overall length	mm 60						
<b>7884GP</b>	<b>Each 32,50</b>						



Product description as Art. 7884GP

Sphere shape.



Size	1	2	3	4	5	6	7
Head Ø	mm 2	3	4	5	2	3	4
DRIVE Ø	mm 2,35	2,35	2,35	2,35	3	3	3
Overall length	mm 40	40	40	40	40	40	40
<b>7884GS</b>	<b>Each 12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>12,30</b>	<b>12,30</b>	<b>12,30</b>
Size	8	9	10	11	12		
Head Ø	mm 5	6	8	10	12		
DRIVE Ø	mm 3	3	6	6	6		
Overall length	mm 40	40	60	60	60		
<b>7884GS</b>	<b>Each 12,30</b>	<b>12,30</b>	<b>31,30</b>	<b>35,50</b>	<b>49,50</b>		



Special type with diamond surface, long duration and high performance.  
 Particularly indicated for working hard metal, hardened steel, glass, ceramics, etc.  
 Revolving speed up to 20 m/sec. Medium grit (D 126).



Cylindrical round nose.

Size	1	2	3	4	5	6	7
Head Ø and height	mm 3x15	4x10	5x10	6x10	8x10	10x10	6x20
DRIVE Ø	mm 3	3	3	3	3	3	6
Overall length	mm 40	40	40	40	40	40	60
<b>7884GT</b>	<b>Each 14,40</b>	<b>14,90</b>	<b>15,60</b>	<b>18,40</b>	<b>26,10</b>	<b>33,90</b>	<b>19,20</b>
Size	8	9	10	11	12	13	14
Head Ø and height	mm 8x15	10x15	12x15	14x15	16x15	18x15	20x15
DRIVE Ø	mm 6	6	6	6	6	6	6
Overall length	mm 60	60	60	60	60	60	60
<b>7884GT</b>	<b>Each 26,10</b>	<b>33,90</b>	<b>38,60</b>	<b>42,70</b>	<b>46,40</b>	<b>48,40</b>	<b>50,30</b>



Product description as Art. 7884GT

Cylindrical pointed nose.



Size	1	2	3	4	5	6
Head Ø and height	mm 4x8	5x10	6x10	7x12	8x13	10x15
DRIVE Ø	mm 3	3	3	3	3	3
Overall length	mm 40	40	40	40	40	40
<b>7884GV</b>	<b>Each 24,40</b>	<b>27,10</b>	<b>29,10</b>	<b>34,90</b>	<b>39,60</b>	<b>43,60</b>



Product description as Art. 7884GT

Conical shape - 60° top angle.



Size	1	2	3	4	5	6
Head Ø and height	mm 3x2,60	4x3,46	5x4,33	6x5,20	8x6,93	10x8,66
DRIVE Ø	mm 3	3	3	3	6	6
Overall length	mm 42,60	43,46	44,33	45,20	66,93	68,66
<b>7884GZ</b>	<b>Each 12,80</b>	<b>14,70</b>	<b>14,70</b>	<b>14,70</b>	<b>27,50</b>	<b>34,90</b>
Size	7	8	9	10	11	12
Head Ø and height	mm 12x10,40	14x12,12	15x12,99	16x13,86	18x15,59	20x17,32
DRIVE Ø	mm 6	6	6	6	6	6
Overall length	mm 70,40	72,12	72,99	73,86	75,59	77,32
<b>7884GZ</b>	<b>Each 40,30</b>	<b>42,40</b>	<b>47,70</b>	<b>49,60</b>	<b>51,50</b>	<b>55,20</b>



Prices in EURO - VAT not included

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**HOLDERS AND SELF FIXING, ABRASIVE DISCS**

**7885A**

**SCU**



**Prod. SCU**

Cylinder connection. Rubber body and holder. Apply on the holder the abrasive, flexible, SELF-ADHESIVE disks Art. 7885 E/F. Use these disks to grind, clean and polish, quickly and perfectly.

Holders

Ø	mm	18	30	45	60	75		
DRIVE Ø	mm	6	6	6	6	6		
<b>7885A</b>	<b>Each</b>	<b>5,80</b>	<b>6,34</b>	<b>6,86</b>	<b>8,54</b>	<b>9,10</b>		

On request, Ø 18 and 30mm are supplied with connection 3mm. Minimum quantity 5 pcs. per Ø.

**7885E**

**SCU**



Product description as Art. 7885A

Corundum disks for universal use on metal materials.

Ø	mm	18	30	45	60	75	18	30	45
Grain		60	60	60	60	60	80	80	80
Rotation speed	rev/min	30000	30000	25000	15000	12000	30000	30000	25000
<b>7885E</b>	<b>Each</b>	<b>0,34</b>	<b>0,48</b>	<b>0,72</b>	<b>1,00</b>	<b>1,50</b>	<b>0,34</b>	<b>0,48</b>	<b>0,72</b>
Ø	mm	60	75	18	30	45	60	75	18
Grain		80	80	120	120	120	120	120	150
Rotation speed	rev/min	15000	12000	30000	30000	25000	15000	12000	30000
<b>7885E</b>	<b>Each</b>	<b>1,00</b>	<b>1,50</b>	<b>0,34</b>	<b>0,48</b>	<b>0,72</b>	<b>1,00</b>	<b>1,50</b>	<b>0,34</b>
Ø	mm	30	45	18	30	45	18	30	45
Grain		150	150	180	180	180	240	240	240
Rotation speed	rev/min	30000	25000	30000	30000	25000	30000	30000	25000
<b>7885E</b>	<b>Each</b>	<b>0,48</b>	<b>0,72</b>	<b>0,34</b>	<b>0,48</b>	<b>0,72</b>	<b>0,34</b>	<b>0,48</b>	<b>0,72</b>

**7885F**

**SCU**



Product description as Art. 7885A

Zirconium disks for resistant and stainless steels.

Ø	mm	18	30	45	60	75	18	30	45
Grain		60	60	60	60	60	80	80	80
Rotation speed	rev/min	30000	30000	25000	15000	12000	30000	30000	25000
<b>7885F</b>	<b>Each</b>	<b>0,40</b>	<b>0,54</b>	<b>0,82</b>	<b>1,18</b>	<b>1,80</b>	<b>0,40</b>	<b>0,54</b>	<b>0,82</b>
Ø	mm	60	75	18	30	45	60	75	
Grain		80	80	120	120	120	120	120	
Rotation speed	rev/min	15000	12000	30000	30000	25000	15000	12000	
<b>7885F</b>	<b>Each</b>	<b>1,18</b>	<b>1,80</b>	<b>0,40</b>	<b>0,54</b>	<b>0,82</b>	<b>1,18</b>	<b>1,80</b>	

**7886GA**

**ERZETT**



**Orig. Erzett**

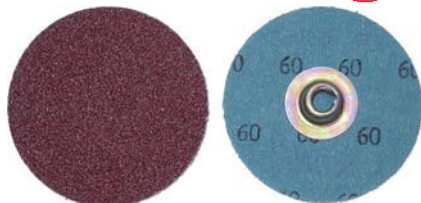
Quick clamping system with metal holders and flanged discs for easy replacement, high tightness and max. centering of the abrasive disc. Apply on the holder the abrasive, flexible discs Art. 7886 GE/L.

Medium hardness rubber holders

For discs Ø	mm	38	50
Support Ø	mm	31	45
DRIVE Ø	mm	6	6
<b>7886GA</b>	<b>Each</b>	<b>19,60</b>	<b>20,40</b>

**7886GE**

**ERZETT**



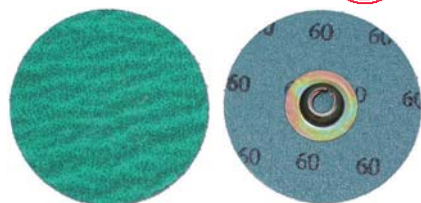
Product description as Art. 7886GA

Discs in special corundum, long lasting. Universal use on metallic materials.

Ø	mm	38	50	38	50	38	50
Grain		60	60	80	80	120	120
Rotation speed	rev/min	30000	30000	30000	30000	30000	30000
<b>7886GE</b>	<b>Each</b>	<b>0,76</b>	<b>1,16</b>	<b>0,80</b>	<b>1,10</b>	<b>0,80</b>	<b>1,14</b>

**7886GL**

**ERZETT**



Product description as Art. 7886GA

Discs in zinc-corundum with special abrasive surface. Very high performance use on STAINLESS steels and relative alloys.

Ø	mm	38	50	38	50	38	50
Grain		60	60	80	80	120	120
Rotation speed	rev/min	30000	30000	30000	30000	30000	30000
<b>7886GL</b>	<b>Each</b>	<b>0,90</b>	<b>1,20</b>	<b>0,90</b>	<b>1,20</b>	<b>0,90</b>	<b>1,20</b>

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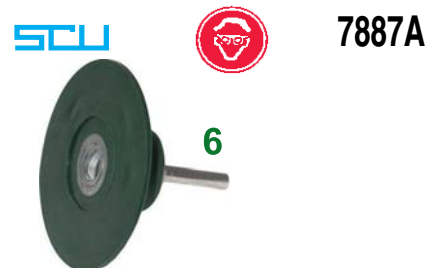
**Prod. SCU**

Quick clamping system with holders and flanged discs for easy replacement. High work efficiency, cost effective. Apply on the holder the abrasive, flexible discs Art. 7887 E to 7887 V.

Medium hardness rubber holders.

Speed 30000/28000 rev/min.

For discs Ø	mm	50	75
Drive Ø	mm	6	6
<b>7887A</b>	<b>Each</b>	<b>14,90</b>	<b>16,40</b>



Product description as Art. 7887A

Medium hardness rubber holders.

Speed 30000/28000 rev/min.

For discs Ø	mm	50	75
Threaded drive	M	14	14
<b>7887B</b>	<b>Each</b>	<b>13,60</b>	<b>15,40</b>

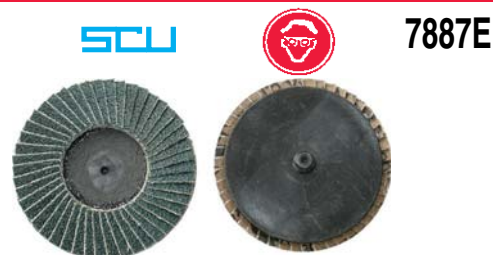


Product description as Art. 7887A

Lamellar discs in corundum. Universal use on ferrous metals and steels.

Ø	mm	50	75	50	75	50	75
Grain		60	60	80	80	120	120
Rotation speed	rev/min	25000	20000	25000	20000	25000	20000
<b>7887E</b>	<b>Each</b>	<b>3,70</b>	<b>4,92</b>	<b>3,70</b>	<b>4,92</b>	<b>3,70</b>	<b>4,92</b>

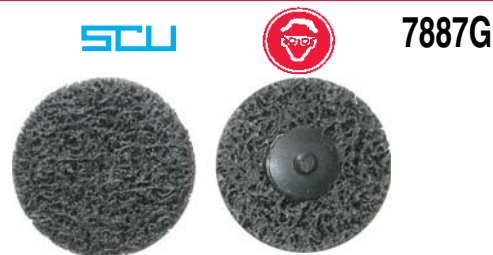
When stocks run out the zirconium version will be supplied instead of the corundum version.



Product description as Art. 7887A

Abrasive discs in high-padding, spunbonded fabric. Indicated for deoxidising, cleaning rusts, deburring, paint removing from metals, woods, plasters, cement, etc.

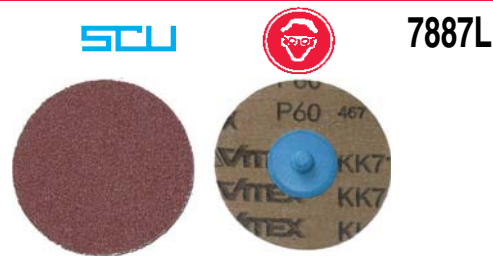
Ø	mm	50	75
Rotation speed	rev/min	12000	8000
<b>7887G</b>	<b>Each</b>	<b>4,72</b>	<b>7,86</b>



Product description as Art. 7887A

Abrasive discs in corundum. Universal use on metal materials.

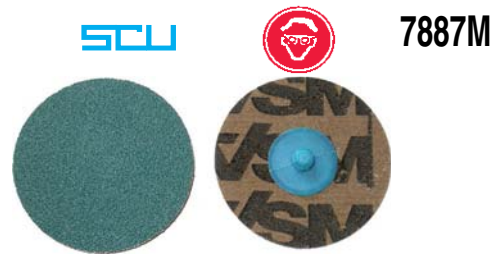
Ø	mm	50	75	50	75	50	75
Grain		60	60	80	80	120	120
Rotation speed	rev/min	25000	20000	25000	20000	25000	20000
<b>7887L</b>	<b>Each</b>	<b>0,80</b>	<b>1,24</b>	<b>0,80</b>	<b>1,24</b>	<b>0,80</b>	<b>1,24</b>



Product description as Art. 7887A

Abrasive discs in zirconium, aggressive and sturdy surfaces on soft steels, stainless steel and steel alloys.

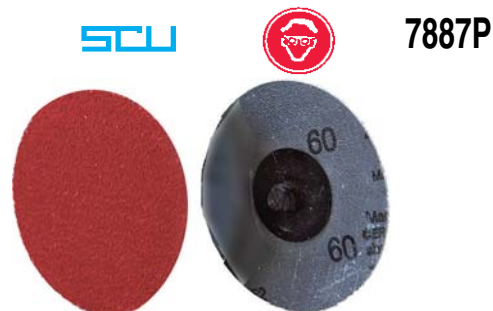
Ø	mm	50	75	50	75	50	75
Grain		60	60	80	80	120	120
Rotation speed	rev/min	25000	20000	25000	20000	25000	20000
<b>7887M</b>	<b>Each</b>	<b>0,80</b>	<b>1,32</b>	<b>0,80</b>	<b>1,32</b>	<b>0,80</b>	<b>1,32</b>



Product description as Art. 7887A

Discs in ceramic abrasive, high removal capacity and special cooling surface for a longer lifetime in high resistance and strength metal working.

Ø	mm	50	75	50	75	50	75
Grain		36	36	60	60	80	80
Rotation speed	rev/min	25000	20000	25000	20000	25000	20000
<b>7887P</b>	<b>Each</b>	<b>1,28</b>	<b>1,76</b>	<b>1,20</b>	<b>1,54</b>	<b>1,20</b>	<b>1,54</b>



### 7887R



Product description as Art. 7887A

Discs in synthetic fibre material and abrasive surface for deoxidising, surface gap filling and making surfaces ready for polishing steels, stainless steel, Cromo-Nickel, light alloys, soft metals, woods, etc.

Type		1	2	3	4	5	6
Ø	mm	50	75	50	75	50	75
Grain		coarse	coarse	medium	medium	very fine	very fine
Rotation speed	rev/min	12000	8000	12000	8000	12000	8000
<b>7887R</b>	<b>Each</b>	<b>1,46</b>	<b>2,48</b>	<b>1,46</b>	<b>2,48</b>	<b>1,46</b>	<b>2,48</b>

### 7887S



Product description as Art. 7887A

Discs in fibre material for finishing and polishing metals and painted surfaces.

Type		1	2	3	4	5	6
Ø	mm	50	75	50	75	50	75
Grain		coarse	coarse	medium	medium	very fine	very fine
Rotation speed	rev/min	12000	8000	12000	8000	12000	8000
<b>7887S</b>	<b>Each</b>	<b>1,42</b>	<b>2,42</b>	<b>1,42</b>	<b>2,42</b>	<b>1,42</b>	<b>2,42</b>

### 7887V



Product description as Art. 7887A

Discs in wool felt for grinding and mirror polishing metals, copper, brass, aluminium, steels, stainless steel, etc.

To be used in combination with grinding pastes (Art. 1834 - 1834 A - 1834 B).

Ø	mm	50	75
Rotation speed	rev/min	12000	8000
<b>7887V</b>	<b>Each</b>	<b>2,30</b>	<b>3,22</b>

## ABRASIVE BELTS

### 7889G 7890G 7891G 7892G



Orig. Erzett

In Corundum. Optimal speed range 25 - 40 m/sec. Particularly indicated to roughing, cleaning, polishing wood, steel and cast iron surfaces.

Can be used on rubber holders Art. 7896 G.

Package units of 50pcs. (25 pcs. size 100x40mm).

Grit 40.

Ring height and Ø	mm	15x30	25x25	30x30	45x30
<b>7889G</b>	<b>Each</b>	<b>0,82</b>	<b>0,82</b>	<b>0,92</b>	<b>1,20</b>

Product description as Art. 7889G

Grit 60.

Ring height and Ø	mm	15x30	22x20	25x25	30x30	45x30	60x30
<b>7890G</b>	<b>Each</b>	<b>0,82</b>	<b>0,58</b>	<b>0,82</b>	<b>0,92</b>	<b>1,20</b>	<b>1,40</b>

Product description as Art. 7889G

Grit 80.

Ring height and Ø	mm	10x20	12x25	15x30	22x20	25x25	30x30	45x30
<b>7891G</b>	<b>Each</b>	<b>0,82</b>	<b>0,80</b>	<b>0,82</b>	<b>0,58</b>	<b>0,82</b>	<b>0,92</b>	<b>1,20</b>

Product description as Art. 7889G

Grit 150.

Ring height and Ø	mm	10x20	15x30	22x20	30x30
<b>7892G</b>	<b>Each</b>	<b>0,82</b>	<b>0,82</b>	<b>0,58</b>	<b>0,92</b>

### 7893GA 7893GE 7893GF



Made from Zinc-corundum, optimum speed from 25 to 40 m/sec. Particularly designed to machine stainless steel and its alloys, for increased removal and duration. For use on rubber supports Art. 7896 G.

Pack of 50 pcs.

Grit 36.

Ring height and Ø	mm	30x30	45x30
<b>7893GA</b>	<b>Each</b>	<b>1,14</b>	<b>1,44</b>

Product description as Art. 7893GA

Grit 60.

Ring height and Ø	mm	30x30	45x30	60x30
<b>7893GE</b>	<b>Each</b>	<b>1,14</b>	<b>1,44</b>	<b>1,72</b>

Product description as Art. 7893GA

Grit 80.

Ring height and Ø	mm	30x30	45x30	60x30
<b>7893GF</b>	<b>Each</b>	<b>1,14</b>	<b>1,44</b>	<b>1,72</b>

Ceramic material. Especially developed for STAINLESS STEEL machines, alloys and nickel alloys, to provide greater cutting and durability. Can be used on rubber mounts. 7,896 g.

Pack of PCs. 50 (size 60 x 30 mm 25 PCs.).

Grain 40.

Ring height and Ø	mm	30x30	45x30	60x30
<b>7893GL</b>	Each	1,40	1,86	2,26

Product description as Art. 7893GL

Grain 60.

Ring height and Ø	mm	30x30	45x30	60x30
<b>7893GM</b>	Each	1,40	1,86	2,26



**7893GL**  
**7893GM**



**Prod. SCU**

In Corundum. Optimal price/quality ratio. Speed range 25 - 40 m/sec. Particularly indicated to roughing, cleaning, polishing wood, steel and cast iron surfaces.

Can be used on rubber holders Art. 7896 G.

Package units of 100pcs.

Grit 40.

Ring height and Ø	mm	15x30	20x30	22x20	25x25	30x30	45x30	60x30	75x30
<b>7894A</b>	Each	0,34	0,40	0,34	0,44	0,52	0,66	0,74	0,96

Product description as Art. 7894A

Grit 60.

Ring height and Ø	mm	10x10	10x20	13x25	15x30	20x30	22x20	25x25
<b>7894B</b>	Each	0,22	0,26	0,34	0,34	0,40	0,30	0,40

Ring height and Ø	mm	30x30	45x30	60x30	75x30
<b>7894B</b>	Each	0,48	0,62	0,70	0,88

Product description as Art. 7894A

Grit 80.

Ring height and Ø	mm	10x10	10x20	13x25	15x30	20x30	22x20	25x25
<b>7894E</b>	Each	0,22	0,26	0,34	0,34	0,40	0,30	0,40

Ring height and Ø	mm	30x30	45x30	60x30	75x30
<b>7894E</b>	Each	0,48	0,62	0,70	0,88

Product description as Art. 7894A

Grit 120.

Ring height and Ø	mm	10x10	10x20	13x25	15x30	20x30	22x20	25x25
<b>7894F</b>	Each	0,22	0,26	0,34	0,34	0,40	0,30	0,40

Ring height and Ø	mm	30x30	45x30	60x30	75x30
<b>7894F</b>	Each	0,48	0,62	0,70	0,88



**7894A**  
**7894B**  
**7894E**  
**7894F**



In Zirco-corundum, reinforced. Optimal price/quality ratio. Speed range 25 - 40 m/sec. Particularly indicated for roughing, cleaning, polishing surfaces of forged steel, high chipable metals, stainless steel, plastic, titanium and titanium alloys.

Can be used on rubber holders Art. 7896 T.

Package unit of 100pcs.

Grit 40.

Ring height and Ø	mm	15x30	20x30	22x20	25x25	30x30	45x30	60x30
<b>7894L</b>	Each	0,40	0,44	0,38	0,48	0,56	0,70	0,80

Ring height and Ø	mm	75x30
<b>7894L</b>	Each	1,02

Product description as Art. 7894L

Grit 60.

Ring height and Ø	mm	10x20	13x25	15x30	20x30	22x20	25x25	30x30
<b>7894P</b>	Each	0,30	0,38	0,38	0,44	0,34	0,44	0,48

Ring height and Ø	mm	45x30	60x30	75x30
<b>7894P</b>	Each	0,66	0,74	0,96

Product description as Art. 7894L

Grit 80.

Ring height and Ø	mm	10x20	13x25	15x30	20x30	22x20	25x25	30x30
<b>7894R</b>	Each	0,30	0,38	0,38	0,44	0,34	0,44	0,48

Ring height and Ø	mm	45x30	60x30	75x30
<b>7894R</b>	Each	0,66	0,74	0,96

Product description as Art. 7894L

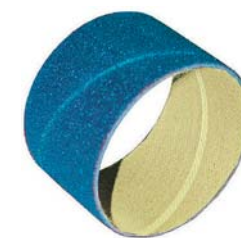
Grit 120.

Ring height and Ø	mm	10x20	13x25	15x30	20x30	22x20	25x25	30x30
<b>7894S</b>	Each	0,30	0,38	0,38	0,44	0,34	0,44	0,48

Ring height and Ø	mm	45x30	60x30	75x30
<b>7894S</b>	Each	0,66	0,74	0,96



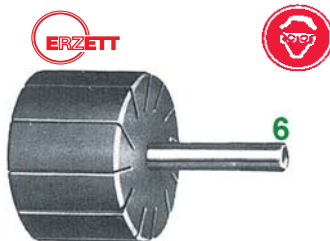
**7894L**  
**7894P**  
**7894R**  
**7894S**



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### BELT CARRIERS

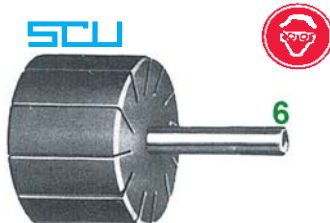
7896G

**Orig. Erzett**

Belt carrier with self-expanding locking system operated by centrifugal force.  
For Art. 7889G - 7890G - 7891G - 7892G - 7893GA - 7893GE - 7893GF.  
Shank Ø mm 6.

Support height and Ø	mm	10x20	12x25	15x30	22x20	25x25	30x30	45x30
<b>7896G</b>	Each	15,10	15,10	15,10	12,50	16,70	14,70	17,10
Support height and Ø	mm	<b>60x30</b>						
<b>7896G</b>	Each	21,50						

7896T

**Prod. SCU**

Belt carrier with self-expanding locking system operated by centrifugal force.  
For Art. 7894 A-B-E-F-L-P-R-S. Connection Ø 6mm (only size 75x30mm, connection 8mm).

Support height and Ø	mm	10x10	10x20	13x25	15x30	20x30	22x20	25x25	
<b>7896T</b>	Each	6,62	7,76	8,16	9,40	11,40	9,90	11,40	
Support height and Ø	mm	<b>30x30</b>				<b>45x30</b>		<b>60x30</b>	
<b>7896T</b>	Each	12,10		13,50		15,80		18,40	

### ABRASIVE BELTS CONICAL SHAPE

7897  
7898  
7899  
7900**Prod. SCU**

In Zirco-corundum. Optimal price/quality ratio. Speed range 25 - 40 m/sec. Particularly indicated for roughing, cleaning, polishing surfaces of wood, steel, cast iron, and stainless steel.  
Can be used on rubber holders Art. 7902. Package unit of 100pcs.

Grit 40.

Height	mm	30	60
Upper and lower Ø	mm	22/29	22/36
<b>7897</b>	Each	1,32	1,58

Product description as Art. 7897

Grit 60.

Height	mm	30	60
Upper and lower Ø	mm	22/29	22/36
<b>7898</b>	Each	1,28	1,46

Product description as Art. 7897

Grit 80.

Height	mm	30	60
Upper and lower Ø	mm	22/29	22/36
<b>7899</b>	Each	1,28	1,46

Product description as Art. 7897

Grit 120.

Height	mm	30	60
Upper and lower Ø	mm	22/29	22/36
<b>7900</b>	Each	1,28	1,46

### ABRASIVE BELTS CONICAL SHAPE

7902

**Prod. SCU**

Belt carrier with self-expanding locking system operated by centrifugal force.  
Connection Ø 6mm.

For Art. 7897 - 7898 - 7899 - 7900.

Height	mm	30	60
<b>7902</b>	Each	10,40	14,30

### GRINDING CAPS

7904G  
7905G  
7906G**Orig. Erzett**

In Corundum. Optimal speed range 25 - 40 m/sec. Particularly indicated for roughing, cleaning, polishing surfaces of wood, steel and cast iron.  
Can be used on rubber holders Art. 7913 G. Package unit of 100pcs.

Grit 80.

Ø	mm	5	7	10	13
Height	mm	10	12	15	17
<b>7904G</b>	Each	0,90	0,92	0,96	1,14

Product description as Art. 7904G

Grit 150

Ø	mm	5	7	10	13
Height	mm	10	12	15	17
<b>7905G</b>	Each	0,90	0,92	0,96	1,10

Product description as Art. 7904G

Grit 320.

Ø	mm	5	7	10	13
Height	mm	10	12	15	17
<b>7906G</b>	Each	0,90	0,92	0,96	1,10

In NKS Corundum special. Optimum speed from 25 to 40 m/sec. Particularly suitable for grinding, cleaning, polishing of stainless steel, high strength steels, tool steels.

Can be used on rubber mounts. 7,913 g.

Pack of PCs. 100.

Grain 60.

Ø	mm	7	10
Height	mm	12	15
<b>7907G</b>	<b>Each</b>	<b>1,14</b>	<b>1,16</b>

Product description as Art. 7907G

Grain 80.

Ø	mm	5	7	10
Height	mm	10	12	15
<b>7908G</b>	<b>Each</b>	<b>0,90</b>	<b>1,14</b>	<b>1,16</b>

Product description as Art. 7907G

Grain 150.

Ø	mm	5	7	10
Height	mm	10	12	15
<b>7909G</b>	<b>Each</b>	<b>1,06</b>	<b>1,14</b>	<b>1,16</b>



**7907G**  
**7908G**  
**7909G**



In Corundum. Optimal speed range 25 - 40 m/sec. Particularly indicated for roughing, cleaning, polishing surfaces of wood, steel and cast iron.

Can be used on rubber holders Art. 7915 G.

Package unit of 100pcs.

Grit 80.

Ø	mm	5	7	10	13	16
Height	mm	11	13	15	19	26
<b>7910G</b>	<b>Each</b>	<b>0,98</b>	<b>0,92</b>	<b>0,96</b>	<b>1,14</b>	<b>1,30</b>

Product description as Art. 7910G

Grit 150.

Ø	mm	5	7	10	13
Height	mm	11	13	15	19
<b>7911G</b>	<b>Each</b>	<b>0,90</b>	<b>0,92</b>	<b>0,96</b>	<b>1,14</b>

Product description as Art. 7910G

Grit 320.

Ø	mm	5	7
Height	mm	11	13
<b>7912G</b>	<b>Each</b>	<b>0,90</b>	<b>0,92</b>



**7910G**  
**7911G**  
**7912G**



In special NKS corundum. Maximum speed ranges from 25 to 40 m/sec. Particularly suitable for grinding, cleaning, polishing stainless steel, high strength steels, tool based steels.

Can be used on rubber mounts. 7,915 g.

Pack of PCs. 100.

Grain 60.

Ø	mm	7	10	13
Height	mm	13	15	19
<b>7912GE</b>	<b>Each</b>	<b>1,14</b>	<b>1,16</b>	<b>1,38</b>

Product description as Art. 7912GE

Grain 80.

Ø	mm	5	7	10	13
Height	mm	11	13	15	19
<b>7912GF</b>	<b>Each</b>	<b>1,06</b>	<b>1,14</b>	<b>1,16</b>	<b>1,38</b>

Product description as Art. 7912GE

Grain 150.

Ø	mm	5	7	10	13
Height	mm	11	13	15	19
<b>7912GL</b>	<b>Each</b>	<b>1,06</b>	<b>1,14</b>	<b>1,16</b>	<b>1,38</b>



**7912GE**  
**7912GF**  
**7912GL**



**RUBBER HOLDERS**

**Orig. Erzett**

Rubber supports with self-expanding locking system operate by centrifugal force.

For Art. 7904 G - 7905 G - 7906 G - 7907 G - 7908 G - 7909 G.

COUPLING Ø 3mm.

Ø	mm	5	7	10	13
Height	mm	10	12	15	17
Use	rev/min	57000	42000	30000	23000
<b>7913G</b>	<b>Each</b>	<b>7,20</b>	<b>7,56</b>	<b>7,80</b>	<b>7,80</b>



**7913G**



For converters see Art. 8148 A - G.

### 7915G



Rubber supports with self-expanding locking system operate by centrifugal force.

For Art. 7910 G - 7911 G - 7912 G - 7913 G - 7914 G - 7915 G.

COUPLING Ø 3mm.

Ø	mm	5	7	10	13	16
Height	mm	11	13	15	19	26
Use	rev/min	57000	42000	30000	23000	18000
	<b>7915G</b>	<b>Each</b>	<b>7,20</b>	<b>7,56</b>	<b>7,56</b>	<b>7,98</b>

For converters see Art. 8148 A - G.

### GRINDING CAPS

### 7917G 7918G



**Orig. Erzett**

In Corundum. Optimal speed range 25 - 40 m/sec. Particularly indicated for roughing, cleaning, polishing surfaces of wood, steel and cast iron.

Can be used on rubber holders Art. 7921 G.

Package unit Caps for Ø 5 and 11 = pcs. 100.

Package unit Caps for Ø 16 and 21 = pcs. 25.

Caps, grit 80.

Ø	mm	5	11	16	21
Height	mm	15	25	32	40
	<b>7917G</b>	<b>Each</b>	<b>1,14</b>	<b>1,30</b>	<b>1,48</b>

Product description as Art. 7917G

Caps, grit 150.

Ø	mm	5	11
Height	mm	15	25
	<b>7918G</b>	<b>Each</b>	<b>1,14</b>

### RUBBER HOLDERS

### 7921G



**Orig. Erzett**

Rubber holders.

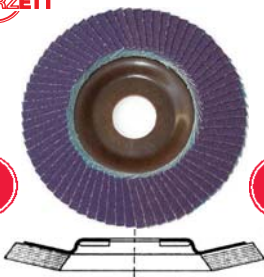
For Art. 7917 G - 7918 G.

Connection Ø 6mm.

Ø	mm	5	11	16	21
Use	rev/min	57000	27000	18000	14000
	<b>7921G</b>	<b>Each</b>	<b>10,20</b>	<b>10,20</b>	<b>11,20</b>

### GRINDING WHEELS, "NAWAROFLEX" BACKING-PAD

### 7922GE



**Orig. Erzett**

Special NAWAROFLEX® patented backing-pad in ecological material.

Big elasticity, no danger of ruining the piece which is being worked and reduced noise.

Convex profile, with flaps in zirco corundum.

Indicated for polishing, deoxidising, deburring also hard steels and for eliminating weld beads.

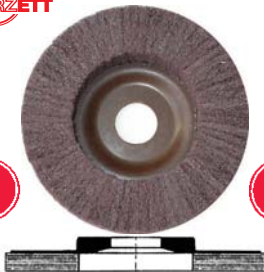
Speed 80 m/s. Hole 22.2mm.

Approved according to the German standard DSA 2720/2841.

Ø 115mm.

Grain		40	60	80
	<b>7922GE</b>	<b>Each</b>	<b>6,14</b>	<b>6,14</b>

### 7922GH



Special NAWAROFLEX® patented backing-pad in ecological material.

Big elasticity, no danger of ruining the piece which is being worked and reduced noise.

Flat profile, in synthetic fibre material and abrasive surface.

In corundum, for eliminating light oxidation and glazing metal surfaces.

Speed 30 m/s. Hole 22.2mm.

Ø 115mm - Extra Fine Grit, (A107).

	<b>7922GH</b>	<b>Each</b>	<b>11,30</b>
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### 7922GL



Product description as Art. 7922GH

Ø 115mm - Fine Grit, (A106).

	<b>7922GL</b>	<b>Each</b>	<b>10,60</b>
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**LAMELLAR FLAP DISCS, GLASS FIBRE BACKING-PAD**

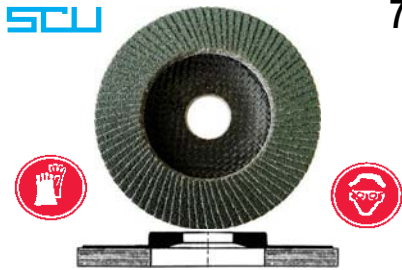
**Prod. SCU**

Flat model profile.  
Zirconium strip, interim fibreglass support. Suitable for cleaning, de-rusting, deburring metals, steels, stainless steels, weld beads and body work.  
Speed 13300 rev/min.  
Hole mm. 22.  
Ø 115 mm.

Grain		40	60	80	120
<b>7922GT</b>	Each	2,86	2,86	2,86	2,86

**SCU**

**7922GT**



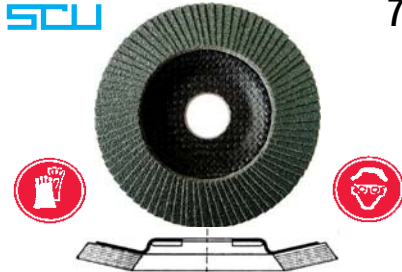
**Convex profile model.**

Zirconium strip, interim fibreglass support. Suitable for cleaning, de-rusting, deburring metals, steels, stainless steels, weld beads and body work.  
Speed 13300 rev/min.  
Hole mm. 22.  
Ø 115 mm.

Grain		40	60	80	120
<b>7922GV</b>	Each	2,86	2,86	2,86	2,86

**SCU**

**7922GV**



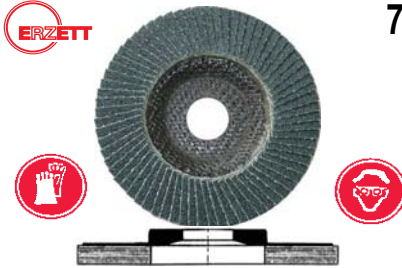
**Orig. Erzett**

Flat profile type.  
Zirco-corundum flaps, wired fibreglass backing-pad. Indicated for polishing, deoxidising, metal deburring, eliminating weld beads and body works.  
Speed 80 m/sec.  
Hole 22.2mm.  
Approved according to the German standard DSA 2962/3014.

Grain		40	60	80	120
<b>7923GA</b>	Each	3,24	3,24	3,24	3,24

**ERZETT**

**7923GA**



**Orig. Sonnenflex**

Product description as Art. 7923GA  
Speed 80 m/sec.  
Hole 22.2mm.  
Ø 125mm.

Grain		40	60	80	120
<b>7923GB</b>	Each	4,52	4,52	4,52	4,52

**Sonnenflex**  
Abrasive Germany

**7923GB**



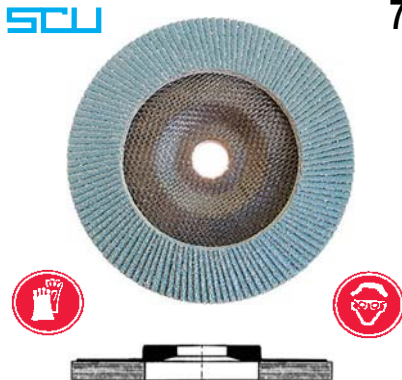
**Prod. SCU**

Flat profile model.  
Zirconium strip, interim fibreglass support. Suitable for cleaning, rust removal, deburring metals, steels, stainless steels, eliminating weld seams and for work on car frames.  
Speed 8500 rev/min.  
Hole mm. 22.  
Ø 180 mm.

Grain		40	60	80
<b>7923GF</b>	Each	6,34	6,34	6,34

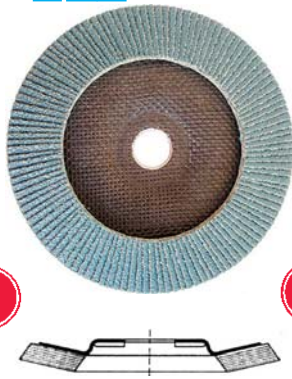
**SCU**

**7923GF**  
*new*



**7923GH**  
*new*

SCU



Convex profile model.  
Zirconium strip, interim fibreglass support. Suitable for cleaning, rust removal, deburring metals, steels, stainless steels, eliminating weld seams and for work on car frames.  
Speed 8500 rev/min.  
Hole mm. 22.  
Ø 180 mm.

Grain		40	60	80
<b>7923GH</b>	Each	6,34	6,34	6,34

**7923GL**

SCU



Flat model Zirconium blades with high abrasive power, interim fibreglass support material. Provides accurate proportion between cutting speed and duration. Suitable for cleaning, de-rusting, dribbling hard machining metals, and stainless metals.  
Speed 13300 rev/min.  
Hole mm. 22,2.  
Ø 115 mm.

Grain		40	60	80
<b>7923GL</b>	Each	4,02	4,02	4,02

**7923GM**

SCU



Convex profile Zirconium blades with high levels of abrasive power, interim fibre glass support. Provides accurate proportions between cutting speed and duration. Suitable for cleaning, de-rusting, dribbling hard machine metals, and stainless metals.  
Speed 13300 rev/min.  
Hole mm. 22,2.  
Ø 115 mm.

Grain		40	60	80
<b>7923GM</b>	Each	4,02	4,02	4,02

**7924GL**

Sonnenflex  
Abrasives Germany



**Orig. Sonnenflex**

Flat profile model.  
Made from lamellas corundum, and interim glass fibre supporting material. Is particularly thick, rounded on the board, and is particularly suitable for cleaning, de-rusting, drooling welds between angled surfaces, and use on stainless steel, cast iron, etc.  
Hole 22.2mm. Grain 40  
Pack of approximately 10 pcs.

		mm	115	125
Speed	rev/min		13300	12200
<b>7924GL</b>	Each		13,70	14,10

**7924GP**

SCU



**Prod. SCU**

Flat profile type.  
Flaps made from synthetic fibre material and abrasive surface. Wired glass fibre backing-pad. Indicated for deoxidising, polishing and finishing metals, Chrome-Nickel alloys, light alloys, soft metals, woods, etc.  
Speed 13,300 rev/min.  
Hole 22.2mm.  
Package unit approx. 10pcs.  
Ø 115mm.

Grain		1	2	4
		coarse	medium	very fine
<b>7924GP</b>	Each	12,30	12,30	12,30

12

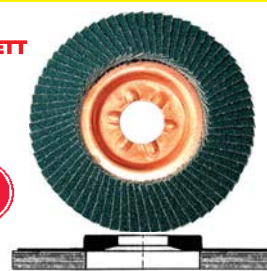
Prices in EU/RO - VAT not included

**LAMELLAR FLAP DISCS, METAL BACKING-PAD**

**Orig. Erzett**

Flat profile.  
Flaps in zirco corundum glued onto a metal backing-pad.  
Indicated for polishing, deoxidising, metal deburring, body works.  
Speed 80 m/s. Hole 22.2mm. Approved according to the German standard DSA 2604.  
Ø 115mm.

Grain		40	60	80
<b>7925G</b>	Each	5,28	5,14	5,28

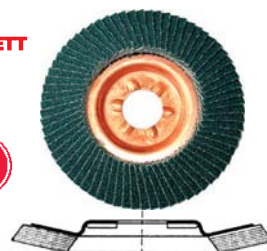


**7925G**

Convex profile.

Flaps in zirco corundum slot attached to a stable metal backing-pad.  
Very high performances and ideal working position because flaps have a 15° inclination.  
Indicated for polishing, deoxidising, deburring also hard metals, eliminating weld beads.  
Speed 80 m/s. Hole 22.2mm.  
Approved according to the German standard DSA 2604.  
Ø 115mm.

Grain		40	60	80	120
<b>7928G</b>	Each	5,28	5,28	5,28	5,28



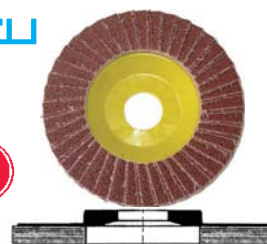
**7928G**

**LAMELLAR FLAP DISCS, NYLON BACKING-PAD**

**Prod. SCU**

Flat profile type.  
Corundum flaps, nylon backing-pad, double flaps with optimal anchoring to the backing-pad.  
Indicated to machine ferrous metals and steels.  
Speed 13,300 rev/min. Hole 22mm. Package unit ca. 20pcs .  
Diameter 115mm..

Grain		40	60	80	120
<b>7931A</b>	Each	2,18	2,18	2,20	2,18



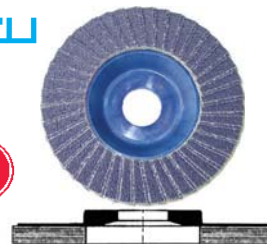
**7931A**

Flat profile type.

Zirconium flaps, nylon backing-pad, double flaps with optimal anchoring to the backing-pad.  
Indicated to machine stainless steel.  
Speed 13,300 rev/min.  
Hole 22mm. Package unit ca. 20pcs.  
Diameter 115mm..

Grain		40	50	60	80	120
<b>7931B</b>	Each	2,36	2,30	2,36	2,36	2,36

Grain 50: packaging indicative pcs. 10.  
Size 50 running out of stock.

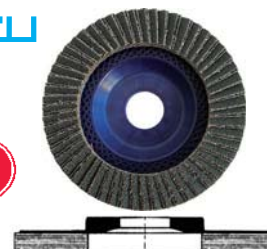


**7931B**

Flat profile model.

High performance and longer life.  
Zirconium blades, thick nylon support, two-blade assembly with excellent anchoring to the support. Suitable for machining stainless steel.  
Speed 13300 rev/min. Hole 22mm. Package indicative of pcs. 20.  
Ø 115 mm.

Grain		40	60	80
<b>7931BD</b>	Each	3,88	3,88	3,88



**7931BD**  
*new*

Flat-profile.

Zirconium flaps, very thick nylon packing-pad. Double flaps with optimal anchoring to the backing-pad. Indicated for stainless steel working.  
Speed 12,250 rev/min. Hole 22mm. Package unit approx. 10pcs.  
Ø 125mm.

Grain		40	60	80
<b>7931BE</b>	Each	4,12	4,12	4,12



**7931BE**

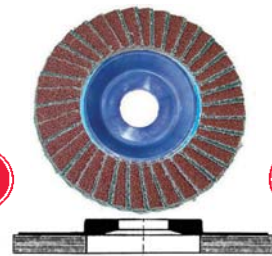
**7931BG**



Product description as Art. 7931BE  
Speed 8,500 rev/min. Hole 22mm. Package unit approx. 10pcs.  
Ø 180mm.

Grain		40	60	80
<b>7931BG</b>	Each	6,34	6,34	6,34

**7931L**



Flat profile type.  
Combination of zirconium-ceramic flaps, extra-thick nylon backing-pad, combined assembly with optimal anchoring to the backing-pad. Exceptional cutting speed to working life ratio. Indicated for universal machining of ferrous metals, steel and stainless steel.

Speed 13,300 rev/min. Hole 22mm. Package unit 20pcs.  
Diameter 115mm.

Grain		40	60	80
<b>7931L</b>	Each	4,34	4,34	4,34

**7931T**



Flat profile.  
High-padding, spunbonded fabric. Silicon carbide abrasive, glass fibre backing pad. Ideal for cleaning rusts, deburring, paint removing from metals, woods, plasters, cement. Does not ruin nor overheat the surface being worked.

Speed 10,000 rev/min.  
Hole Ø 22mm. Package unit ca. 5pcs.  
Diameter 115mm. Extra-coarse grit.

<b>7931T</b>	Each	8,48
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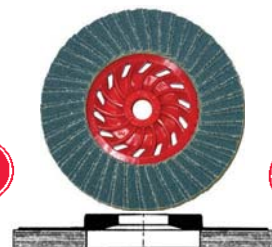
**7931V**



Product description as Art. 7931T  
Speed 9,800 rev/min.  
Hole Ø 22mm. Package unit approx. 10pcs.  
Ø 125mm. Extra-coarse grit.

<b>7931V</b>	Each	11,40
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**7932**



Flat-profile.  
Zirconium flaps, very thick nylon packing-pad. Self-ventilated for very efficient cooling. Double flaps with optimal anchoring to the backing-pad. Indicated for stainless steel working.  
Speed 13,300 rev/min. Threaded hole M 14. Package unit approx. 20pcs.  
Ø 115mm.

Grain		40	60	80
<b>7932</b>	Each	3,50	3,50	3,50

**ABRASIVE CLOTH LAMELLAR FAN GRINDERS**

**Orig. Erzett**

Corundum flaps.

For cleaning steels, cast irons, fusions and wood. Flexible flaps allow to clean irregular, rough, digged surfaces.

Connection Ø 6mm.



**7932G**

Ø and thickness	mm	40x15	50x20	60x20	60x30	60x40	80x30	80x50	30x10	40x10	40x15	40x20	50x15	50x20	60x20	60x30	60x40	60x30
Grain		40	40	40	40	40	40	40	60	60	60	60	60	60	60	60	60	60
<b>7932G</b>	<b>Each</b>	3,06	3,64	3,98	4,42	5,20	6,68	7,92	2,46	3,02	3,22	3,12	4,12	3,64	4,86	4,42		
Ø and thickness	mm	60x40	60x50	80x30	80x40	80x50	30x10	40x10	40x15	40x20	50x15	50x20	60x20	60x30	60x40	80x30	80x40	80x50
Grain		60	60	60	60	60	80	80	80	80	80	80	80	80	80	80	80	80
<b>7932G</b>	<b>Each</b>	5,20	6,38	6,68	7,92	7,92	2,46	2,98	3,16	3,12	4,12	3,64	4,76	4,42	5,20	6,68	5,20	6,68
Ø and thickness	mm	80x40	80x50	30x10	40x10	40x15	40x20	50x15	50x20	60x20	60x30	60x40	80x30	80x50	30x10	40x15	40x20	40x15
Grain		80	80	120	120	120	120	120	120	120	120	120	120	120	150	150	150	150
<b>7932G</b>	<b>Each</b>	7,92	7,92	2,46	3,12	3,30	3,26	4,12	4,86	5,14	4,70	5,20	6,68	7,92	2,46	3,30	3,94	5,10
Ø and thickness	mm	40x20	50x15	50x20	60x30	80x20	30x10	40x20	50x10	50x20	60x30	30x10	40x20	50x20	60x30	30x10	40x20	50x20
Grain		150	150	150	150	150	240	240	240	240	240	320	320	320	320	320	320	320
<b>7932G</b>	<b>Each</b>	3,26	4,12	3,94	4,70	6,30	2,44	3,26	3,30	3,94	5,10	2,44	3,30	3,94	5,10			

Product description as Art. 7932G

Connection Ø 3mm.

Ø and thickness	mm	20x10	25x10	30x5	30x10	40x10	20x10	25x10
Grain		80	80	80	80	80	120	120
<b>7933G</b>	<b>Each</b>	2,54	2,54	2,64	2,68	2,88	2,54	2,54
Ø and thickness	mm	30x5	30x10	40x10	20x10	25x10	30x5	30x10
Grain		120	120	120	150	150	150	150
<b>7933G</b>	<b>Each</b>	2,64	2,70	2,88	2,54	2,54	2,58	2,64
Ø and thickness	mm	40x10	30x5	30x10	30x5	30x10		
Grain		150	240	240	320	320		
<b>7933G</b>	<b>Each</b>	3,26	2,60	2,82	2,68	2,82		

For converters see Art. 8148 A - G



**7933G**

**Prod. SCU**

Corundum flaps.

Optimum price/quality ratio.

For cleaning steels, cast irons, fusions and wood. Flexible flaps allow to clean irregular, rough, digged surfaces.

Connection Ø 6mm.



**7934**

Ø and thickness	mm	40x15	50x20	60x20	60x30	60x40	80x30	20x15	30x5	30x10	30x15	40x10	40x15	40x20	50x10
Grain		40	40	40	40	40	40	60	60	60	60	60	60	60	60
<b>7934</b>	<b>Each</b>	2,50	2,96	3,44	4,02	4,88	5,58	2,36	2,64	2,30	2,36	2,28	2,50	2,60	2,66
Ø and thickness	mm	50x20	50x30	60x15	60x20	60x30	60x40	80x20	80x30	80x40	80x50	20x15	30x5	30x10	30x15
Grain		60	60	60	60	60	60	60	60	60	60	80	80	80	80
<b>7934</b>	<b>Each</b>	2,96	3,30	3,52	3,44	4,02	4,88	4,70	5,58	6,72	7,64	2,36	2,64	2,30	2,36
Ø and thickness	mm	40x10	40x15	40x20	50x10	50x20	50x30	60x15	60x20	60x30	60x40	80x20	80x30	80x40	80x50
Grain		80	80	80	80	80	80	80	80	80	80	80	80	80	80
<b>7934</b>	<b>Each</b>	2,28	2,54	2,64	2,68	3,00	3,44	3,54	3,48	4,06	4,92	4,70	5,70	6,90	7,82
Ø and thickness	mm	20x15	30x5	30x10	30x15	40x15	40x20	50x20	50x30	60x15	60x20	60x30	60x40	80x30	80x40
Grain		120	120	120	120	120	120	120	120	120	120	120	120	120	120
<b>7934</b>	<b>Each</b>	2,40	2,66	2,32	2,40	2,60	2,72	3,14	3,58	3,70	3,58	4,20	5,16	6,04	7,40
Ø and thickness	mm	80x50	30x5	30x10	40x20	60x30	30x20	40x20	50x30	60x20	60x30				
Grain		120	240	240	240	240	320	320	320	320	320				
<b>7934</b>	<b>Each</b>	8,42	2,82	2,46	2,80	4,82	2,72	3,00	4,10	4,18	5,14				

Product description as Art. 7934

Connection Ø 3mm.

Ø and thickness	mm	10x10	15x15	15x20	30x5	10x10	15x15	15x20
Grain		80	80	80	80	120	120	120
<b>7934E</b>	<b>Each</b>	2,80	2,80	2,80	2,64	2,80	2,80	2,80
Ø and thickness	mm	30x5	10x10	15x15	30x5			
Grain		120	240	240	240			
<b>7934E</b>	<b>Each</b>	2,66	2,80	2,80	2,56			

For converters see Art. 8148 A - G.  
Size 30 5 240 running out of stock.



**7934E**

**7934P**

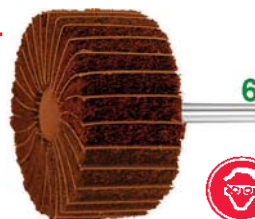


Zinc-corundem flaps.  
Optimum quality/price ratio.  
To clean almost all metals including steel and relative alloys. Flexible flaps allow to clean irregular, rough, digged surfaces.  
CONNECTION Ø: 6mm.

Ø and thickness	mm	30x10	40x15	40x20	50x20	50x25	60x30	60x40	80x50
Grain		60	60	60	60	60	60	60	60
<b>7934P</b>	Each	3,58	3,84	4,06	4,92	5,26	6,42	7,38	11,40
Ø and thickness	mm	30x10	40x15	40x20	50x20	50x25	60x30	60x40	80x50
Grain		80	80	80	80	80	80	80	80
<b>7934P</b>	Each	3,58	3,84	4,06	4,92	5,26	6,42	7,38	11,40
Ø and thickness	mm	30x10	40x15	40x20	50x20	50x25	60x30	60x40	80x50
Grain		120	120	120	120	120	120	120	120
<b>7934P</b>	Each	3,70	3,88	4,32	5,18	5,52	6,42	7,64	11,70

**ABRASIVE LAMELLAR FAN GRINDERS WITH SHANK**

**7935G**

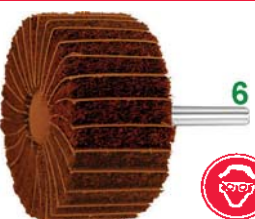


**Orig. Erzett**  
Combination of fibre and flaps for an abrasive action with a bigger load support. In corundum, for polishing Cr-Ni alloys, light alloys, soft metals, aluminium and wood. Connection Ø 6mm. Red colour.

Grit: 80/medium (80/A104).

Ø and thickness	mm	40x20	50x20	60x30	80x40
<b>7935G</b>	Each	4,56	5,00	6,78	9,66

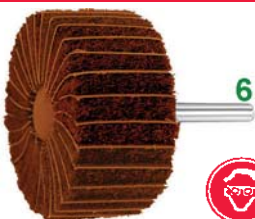
**7936G**



Product description as Art. 7935G  
Grit: 150/fine (150/A106).

Ø and thickness	mm	40x20	50x20	60x30	80x40
<b>7936G</b>	Each	4,56	6,00	7,34	9,00

**7937G**

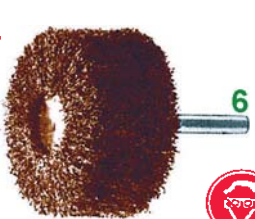


Product description as Art. 7935G  
Grit: 240/extra fine (240/A107).

Ø and thickness	mm	40x20	60x30
<b>7937G</b>	Each	5,00	8,02

**ABRASIVE FAN GRINDERS WITH SHANK**

**7943G**



**Orig. Erzett**  
Synthetic material and abrasive surface to obtain a calendered finished. In Corundum, to calender Cr-Nialloys, light alloys, soft metals, aluminium and wood. Connection Ø 6mm. Red colour.  
Grit: Medium (A104).

Ø and thickness	mm	40x20	50x20	50x30	60x30	80x40
<b>7943G</b>	Each	4,48	4,96	5,62	6,44	6,44

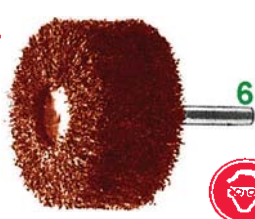
**7944G**



Product description as Art. 7943G  
Grit: Fine (A106).

Ø and thickness	mm	40x20	50x20	50x30	60x30	80x40
<b>7944G</b>	Each	4,62	5,10	5,78	6,44	6,54

**7945G**



Product description as Art. 7943G  
Grit: Extra fine (A107).

Ø and thickness	mm	40x20	50x30	60x30
<b>7945G</b>	Each	4,62	5,78	7,02

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Fibre-model made of synthetic material and abrasive surface for a satin finish.  
Made of Silicon Carbide, to smooth almost all materials including stainless steel and its alloys.  
Blue.

Extra fine grain (S 207).

Ø and thickness	mm	40x20	60x30	80x50
<b>7946GE</b>	Each	4,96	8,60	13,20



6

**7946GE**  
new



**Prod. SCU**

High-padding spunbonded fabric. Silicon carbide abrasive for cleaning rusts, deburring, paint removing from metals, woods, plasters, cement. Does not ruin nor overheat the surface being worked. Dark grey colour.

SHANK Ø mm 6.

Grit: Extra coarse.

Ø and thickness	mm	75x13	100x13	150x13
<b>7949</b>	Each	5,30	7,64	14,20



**7949**

**ABRASIVE CLOTH LAMELLAR FAN GRINDERS**

**Prod. SCU**

With hole attack Ø 19.1 mm and seat for keyway. Suitable for the most popular grinders and polishers. With corundum lamellas. For sanding, deburring, cleaning steel, cast iron, castings, woods etc..

Dimensions 110x50 mm. Maximum speed 6800 rev/min.

Grain		40	60	80	120
<b>7960</b>	Each	14,60	15,40	15,90	16,20

For electrical polishers see Art. 1691 GE.



**7960**  
new

Connection hole Ø 19.1mm and shank housing. Apt for the most common sanding, polishing and calender machines. With corundum flaps. For polishing, deburring and cleaning steels, cast irons, fusions, woods, etc. Dimensions 100x100mm. sanding, polishing and calender machines. Max speed 6800 rev/min.

Grain		40	60	80	120
<b>7960A</b>	Each	20,10	23,40	24,90	26,10

For electrical polishers see Art. 1691 GE.



**7960A**

With hole attack Ø 19.1 mm and seat for keyway. Suitable for the most popular grinders and polishers. In fibrous material combined with corundum lamellas. For grinding, sanding and polishing Chrome Nickel alloys, light alloys, soft metals, woods etc.

Dimensions 110x50 mm. Maximum speed 6800 rev/min.

Grain		60	80	120	150
<b>7960D</b>	Each	15,60	15,60	15,60	15,60

For electrical polishers see Art. 1691 GE.



**7960D**  
new

Connection hole Ø 19.1mm and shank housing. Apt for the most common sanding, polishing and calender machines. Fibre material combined with corundum flaps. For sanding, polishing and calendering Cromo Nickel alloys, light alloys, soft metals, woods, etc. Dimensions 104x100mm. Max speed 6800 rev/min.

Grain		60	80	120	150
<b>7960E</b>	Each	29,10	29,10	29,10	29,10

For electrical polishers see Art. 1691 GE.



**7960E**

**ABRASIVE FAN GRINDERS WITH SHANK**

**Prod. SCU**

With hole attack Ø 19.1 mm and seat for keyway. Suitable for the most popular grinders and polishers. With abrasive fabric in synthetic fibrous material to remove oxidation and calendering Chrome Nickel alloys, light alloys, soft metals, woods etc.

Dimensions 110x50 mm. Maximum speed 6800 rev/min.

Size		1	2	3	4
Grain		coarse (80)	medium (120)	fine (180)	very fine (600)
<b>7960EM</b>	Each	13,50	13,50	13,50	14,90

For electrical polishers see Art. 1691 GE.



**7960EM**  
new

**7960F**

**SCU**



Connection hole Ø 19.1mm and shank housing. Apt for the most common sanding, polishing and calender machines. Abrasive fibre material for deoxidising and calendering Cromo Nickel alloys, light alloys, soft metals, woods, etc

Dimensions 100x100mm. Max speed 5700 rev/min.

Size	1	2	3	4
Grain	coarse (80)	medium (120)	fine (180)	very fine (600)
<b>7960F</b>	<b>Each 18,40</b>	<b>18,40</b>	<b>18,40</b>	<b>18,40</b>

For electrical polishers see Art. 1691 GE.

**7960L**

**SCU**



Connection hole Ø 19.1mm and shank housing. Apt for the most common sanding, polishing and calender machines. High-padding spunbonded fabric. Silicon carbide abrasive for cleaning rusts, deburring, paint removing from metals, woods, plasters, cement. Does not ruin nor overheat the surface being worked.

Dimensions 100x100mm. Max speed 6800 rev/min.

Grit: Extra coarse.

<b>7960L</b>	<b>Each 71,80</b>
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For electrical polishers see Art. 1691 GE.

**7960P**

**SCU**



Connection hole Ø 19.1mm and shank housing. Apt for the most common sanding, polishing and calender machines. In abrasive rubber for calendering stainless steels.

Dimensions 100x100mm. Max speed 1910 rev/min.

Grain	16	46	120
<b>7960P</b>	<b>Each 125,00</b>	<b>96,90</b>	<b>96,90</b>

Brushes in other materials (steel wire, stainless steel, nylon, tampico and sisal) can be supplied on request. For cotton brushes see Art. 1833 T - V.

For electric surface grinders see Art. 1691 GE.

**7960T**

**SCU**



Port hole with diameter of 19.1 mm, and keyway. Suitable for the most popular grinders, polishers and polishers. Brass coated steel wire with a diameter of 0.3 mm. For wood and metal treatment, eliminating rust and removing burrs.

Dimensions mm 100 x 100. Maximum speed of 6,800 RPM.

<b>7960T</b>	<b>Each 77,80</b>
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For electric finishing machines see Art. 1691 GE.

**7960V**

**SCU**



Port hole with diameter of 19.1 mm, and keyway. Suitable for the most popular grinders, polishers and polishers. Made from durable nylon, coated with abrasive grit. For deburring and cleaning non-metallic and metallic surfaces

dimensions 100 x 100. Maximum speed of 6,800 RPM.

80 grit.

<b>7960V</b>	<b>Each 141,00</b>
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For electric finishing machines see Art. 1691 GE.

**FLAP GRINDING WHEELS WITH FLANGES**

**7962G**

**SCU**



Prod. SCU

With threaded hole diameter M 14.

Suitable for the most popular grinders and polishers. With corundum reed. For sanding, deburring, cleaning steels, cast irons, merging, wood, etc.

Dimensions 125x20. Maximum speed of 9,000 RPM.

Grain	40	60	80	120	240
<b>7962G</b>	<b>Each 18,40</b>	<b>18,40</b>	<b>18,40</b>	<b>18,40</b>	<b>18,40</b>

For sanding machines see Art. 1686 G.



**All items are in sequence. It's very easy to find them!**

Engraving bits  
Rotary burrs  
Burrs sets  
Converters  
Flexible shafts



From **7967GA**  
To **8155G**

Drills for metals  
MULTIPLEX shank holders  
Accessories for MULTIPLEX  
Twist drill grinder machines



From **8300G**  
To **8692G**

Drills, bushes



From **8695**  
To **8698**

Mills  
Countersi  
Reamers  
Deburring



From **8732**  
To **9040**

Taps  
Dies  
Taps and dies sets  
Thread restorers



From **9088**  
To **9459GP**

Dies stocks  
Tap wrench



From **9460**  
To **9497GL**

Threaded inserts  
Threaded caps



From **9500G**  
To **9518GR**

Hand and machine hacksaws  
for metals



From **9538G**  
To **9576G**

Circular saw blades for cut-off  
machines  
Easy cut grease  
Metal-cutting bandsaw blades



From **9581A**  
To **9660GR**

Ground and treaded bars  
Turning tools  
Tool holder  
Holders for cutting bit tools  
and bit tools



From **9688**  
To **9845C**



**ENGRAVING BITS OF TUNGSTEN CARBIDE**
**7967GA****SCU**

HARTMETALL

**Prod. SCU**

Micrograin integral solid carbide (K10), ground.

For engraving very hard steels, cast irons, brass, aluminium, plastic, glass fibre, carbon fibre, resin, etc.

Step profile, flat point.

Ø	mm	2	3	4	5	6	8	10
Overall length	mm	40	50	60	60	70	100	100
<b>7967GA</b>	<b>Each</b>	<b>8,02</b>	<b>9,34</b>	<b>12,50</b>	<b>15,80</b>	<b>21,50</b>	<b>45,70</b>	<b>64,70</b>

**7967GF****SCU**

HARTMETALL

Product description as Art. 7967GA

Cylindrical shape, without step.

Ø	mm	2	3	4	5	6	8	10
Overall length	mm	100	100	100	100	100	100	100
<b>7967GF</b>	<b>Each</b>	<b>6,98</b>	<b>9,42</b>	<b>11,90</b>	<b>13,30</b>	<b>19,10</b>	<b>27,40</b>	<b>39,50</b>

**ROTARY BURRS FOR ENGRAVING**
**7970****SCU**

HSS

**Prod. SCU**

HSS. Shank Ø 3mm. Ground and sharpened cutting edges.

Smooth cut. Speed m/min. 60-180.

Type	2	4	6	8	10	
Head Ø	mm	6	7	6	6	6
Head length	mm	10	10	10	10	6
Shape		cylindrical	oval	conical	ogive	spherical
<b>7970</b>	<b>Each</b>	<b>9,52</b>	<b>9,52</b>	<b>9,52</b>	<b>9,52</b>	<b>9,52</b>

For converters see Art. 8148 A - G.

**HSS ROTARY BURRS**
**7992A****SCU**

HSS

**Prod. SCU**

CYLINDRICAL-SHAPED – HEAD WITH CUTTING EDGES

HSS. Ground cutting edges. Shank Ø 6mm.

Cut 2=bastard cut with chip breaker.

Speed m/min.200-250

Head Ø	mm	6	8	10	12	15
Head length	mm	20	30	30	30	30
Overall length	mm	60	70	70	70	70
<b>7992A</b>	<b>Each</b>	<b>11,90</b>	<b>15,10</b>	<b>15,70</b>	<b>16,50</b>	<b>21,70</b>

**7992B****SCU**

HSS



Product description as Art. 7992A

Cut 3=second cut with chip breaker.

Speed m/min. 60-180.

Head Ø	mm	6	8	10	12	15
Head length	mm	20	30	30	30	30
Overall length	mm	60	70	70	70	70
<b>7992B</b>	<b>Each</b>	<b>11,90</b>	<b>15,10</b>	<b>15,70</b>	<b>16,50</b>	<b>21,70</b>

**7992E****SCU**

HSS



CYLINDRICAL-SHAPED – BALL HEAD

HSS. Ground cutting edges. Shank Ø 6mm.

Cut 2=bastard cut with chip breaker.

Speed m/min.200-250

Head Ø	mm	6	8	10	12	15
Head length	mm	20	30	30	30	30
Overall length	mm	60	70	70	70	70
<b>7992E</b>	<b>Each</b>	<b>11,90</b>	<b>15,10</b>	<b>15,70</b>	<b>16,50</b>	<b>21,70</b>

**7992F****SCU**

HSS



Product description as Art. 7992E

Cut 3=second cut with chip breaker.

Speed m/min. 60-180.

Head Ø	mm	6	8	10	12	15
Head length	mm	20	30	30	30	30
Overall length	mm	60	70	70	70	70
<b>7992F</b>	<b>Each</b>	<b>11,90</b>	<b>15,10</b>	<b>15,70</b>	<b>16,50</b>	<b>21,70</b>

**BALL-SHAPED**

HSS. Ground cutting edges. Shank Ø 6mm.

Cut 2=bastard cut with chip breaker.

Speed m/min.200-250

Head Ø	mm	6	8	10	12	15
Head length	mm	6	8	10	12	15
Overall length	mm	50	52	54	56	59
<b>7992L</b>	<b>Each</b>	<b>11,90</b>	<b>15,10</b>	<b>15,70</b>	<b>16,50</b>	<b>21,70</b>

**SCU**
**7992L**

**HSS**


Product description as Art. 7992L

Cut 3=second cut with chip breaker.

Speed m/min. 60-180.

Head Ø	mm	6	8	10	12	15
Head length	mm	6	8	10	12	15
Overall length	mm	50	52	54	56	59
<b>7992P</b>	<b>Each</b>	<b>11,90</b>	<b>15,10</b>	<b>15,70</b>	<b>16,50</b>	<b>21,70</b>

**SCU**
**7992P**

**HSS**

**FLAME-SHAPED**

HSS. Ground cutting edges. Shank Ø 6mm.

Cut 2=bastard cut with chip breaker.

Speed m/min.200-250

Head Ø	mm	6	8	10	12	15
Head length	mm	20	30	30	30	30
Overall length	mm	60	70	70	70	70
<b>7992R</b>	<b>Each</b>	<b>11,90</b>	<b>15,10</b>	<b>15,70</b>	<b>16,50</b>	<b>21,70</b>

**SCU**
**7992R**

**HSS**


Product description as Art. 7992R

Cut 3=second cut with chip breaker.

Speed m/min. 60-180.

Head Ø	mm	6	8	10	12	15
Head length	mm	20	30	30	30	30
Overall length	mm	60	70	70	70	70
<b>7992S</b>	<b>Each</b>	<b>11,90</b>	<b>15,10</b>	<b>15,70</b>	<b>16,50</b>	<b>21,70</b>

**SCU**
**7992S**

**HSS**

**CONICAL-SHAPED**

HSS. Ground cutting edges. Shank Ø 6mm.

Cut 2=bastard cut with chip breaker.

Speed m/min.200-250

Head Ø	mm	6	8	10	12	15
Head length	mm	20	30	30	30	30
Overall length	mm	60	70	70	70	70
<b>7992T</b>	<b>Each</b>	<b>11,90</b>	<b>15,10</b>	<b>15,70</b>	<b>16,50</b>	<b>21,70</b>

**SCU**
**7992T**

**HSS**


Product description as Art. 7992T

Cut 3=second cut with chip breaker.

Speed m/min. 60-180.

Head Ø	mm	6	8	10	12	15
Head length	mm	20	30	30	30	30
Overall length	mm	60	70	70	70	70
<b>7992V</b>	<b>Each</b>	<b>11,90</b>	<b>15,10</b>	<b>15,70</b>	<b>16,50</b>	<b>21,70</b>

**SCU**
**7992V**

**HSS**

**HSS ROTARY BURRS, LARGE DIAMETER**
**Prod. SCU**

Made from HSS steel. Ground, sharpened cutting surfaces.

**BALL-SHAPED**

Cut 2 = with chip breaker.

Ø	mm	20	25
Height	mm	20	25
DRIVE Ø	mm	6	8
Drive length approx	mm	40	40
<b>7994A</b>	<b>Each</b>	<b>30,40</b>	<b>80,60</b>

**SCU**
**7994A**

**HSS**


**7994B****SCU****HSS**

HSS. Ground and sharpened cutting edges.

Complete with threaded shank.

OVAL-SHAPED

Cut 2 = with chip breaker.

Ø	mm	<b>25</b>
Height	mm	35
DRIVE Ø	mm	8
Drive length approx	mm	40

**7994B** Each **80,60****7994C****SCU****HSS**

Product description as Art. 7994B

CONICAL-SHAPED

Cut 2 = with chip breaker.

Ø	mm	<b>25</b>
Height	mm	40
DRIVE Ø	mm	8
Drive length approx	mm	40

**7994C** Each **80,60****7994E****SCU****HSS**

Product description as Art. 7994B

CONICAL-SHAPED WITH BALL TIP

Cut 2 = with chip breaker.

Ø	mm	<b>20</b>
Height	mm	55
DRIVE Ø	mm	8
Drive length approx	mm	40

**7994E** Each **80,60****7994F****SCU****HSS**

Product description as Art. 7994B

FLAME-SHAPED

Cut 2 = with chip breaker.

Type		<b>20</b>	<b>20L</b>
Ø	mm	20	20
Height	mm	55	55
DRIVE Ø	mm	8	6/8
Drive length approx	mm	40	90

**7994F** Each **80,60** **88,50**

Size 20L running out of stock.

### TUNGSTEN CARBID MINI ROTARY BURRS

**8031A****SCU****HARTMETALL****Prod. SCU**

CYLINDRICAL-SHAPED – HEAD WITH CUTTING EDGES In tungsten carbide, suitable for engraving.

Shank Ø 3mm.

Cut 3=second cut.

Head Ø	mm	3
Head length	mm	14
Overall length approx	mm	40

**8031A** Each **8,08****8031B****SCU****HARTMETALL**

Product description as Art. 8031A

Cut 5=smooth cut with chip breaker.

Head Ø	mm	3
Head length	mm	14
Overall length approx	mm	40

**8031B** Each **8,08****8031C****SCU****HARTMETALL**

CYLINDRICAL-SHAPED – SMOOTH HEAD

In tungsten carbide, suitable for engraving.

Shank Ø 3mm.

Cut 3=second cut.

Head Ø	mm	3
Head length	mm	14
Overall length approx	mm	40

**8031C** Each **8,08**

Product description as Art. 8031C

Cut 5=smooth cut with chip breaker.

Head Ø	mm	3
Head length	mm	14
Overall length approx	mm	40

<b>8031D</b>	Each	<b>8,08</b>
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SCU


**8031D**

HARTMETALL



CYLINDRICAL-SHAPED – BALL HEAD

In tungsten carbide, suitable for engraving.

Shank Ø 3mm.

Cut 3=second cut.

Head Ø	mm	3
Head length	mm	14
Overall length approx	mm	40

<b>8031E</b>	Each	<b>8,08</b>
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SCU


**8031E**

HARTMETALL



Product description as Art. 8031E

Cut 5=smooth cut with chip breaker.

Head Ø	mm	3
Head length	mm	14
Overall length approx	mm	40

<b>8031F</b>	Each	<b>8,08</b>
--------------	------	-------------

SCU


**8031F**

HARTMETALL



BALL-SHAPED

In tungsten carbide, suitable for engraving.

Shank Ø 3mm.

Cut 3=second cut.

Head Ø	mm	3
Head length	mm	2,6
Overall length approx	mm	40

<b>8031G</b>	Each	<b>8,08</b>
--------------	------	-------------

SCU


**8031G**

HARTMETALL



Product description as Art. 8031G

Cut 5=smooth cut with chip breaker.

Head Ø	mm	3
Head length	mm	2,6
Overall length approx	mm	40

<b>8031H</b>	Each	<b>8,08</b>
--------------	------	-------------

SCU


**8031H**

HARTMETALL



OVAL-SHAPED

In tungsten carbide, suitable for engraving.

Shank Ø 3mm.

Cut 3=second cut.

Head Ø	mm	3
Head length	mm	6
Overall length approx	mm	40

<b>8031L</b>	Each	<b>8,08</b>
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SCU


**8031L**

HARTMETALL



Product description as Art. 8031L

Cut 5=smooth cut with chip breaker.

Head Ø	mm	3
Head length	mm	6
Overall length approx	mm	40

<b>8031M</b>	Each	<b>8,08</b>
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SCU


**8031M**

HARTMETALL



ROUND CONICAL-SHAPED

In tungsten carbide, suitable for engraving.

Shank Ø 3mm.

Cut 3=second cut.

Head Ø	mm	3
Head length	mm	14
Overall length approx	mm	40

<b>8031P</b>	Each	<b>8,08</b>
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SCU


**8031P**

HARTMETALL



Product description as Art. 8031P

Cut 5=smooth cut with chip breaker.

Head Ø	mm	3
Head length	mm	14
Overall length approx	mm	40

<b>8031R</b>	Each	<b>8,08</b>
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SCU


**8031R**

HARTMETALL



8031S

SCU



HARTMETALL



FLAME-SHAPED  
In tungsten carbide, suitable for engraving.  
Shank Ø 3mm.  
Cut 3=second cut.  
Head Ø mm 3  
Head length mm 10  
Overall length approx mm 40  
**8031S** Each **8,08**

8031T

SCU



HARTMETALL



Product description as Art. 8031S  
Cut 5=smooth cut with chip breaker.  
Head Ø mm 3  
Head length mm 10  
Overall length approx mm 40  
**8031T** Each **8,08**

8031V

SCU



HARTMETALL



CONICAL-SHAPED WITH BALL TIP  
In tungsten carbide, suitable for engraving.  
Shank Ø 3mm.  
Cut 3=second cut.  
Head Ø mm 3  
Head length mm 14  
Overall length approx mm 40  
**8031V** Each **8,08**

8031Z

SCU



HARTMETALL



Product description as Art. 8031V  
Cut 5=smooth cut with chip breaker.  
Head Ø mm 3  
Head length mm 14  
Overall length approx mm 40  
**8031Z** Each **8,08**

8032A

SCU



HARTMETALL



TIPO CONICO  
In tungsten carbide, suitable for engraving.  
Shank Ø 3mm.  
Cut 3=second cut.  
Head Ø mm 3  
Head length mm 15  
Overall length approx mm 40  
**8032A** Each **8,08**

8032B

SCU



HARTMETALL



Product description as Art. 8032A  
Cut 5=smooth cut with chip breaker.  
Head Ø mm 3  
Head length mm 15  
Overall length approx mm 40  
**8032B** Each **8,08**

**TUNGSTEN CARBID ROTARY BURRS**

8034A

SCU



HARTMETALL



Prod. SCU  
CYLINDRICAL-SHAPED – HEAD WITH CUTTING EDGES  
In tungsten carbide, suitable for engraving.  
Shank Ø 3mm.  
Cut 3=second cut.  
Head Ø mm 4 6  
Head length mm 12 12  
Overall length approx mm 38 50  
**8034A** Each **21,50 14,60**

8034B

SCU



HARTMETALL



Product description as Art. 8034A  
Cut 5=smooth cut with chip breaker.  
Head Ø mm 4 6  
Head length mm 12 12  
Overall length approx mm 38 50  
**8034B** Each **21,50 14,60**

13

**CYLINDRICAL-SHAPED – SMOOTH HEAD**

In tungsten carbide, ground cutting edges.

Shank Ø 3mm.

Cut 3=second cut.

Head Ø	mm	4	6
Head length	mm	12	12,7
Overall length approx	mm	38	50
<b>8034D</b>	<b>Each</b>	<b>19,50</b>	<b>13,40</b>

SCU

**8034D**


HARTMETALL



Product description as Art. 8034D

Cut 5=smooth cut with chip breaker.

Head Ø	mm	4	6
Head length	mm	12	12,7
Overall length approx	mm	38	50
<b>8034E</b>	<b>Each</b>	<b>19,50</b>	<b>13,40</b>

SCU

**8034E**


HARTMETALL


**CYLINDRICAL-SHAPED – BALL HEAD**

In tungsten carbide, ground cutting edges.

Shank Ø 3mm.

Cut 3=second cut.

Head Ø	mm	4	6
Head length	mm	12	12
Overall length approx	mm	38	50
<b>8034F</b>	<b>Each</b>	<b>19,50</b>	<b>13,40</b>

SCU

**8034F**


HARTMETALL



Product description as Art. 8034F

Cut 5=smooth cut with chip breaker.

Head Ø	mm	4	6
Head length	mm	12	12
Overall length approx	mm	38	50
<b>8034L</b>	<b>Each</b>	<b>19,50</b>	<b>13,40</b>

SCU

**8034L**


HARTMETALL


**BALL-SHAPED**

In tungsten carbide, ground cutting edges.

Shank Ø 3mm.

Cut 3=second cut.

Head Ø	mm	4	6
Head length	mm	3,4	5
Overall length approx	mm	38	44
<b>8034P</b>	<b>Each</b>	<b>19,50</b>	<b>13,40</b>

SCU

**8034P**


HARTMETALL



Product description as Art. 8034P

Cut 5=smooth cut with chip breaker.

Head Ø	mm	4	6
Head length	mm	3,4	5
Overall length approx	mm	38	44
<b>8034R</b>	<b>Each</b>	<b>19,50</b>	<b>13,40</b>

SCU

**8034R**


HARTMETALL


**OVAL-SHAPED**

In tungsten carbide, ground cutting edges.

Shank Ø 3mm.

Cut 3=second cut.

Head Ø	mm	6
Head length	mm	9,5
Overall length approx	mm	47
<b>8034S</b>	<b>Each</b>	<b>13,40</b>

SCU

**8034S**


HARTMETALL



Product description as Art. 8034S

Cut 5=smooth cut with chip breaker.

Head Ø	mm	6
Head length	mm	9,5
Overall length approx	mm	47
<b>8034T</b>	<b>Each</b>	<b>13,40</b>

SCU

**8034T**


HARTMETALL



**8035A****SCU**

HARTMETALL



ROUND CONICAL-SHAPED  
In tungsten carbide, ground cutting edges.  
Shank Ø 3mm.

Cut 3=second cut.

Head Ø	mm	<b>6</b>
Head length	mm	12
Overall length approx	mm	50

<b>8035A</b>	Each	<b>13,40</b>
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**8035B****SCU**

HARTMETALL



Product description as Art. 8035A  
Cut 5=smooth cut with chip breaker.

Head Ø	mm	<b>6</b>
Head length	mm	12
Overall length approx	mm	50

<b>8035B</b>	Each	<b>13,40</b>
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**8035D****SCU**

HARTMETALL



FLAME-SHAPED  
In tungsten carbide, ground cutting edges.  
Shank Ø 3mm.

Cut 3=second cut.

Head Ø	mm	<b>6</b>
Head length	mm	12
Overall length approx	mm	50

<b>8035D</b>	Each	<b>13,40</b>
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**8035E****SCU**

HARTMETALL



Product description as Art. 8035D  
Cut 5=smooth cut with chip breaker.

Head Ø	mm	<b>6</b>
Head length	mm	12
Overall length approx	mm	50

<b>8035E</b>	Each	<b>13,40</b>
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**8035F****SCU**

HARTMETALL



CONICAL-SHAPED WITH BALL TIP  
In tungsten carbide, ground cutting edges.  
Shank Ø 3mm.

Cut 3=second cut.

Head Ø	mm	<b>6</b>
Head length	mm	15
Overall length approx	mm	48

<b>8035F</b>	Each	<b>13,40</b>
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**8035L****SCU**

HARTMETALL



Product description as Art. 8035F  
Cut 5=smooth cut with chip breaker.

Head Ø	mm	<b>6</b>
Head length	mm	15
Overall length approx	mm	48

<b>8035L</b>	Each	<b>13,40</b>
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**8035P****SCU**

HARTMETALL



TIPO CONICO  
In tungsten carbide, ground cutting edges.  
Shank Ø 3mm.

Cut 3=second cut.

Head Ø	mm	<b>6</b>
Head length	mm	12
Overall length approx	mm	50

<b>8035P</b>	Each	<b>13,40</b>
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**8035R****SCU**

HARTMETALL



Product description as Art. 8035P  
Cut 5=smooth cut with chip breaker.

Head Ø	mm	<b>6</b>
Head length	mm	12
Overall length approx	mm	50

<b>8035R</b>	Each	<b>13,40</b>
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**CYLINDRICAL-SHAPED – HEAD WITH CUTTING EDGES**

In tungsten carbide, ground cutting edges.

Shank Ø 6mm.

Cut 1=thick

Head Ø	mm	6	10	12
Head length	mm	16	20	25
Overall length approx	mm	50	63	70
<b>8037A</b>	<b>Each</b>	<b>23,80</b>	<b>33,20</b>	<b>49,10</b>

SCU



**8037A**

HARTMETALL



Product description as Art. 8037A

Cut 3=second cut.

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	12,7	16	16	20	20	25	25
Overall length approx	mm	52	50	50	63	63	70	70
<b>8037E</b>	<b>Each</b>	<b>15,10</b>	<b>15,10</b>	<b>15,20</b>	<b>19,90</b>	<b>21,70</b>	<b>33,30</b>	<b>42,10</b>

SCU



**8037E**

HARTMETALL



Product description as Art. 8037A

Cut 4=diamond

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	12,7	12	16	20	20	25	25
Overall length approx	mm	52	50	50	63	63	70	70
<b>8037G</b>	<b>Each</b>	<b>18,10</b>	<b>18,10</b>	<b>18,30</b>	<b>23,90</b>	<b>26,10</b>	<b>40,10</b>	<b>50,50</b>

SCU



**8037G**

HARTMETALL



Product description as Art. 8037A

TiAlN (HYPER) coating

Cut 4 = diamond

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	12	12	16	20	20	25	25
Overall length approx	mm	52	50	50	63	63	70	70
<b>8037H</b>	<b>Each</b>	<b>21,70</b>	<b>21,70</b>	<b>21,90</b>	<b>29,60</b>	<b>33,90</b>	<b>50,80</b>	<b>66,40</b>

SCU



**8037H**

TiAlN HARTMETALL



Product description as Art. 8037A

Cut 5=smooth cut with chip breaker.

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	12,7	16	16	20	20	25	25
Overall length approx	mm	52	50	50	63	63	70	70
<b>8037L</b>	<b>Each</b>	<b>15,10</b>	<b>15,10</b>	<b>15,20</b>	<b>19,90</b>	<b>21,70</b>	<b>33,30</b>	<b>42,10</b>

SCU



**8037L**

HARTMETALL



Product description as Art. 8037A

Cut 7=alternate universal

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	12,7	16	16	20	20	25	25
Overall length approx	mm	52	50	50	63	63	70	70
<b>8037P</b>	<b>Each</b>	<b>15,10</b>	<b>15,10</b>	<b>15,20</b>	<b>19,90</b>	<b>21,70</b>	<b>33,30</b>	<b>42,10</b>

SCU



**8037P**

HARTMETALL



**CYLINDRICAL-SHAPED – SMOOTH HEAD**

In tungsten carbide, ground cutting edges.

Shank Ø 6mm.

Cut 1=thick

Head Ø	mm	6	10	12
Head length	mm	16	20	25
Overall length approx	mm	50	63	70
<b>8041A</b>	<b>Each</b>	<b>23,50</b>	<b>33,20</b>	<b>43,90</b>

SCU



**8041A**

HARTMETALL



Product description as Art. 8041A

Cut 3=second cut.

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	12,7	16	16	20	20	25	25
Overall length approx	mm	52	50	50	63	63	70	70
<b>8041E</b>	<b>Each</b>	<b>13,80</b>	<b>13,80</b>	<b>13,80</b>	<b>18,30</b>	<b>19,70</b>	<b>28,80</b>	<b>38,20</b>

SCU



**8041E**

HARTMETALL



**8041G****SCU**

HARTMETALL



Product description as Art. 8041A

Cut 4=diamond

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	12,7	16	16	20	20	25	25
Overall length approx	mm	52	50	50	63	63	70	70
<b>8041G</b>	<b>Each</b>	<b>15,20</b>	<b>15,20</b>	<b>15,20</b>	<b>20,30</b>	<b>21,90</b>	<b>30,20</b>	<b>42,40</b>

**8041H****SCU****TiAlN** HARTMETALL

Product description as Art. 8041A

TiAlN (HYPER) coating

Cut 4 = diamond

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	12	12	16	20	20	25	25
Overall length approx	mm	52	50	50	63	63	70	70
<b>8041H</b>	<b>Each</b>	<b>18,90</b>	<b>18,90</b>	<b>18,90</b>	<b>26,10</b>	<b>29,80</b>	<b>41,00</b>	<b>58,30</b>

**8041L****SCU**

HARTMETALL



Product description as Art. 8041A

Cut 5=smooth cut with chip breaker.

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	12,7	16	16	20	20	25	25
Overall length approx	mm	52	50	50	63	63	70	70
<b>8041L</b>	<b>Each</b>	<b>13,80</b>	<b>13,80</b>	<b>13,80</b>	<b>18,30</b>	<b>19,70</b>	<b>28,80</b>	<b>38,20</b>

**8041P****SCU**

HARTMETALL



Product description as Art. 8041A

Cut 7=alternate universal

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	12,7	16	16	20	20	25	25
Overall length approx	mm	52	50	50	63	63	70	70
<b>8041P</b>	<b>Each</b>	<b>13,80</b>	<b>13,80</b>	<b>13,80</b>	<b>18,30</b>	<b>19,70</b>	<b>28,80</b>	<b>38,20</b>

**8045A****SCU**

HARTMETALL



CYLINDRICAL-SHAPED – BALL HEAD

In tungsten carbide, ground cutting edges.

Shank Ø 6mm.

Cut 1=thick

Head Ø	mm	6	10	12	16
Head length	mm	16	20	25	25
Overall length approx	mm	50	63	70	70
<b>8045A</b>	<b>Each</b>	<b>25,30</b>	<b>33,80</b>	<b>52,80</b>	<b>66,80</b>

**8045E****SCU**

HARTMETALL



Product description as Art. 8045A

Cut 3=second cut.

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	12	12	16	20	20	25	25
Overall length approx	mm	52	50	50	64	64	70	70
<b>8045E</b>	<b>Each</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>19,90</b>	<b>21,80</b>	<b>34,10</b>	<b>43,20</b>

**8045G****SCU**

HARTMETALL



Product description as Art. 8045A

Cut 4=diamond

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	16	16	16	20	20	25	25
Overall length approx	mm	52	50	50	63	63	70	70
<b>8045G</b>	<b>Each</b>	<b>19,30</b>	<b>19,30</b>	<b>19,30</b>	<b>23,90</b>	<b>26,10</b>	<b>40,80</b>	<b>51,90</b>

**8045H****SCU****TiAlN** HARTMETALL

Product description as Art. 8045A

TiAlN (HYPER) coating

Cut 4 = diamond

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	12	12	16	20	20	25	25
Overall length approx	mm	52	50	50	63	63	70	70
<b>8045H</b>	<b>Each</b>	<b>23,10</b>	<b>23,10</b>	<b>23,10</b>	<b>29,50</b>	<b>34,10</b>	<b>51,60</b>	<b>67,80</b>

Product description as Art. 8045A

Cut 5=smooth cut with chip breaker.

Head max Ø	mm	3	4	6	8	10	12	16
Head length	mm	16	16	16	20	20	25	25
Overall length approx	mm	52	50	50	63	63	70	70
<b>8045L</b>	<b>Each</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>19,90</b>	<b>21,80</b>	<b>34,10</b>	<b>43,20</b>

SCU


**8045L**

HARTMETALL



Product description as Art. 8045A

Cut 7=alternate universal

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	16	16	16	20	20	25	25
Overall length approx	mm	52	50	50	63	63	70	70
<b>8045P</b>	<b>Each</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>19,90</b>	<b>21,80</b>	<b>34,10</b>	<b>43,20</b>

SCU


**8045P**

HARTMETALL



BALL-SHAPED

In tungsten carbide, ground cutting edges.

Shank Ø 6mm.

Cut 1=thick

Head Ø	mm	6	10	12	16
Head length	mm	5	8	11	14
Overall length approx	mm	50	52	55	60
<b>8050A</b>	<b>Each</b>	<b>23,00</b>	<b>27,90</b>	<b>42,20</b>	<b>59,90</b>

SCU


**8050A**

HARTMETALL



Product description as Art. 8050A

Cut 3=second cut.

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	2,5	3,4	5	7	8	11	14
Overall length approx	mm	50	50	50	50	52	55	60
<b>8050E</b>	<b>Each</b>	<b>16,30</b>	<b>16,30</b>	<b>15,10</b>	<b>15,90</b>	<b>17,80</b>	<b>23,30</b>	<b>29,80</b>

SCU


**8050E**

HARTMETALL



Product description as Art. 8050A

Cut 4=diamond

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	2,5	3,4	5	7	8	11	14
Overall length approx	mm	50	50	50	50	52	55	60
<b>8050G</b>	<b>Each</b>	<b>19,50</b>	<b>19,50</b>	<b>18,10</b>	<b>19,10</b>	<b>21,40</b>	<b>27,90</b>	<b>35,70</b>

SCU


**8050G**

HARTMETALL



Product description as Art. 8050A

TiAlN (HYPER) coating

Cut 4 = diamond

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	2,5	3,4	5	7	8	10,5	14,5
Overall length approx	mm	50	50	50	50	52	55	60
<b>8050H</b>	<b>Each</b>	<b>23,20</b>	<b>23,20</b>	<b>21,70</b>	<b>24,70</b>	<b>29,30</b>	<b>38,70</b>	<b>51,60</b>

SCU


**8050H**

TiAlN HARTMETALL



Product description as Art. 8050A

Cut 5=smooth cut with chip breaker.

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	2,5	3,4	5	7	8	11	14
Overall length approx	mm	50	50	50	50	52	55	60
<b>8050L</b>	<b>Each</b>	<b>16,30</b>	<b>16,30</b>	<b>15,10</b>	<b>15,90</b>	<b>17,80</b>	<b>23,30</b>	<b>29,80</b>

SCU


**8050L**

HARTMETALL



Product description as Art. 8050A

Cut 7=alternate universal

Head Ø	mm	3	4	6	8	10	12	16
Head length	mm	2,5	3,4	5	7	8	11	14,5
Overall length approx	mm	50	50	50	50	52	55	60
<b>8050P</b>	<b>Each</b>	<b>16,30</b>	<b>16,30</b>	<b>15,10</b>	<b>15,90</b>	<b>17,80</b>	<b>23,30</b>	<b>29,80</b>

SCU


**8050P**

HARTMETALL



8055A

SCU



HARTMETALL



OVAL-SHAPED  
In tungsten carbide, ground cutting edges.

Shank Ø 6mm.

Cut 1=thick

Head Ø	mm	10	12	16
Head length	mm	16	22	25
Overall length approx	mm	60	66	70
<b>8055A</b>	<b>Each</b>	<b>34,70</b>	<b>42,20</b>	<b>65,50</b>

8055E

SCU



HARTMETALL



Product description as Art. 8055A

Cut 3=second cut.

Head Ø	mm	6	8	10	12	16
Head length	mm	10	13	16	22	25
Overall length approx	mm	50	58	60	66	70
<b>8055E</b>	<b>Each</b>	<b>17,30</b>	<b>20,10</b>	<b>22,10</b>	<b>30,30</b>	<b>43,10</b>

8055G

SCU



HARTMETALL



Product description as Art. 8055A

Cut 4=diamond

Head Ø	mm	6	8	10	12	16
Head length	mm	10	13	16	22	25
Overall length approx	mm	50	58	60	66	70
<b>8055G</b>	<b>Each</b>	<b>20,80</b>	<b>24,10</b>	<b>26,30</b>	<b>36,40</b>	<b>51,60</b>

8055H

SCU



TiAlN HARTMETALL



Product description as Art. 8055A

TiAlN (HYPER) coating

Cut 4 = diamond

Head Ø	mm	6	8	10	12	16
Head length	mm	10	13	16	22	25
Overall length approx	mm	50	58	60	66	70
<b>8055H</b>	<b>Each</b>	<b>24,40</b>	<b>29,60</b>	<b>34,20</b>	<b>47,20</b>	<b>67,50</b>

8055L

SCU



HARTMETALL



Product description as Art. 8055A

Cut 5=smooth cut with chip breaker.

Head Ø	mm	6	8	10	12	16
Head length	mm	10	13	16	22	25
Overall length approx	mm	50	58	60	66	70
<b>8055L</b>	<b>Each</b>	<b>17,30</b>	<b>20,10</b>	<b>22,10</b>	<b>30,30</b>	<b>53,90</b>

8055P

SCU



HARTMETALL



Product description as Art. 8055A

Cut 7=alternate universal

Head Ø	mm	6	8	10	12	16
Head length	mm	10	13	16	22	25
Overall length approx	mm	50	58	60	66	70
<b>8055P</b>	<b>Each</b>	<b>17,30</b>	<b>20,10</b>	<b>22,10</b>	<b>30,30</b>	<b>43,10</b>

8060A

SCU



HARTMETALL



ROUND CONICAL-SHAPED

In tungsten carbide, ground cutting edges.

Shank Ø 6mm.

Cut 1=thick

Head Ø	mm	10	12	16
Head length	mm	20	25	25
Overall length approx	mm	65	70	70
<b>8060A</b>	<b>Each</b>	<b>33,10</b>	<b>46,10</b>	<b>65,80</b>

8060E

SCU



HARTMETALL



Product description as Art. 8060A

Cut 3=second cut.

Head Ø	mm	6	10	12	16
Head length	mm	16	20	25	25
Overall length approx	mm	50	65	70	70
<b>8060E</b>	<b>Each</b>	<b>17,10</b>	<b>21,40</b>	<b>29,90</b>	<b>42,20</b>

Product description as Art. 8060A

Cut 4=diamond

Head Ø	mm	6	10	12	16
Head length	mm	16	20	25	25
Overall length approx	mm	50	65	70	70
<b>8060G</b>	<b>Each</b>	<b>20,40</b>	<b>25,70</b>	<b>35,90</b>	<b>50,70</b>

SCU


**8060G**

HARTMETALL



Product description as Art. 8060A

TiALN (HYPER) coating

Cut 4 = diamond

Head Ø	mm	6	10	12	16
Head length	mm	16	20	25	25
Overall length approx	mm	50	65	70	70
<b>8060H</b>	<b>Each</b>	<b>24,10</b>	<b>33,60</b>	<b>46,70</b>	<b>66,60</b>

SCU


**8060H**

TiALN HARTMETALL



Product description as Art. 8060A

Cut 5=smooth cut with chip breaker.

Head Ø	mm	6	10	12	16
Head length	mm	16	20	25	25
Overall length approx	mm	50	65	70	70
<b>8060L</b>	<b>Each</b>	<b>17,10</b>	<b>21,40</b>	<b>29,90</b>	<b>42,20</b>

SCU


**8060L**

HARTMETALL



Product description as Art. 8060A

Cut 7=alternate universal

Head Ø	mm	6	10	12	16
Head length	mm	16	20	25	25
Overall length approx	mm	50	65	70	70
<b>8060P</b>	<b>Each</b>	<b>17,10</b>	<b>21,40</b>	<b>29,90</b>	<b>42,20</b>

SCU


**8060P**

HARTMETALL



FLAME-SHAPED

In tungsten carbide, ground cutting edges.

Shank Ø 6mm.

Cut 3=second cut.

Head Ø	mm	6	8	10	12	16
Head length	mm	16	20	20	25	25
Overall length approx	mm	50	65	65	70	70
<b>8065E</b>	<b>Each</b>	<b>17,10</b>	<b>19,20</b>	<b>22,60</b>	<b>29,20</b>	<b>41,10</b>

SCU


**8065E**

HARTMETALL



Product description as Art. 8065E

Cut 4=diamond

Head Ø	mm	6	8	10	12	16
Head length	mm	16	20	20	25	25
Overall length approx	mm	50	65	65	70	70
<b>8065G</b>	<b>Each</b>	<b>20,40</b>	<b>23,00</b>	<b>27,20</b>	<b>35,10</b>	<b>49,30</b>

SCU


**8065G**

HARTMETALL



Product description as Art. 8065E

TiALN (HYPER) coating

Cut 4 = diamond

Head Ø	mm	6	8	10	12	16
Head length	mm	16	20	20	25	25
Overall length approx	mm	50	65	65	70	70
<b>8065H</b>	<b>Each</b>	<b>24,10</b>	<b>28,70</b>	<b>35,10</b>	<b>45,80</b>	<b>65,20</b>

SCU


**8065H**

TiALN HARTMETALL



Product description as Art. 8065E

Cut 5=smooth cut with chip breaker.

Head Ø	mm	6	8	10	12	16
Head length	mm	16	20	20	25	25
Overall length approx	mm	50	65	65	70	70
<b>8065L</b>	<b>Each</b>	<b>17,10</b>	<b>19,20</b>	<b>22,60</b>	<b>29,20</b>	<b>41,10</b>

SCU


**8065L**

HARTMETALL



**8065P****SCU**

HARTMETALL



Product description as Art. 8065E

Cut 7=alternate universal

Head Ø	mm	6	8	10	12	16
Head length	mm	16	20	20	25	25
Overall length approx	mm	50	65	65	70	70
<b>8065P</b>	<b>Each</b>	<b>17,10</b>	<b>19,20</b>	<b>22,60</b>	<b>29,20</b>	<b>41,10</b>

**8070A****SCU**

HARTMETALL



CONICAL-SHAPED WITH BALL TIP

In tungsten carbide, ground cutting edges.

Shank Ø 6mm.

Cut 1=thick

Head Ø	mm	10	12	16
Head length	mm	27	30	33
Overall length approx	mm	74	76	78
<b>8070A</b>	<b>Each</b>	<b>42,60</b>	<b>40,70</b>	<b>84,20</b>

**8070E****SCU**

HARTMETALL



Product description as Art. 8070A

Cut 3=second cut.

Head Ø	mm	6	8	10	12	16
Head length	mm	16	22	27	30	33
Overall length approx	mm	50	69	74	76	78
<b>8070E</b>	<b>Each</b>	<b>17,10</b>	<b>22,90</b>	<b>27,50</b>	<b>33,10</b>	<b>56,20</b>

**8070G****SCU**

HARTMETALL



Product description as Art. 8070A

Cut 4=diamond

Head Ø	mm	6	8	10	12	16
Head length	mm	16	22	27	30	33
Overall length approx	mm	50	69	74	76	78
<b>8070G</b>	<b>Each</b>	<b>20,50</b>	<b>27,40</b>	<b>32,90</b>	<b>39,70</b>	<b>67,50</b>

**8070H****SCU****TiAlN** HARTMETALL

Product description as Art. 8070A

TiAlN (HYPER) coating

Cut 4 = diamond

Head Ø	mm	6	8	10	12	16
Head length	mm	16	22	27	30	33
Overall length approx	mm	50	69	74	76	78
<b>8070H</b>	<b>Each</b>	<b>24,10</b>	<b>33,10</b>	<b>40,80</b>	<b>50,50</b>	<b>83,40</b>

**8070L****SCU**

HARTMETALL



Product description as Art. 8070A

Cut 5=smooth cut with chip breaker.

Head Ø	mm	6	8	10	12	16
Head length	mm	16	22	27	30	33
Overall length approx	mm	50	69	74	76	78
<b>8070L</b>	<b>Each</b>	<b>17,10</b>	<b>22,90</b>	<b>27,50</b>	<b>33,10</b>	<b>56,20</b>

**8070P****SCU**

HARTMETALL



Product description as Art. 8070A

Cut 7=alternate universal

Head Ø	mm	6	8	10	12	16
Head length	mm	16	22	27	30	33
Overall length approx	mm	50	69	74	76	78
<b>8070P</b>	<b>Each</b>	<b>17,10</b>	<b>22,90</b>	<b>27,50</b>	<b>33,10</b>	<b>56,20</b>

**8075E****SCU**

HARTMETALL



TIPO CONICO

In tungsten carbide, ground cutting edges.

Shank Ø 6mm.

Cut 3=second cut.

Head Ø	mm	6	10	12	16
Head length	mm	15	16	25	25
Overall length approx	mm	50	63	70	73
<b>8075E</b>	<b>Each</b>	<b>17,30</b>	<b>21,10</b>	<b>26,00</b>	<b>37,40</b>

Product description as Art. 8075E

Cut 4=diamond

Head Ø	mm	6	10	12	16
Head length	mm	15	16	25	25
Overall length approx	mm	50	63	70	73
<b>8075G</b>	<b>Each</b>	<b>20,80</b>	<b>25,20</b>	<b>31,20</b>	<b>44,80</b>

SCU


**8075G**

HARTMETALL



Product description as Art. 8075E

TiALN (HYPER) coating

Cut 4 = diamond

Head Ø	mm	6	10	12	16
Head length	mm	15	16	25	25
Overall length approx	mm	50	63	70	73
<b>8075H</b>	<b>Each</b>	<b>24,40</b>	<b>33,10</b>	<b>42,10</b>	<b>60,70</b>

SCU


**8075H**

TiALN HARTMETALL



Product description as Art. 8075E

Cut 5=smooth cut with chip breaker.

Head Ø	mm	6	10	12	16
Head length	mm	15	16	25	25
Overall length approx	mm	50	63	70	73
<b>8075L</b>	<b>Each</b>	<b>17,30</b>	<b>21,10</b>	<b>26,00</b>	<b>37,40</b>

SCU


**8075L**

HARTMETALL



Product description as Art. 8075E

Cut 7=alternate universal

Head Ø	mm	6	10	12	16
Head length	mm	15	16	25	25
Overall length approx	mm	50	63	70	73
<b>8075P</b>	<b>Each</b>	<b>17,30</b>	<b>21,10</b>	<b>26,00</b>	<b>37,40</b>

SCU


**8075P**

HARTMETALL



CONICAL-SHAPED WITH 90° TIP

In tungsten carbide, ground cutting edges.

Shank Ø 6mm.

Cut 3=second cut.

Head Ø	mm	6	10	12	16
Head length	mm	3	5	6	8
Overall length approx	mm	50	52	53	57
<b>8080E</b>	<b>Each</b>	<b>15,10</b>	<b>18,40</b>	<b>22,70</b>	<b>28,50</b>

SCU


**8080E**

90° HARTMETALL



Product description as Art. 8080E

Cut 5=smooth cut with chip breaker.

Head Ø	mm	6	10	12	16
Head length	mm	3	5	6	8
Overall length approx	mm	50	52	53	57
<b>8080L</b>	<b>Each</b>	<b>15,10</b>	<b>18,40</b>	<b>22,70</b>	<b>28,50</b>

SCU


**8080L**

90° HARTMETALL



CONICAL-SHAPED WITH 90° TIP

In tungsten carbide, ground cutting edges.

Shank Ø 6mm.

Cut 3=second cut.

Head Ø	mm	6	10	12	16
Head length	mm	5	9	11	14,5
Overall length approx	mm	50	55	58	61
<b>8085E</b>	<b>Each</b>	<b>14,90</b>	<b>18,40</b>	<b>22,70</b>	<b>28,50</b>

SCU


**8085E**

60° HARTMETALL



Product description as Art. 8085E

Cut 5=smooth cut with chip breaker.

Head Ø	mm	6	10	12	16
Head length	mm	5	9	11	14,5
Overall length approx	mm	50	55	58	61
<b>8085L</b>	<b>Each</b>	<b>14,90</b>	<b>18,40</b>	<b>22,70</b>	<b>28,50</b>

SCU


**8085L**

60° HARTMETALL



**ASSORTMENTS OF ROTARY GRINDING WHEELS**

**8100G**



**Orig. Erzett - Art. SORTIMENT 14**

Assortments of rotary grinding wheels with shank Ø 3mm.  
With 14 assorted grinding wheels Art. 7851 G.  
The assortment on wooden support.

**8100G** Each **32,30**

**8105G**



**Orig. Erzett - Art. SORTIMENT 45**

Assortments of 45 rotary grinding wheels with shank Ø 6mm.  
The set contains: 1 grinding wheel for type of the following articles:  
7861 G: 13x3 16x4 20x6 25x6 25x10 32x8 40x10  
7855 G: 40x20 32x32 32x20 25x32 25x25 25x20 20x40 20x32 20x25 20x20 16x32 16x20 16x16 13x20 13x13 10x32 10x20 10x10 8x16 8x10 6x10 5x10 4x8 3x6  
7859 G: 8x16 10x20 13x20 20x32  
7860 G: 10 13 16 20 25 32  
7856 G: 16x32 16x40 20x32 20x40  
The assortment on wooden support.

**8105G** Each **135,00**

**ASSORTMENTS OF ROTARY BURRS**

**8116**



**HSS**

**Prod. SCU**

Assortment of 6 HSS rotary burrs. Cut 3=second-cut with chip-breaker  
The set contains: 1 burr for type Art. 7992 B 6,12 - 7992 F 12 - 7992 P 12 - 7992 S 12 - 7992 V 12.  
The assortment on wooden support.

**8116** Each **105,90**

**8117**



**HSS**

Assortment of 16 HSS rotary burrs. Cut 3=second-cut with chip-breaker  
The set contains: 1 burr for type Art. 7992 B 6,10,12,15 - 7992 F 6,10,15 - 7992 P 6,10,15 - 7992 S 6,10,15 - 7992 V 6,10,15.  
The assortment on wooden support.

**8117** Each **283,60**

**8119**



**HARTMETALL**

Assortment of 6 SOLID CARBIDE rotary burrs. Cut 3=second-cut  
The set contains: 1 burr for type Art. 8041 E 10 - 8045 E 10 - 8050 E 10 - 8060 E 10 - 8070 E 10 - 8075 E 10.  
The assortment on wooden support.

**8119** Each **140,80**



Assortment of 16 SOLID CARBIDE rotary burrs. Cut 3=second-cut  
 The set contains: 1 burr for type Art. 8041 E 6,10 - 8045 E 6,10 - 8050 E 6,10 - 8055 E 6,10 - 8060 E 6,10 - 8065 E 6,10 - 8070 E 6,10 - 8075 E 6,10.  
 The assortment on wooden support.

**8121** Each **325,50**



HARTMETALL

Assortment of No.6 SOLID CARBIDE rotary burrs, TiAlN (HYPER) coating. Cut 4 = diamond  
 The set contains: No.1 burr for each type Art. 8037 H 10 - 8045 H 10 - 8050 H 10 - 8060 H 10 - 8065 H 10 - 8070 H 10.  
 Set supplied on wooden support.

**8125** Each **218,30**



TiAlN HARTMETALL

**DISPLAY UNITS FOR 100 BURRS**

**Prod. SCU**

Empty display only, with 100 holes Ø 6mm. Sturdy holding structure, made of chrome-plated steel, with anodized advertising panels. Closed plexiglas boxes on wooden base. Dimensions 350x320xh350 mm.

To be composed and customized with 100 burrs in HSS, SOLID CARBIDE or assorted

**08128G** Each **127,00**



**08128G**

**ASSORTMENTS OF ROTARY TOOLS**

**Orig. Erzett - Art. WK 10**

26pcs set, in plastic case.

The set contains:  
 8 HSS rotary burrs  
 11 grinding wheels with shank  
 7 rotary brushes  
 Complete assortment.

**8134G** Each **375,00**



**8134G**

**CONVERTERS**

**Prod. SCU**

**ELASTIC CONVERTERS**

In synthetic material reinforced with fibreglass.

Int Ø	mm	3
Ext. Ø	mm	6
Length	mm	20

**8148A** Each **12,90**



**8148A**

**Orig. Erzett - Art. SP 6**

In hardened steel.

Int Ø	mm	3
Ext. Ø	mm	6
Length	mm	25

**8148G** Each **19,30**



**8148G**

Prices in EURO - VAT not included

**FLEXIBLE SHAFTS**

**8152G SCU**



**Prod. SCU**

Type to be used on fixed and portable drills and rotary motors.  
For milling, deburring, cleaning, polishing and brushing.  
Coated with synthetic material.

Length	mm	1250
Drive Ø	mm	6
Chuck opening	mm	1-6
Max speed	rev/min	3500
<b>8152G</b>	<b>Each</b>	<b>93,30</b>

**ABRASIVE PASTES**

**8155G ERZETT**



**Orig. Erzett**

Silicon carbide.  
Suitable for polishing already sanded and hard metal surfaces.  
Comes in 250 g containers.

Grain		<b>120</b>	<b>180</b>	<b>320</b>
Type		medium	fine	very fine
Granules dimensions	µm	88-125	55-88	20-40
<b>8155G</b>	<b>Each</b>	<b>22,10</b>	<b>22,10</b>	<b>22,10</b>

**MICRO PRECISION DRILLS FOR METALS, RIGHT-HAND ROTATION**

**8300G HARTNER**



**Orig. Hartner - Art. 87011**

DIN 1899. Type N. COBALT HSS-E. Cutting angle 118°.  
Cylindrical shank Ø 1mm for drills up to 0.79mm  
Ø 1.5mm for drills up to 0.8mm. Tolerance: -0.004mm.  
Total length 25mm.

Ø	mm	<b>0,15</b>	<b>0,16</b>	<b>0,17</b>	<b>0,18</b>	<b>0,19</b>	<b>0,2</b>	<b>0,21</b>	<b>0,22</b>	<b>0,23</b>	<b>0,24</b>	<b>0,25</b>	<b>0,26</b>	<b>0,27</b>	<b>0,28</b>	<b>0,29</b>
Useful length	mm	1	1,4	1,4	1,4	1,4	1,8	1,8	1,8	1,8	1,8	2,2	2,2	2,2	2,2	2,2
Helix length	mm	0,8	1,1	1,1	1,1	1,1	1,5	1,5	1,5	1,5	1,5	1,9	1,9	1,9	1,9	1,9
<b>8300G</b>	<b>Each</b>	<b>12,10</b>	<b>11,10</b>	<b>11,20</b>	<b>10,30</b>	<b>10,40</b>	<b>9,52</b>	<b>9,90</b>	<b>9,90</b>	<b>9,90</b>	<b>9,90</b>	<b>8,56</b>	<b>8,18</b>	<b>8,08</b>	<b>7,98</b>	<b>7,98</b>
Ø	mm	<b>0,3</b>	<b>0,31</b>	<b>0,32</b>	<b>0,33</b>	<b>0,34</b>	<b>0,35</b>	<b>0,36</b>	<b>0,37</b>	<b>0,38</b>	<b>0,39</b>	<b>0,4</b>	<b>0,41*</b>	<b>0,42</b>	<b>0,43</b>	<b>0,44</b>
Useful length	mm	2,2	2,8	2,8	2,8	2,8	2,8	2,8	2,8	2,8	3,6	3,6	3,6	3,6	3,6	3,6
Helix length	mm	1,9	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	3	3	3	3	3	3
<b>8300G</b>	<b>Each</b>	<b>7,98</b>	<b>7,60</b>	<b>7,60</b>	<b>7,60</b>	<b>7,60</b>	<b>7,12</b>	<b>7,60</b>	<b>7,60</b>	<b>7,60</b>	<b>7,50</b>	<b>6,16</b>	<b>7,50</b>	<b>7,50</b>	<b>7,50</b>	<b>7,50</b>
Ø	mm	<b>0,45</b>	<b>0,46*</b>	<b>0,47</b>	<b>0,48</b>	<b>0,49</b>	<b>0,5</b>	<b>0,51</b>	<b>0,52</b>	<b>0,53*</b>	<b>0,54</b>	<b>0,55</b>	<b>0,56</b>	<b>0,57</b>	<b>0,58</b>	<b>0,6</b>
Useful length	mm	3,6	3,6	3,6	3,6	4	4	4	4	4	4,5	4,5	4,5	4,5	4,5	4,5
Helix length	mm	3	3	3	3	3,4	3,4	3,4	3,4	3,4	3,9	3,9	3,9	3,9	3,9	3,9
<b>8300G</b>	<b>Each</b>	<b>6,74</b>	<b>6,92</b>	<b>6,92</b>	<b>7,02</b>	<b>7,02</b>	<b>5,86</b>	<b>6,64</b>	<b>7,02</b>	<b>6,92</b>	<b>6,74</b>	<b>6,36</b>	<b>6,74</b>	<b>6,74</b>	<b>6,36</b>	<b>5,78</b>
Ø	mm	<b>0,61</b>	<b>0,63</b>	<b>0,64</b>	<b>0,65</b>	<b>0,66*</b>	<b>0,67</b>	<b>0,68</b>	<b>0,69</b>	<b>0,7</b>	<b>0,71</b>	<b>0,72</b>	<b>0,73</b>	<b>0,74</b>	<b>0,75</b>	<b>0,76*</b>
Useful length	mm	5	5	5	5	5	5	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	6,3
Helix length	mm	4,2	4,2	4,2	4,2	4,2	4,2	4,8	4,8	4,8	4,8	4,8	4,8	4,8	4,8	5,3
<b>8300G</b>	<b>Each</b>	<b>6,16</b>	<b>6,44</b>	<b>6,16</b>	<b>6,16</b>	<b>5,84</b>	<b>6,44</b>	<b>6,44</b>	<b>6,44</b>	<b>5,58</b>	<b>6,44</b>	<b>6,16</b>	<b>6,44</b>	<b>6,16</b>	<b>6,16</b>	<b>5,84</b>
Ø	mm	<b>0,77</b>	<b>0,78*</b>	<b>0,79</b>	<b>0,8</b>	<b>0,85</b>	<b>0,9</b>	<b>0,95</b>	<b>1</b>	<b>1,05</b>	<b>1,1</b>	<b>1,15</b>	<b>1,2</b>	<b>1,25</b>	<b>1,3</b>	<b>1,4</b>
Useful length	mm	6,3	6,3	6,3	6,3	6,3	7,1	7,1	8	8	9	9	10	10	10	11,2
Helix length	mm	5,3	5,3	5,3	5,3	5,3	6	6	6,8	6,8	7,6	7,6	8,5	8,5	8,5	9,5
<b>8300G</b>	<b>Each</b>	<b>6,44</b>	<b>5,84</b>	<b>6,44</b>	<b>5,78</b>	<b>6,36</b>	<b>5,78</b>	<b>6,36</b>	<b>5,78</b>	<b>6,44</b>	<b>6,16</b>	<b>6,44</b>	<b>6,16</b>	<b>6,44</b>	<b>6,44</b>	<b>6,36</b>
Ø	mm	<b>1,45</b>	<b>1,5</b>													
Useful length	mm	11,2	12,5													
Helix length	mm	9,5	9,5													
<b>8300G</b>	<b>Each</b>	<b>6,74</b>	<b>8,56</b>													

Packing unit: 10 pieces. \* Sizes running out of stock.

**DRILLS FOR METALS, RIGHT AND LEFT-HAND ROTATION**

**8305G HARTNER**



**Orig. Hartner - Art. 81110**

For steel up to R 900 N/sqmm DIN 1897. Type N. HSS. Cutting angle 118°. EXTRA-SHORT pattern.  
For automatic machines. Cylindrical shank.  
RIGHT-HAND rotation.

Ø	mm	<b>1</b>	<b>1,1</b>	<b>1,2</b>	<b>1,25</b>	<b>1,3</b>	<b>1,4</b>	<b>1,5</b>	<b>1,6</b>	<b>1,7</b>	<b>1,75</b>	<b>1,8</b>	<b>1,9</b>	<b>2</b>	<b>2,1</b>	<b>2,2</b>
Overall length	mm	26	28	30	30	30	32	32	34	34	36	36	36	38	38	40
Helix length	mm	6	7	8	8	8	9	9	10	10	11	11	11	12	12	13
<b>8305G</b>	<b>Each</b>	<b>2,96</b>	<b>3,54</b>	<b>3,54</b>	<b>5,70</b>	<b>3,50</b>	<b>3,14</b>	<b>2,60</b>	<b>2,96</b>	<b>3,20</b>	<b>6,00</b>	<b>3,44</b>	<b>2,96</b>	<b>1,88</b>	<b>3,04</b>	<b>2,76</b>
Ø	mm	<b>2,3</b>	<b>2,4</b>	<b>2,5</b>	<b>2,6</b>	<b>2,7</b>	<b>2,8</b>	<b>2,9</b>	<b>3</b>	<b>3,1</b>	<b>3,2</b>	<b>3,3</b>	<b>3,4</b>	<b>3,5</b>	<b>3,6</b>	<b>3,7</b>
Overall length	mm	40	43	43	43	46	46	46	46	49	49	49	52	52	52	52
Helix length	mm	13	14	14	14	16	16	16	16	18	18	18	20	20	20	20
<b>8305G</b>	<b>Each</b>	<b>2,96</b>	<b>3,20</b>	<b>2,22</b>	<b>2,96</b>	<b>3,20</b>	<b>2,96</b>	<b>3,20</b>	<b>2,22</b>	<b>2,86</b>	<b>2,76</b>	<b>2,86</b>	<b>3,60</b>	<b>2,60</b>	<b>3,60</b>	<b>3,60</b>
Ø	mm	<b>3,8</b>	<b>3,9</b>	<b>4</b>	<b>4,1</b>	<b>4,2</b>	<b>4,3</b>	<b>4,4</b>	<b>4,5</b>	<b>4,6</b>	<b>4,7</b>	<b>4,8</b>	<b>4,9</b>	<b>5</b>	<b>5,1</b>	<b>5,2*</b>
Overall length	mm	55	55	55	55	55	58	58	58	58	58	62	62	62	62	62
Helix length	mm	22	22	22	22	22	24	24	24	24	24	26	26	26	26	26
<b>8305G</b>	<b>Each</b>	<b>3,94</b>	<b>3,94</b>	<b>2,60</b>	<b>3,10</b>	<b>3,04</b>	<b>4,82</b>	<b>5,30</b>	<b>3,14</b>	<b>5,50</b>	<b>5,50</b>	<b>5,02</b>	<b>5,02</b>	<b>3,30</b>	<b>5,02</b>	<b>5,08</b>

Prices in EURO - VAT not included

Ø	mm	5,3	5,4	5,5	5,6	5,7	5,8	5,9	6	6,25	6,5	6,75	7	7,25*	7,5	7,75
Overall length	mm	62	66	66	66	66	66	66	66	70	70	74	74	74	74	79
Helix length	mm	26	28	28	28	28	28	28	28	31	31	34	34	34	34	37
<b>8305G</b>	<b>Each</b>	<b>5,02</b>	<b>5,70</b>	<b>4,38</b>	<b>6,38</b>	<b>5,90</b>	<b>6,38</b>	<b>6,38</b>	<b>4,38</b>	<b>9,04</b>	<b>5,22</b>	<b>8,64</b>	<b>6,30</b>	<b>11,70</b>	<b>7,18</b>	<b>14,40</b>
Ø	mm	8	8,25*	8,5	8,75	9	9,25	9,5	9,75	10	10,5	10,75	11	11,5	12	12,5
Overall length	mm	79	79	79	84	84	84	84	89	89	89	95	95	95	102	102
Helix length	mm	37	37	37	40	40	40	40	43	43	43	47	47	47	51	51
<b>8305G</b>	<b>Each</b>	<b>7,18</b>	<b>12,60</b>	<b>10,50</b>	<b>18,50</b>	<b>9,54</b>	<b>22,60</b>	<b>16,10</b>	<b>26,60</b>	<b>11,50</b>	<b>21,20</b>	<b>41,30</b>	<b>21,20</b>	<b>22,60</b>	<b>27,10</b>	<b>28,10</b>
Ø	mm	13	13,5	14	15	16	17	18	19	20						
Overall length	mm	102	107	107	111	115	119	123	127	131						
Helix length	mm	51	54	54	56	58	60	62	64	66						
<b>8305G</b>	<b>Each</b>	<b>28,50</b>	<b>32,90</b>	<b>33,90</b>	<b>36,40</b>	<b>40,80</b>	<b>50,10</b>	<b>52,10</b>	<b>60,10</b>	<b>64,90</b>						

Up to Ø 7.5mm in 10pcs packing units. \* Sizes running out of stock.

**Orig. Hartner - Art. 81115**  
Product description as Art. 8305G  
LEFT-HAND rotation.



**8306G**

LEFT HAND USE



Ø	mm	1	1,1*	1,2*	1,25*	1,3*	1,4*	1,5	1,6	1,7*	1,75*	1,8*	1,9	2	2,2	2,3*
Overall length	mm	26	28	30	30	30	32	32	34	34	36	36	36	38	40	40
Helix length	mm	6	7	8	8	8	9	9	10	10	11	11	11	12	13	13
<b>8306G</b>	<b>Each</b>	<b>5,68</b>	<b>4,72</b>	<b>4,72</b>	<b>6,14</b>	<b>4,72</b>	<b>4,72</b>	<b>5,58</b>	<b>6,36</b>	<b>4,40</b>	<b>5,44</b>	<b>4,40</b>	<b>6,54</b>	<b>4,24</b>	<b>5,68</b>	<b>3,94</b>
Ø	mm	2,4	2,5	2,6	2,8	2,9	3	3,1	3,2	3,3	3,4	3,5	3,6	3,7	3,8	4
Overall length	mm	43	43	43	46	46	46	49	49	49	52	52	52	52	55	55
Helix length	mm	14	14	14	16	16	16	18	18	18	20	20	20	20	22	22
<b>8306G</b>	<b>Each</b>	<b>5,86</b>	<b>4,82</b>	<b>6,16</b>	<b>6,16</b>	<b>6,54</b>	<b>4,34</b>	<b>6,54</b>	<b>5,68</b>	<b>5,96</b>	<b>7,50</b>	<b>5,86</b>	<b>7,50</b>	<b>7,12</b>	<b>7,50</b>	<b>5,96</b>
Ø	mm	4,1	4,2	4,3	4,4	4,5	4,6	4,7	4,8	4,9	5	5,1	5,2	5,3	5,4	5,5
Overall length	mm	55	55	58	58	58	58	58	62	62	62	62	62	62	66	66
Helix length	mm	22	22	24	24	24	24	24	26	26	26	26	26	26	28	28
<b>8306G</b>	<b>Each</b>	<b>6,84</b>	<b>6,16</b>	<b>9,42</b>	<b>9,72</b>	<b>6,54</b>	<b>9,42</b>	<b>9,72</b>	<b>9,72</b>	<b>8,86</b>	<b>7,12</b>	<b>9,72</b>	<b>9,72</b>	<b>9,72</b>	<b>10,10</b>	<b>8,66</b>
Ø	mm	5,6	5,8	5,9	6	6,5	6,75*	7	7,25*	7,5*	7,75	8	8,5*	8,75	9,25	9,5
Overall length	mm	66	66	66	66	70	74	74	74	74	79	79	79	84	84	84
Helix length	mm	28	28	28	28	31	34	34	34	34	37	37	37	40	40	40
<b>8306G</b>	<b>Each</b>	<b>10,60</b>	<b>10,40</b>	<b>10,80</b>	<b>9,52</b>	<b>10,10</b>	<b>17,10</b>	<b>9,72</b>	<b>25,10</b>	<b>11,30</b>	<b>40,40</b>	<b>12,90</b>	<b>13,40</b>	<b>42,30</b>	<b>40,90</b>	<b>21,70</b>
Ø	mm	9,75	10	10,25*	10,5	10,75	11*	11,5	12	12,5	13	13,5*	14	15	16	17
Overall length	mm	89	89	89	89	95	95	95	102	102	102	107	107	111	115	119
Helix length	mm	43	43	43	43	47	47	47	51	51	51	54	54	56	58	60
<b>8306G</b>	<b>Each</b>	<b>51,10</b>	<b>18,60</b>	<b>28,20</b>	<b>32,70</b>	<b>48,10</b>	<b>26,20</b>	<b>34,70</b>	<b>36,10</b>	<b>43,80</b>	<b>46,70</b>	<b>44,30</b>	<b>49,10</b>	<b>47,60</b>	<b>53,90</b>	<b>66,40</b>
Ø	mm	18	19	20*												
Overall length	mm	123	127	131												
Helix length	mm	62	64	66												
<b>8306G</b>	<b>Each</b>	<b>72,20</b>	<b>79,80</b>	<b>76,80</b>												

Up to Ø 7.5mm in 10pcs packing units. \* Sizes running out of stock.

**DRILLS FOR METALS, RIGHT-HAND ROTATION**

**Orig. Hartner - Art. 81140**  
DIN 1897. Type FN. HSS. Cutting angle 130°.  
EXTRA-SHORT pattern.  
Sharpening according to DIN 1412, form A. Nitrited surface, polished slots.  
For automatic machines. For steel up to R 900 N/sqmm, brass, bronze, aluminium and aluminium alloys.



**8308G**



Cylindrical shank.

Ø	mm	2,1	2,2*	2,3	2,4	2,5	2,6	2,7	2,8	2,9	3	3,1	3,2	3,3	3,4	3,5
Overall length	mm	38	40	40	43	43	43	46	46	46	46	49	49	49	52	52
Helix length	mm	12	13	13	14	14	14	16	16	16	16	18	18	18	20	20
<b>8308G</b>	<b>Each</b>	<b>7,44</b>	<b>6,52</b>	<b>7,68</b>	<b>7,44</b>	<b>5,08</b>	<b>6,54</b>	<b>7,78</b>	<b>8,24</b>	<b>8,34</b>	<b>5,42</b>	<b>8,58</b>	<b>6,66</b>	<b>5,64</b>	<b>9,14</b>	<b>6,32</b>
Ø	mm	3,6*	3,7*	3,8*	4	4,1	4,2	4,3	4,5	4,6	4,8*	4,9*	5	5,1	5,2	5,3
Overall length	mm	52	52	55	55	55	55	58	58	58	62	62	62	62	62	62
Helix length	mm	20	20	22	22	22	22	24	24	24	26	26	26	26	26	26
<b>8308G</b>	<b>Each</b>	<b>6,74</b>	<b>6,74</b>	<b>7,22</b>	<b>6,88</b>	<b>10,30</b>	<b>7,00</b>	<b>9,02</b>	<b>7,78</b>	<b>10,80</b>	<b>8,40</b>	<b>8,52</b>	<b>7,68</b>	<b>12,10</b>	<b>13,20</b>	<b>12,80</b>
Ø	mm	5,5	5,8	6	6,1	6,4*	7	7,1	7,3	7,5*	7,9*	8	8,1	8,3*	8,4*	8,5*
Overall length	mm	66	66	66	70	70	74	74	74	74	79	79	79	79	79	79
Helix length	mm	28	28	28	31	31	34	34	34	34	37	37	37	37	37	37
<b>8308G</b>	<b>Each</b>	<b>10,50</b>	<b>14,80</b>	<b>9,36</b>	<b>11,80</b>	<b>10,10</b>	<b>12,20</b>	<b>24,30</b>	<b>21,80</b>	<b>10,80</b>	<b>19,60</b>	<b>13,60</b>	<b>21,10</b>	<b>19,10</b>	<b>19,20</b>	<b>13,50</b>
Ø	mm	9	9,2	9,5	9,6	9,7	9,8	10,5	11,5*	12*	12,5*	13*				
Overall length	mm	84	84	84	89	89	89	89	95	102	102	102				
Helix length	mm	40	40	40	43	43	43	43	47	51	51	51				
<b>8308G</b>	<b>Each</b>	<b>16,20</b>	<b>35,60</b>	<b>22,40</b>	<b>37,30</b>	<b>34,40</b>	<b>34,40</b>	<b>30,50</b>	<b>32,60</b>	<b>32,60</b>	<b>33,80</b>	<b>37,30</b>				

Up to Ø 7.5mm in 10pcs packing units. \* Sizes running out of stock.

**STUB DRILLS FOR BRASS, BRONZE AN SYNTHETIC MATERIALS, RIGHT-HAND ROTATION**

**8310G**



**Orig. Hartner - Art. 81120**

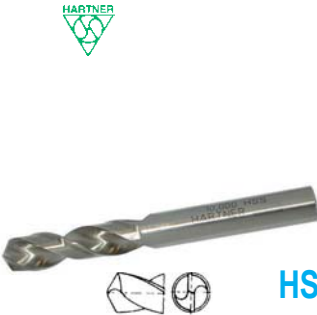
DIN 1897. Type H. HSS. Cutting angle 118°. EXTRA-SHORT pattern.  
Sharpening according to DIN 1414, type H. Polished surface. Wide and deep slots.  
For automatic machines. For short-chip hard materials, brass, bronze, phosphore, magnesium alloys, bakelite, slate, plexiglas.  
Cylindrical shank.

Ø	mm	2	2,4	2,5	2,6	2,7	2,8	2,9*	3	3,1*	3,2	3,3*	3,4	3,5	3,7	3,8	
Overall length	mm	38	43	43	43	46	46	46	46	49	49	49	52	52	52	55	
Helix length	mm	12	14	14	14	16	16	16	16	18	18	18	20	20	20	22	
<b>8310G</b>	<b>Each</b>	<b>5,16</b>	<b>6,92</b>	<b>5,26</b>	<b>6,30</b>	<b>7,42</b>	<b>7,52</b>	<b>5,24</b>	<b>5,58</b>	<b>6,54</b>	<b>6,08</b>	<b>6,22</b>	<b>7,52</b>	<b>5,88</b>	<b>8,04</b>	<b>8,66</b>	
Ø	mm	3,9	4	4,1	4,2	4,3*	4,4	4,5	4,6*	4,7	4,8	5	5,1*	5,2	5,3	5,4	
Overall length	mm	55	55	55	55	58	58	58	58	58	62	62	62	62	62	66	
Helix length	mm	22	22	22	22	24	24	24	24	24	26	26	26	26	26	28	
<b>8310G</b>	<b>Each</b>	<b>8,66</b>	<b>6,60</b>	<b>8,26</b>	<b>7,64</b>	<b>6,10</b>	<b>8,76</b>	<b>8,26</b>	<b>6,32</b>	<b>9,08</b>	<b>9,08</b>	<b>7,22</b>	<b>6,66</b>	<b>9,48</b>	<b>10,10</b>	<b>11,80</b>	
Ø	mm	5,5	5,6	5,7	5,8	5,9*	6	6,5	7	8	8,5	9	9,5	10	11	12	
Overall length	mm	66	66	66	66	66	66	70	74	79	79	84	84	89	95	102	
Helix length	mm	28	28	28	28	28	28	31	34	37	37	40	40	43	47	51	
<b>8310G</b>	<b>Each</b>	<b>9,38</b>	<b>12,40</b>	<b>12,90</b>	<b>12,80</b>	<b>8,82</b>	<b>9,38</b>	<b>12,50</b>	<b>12,10</b>	<b>13,40</b>	<b>18,10</b>	<b>16,30</b>	<b>22,70</b>	<b>17,20</b>	<b>34,10</b>	<b>37,10</b>	
Ø	mm	13															
Overall length	mm	102															
Helix length	mm	51															
<b>8310G</b>	<b>Each</b>	<b>43,80</b>															

Up to Ø 7.5mm in 10pcs packing units. \* Sizes running out of stock.

**DRILLS FOR ALUMINIUM AND COPPER, RIGHT-HAND ROTATION**

**8311G**



**Orig. Hartner - Art. 81130**

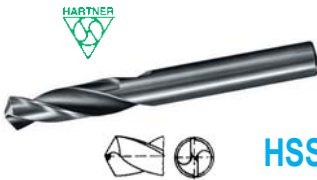
DIN 1897. Type W. HSS. Cutting angle 130°. EXTRA-SHORT pattern.  
For aluminium, copper and relevant alloys.  
Cylindrical shank.

Ø	mm	2	2,5	3	3,2	3,5	4	4,5
Overall length	mm	38	43	46	49	52	55	58
Helix length	mm	12	14	16	18	20	22	24
<b>8311G</b>	<b>Each</b>	<b>5,58</b>	<b>5,06</b>	<b>5,78</b>	<b>7,22</b>	<b>6,40</b>	<b>7,32</b>	<b>7,02</b>
Ø	mm	5	5,5*	6	6,5	7,5*	8*	8,5
Overall length	mm	62	66	66	70	74	79	79
Helix length	mm	26	28	28	31	34	37	37
<b>8311G</b>	<b>Each</b>	<b>7,94</b>	<b>7,52</b>	<b>11,40</b>	<b>11,30</b>	<b>10,20</b>	<b>13,60</b>	<b>15,50</b>
Ø	mm	9*	9,5	10	11*	12	13*	
Overall length	mm	84	84	89	95	102	102	
Helix length	mm	40	40	43	47	51	51	
<b>8311G</b>	<b>Each</b>	<b>13,20</b>	<b>18,80</b>	<b>19,10</b>	<b>28,90</b>	<b>42,30</b>	<b>37,10</b>	

Up to Ø 7.5mm in 10pcs packing units.  
\* Sizes running out of stock.

**DRILLS FOR METALS, RIGHT-HAND ROTATION**

**8312G**



**Orig. Hartner - Art. 81171**

DIN 1897. Type V. COBALT HSS-E. Cutting angle 130°. EXTRA-SHORT pattern.  
For steel with R higher than 900 N/sqmm and spring steel.  
Cylindrical shank.

Ø	mm	1*	1,1	1,2	1,3	1,4	1,5	1,6	1,7	1,8	1,9	2	2,1	2,2	2,3	2,4
Overall length	mm	26	28	30	30	32	32	34	34	36	36	38	38	40	40	43
Helix length	mm	6	6	8	8	9	9	10	10	11	11	12	12	13	13	14
<b>8312G</b>	<b>Each</b>	<b>5,32</b>	<b>5,38</b>	<b>5,48</b>	<b>5,38</b>	<b>5,38</b>	<b>5,00</b>	<b>4,90</b>	<b>4,82</b>	<b>5,10</b>	<b>4,90</b>	<b>4,28</b>	<b>5,00</b>	<b>5,10</b>	<b>5,10</b>	<b>5,38</b>
Ø	mm	2,5	2,6	2,7	2,8	2,9	3	3,1	3,2	3,3	3,4	3,5	3,6	3,7	3,8	4
Overall length	mm	43	43	46	46	46	46	49	49	49	52	52	52	52	55	55
Helix length	mm	14	14	16	16	16	16	18	18	18	20	20	20	20	22	22
<b>8312G</b>	<b>Each</b>	<b>4,66</b>	<b>5,38</b>	<b>5,86</b>	<b>5,86</b>	<b>6,16</b>	<b>4,90</b>	<b>5,86</b>	<b>5,38</b>	<b>5,78</b>	<b>6,06</b>	<b>5,58</b>	<b>5,78</b>	<b>6,44</b>	<b>6,16</b>	<b>5,96</b>
Ø	mm	4,1	4,2	4,3	4,4	4,5	4,6*	4,7*	4,8	4,9	5	5,1	5,2	5,3	5,4	5,5
Overall length	mm	55	55	58	58	58	58	58	62	62	62	62	62	62	66	66
Helix length	mm	22	22	24	24	24	24	24	26	26	26	26	26	26	28	28
<b>8312G</b>	<b>Each</b>	<b>6,36</b>	<b>6,16</b>	<b>6,84</b>	<b>8,18</b>	<b>6,44</b>	<b>7,58</b>	<b>6,24</b>	<b>7,70</b>	<b>8,94</b>	<b>6,92</b>	<b>9,72</b>	<b>11,80</b>	<b>12,20</b>	<b>15,20</b>	<b>8,86</b>
Ø	mm	5,6	5,7	5,8	5,9	6	6,1	6,2	6,3	6,4	6,5	6,6	6,7	6,8	6,9*	7
Overall length	mm	66	66	66	66	66	70	70	70	70	70	70	74	74	74	74
Helix length	mm	28	28	28	28	28	31	31	31	31	31	31	31	34	34	34
<b>8312G</b>	<b>Each</b>	<b>15,20</b>	<b>15,40</b>	<b>16,20</b>	<b>16,70</b>	<b>8,86</b>	<b>17,40</b>	<b>18,40</b>	<b>19,80</b>	<b>19,10</b>	<b>10,80</b>	<b>20,70</b>	<b>23,10</b>	<b>21,70</b>	<b>18,10</b>	<b>11,80</b>
Ø	mm	7,1	7,2	7,3*	7,4	7,5	7,6	7,7	7,8	7,9	8	8,1	8,2	8,3*	8,4	8,5
Overall length	mm	74	74	74	74	74	79	79	79	79	79	79	79	79	79	79
Helix length	mm	34	34	34	34	34	37	37	37	37	37	37	37	37	37	37
<b>8312G</b>	<b>Each</b>	<b>22,20</b>	<b>25,50</b>	<b>19,20</b>	<b>24,10</b>	<b>15,80</b>	<b>27,10</b>	<b>26,10</b>	<b>27,40</b>	<b>30,80</b>	<b>12,60</b>	<b>28,90</b>	<b>30,30</b>	<b>26,20</b>	<b>33,70</b>	<b>15,50</b>

SEGUE >>>

Prices in EURO - VAT not included

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Ø	mm	8,6	8,7	8,8	8,9	9	9,1	9,2	9,3	9,4*	9,5	9,6	9,7	9,8	9,9*	10
Overall length	mm	84	84	84	84	84	84	84	84	84	84	89	89	89	89	89
Helix length	mm	40	40	40	40	40	40	40	40	40	40	43	43	43	43	43
<b>8312G</b>	<b>Each</b>	<b>32,30</b>	<b>36,10</b>	<b>38,10</b>	<b>41,90</b>	<b>16,40</b>	<b>40,90</b>	<b>40,90</b>	<b>46,70</b>	<b>45,70</b>	<b>17,80</b>	<b>43,80</b>	<b>43,30</b>	<b>44,30</b>	<b>36,40</b>	<b>20,70</b>
Ø	mm	10,5	11	11,5	12	12,5	13	14	15							
Overall length	mm	89	95	95	102	102	102	107	111							
Helix length	mm	43	47	47	51	51	51	54	56							
<b>8312G</b>	<b>Each</b>	<b>37,50</b>	<b>38,50</b>	<b>46,20</b>	<b>51,10</b>	<b>53,90</b>	<b>57,70</b>	<b>63,50</b>	<b>75,10</b>							

Up to Ø 7.5mm in 10pcs packing units. \* Sizes running out of stock.

**DRILLS FOR STAINLESS STEEL AND ALLOYS, RIGHT-HAND ROTATION**

Orig. Hartner - Art. 81173

DIN 1897, Inox-Drill. COBALT HSS-E. Cutting angle 130°.

EXTRA-SHORT pattern.

Particular drill geometry with special spiral flute and web shape for easier chip ejection. For stainless steel V2A and V4A, Titanium, Aluminium and some copper alloys.

Cylindrical shank.



**INOX 8315G**



**HSS-E**

Ø	mm	1	1,1	1,2*	1,3	1,4	1,5	1,6	1,7*	1,8	1,9*	2	2,1	2,2	2,3	2,4
Overall length	mm	26	28	30	30	32	32	34	34	36	36	38	38	40	40	43
Helix length	mm	6	7	8	8	9	9	10	10	11	11	12	12	13	13	14
<b>8315G</b>	<b>Each</b>	<b>10,20</b>	<b>9,28</b>	<b>9,58</b>	<b>9,90</b>	<b>9,90</b>	<b>9,08</b>	<b>8,76</b>	<b>7,64</b>	<b>8,14</b>	<b>7,30</b>	<b>6,70</b>	<b>10,50</b>	<b>9,28</b>	<b>9,28</b>	<b>9,70</b>
Ø	mm	2,5	2,6	2,7	2,8	2,9*	3	3,1*	3,2	3,3	3,4	3,5	3,6	3,8	3,9*	4
Overall length	mm	43	43	46	46	46	46	49	49	49	52	52	52	55	55	55
Helix length	mm	14	14	16	16	16	16	18	18	18	20	20	20	22	22	22
<b>8315G</b>	<b>Each</b>	<b>7,22</b>	<b>9,70</b>	<b>13,10</b>	<b>10,20</b>	<b>8,72</b>	<b>9,08</b>	<b>8,72</b>	<b>9,70</b>	<b>10,80</b>	<b>10,40</b>	<b>10,20</b>	<b>13,50</b>	<b>10,90</b>	<b>8,24</b>	<b>9,48</b>
Ø	mm	4,1	4,2	4,3	4,4*	4,5	4,6*	4,8	4,9	5	5,1	5,2	5,3*	5,5	5,6*	5,7
Overall length	mm	55	55	58	58	58	58	62	62	62	62	62	62	66	66	66
Helix length	mm	22	22	24	24	24	24	26	26	26	26	26	26	28	28	28
<b>8315G</b>	<b>Each</b>	<b>11,60</b>	<b>11,40</b>	<b>12,10</b>	<b>9,70</b>	<b>10,90</b>	<b>11,20</b>	<b>12,80</b>	<b>15,60</b>	<b>11,10</b>	<b>16,80</b>	<b>20,60</b>	<b>23,20</b>	<b>16,20</b>	<b>20,60</b>	<b>24,30</b>
Ø	mm	5,8	5,9	6	6,1	6,2*	6,3	6,4*	6,5	6,6	6,7	6,8	6,9	7	7,1	7,2*
Overall length	mm	66	66	66	70	70	70	70	70	70	74	74	74	74	74	74
Helix length	mm	28	28	28	31	31	31	31	31	31	34	34	34	34	34	34
<b>8315G</b>	<b>Each</b>	<b>27,90</b>	<b>28,90</b>	<b>14,60</b>	<b>30,40</b>	<b>21,80</b>	<b>34,10</b>	<b>24,10</b>	<b>16,80</b>	<b>36,10</b>	<b>37,10</b>	<b>34,10</b>	<b>34,60</b>	<b>21,70</b>	<b>39,70</b>	<b>27,80</b>
Ø	mm	7,4	7,5	7,6	7,7*	7,8	7,9	8	8,1	8,2*	8,3*	8,4*	8,5	8,7	8,8*	9
Overall length	mm	74	74	79	79	79	79	79	79	79	79	79	79	84	84	84
Helix length	mm	34	34	37	37	37	37	37	37	37	37	37	37	40	40	40
<b>8315G</b>	<b>Each</b>	<b>41,30</b>	<b>22,70</b>	<b>42,80</b>	<b>32,20</b>	<b>46,40</b>	<b>63,90</b>	<b>19,80</b>	<b>45,90</b>	<b>44,20</b>	<b>39,30</b>	<b>40,40</b>	<b>25,30</b>	<b>60,90</b>	<b>44,20</b>	<b>30,40</b>
Ø	mm	9,2	9,3*	9,4	9,5	9,6*	9,8*	10	10,2	10,5	10,6*	11*	11,5			
Overall length	mm	84	84	84	84	89	89	89	89	89	89	95	95			
Helix length	mm	40	40	40	40	43	43	43	43	43	43	47	47			
<b>8315G</b>	<b>Each</b>	<b>63,90</b>	<b>51,20</b>	<b>67,10</b>	<b>27,90</b>	<b>51,20</b>	<b>52,90</b>	<b>31,50</b>	<b>59,80</b>	<b>65,10</b>	<b>81,80</b>	<b>58,90</b>	<b>79,40</b>			

Up to Ø 7.5mm in 10pcs packing units. \* Sizes running out of stock.

**DRILLS FOR METALS, RIGHT-HAND ROTATION**

Orig. Hartner - Art. 84400

DIN 1897. Type N. HSS+TIN. Cutting angle 118°.

EXTRA-SHORT pattern.

Sharpening according to DIN 1414, Form N.

For alloy steel up to R 900 N/sqmm, cast iron, spheroidal cast iron, aluminium and short-chip aluminium alloys, bronze and electrolytic copper.

Cylindrical shank. TIN treatment.



**8325G**



**HSS TIN**

Ø	mm	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8	8,5	9
Overall length	mm	38	43	46	52	55	58	62	66	66	70	74	74	79	79	84
Helix length	mm	12	14	16	20	22	24	26	28	28	31	34	34	37	37	40
<b>8325G</b>	<b>Each</b>	<b>9,30</b>	<b>9,86</b>	<b>9,86</b>	<b>10,30</b>	<b>10,30</b>	<b>10,80</b>	<b>11,20</b>	<b>12,40</b>	<b>12,40</b>	<b>22,10</b>	<b>23,30</b>	<b>25,50</b>	<b>24,40</b>	<b>28,30</b>	<b>27,20</b>
Ø	mm	9,5	10	10,5	11	11,5	12	12,5	13	13,5	14	14,5	15	15,5	16	17
Overall length	mm	84	89	89	95	95	102	102	102	107	107	111	111	115	115	119
Helix length	mm	40	43	43	47	47	51	51	51	54	54	56	56	58	58	60
<b>8325G</b>	<b>Each</b>	<b>34,40</b>	<b>29,90</b>	<b>42,10</b>	<b>42,10</b>	<b>46,10</b>	<b>49,30</b>	<b>47,50</b>	<b>51,50</b>	<b>59,80</b>	<b>57,60</b>	<b>62,10</b>	<b>64,20</b>	<b>61,50</b>	<b>69,80</b>	<b>80,80</b>
Ø	mm	17,5	18	20												
Overall length	mm	123	123	131												
Helix length	mm	62	62	66												
<b>8325G</b>	<b>Each</b>	<b>80,80</b>	<b>79,70</b>	<b>94,10</b>												

Up to Ø 7.5mm in 10pcs packing units. - Sizes mm 12,5 and 15,5 running out of stock.

### 8326G



HSS-E

TIN

Orig. Hartner - Art. 84805

Spiral flute length according to DIN 1897. Type FU 500. COBALT HSS-E+TIN. Cutting angle 118°. EXTRA-SHORT pattern.

Particular 4 facet grinding and special web thinning for low turning moments, higher drilling parameters and good finishing of the hole surface.

For alloy and unalloyed steel up to R 850 N/sqmm, steel for hot/cold working, bearing steel, stainless steel, non-ferrous metals, cast iron and plastic materials.

Cylindrical shank according to DIN 1835A. TIN treatment.

Ø	mm	2	2,5	3	3,3	3,5*	4	4,2	4,5*	5	5,5	6	6,5	6,8	7	7,5	8
Overall length	mm	44	46	48	50	52	54	66	68	70	72	72	75	78	78	78	81
Helix length	mm	12	14	16	18	20	22	22	24	26	28	28	31	34	34	34	37
Drive Ø	mm	3	3	3	4	4	4	6	6	6	6	6	8	8	8	8	8
Drive length	mm	28	28	28	28	28	28	36	36	36	36	36	36	36	36	36	36
<b>8326G</b>	<b>Each</b>	<b>15,90</b>	<b>17,80</b>	<b>17,80</b>	<b>21,10</b>	<b>19,60</b>	<b>23,50</b>	<b>26,10</b>	<b>24,10</b>	<b>34,50</b>	<b>34,50</b>	<b>37,90</b>	<b>44,10</b>	<b>45,70</b>	<b>45,70</b>	<b>48,30</b>	<b>49,10</b>
Ø	mm	8,5	9*	9,5	10	10,2	10,5	11*	11,5*	12	13*	14	15*	17	18*	19*	20*
Overall length	mm	87	91	91	93	100	100	104	104	108	111	114	116	126	128	130	132
Helix length	mm	37	40	40	43	43	43	47	47	51	51	54	56	60	62	64	66
Drive Ø	mm	10	10	10	10	12	12	12	12	12	16	16	16	20	20	20	20
Drive length	mm	40	40	40	40	45	45	45	45	45	48	48	48	50	50	50	50
<b>8326G</b>	<b>Each</b>	<b>54,30</b>	<b>54,10</b>	<b>62,90</b>	<b>67,20</b>	<b>81,90</b>	<b>81,90</b>	<b>83,70</b>	<b>81,10</b>	<b>106,00</b>	<b>119,00</b>	<b>193,00</b>	<b>207,00</b>	<b>254,00</b>	<b>256,00</b>	<b>292,00</b>	<b>301,00</b>

\* Sizes running out of stock.

### 8328G



HSS-E

FIRE

Orig. Hartner - Art. 84511

DIN 1897. Type FN 500. COBALT HSS-E + FIRE. Cutting angle 130°. EXTRA-SHORT pattern.

High-performance drills, excellent heat resistance, wide slots. Produced by using the powder-sintering technique (PM), such drills combine the advantages of conventional Cobalt HSS-E and solid carbide drills, resulting cheaper and less subject to breakage. FIRE-coated surface, for high-speed working, dry working, or when using nebulized lubrication-cooler.

For high-percentage alloy steel, quenched and tempered steel and case hardening steel, cast iron, brass and bronze.

Cylindrical shank. FIRE treatment.

Ø	mm	2	2,5	3	3,3	3,5	4	4,2	4,5	5	5,5	6	6,5	6,8	7	7,5
Overall length	mm	38	43	46	49	52	55	55	58	62	66	66	70	74	74	74
Helix length	mm	12	14	16	18	20	22	22	24	26	28	28	31	34	34	34
<b>8328G</b>	<b>Each</b>	<b>18,50</b>	<b>20,20</b>	<b>24,20</b>	<b>23,50</b>	<b>22,10</b>	<b>21,60</b>	<b>21,70</b>	<b>20,70</b>	<b>23,50</b>	<b>26,20</b>	<b>26,40</b>	<b>28,60</b>	<b>54,30</b>	<b>44,10</b>	<b>45,70</b>
Ø	mm	8	8,5	9	9,5	10	10,2	10,5	11	11,5	12	13				
Overall length	mm	79	79	84	84	89	89	89	95	95	102	102				
Helix length	mm	37	37	40	40	43	43	43	47	47	51	51				
<b>8328G</b>	<b>Each</b>	<b>47,40</b>	<b>50,10</b>	<b>56,10</b>	<b>71,50</b>	<b>63,80</b>	<b>93,10</b>	<b>91,30</b>	<b>96,50</b>	<b>102,00</b>	<b>109,00</b>	<b>119,00</b>				

## CARBIDE TIPPED TWIST DRILLS, RIGHT-HAND ROTATION

### 8330G



HARTMETALL

Prod. SCU - Art. 89303

DIN 8038. HSS body, SOLID CARBIDE cutting edges.

Cutting angle 85°. EXTRA-SHORT pattern.

For static machines. For drilling high-resistance synthetic materials.

Cylindrical shank.

Ø	mm	4	4,5*	5	5,5*	6*	6,5*	7*	7,5*	9*	9,5	10	11*	13*	15*	16
Overall length	mm	56	63	63	71	71	71	80	80	90	90	100	100	112	125	140
Helix length	mm	25	28	28	30	30	32	40	40	50	50	56	56	63	71	80
<b>8330G</b>	<b>Each</b>	<b>26,40</b>	<b>26,10</b>	<b>29,70</b>	<b>27,20</b>	<b>26,40</b>	<b>28,80</b>	<b>24,70</b>	<b>26,10</b>	<b>35,50</b>	<b>43,40</b>	<b>46,30</b>	<b>35,30</b>	<b>61,30</b>	<b>93,50</b>	<b>113,00</b>

\* Sizes running out of stock.

### 8331G



HARTMETALL

Prod. SCU - Art. 89301

DIN 8037. HSS body, SOLID CARBIDE cutting edges.

Cutting angle 118°. EXTRA-SHORT pattern.

For static machines. For drilling high-resistance cast iron and steel, pure molybdenum and soft metal alloys.

Cylindrical shank.

Ø	mm	3	3,1	3,2	3,3	3,5	3,6*	3,7	3,8*	3,9*	4	4,2	4,4*	4,5	4,7*	4,8
Overall length	mm	50	56	56	56	56	56	56	56	56	56	63	63	63	63	63
Helix length	mm	20	25	25	25	25	25	25	25	25	25	28	28	28	28	28
<b>8331G</b>	<b>Each</b>	<b>21,90</b>	<b>32,60</b>	<b>27,90</b>	<b>28,40</b>	<b>20,60</b>	<b>20,10</b>	<b>28,70</b>	<b>18,90</b>	<b>22,10</b>	<b>19,40</b>	<b>22,70</b>	<b>24,70</b>	<b>20,10</b>	<b>24,60</b>	<b>24,50</b>
Ø	mm	4,9*	5	5,1*	5,2	5,3*	5,4*	5,5	5,6*	5,7*	5,9*	6	6,1*	6,2*	6,3	6,4*
Overall length	mm	63	63	71	71	71	71	71	71	71	71	71	71	71	71	71
Helix length	mm	28	28	30	30	30	30	30	30	30	30	30	30	30	30	30
<b>8331G</b>	<b>Each</b>	<b>20,10</b>	<b>19,90</b>	<b>20,10</b>	<b>29,10</b>	<b>27,20</b>	<b>22,70</b>	<b>22,60</b>	<b>22,10</b>	<b>21,20</b>	<b>20,10</b>	<b>21,30</b>	<b>32,20</b>	<b>23,60</b>	<b>31,80</b>	<b>22,40</b>

Ø	mm	6,5	6,6*	6,7	6,8	6,9*	7	7,2	7,3*	7,4	7,5	7,6*	7,7	7,8*	7,9*	8
Overall length	mm	71	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Helix length	mm	32	40	40	40	40	40	40	40	40	40	40	40	40	40	40
<b>8331G</b>	<b>Each</b>	<b>22,50</b>	<b>23,50</b>	<b>32,60</b>	<b>27,50</b>	<b>30,40</b>	<b>23,60</b>	<b>34,70</b>	<b>29,80</b>	<b>31,80</b>	<b>26,40</b>	<b>26,70</b>	<b>31,80</b>	<b>24,30</b>	<b>29,80</b>	<b>24,90</b>
Ø	mm	8,2	8,5	9	9,5	10	10,5	11	11,5	12	12,5	13	13,5*	14	14,5	16
Overall length	mm	90	90	90	90	100	100	100	112	112	112	112	125	125	125	140
Helix length	mm	50	50	50	50	56	56	56	63	63	63	63	71	71	71	80
<b>8331G</b>	<b>Each</b>	<b>41,20</b>	<b>30,40</b>	<b>27,90</b>	<b>34,10</b>	<b>34,10</b>	<b>41,20</b>	<b>36,20</b>	<b>55,70</b>	<b>39,80</b>	<b>57,90</b>	<b>51,40</b>	<b>70,50</b>	<b>62,90</b>	<b>92,60</b>	<b>82,40</b>
Ø	mm	16,5	17,5*	18	18,5	19,5	20									
Overall length	mm	140	160	160	160	160	160									
Helix length	mm	80	90	90	90	90	90									
<b>8331G</b>	<b>Each</b>	<b>110,00</b>	<b>117,00</b>	<b>123,00</b>	<b>155,00</b>	<b>188,00</b>	<b>162,00</b>									

\* Sizes running out of stock.

**SOLID CARBIDE TWIST DRILLS, K 10/20, RIGHT-HAND ROTATION**

**Orig. Hartner - Art. 89246**

DIN 6540. Type NR, two cutting edges. Cutting angle 130°. EXTRA-SHORT pattern. For static and CNC machines. For high-resistance synthetic materials.

Cylindrical shank.

Ø	mm	0,5	0,7*	0,8	0,9*	1	1,1*	1,2	1,3*	1,4*						
Overall length	mm	30	30	30	30	30	30	30	30	30						
Helix length	mm	5,5	6,5	8,5	9,5	11	11	13	13	13						
<b>8334G</b>	<b>Each</b>	<b>10,60</b>	<b>7,82</b>	<b>10,70</b>	<b>7,82</b>	<b>9,26</b>	<b>7,44</b>	<b>10,70</b>	<b>7,44</b>	<b>7,44</b>						
Ø	mm	1,6*	1,7	1,8*	1,9*	2	3	4	5,5*							
Overall length	mm	40	40	40	40	40	45	50	50							
Helix length	mm	17,5	17,5	17,5	17,5	17,5	20	22	25							
<b>8334G</b>	<b>Each</b>	<b>8,12</b>	<b>11,60</b>	<b>8,12</b>	<b>8,12</b>	<b>9,54</b>	<b>15,40</b>	<b>25,80</b>	<b>33,80</b>							

\* Sizes running out of stock.



**8334G**



HARTMETALL

**Prod. SCU - Orig. M.D. DRILLS - Art. 13891/89235**

DIN 1897. Type N, two cutting edges. Cutting angle 120°. EXTRA-SHORT pattern. For static and CNC machines. For high-resistance alloy steel, high-resistance stainless steel, abrasive materials and cast iron. Shorter working times for usable high-speed, cost reduction and longer drill life. Better finishing to allow – in some cases – hole boring to be removed.

Cylindrical shank.

Ø	mm	0,8	0,9	1	1,1	1,2	1,3	1,4	1,5	1,6	1,8	1,9	2	2,2	2,3	2,4
Overall length	mm	24	25	26	28	30	30	32	32	34	36	36	38	40	40	43
Helix length	mm	5	5,5	6	7	8	8	9	9	10	11	11	12	13	13	14
<b>8335G</b>	<b>Each</b>	<b>5,00</b>	<b>5,00</b>	<b>4,86</b>	<b>5,00</b>	<b>5,22</b>	<b>5,22</b>	<b>5,28</b>	<b>5,22</b>	<b>5,28</b>	<b>5,34</b>	<b>5,34</b>	<b>5,08</b>	<b>5,08</b>	<b>5,08</b>	<b>5,08</b>
Ø	mm	2,5	2,6	2,7	2,8	2,9	3	3,1	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9
Overall length	mm	43	43	46	46	46	46	49	49	49	52	52	52	52	55	55
Helix length	mm	14	14	16	16	16	16	18	18	18	20	20	20	20	22	22
<b>8335G</b>	<b>Each</b>	<b>5,08</b>	<b>5,08</b>	<b>7,40</b>	<b>7,40</b>	<b>7,40</b>	<b>7,40</b>	<b>7,40</b>	<b>7,40</b>	<b>7,40</b>	<b>7,82</b>	<b>7,82</b>	<b>8,50</b>	<b>8,50</b>	<b>9,32</b>	<b>9,32</b>
Ø	mm	4	4,1	4,2	4,3	4,4	4,5	4,6	4,7	4,8	4,9	5	5,1	5,2	5,3	5,4
Overall length	mm	55	55	55	58	58	58	58	58	62	62	62	62	62	62	66
Helix length	mm	22	22	22	24	24	24	24	24	26	26	26	26	26	26	28
<b>8335G</b>	<b>Each</b>	<b>9,32</b>	<b>10,20</b>	<b>10,20</b>	<b>10,20</b>	<b>10,20</b>	<b>10,20</b>	<b>10,20</b>	<b>10,90</b>	<b>10,90</b>	<b>10,90</b>	<b>10,90</b>	<b>18,50</b>	<b>14,10</b>	<b>14,10</b>	<b>14,10</b>
Ø	mm	5,5	5,7	5,8	6	6,1	6,2	6,3	6,4	6,5	6,6	6,7	6,8	7	7,1	7,2
Overall length	mm	66	66	66	66	70	70	70	70	70	70	70	74	74	74	74
Helix length	mm	28	28	28	28	31	31	31	31	31	31	31	34	34	34	34
<b>8335G</b>	<b>Each</b>	<b>14,10</b>	<b>15,70</b>	<b>14,80</b>	<b>14,80</b>	<b>18,80</b>	<b>18,80</b>	<b>17,90</b>	<b>31,60</b>	<b>18,70</b>	<b>23,30</b>	<b>23,60</b>	<b>23,30</b>	<b>22,50</b>	<b>30,20</b>	<b>30,20</b>
Ø	mm	7,3	7,5	7,6*	7,7*	7,8	8	8,1*	8,5	8,6	8,7	8,8	9	9,1	9,3	9,4*
Overall length	mm	74	74	79	79	79	79	79	84	84	84	84	84	84	84	84
Helix length	mm	34	34	37	37	37	37	37	40	40	40	40	40	40	40	40
<b>8335G</b>	<b>Each</b>	<b>32,90</b>	<b>26,30</b>	<b>53,20</b>	<b>54,10</b>	<b>35,10</b>	<b>30,20</b>	<b>65,80</b>	<b>37,10</b>	<b>56,90</b>	<b>39,80</b>	<b>40,50</b>	<b>39,10</b>	<b>45,90</b>	<b>41,10</b>	<b>85,70</b>
Ø	mm	9,5	9,6	9,8*	9,9	10	10,5	11	11,5	12						
Overall length	mm	84	89	89	89	89	89	95	95	102						
Helix length	mm	40	43	43	43	43	43	47	47	51						
<b>8335G</b>	<b>Each</b>	<b>41,80</b>	<b>48,70</b>	<b>81,30</b>	<b>50,70</b>	<b>45,30</b>	<b>52,10</b>	<b>57,60</b>	<b>65,80</b>	<b>65,80</b>						

\* Sizes running out of stock.



**8335G**



HARTMETALL

**DRILLS FOR METALS, RIGHT AND LEFT-HAND ROTATION**

**8400G**



**HSS**

Orig. Hartner - Art. 81010

DIN 338. Type N. HSS. Cutting angle 118°. SHORT pattern.

Cylindrical shank.

RIGHT-HAND rotation.

Ø	mm	0,2	0,25	0,3	0,35	0,4	0,45	0,5	0,55	0,6	0,65	0,7	0,75	0,8	0,85	0,9	0,95
Overall length	mm	19	19	19	19	20	20	22	24	24	26	28	28	30	30	32	32
Helix length	mm	2,5	3	3	4	5	5	6	7	7	8	9	9	10	10	11	11
<b>8400G</b>	Each	<b>6,40</b>	<b>6,40</b>	<b>4,54</b>	<b>4,54</b>	<b>3,92</b>	<b>4,30</b>	<b>3,04</b>	<b>4,88</b>	<b>3,04</b>	<b>4,54</b>	<b>2,74</b>	<b>3,28</b>	<b>2,62</b>	<b>2,94</b>	<b>2,44</b>	<b>2,94</b>
Ø	mm	1	1,1	1,2	1,25	1,3	1,4	1,5	1,6	1,7	1,75	1,8	1,9	2	2,1	2,2	2,25
Overall length	mm	34	36	38	38	38	40	40	43	43	46	46	49	49	53	53	53
Helix length	mm	12	14	16	16	16	18	18	20	20	22	22	22	24	24	27	27
<b>8400G</b>	Each	<b>2,40</b>	<b>2,36</b>	<b>2,40</b>	<b>2,74</b>	<b>2,32</b>	<b>2,24</b>	<b>1,98</b>	<b>1,94</b>	<b>1,94</b>	<b>2,28</b>	<b>1,82</b>	<b>1,86</b>	<b>1,48</b>	<b>1,76</b>	<b>1,86</b>	<b>2,32</b>
Ø	mm	2,3	2,4	2,5	2,6	2,7	2,75	2,8	2,9	3	3,1	3,2	3,25	3,3	3,4	3,5	3,6
Overall length	mm	53	57	57	57	61	61	61	61	61	65	65	65	65	70	70	70
Helix length	mm	27	30	30	30	33	33	33	33	33	36	36	36	36	39	39	39
<b>8400G</b>	Each	<b>1,90</b>	<b>1,86</b>	<b>1,86</b>	<b>1,94</b>	<b>1,94</b>	<b>2,56</b>	<b>1,94</b>	<b>1,94</b>	<b>1,64</b>	<b>2,06</b>	<b>2,06</b>	<b>2,32</b>	<b>2,06</b>	<b>2,06</b>	<b>1,86</b>	<b>2,28</b>
Ø	mm	3,7	3,75	3,8	3,9	4	4,1	4,2	4,25	4,3	4,4	4,5	4,6	4,7	4,75	4,8	4,9
Overall length	mm	70	70	75	75	75	75	75	80	80	80	80	80	80	86	86	86
Helix length	mm	39	39	43	43	43	43	43	43	47	47	47	47	47	52	52	52
<b>8400G</b>	Each	<b>2,36</b>	<b>3,12</b>	<b>2,40</b>	<b>2,52</b>	<b>1,94</b>	<b>2,74</b>	<b>2,36</b>	<b>3,12</b>	<b>2,74</b>	<b>2,74</b>	<b>2,44</b>	<b>2,82</b>	<b>2,90</b>	<b>4,72</b>	<b>2,82</b>	<b>3,04</b>
Ø	mm	5	5,1	5,2	5,25	5,3	5,4	5,5	5,6	5,7	5,75	5,8	5,9	6	6,1	6,2	6,25
Overall length	mm	86	86	86	86	86	93	93	93	93	93	93	93	93	101	101	101
Helix length	mm	52	52	52	52	52	57	57	57	57	57	57	57	57	63	63	63
<b>8400G</b>	Each	<b>2,40</b>	<b>3,04</b>	<b>3,08</b>	<b>4,80</b>	<b>3,12</b>	<b>3,66</b>	<b>3,36</b>	<b>3,74</b>	<b>3,74</b>	<b>6,40</b>	<b>3,74</b>	<b>3,92</b>	<b>3,36</b>	<b>4,20</b>	<b>4,20</b>	<b>6,82</b>
Ø	mm	6,3	6,4	6,5	6,6	6,7	6,75	6,8	6,9	7	7,1	7,2	7,25	7,3	7,4	7,5	7,6
Overall length	mm	101	101	101	101	101	109	109	109	109	109	109	109	109	109	109	117
Helix length	mm	63	63	63	63	63	69	69	69	69	69	69	69	69	69	69	75
<b>8400G</b>	Each	<b>4,30</b>	<b>4,54</b>	<b>4,12</b>	<b>4,54</b>	<b>4,72</b>	<b>5,56</b>	<b>5,56</b>	<b>5,56</b>	<b>5,04</b>	<b>5,88</b>	<b>6,06</b>	<b>10,00</b>	<b>6,14</b>	<b>6,40</b>	<b>5,56</b>	<b>6,64</b>
Ø	mm	7,7	7,75	7,8	7,9	8	8,1	8,2	8,25	8,3	8,4	8,5	8,6	8,7	8,75	8,8	8,9
Overall length	mm	117	117	117	117	117	117	117	117	117	117	117	125	125	125	125	125
Helix length	mm	75	75	75	75	75	75	75	75	75	75	75	81	81	81	81	81
<b>8400G</b>	Each	<b>6,64</b>	<b>10,70</b>	<b>6,40</b>	<b>6,82</b>	<b>5,56</b>	<b>7,06</b>	<b>7,06</b>	<b>8,74</b>	<b>7,74</b>	<b>7,74</b>	<b>7,06</b>	<b>8,50</b>	<b>8,50</b>	<b>14,40</b>	<b>8,74</b>	<b>9,08</b>
Ø	mm	9	9,1	9,2	9,25	9,3	9,4	9,5	9,6	9,7	9,75	9,8	9,9	10	10,1	10,2	10,25
Overall length	mm	125	125	125	125	125	125	125	133	133	133	133	133	133	133	133	133
Helix length	mm	81	81	81	81	81	81	81	87	87	87	87	87	87	87	87	87
<b>8400G</b>	Each	<b>7,74</b>	<b>9,08</b>	<b>9,24</b>	<b>13,10</b>	<b>9,42</b>	<b>9,42</b>	<b>8,92</b>	<b>10,30</b>	<b>10,60</b>	<b>14,60</b>	<b>10,90</b>	<b>11,10</b>	<b>9,34</b>	<b>11,70</b>	<b>11,80</b>	<b>16,20</b>
Ø	mm	10,3	10,4	10,5	10,6	10,7	10,75	10,8	10,9	11	11,1	11,2	11,25	11,3	11,4	11,5	11,6
Overall length	mm	133	133	133	133	142	142	142	142	142	142	142	142	142	142	142	142
Helix length	mm	87	87	87	87	94	94	94	94	94	94	94	94	94	94	94	94
<b>8400G</b>	Each	<b>14,50</b>	<b>14,60</b>	<b>12,10</b>	<b>15,30</b>	<b>19,40</b>	<b>19,80</b>	<b>17,30</b>	<b>20,20</b>	<b>13,90</b>	<b>18,10</b>	<b>17,70</b>	<b>23,20</b>	<b>20,60</b>	<b>20,60</b>	<b>15,30</b>	<b>20,60</b>
Ø	mm	11,7	11,75	11,8	11,9	12	12,1	12,2	12,25	12,3	12,4	12,5	12,6	12,7	12,75	12,8	12,9
Overall length	mm	142	142	142	151	151	151	151	151	151	151	151	151	151	151	151	151
Helix length	mm	94	94	94	101	101	101	101	101	101	101	101	101	101	101	101	101
<b>8400G</b>	Each	<b>19,40</b>	<b>22,30</b>	<b>19,40</b>	<b>23,60</b>	<b>17,30</b>	<b>23,20</b>	<b>23,20</b>	<b>25,70</b>	<b>21,50</b>	<b>26,90</b>	<b>19,10</b>	<b>27,40</b>	<b>20,60</b>	<b>32,80</b>	<b>26,10</b>	<b>31,10</b>
Ø	mm	13	13,25	13,5	13,75	14	14,25	14,5	14,75	15	15,25	15,5	15,75	16	16,5	17	17,5
Overall length	mm	151	160	160	160	160	169	169	169	169	169	178	178	178	184	184	191
Helix length	mm	101	108	108	108	108	114	114	114	114	120	120	120	120	125	125	130
<b>8400G</b>	Each	<b>20,60</b>	<b>39,50</b>	<b>24,10</b>	<b>45,40</b>	<b>27,40</b>	<b>50,50</b>	<b>29,10</b>	<b>50,50</b>	<b>31,10</b>	<b>59,70</b>	<b>34,10</b>	<b>63,90</b>	<b>37,10</b>	<b>42,10</b>	<b>44,60</b>	<b>48,80</b>
Ø	mm	18	18,5	19	19,5	20											
Overall length	mm	191	198	198	205	205											
Helix length	mm	130	135	135	140	140											
<b>8400G</b>	Each	<b>52,20</b>	<b>56,40</b>	<b>61,40</b>	<b>70,60</b>	<b>70,60</b>											

Up to Ø 7.5mm in 10pcs packing units.

**8402G**



**LEFT HAND USE**

**HSS**

Orig. Hartner - Art. 81015

Product description as Art. 8400G

LEFT-HAND rotation.

Ø	mm	0,5	0,55*	0,6	0,65	0,7*	0,75*	0,8	0,85*	0,9*	0,95*	1	1,1	1,2	1,25	1,3	1,4
Overall length	mm	22	24	24	26	28	28	30	30	32	32	34	36	38	38	38	40
Helix length	mm	6	7	7	8	9	9	10	10	11	11	12	14	16	16	16	18
<b>8402G</b>	Each	<b>6,92</b>	<b>7,06</b>	<b>7,50</b>	<b>10,00</b>	<b>4,92</b>	<b>5,64</b>	<b>5,68</b>	<b>5,12</b>	<b>5,44</b>	<b>6,92</b>	<b>4,72</b>	<b>5,38</b>	<b>4,82</b>	<b>6,44</b>	<b>5,38</b>	<b>5,48</b>
Ø	mm	1,5	1,6	1,7	1,75*	1,8	1,9	2	2,1	2,2*	2,25	2,3	2,4	2,5	2,6	2,7	2,75
Overall length	mm	40	43	43	46	46	46	49	49	53	53	53	57	57	61	61	61
Helix length	mm	18	20	20	22	22	22	24	24	27	27	27	30	30	30	33	33
<b>8402G</b>	Each	<b>3,90</b>	<b>5,30</b>	<b>4,72</b>	<b>3,64</b>	<b>4,72</b>	<b>4,76</b>	<b>3,46</b>	<b>4,38</b>	<b>3,28</b>	<b>5,58</b>	<b>5,10</b>	<b>4,04</b>	<b>3,86</b>	<b>5,10</b>	<b>5,30</b>	<b>6,74</b>

Prices in EURO - VAT not included



Ø	mm	2,8	2,9	3	3,1	3,2	3,25	3,3	3,4	3,5	3,6*	3,7	3,75	3,9	4	4,1	4,2
Overall length	mm	61	61	61	65	65	65	65	70	70	70	70	70	75	75	75	75
Helix length	mm	33	33	33	36	36	36	36	39	39	39	39	39	43	43	43	43
<b>8402G</b>	<b>Each</b>	<b>5,38</b>	<b>5,58</b>	<b>3,80</b>	<b>5,96</b>	<b>4,48</b>	<b>7,12</b>	<b>5,20</b>	<b>6,44</b>	<b>4,42</b>	<b>6,74</b>	<b>6,54</b>	<b>8,94</b>	<b>7,12</b>	<b>4,52</b>	<b>6,54</b>	<b>6,06</b>
Ø	mm	4,25	4,3	4,4	4,5	4,6	4,7	4,75	4,8	4,9	5	5,1	5,2	5,25	5,3	5,4*	5,5
Overall length	mm	75	80	80	80	80	80	86	86	86	86	86	86	86	86	93	93
Helix length	mm	43	47	47	47	47	47	52	52	52	52	52	52	52	52	57	57
<b>8402G</b>	<b>Each</b>	<b>9,62</b>	<b>7,88</b>	<b>8,18</b>	<b>6,26</b>	<b>9,04</b>	<b>8,18</b>	<b>16,20</b>	<b>8,36</b>	<b>8,94</b>	<b>5,38</b>	<b>8,94</b>	<b>9,24</b>	<b>22,60</b>	<b>9,72</b>	<b>7,68</b>	<b>7,80</b>
Ø	mm	5,6	5,7*	5,75	5,8	5,9*	6	6,2	6,25	6,4*	6,5	6,6	6,7	6,75	6,8	6,9	7
Overall length	mm	93	93	93	93	93	93	101	101	101	101	101	101	109	109	109	109
Helix length	mm	57	57	57	57	57	57	63	63	63	63	63	63	69	69	69	69
<b>8402G</b>	<b>Each</b>	<b>10,80</b>	<b>9,42</b>	<b>23,60</b>	<b>11,10</b>	<b>12,70</b>	<b>7,50</b>	<b>12,40</b>	<b>24,60</b>	<b>8,80</b>	<b>8,94</b>	<b>13,80</b>	<b>13,50</b>	<b>13,10</b>	<b>12,50</b>	<b>14,10</b>	<b>9,90</b>
Ø	mm	7,1	7,2*	7,25	7,3	7,4	7,5	7,6	7,7	7,75	7,8	7,9	8	8,1*	8,2*	8,25*	8,3
Overall length	mm	109	109	109	109	109	109	117	117	117	117	117	117	117	117	117	117
Helix length	mm	69	69	69	69	69	69	75	75	75	75	75	75	75	75	75	75
<b>8402G</b>	<b>Each</b>	<b>13,50</b>	<b>9,42</b>	<b>31,30</b>	<b>14,50</b>	<b>14,80</b>	<b>12,50</b>	<b>16,90</b>	<b>17,60</b>	<b>32,30</b>	<b>18,10</b>	<b>18,10</b>	<b>13,10</b>	<b>14,40</b>	<b>17,70</b>	<b>27,70</b>	<b>20,20</b>
Ø	mm	8,4	8,5	8,6*	8,7	8,75*	8,8	8,9	9	9,1	9,2*	9,3*	9,4	9,5	9,6	9,7	9,75
Overall length	mm	117	117	125	125	125	125	125	125	125	125	125	125	125	133	133	133
Helix length	mm	75	75	81	81	81	81	81	81	81	81	81	81	81	87	87	87
<b>8402G</b>	<b>Each</b>	<b>21,20</b>	<b>13,90</b>	<b>17,10</b>	<b>22,20</b>	<b>11,40</b>	<b>24,60</b>	<b>23,60</b>	<b>17,30</b>	<b>28,40</b>	<b>19,80</b>	<b>20,50</b>	<b>29,40</b>	<b>17,50</b>	<b>30,80</b>	<b>30,80</b>	<b>53,90</b>
Ø	mm	9,8	9,9	10	10,1	10,2	10,25*	10,4*	10,5	10,6*	10,75*	10,8*	10,9	11	11,1	11,25	11,6*
Overall length	mm	133	133	133	133	133	133	133	133	142	142	142	142	142	142	142	142
Helix length	mm	87	87	87	87	87	87	87	87	87	94	94	94	94	94	94	94
<b>8402G</b>	<b>Each</b>	<b>29,90</b>	<b>32,70</b>	<b>20,70</b>	<b>34,70</b>	<b>29,90</b>	<b>32,80</b>	<b>26,20</b>	<b>25,50</b>	<b>26,70</b>	<b>34,90</b>	<b>29,20</b>	<b>38,10</b>	<b>30,80</b>	<b>40,40</b>	<b>51,10</b>	<b>36,40</b>
Ø	mm	11,75	11,8*	11,9*	12	12,75*	13,5*	14*	15	15,5*	16*	16,5*	17	17,5*	18*	18,5*	19*
Overall length	mm	142	142	151	151	151	160	160	169	178	178	184	184	191	191	198	198
Helix length	mm	94	94	101	101	101	108	108	114	120	120	125	125	130	130	135	135
<b>8402G</b>	<b>Each</b>	<b>47,20</b>	<b>36,90</b>	<b>36,90</b>	<b>32,70</b>	<b>54,30</b>	<b>38,90</b>	<b>40,50</b>	<b>62,50</b>	<b>55,30</b>	<b>52,30</b>	<b>76,80</b>	<b>114,00</b>	<b>89,10</b>	<b>94,20</b>	<b>102,00</b>	<b>110,00</b>
Ø	mm	20*															
Overall length	mm	205															
Helix length	mm	140															
<b>8402G</b>	<b>Each</b>	<b>133,00</b>															

Up to Ø 7.5mm in 10pcs packing units. \* Sizes running out of stock.

**ASSORTMENTS OF DRILL TIPS**

**Orig. Hartner - Art. 88012 / 0,015**

Assortments in steel plate wallet.  
With HSS cylindrical drills Art. 8400 G.  
Complete assortment.

With tips by mm 1 to 5,9  
Quantity of tips 50  
Progression mm 0.1

**8410G** Each **158,00**

EMPTY CONTAINERS FOR ASSORTMENTS.

In steel plate.  
For Art. 8410 G.

**O8410G** Each **26,10**



**8410G**

**HSS**

**Orig. Hartner - Art. 88012 / 0,013**

Assortments in steel plate wallet.  
With HSS cylindrical drills Art. 8400 G.  
Complete assortment.

With tips by mm 1 to 10  
Quantity of tips 19  
Progression mm 0.5

**8412G** Each **96,70**

EMPTY CONTAINERS FOR ASSORTMENTS.

In steel plate.  
For Art. 8412 G.

**O8412G** Each **14,50**



**8412G**

**HSS**

### 8414G



HSS

**Orig. Hartner - Art. 88012 / 0,016**  
 Assortments in steel plate wallet.  
 With HSS cylindrical drills Art. 8400 G.  
 Complete assortment.  
 With tips by mm 6 to 10  
 Quantity of tips 41  
 Progression mm 0.1  
**8414G Each 333,00**

EMPTY CONTAINERS FOR ASSORTMENTS.  
 In steel plate.  
 For Art. 8414 G.  
**O8414G Each 54,40**

### 8416G



HSS

**Orig. Hartner - Art. 88012 / 0,014**  
 Assortments in steel plate wallet.  
 With HSS cylindrical drills Art. 8400 G.  
 Complete assortment.  
 With tips by mm 1 to 13  
 Quantity of tips 25  
 Progression mm 0.5  
**8416G Each 216,00**

EMPTY CONTAINERS FOR ASSORTMENTS.  
 In steel plate.  
 For Art. 8416 G.  
**O8416G Each 19,10**

## DRILLS FOR METALS, RIGHT-HAND ROTATION

### 8423G



HSS

**Orig. Hartner - Art. 81040**  
 DIN 338. Type FN. HSS. Cutting angle 130°. SHORT pattern.  
 Thinned cutting edge according to DIN 1412 A. Special drills for deep holes.  
 Suitable for automatic machines.  
 For steel up to R 1000 N/sqmm.  
 Cylindrical shank.

Ø	mm	2	2,1	2,2	2,4*	2,5	2,6	2,7	2,8	2,9	3	3,1	3,15	3,2	3,3	3,4	3,5
Overall length	mm	49	49	53	57	57	57	61	61	61	61	65	65	65	65	70	70
Helix length	mm	24	24	27	30	30	30	33	33	33	33	36	36	36	36	39	39
<b>8423G</b>	<b>Each</b>	<b>5,08</b>	<b>5,76</b>	<b>5,76</b>	<b>5,50</b>	<b>5,08</b>	<b>5,98</b>	<b>6,32</b>	<b>6,44</b>	<b>6,32</b>	<b>5,30</b>	<b>6,54</b>	<b>8,24</b>	<b>6,32</b>	<b>6,54</b>	<b>7,00</b>	<b>5,76</b>
Ø	mm	3,6	3,8	3,9	4	4,1	4,2	4,3	4,4	4,5	4,6	4,7	4,8	4,9*	5	5,2	5,3
Overall length	mm	70	75	75	75	75	75	80	80	80	80	80	86	86	86	86	86
Helix length	mm	39	43	43	43	43	43	47	47	47	47	47	52	52	52	52	52
<b>8423G</b>	<b>Each</b>	<b>7,44</b>	<b>7,56</b>	<b>8,24</b>	<b>6,32</b>	<b>7,90</b>	<b>7,22</b>	<b>8,24</b>	<b>8,46</b>	<b>7,44</b>	<b>9,82</b>	<b>8,92</b>	<b>8,92</b>	<b>7,46</b>	<b>7,90</b>	<b>9,70</b>	<b>10,80</b>
Ø	mm	5,4*	5,5	5,6*	5,7	5,8	5,9	6	6,1	6,2	6,3	6,4	6,5	6,6*	6,7	6,8	7
Overall length	mm	93	93	93	93	93	93	93	101	101	101	101	101	101	101	109	109
Helix length	mm	57	57	57	57	57	57	57	63	63	63	63	63	63	63	69	69
<b>8423G</b>	<b>Each</b>	<b>9,24</b>	<b>9,36</b>	<b>9,58</b>	<b>10,60</b>	<b>10,90</b>	<b>12,30</b>	<b>10,40</b>	<b>12,60</b>	<b>12,20</b>	<b>12,60</b>	<b>13,30</b>	<b>11,30</b>	<b>11,20</b>	<b>13,80</b>	<b>13,50</b>	<b>11,80</b>
Ø	mm	7,2*	7,3	7,4	7,5	7,6*	7,7*	7,8*	7,9*	8*	8,1	8,2*	8,3*	8,4	8,5	8,6	8,7*
Overall length	mm	109	109	109	109	117	117	117	117	117	117	117	117	117	117	125	125
Helix length	mm	69	69	69	69	75	75	75	75	75	75	75	75	75	75	81	81
<b>8423G</b>	<b>Each</b>	<b>15,80</b>	<b>21,50</b>	<b>19,40</b>	<b>14,80</b>	<b>17,20</b>	<b>17,20</b>	<b>19,20</b>	<b>21,10</b>	<b>15,40</b>	<b>23,70</b>	<b>21,70</b>	<b>23,50</b>	<b>28,80</b>	<b>17,20</b>	<b>28,80</b>	<b>23,70</b>
Ø	mm	8,8	8,9	9	9,1*	9,2	9,3	9,4	9,5	9,6	9,7	9,8	9,9	10	10,5	10,8	11
Overall length	mm	125	125	125	125	125	125	125	133	133	133	133	133	133	142	142	142
Helix length	mm	81	81	81	81	81	81	81	87	87	87	87	87	87	94	94	94
<b>8423G</b>	<b>Each</b>	<b>30,50</b>	<b>32,70</b>	<b>18,20</b>	<b>31,40</b>	<b>32,70</b>	<b>32,70</b>	<b>36,10</b>	<b>23,20</b>	<b>34,40</b>	<b>40,60</b>	<b>36,70</b>	<b>37,80</b>	<b>20,20</b>	<b>32,20</b>	<b>50,80</b>	<b>35,10</b>
Ø	mm	11,2	11,5	12	12,2	12,5*	13										
Overall length	mm	142	142	151	151	151	151										
Helix length	mm	94	94	101	101	101	101										
<b>8423G</b>	<b>Each</b>	<b>67,70</b>	<b>38,40</b>	<b>44,10</b>	<b>85,70</b>	<b>41,40</b>	<b>57,50</b>										

Up to Ø 7.5mm in 10pcs packing units. - \* Sizes running out of stock.

**DRILLS FOR BRASS, BRONZE AND NON-FERROUS ALLOYS, RIGHT-HAND ROTATION**

Orig. Hartner - Art. 81020-118°

DIN 338. Type H. HSS. Cutting angle 118°. SHORT pattern.

For brass, bronze, short-chip non-ferrous alloys.

Cylindrical shank.



**8429G**

Ø	mm	<b>0,5</b>	<b>0,6</b>	<b>0,7</b>	<b>0,75</b>	<b>0,8</b>	<b>0,9</b>	<b>1</b>	<b>1,1</b>	<b>1,2</b>	<b>1,25</b>	<b>1,3</b>	<b>1,4</b>	<b>1,5</b>	<b>1,6</b>	<b>1,7</b>	<b>1,75*</b>
Overall length	mm	22	24	28	28	30	32	34	36	38	38	38	40	40	43	43	46
Helix length	mm	6	7	9	9	10	11	12	14	16	16	16	18	18	20	20	22
<b>8429G</b>	<b>Each</b>	<b>7,70</b>	<b>7,60</b>	<b>7,02</b>	<b>8,36</b>	<b>6,84</b>	<b>6,84</b>	<b>5,10</b>	<b>5,86</b>	<b>5,78</b>	<b>6,74</b>	<b>5,78</b>	<b>5,78</b>	<b>4,90</b>	<b>5,30</b>	<b>5,48</b>	<b>4,86</b>
Ø	mm	<b>1,8</b>	<b>1,9</b>	<b>2</b>	<b>2,1</b>	<b>2,2</b>	<b>2,25</b>	<b>2,3</b>	<b>2,4</b>	<b>2,5</b>	<b>2,6</b>	<b>2,7</b>	<b>2,75*</b>	<b>2,8</b>	<b>2,9</b>	<b>3</b>	<b>3,1</b>
Overall length	mm	46	46	49	49	53	53	53	57	57	57	61	61	61	61	65	65
Helix length	mm	22	22	24	24	27	27	27	30	30	30	33	33	33	33	33	36
<b>8429G</b>	<b>Each</b>	<b>5,38</b>	<b>5,00</b>	<b>4,10</b>	<b>4,76</b>	<b>4,90</b>	<b>6,92</b>	<b>4,90</b>	<b>5,00</b>	<b>4,24</b>	<b>5,10</b>	<b>5,20</b>	<b>5,44</b>	<b>5,20</b>	<b>5,30</b>	<b>4,52</b>	<b>6,16</b>
Ø	mm	<b>3,2</b>	<b>3,3</b>	<b>3,4</b>	<b>3,5</b>	<b>3,6</b>	<b>3,7</b>	<b>3,75*</b>	<b>3,8</b>	<b>3,9</b>	<b>4</b>	<b>4,1</b>	<b>4,2</b>	<b>4,25*</b>	<b>4,3</b>	<b>4,4</b>	<b>4,5</b>
Overall length	mm	65	65	70	70	70	70	75	75	75	75	75	75	80	80	80	80
Helix length	mm	36	36	39	39	39	39	43	43	43	43	43	43	43	47	47	47
<b>8429G</b>	<b>Each</b>	<b>5,86</b>	<b>5,78</b>	<b>6,16</b>	<b>5,10</b>	<b>6,84</b>	<b>6,36</b>	<b>6,96</b>	<b>6,74</b>	<b>7,88</b>	<b>5,20</b>	<b>7,60</b>	<b>6,84</b>	<b>9,62</b>	<b>8,36</b>	<b>9,24</b>	<b>6,92</b>
Ø	mm	<b>4,6</b>	<b>4,7</b>	<b>4,8</b>	<b>4,9</b>	<b>5</b>	<b>5,1</b>	<b>5,2</b>	<b>5,25</b>	<b>5,3</b>	<b>5,4</b>	<b>5,5</b>	<b>5,6*</b>	<b>5,7</b>	<b>5,75</b>	<b>5,8</b>	<b>5,9</b>
Overall length	mm	80	80	86	86	86	86	86	86	86	93	93	93	93	93	93	93
Helix length	mm	47	47	52	52	52	52	52	52	52	57	57	57	57	57	57	57
<b>8429G</b>	<b>Each</b>	<b>8,46</b>	<b>9,34</b>	<b>8,66</b>	<b>8,36</b>	<b>7,02</b>	<b>8,86</b>	<b>8,94</b>	<b>16,10</b>	<b>8,94</b>	<b>12,10</b>	<b>8,94</b>	<b>10,80</b>	<b>12,50</b>	<b>21,70</b>	<b>10,80</b>	<b>12,10</b>
Ø	mm	<b>6</b>	<b>6,1</b>	<b>6,2</b>	<b>6,25*</b>	<b>6,3</b>	<b>6,4</b>	<b>6,5</b>	<b>6,6</b>	<b>6,7</b>	<b>6,8</b>	<b>6,9</b>	<b>7</b>	<b>7,1</b>	<b>7,2</b>	<b>7,25</b>	<b>7,3</b>
Overall length	mm	93	101	101	101	101	101	101	101	101	109	109	109	109	109	109	109
Helix length	mm	57	63	63	63	63	63	63	63	63	69	69	69	69	69	69	69
<b>8429G</b>	<b>Each</b>	<b>9,14</b>	<b>11,40</b>	<b>11,40</b>	<b>18,10</b>	<b>12,80</b>	<b>13,50</b>	<b>11,60</b>	<b>11,80</b>	<b>13,80</b>	<b>12,80</b>	<b>15,20</b>	<b>12,60</b>	<b>17,50</b>	<b>19,30</b>	<b>33,70</b>	<b>20,20</b>
Ø	mm	<b>7,4*</b>	<b>7,5</b>	<b>7,6</b>	<b>7,7*</b>	<b>7,75*</b>	<b>7,8</b>	<b>8</b>	<b>8,1</b>	<b>8,2</b>	<b>8,25*</b>	<b>8,4</b>	<b>8,5</b>	<b>8,6*</b>	<b>8,7*</b>	<b>8,8</b>	<b>8,9</b>
Overall length	mm	109	109	117	117	117	117	117	117	117	117	117	117	125	125	125	125
Helix length	mm	69	69	75	75	75	75	75	75	75	75	75	75	81	81	81	81
<b>8429G</b>	<b>Each</b>	<b>14,20</b>	<b>15,40</b>	<b>17,70</b>	<b>20,70</b>	<b>29,20</b>	<b>20,70</b>	<b>15,20</b>	<b>20,20</b>	<b>20,20</b>	<b>26,20</b>	<b>24,60</b>	<b>19,80</b>	<b>24,60</b>	<b>19,80</b>	<b>28,40</b>	<b>25,50</b>
Ø	mm	<b>9</b>	<b>9,1</b>	<b>9,2</b>	<b>9,25</b>	<b>9,3</b>	<b>9,4*</b>	<b>9,5</b>	<b>9,6</b>	<b>9,7</b>	<b>9,75</b>	<b>9,8</b>	<b>9,9</b>	<b>10</b>	<b>10,5</b>	<b>11</b>	<b>11,5</b>
Overall length	mm	125	125	125	125	125	125	125	133	133	133	133	133	133	133	142	142
Helix length	mm	81	81	81	81	81	81	81	87	87	87	87	87	87	87	94	94
<b>8429G</b>	<b>Each</b>	<b>20,70</b>	<b>31,80</b>	<b>31,80</b>	<b>47,20</b>	<b>31,80</b>	<b>22,10</b>	<b>24,60</b>	<b>34,70</b>	<b>34,70</b>	<b>48,10</b>	<b>34,70</b>	<b>37,50</b>	<b>23,60</b>	<b>30,30</b>	<b>34,20</b>	<b>41,90</b>
Ø	mm	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>											
Overall length	mm	151	151	160	169	178											
Helix length	mm	101	101	108	114	120											
<b>8429G</b>	<b>Each</b>	<b>45,20</b>	<b>51,10</b>	<b>62,50</b>	<b>74,10</b>	<b>91,40</b>											

Up to Ø 7.5mm in 10pcs packing units. - \* Sizes running out of stock.

**DRILLS FOR ALUMINIUM AND COPPER, RIGHT-HAND ROTATION**

Orig. Hartner - Art. 81030

DIN 338. Type W. HSS. Cutting angle 130°. SHORT pattern.

For aluminium, copper and relevant alloys.

Cylindrical shank.



**8431G**

Ø	mm	<b>0,5</b>	<b>1</b>	<b>1,25</b>	<b>1,5</b>	<b>1,75</b>	<b>2</b>	<b>2,25</b>	<b>2,5</b>	<b>2,75</b>	<b>3</b>	<b>3,1</b>	<b>3,2</b>	<b>3,3</b>	<b>3,4</b>	<b>3,5</b>	<b>3,6</b>
Overall length	mm	22	34	38	40	46	49	53	57	61	61	65	65	65	70	70	70
Helix length	mm	6	12	16	18	22	24	27	30	33	33	36	36	36	39	39	39
<b>8431G</b>	<b>Each</b>	<b>6,92</b>	<b>5,58</b>	<b>6,74</b>	<b>5,20</b>	<b>7,12</b>	<b>3,86</b>	<b>6,36</b>	<b>3,86</b>	<b>7,40</b>	<b>4,28</b>	<b>5,68</b>	<b>5,10</b>	<b>4,90</b>	<b>5,68</b>	<b>5,30</b>	<b>5,96</b>
Ø	mm	<b>3,7</b>	<b>3,75</b>	<b>3,8</b>	<b>3,9</b>	<b>4</b>	<b>4,1</b>	<b>4,2</b>	<b>4,3</b>	<b>4,4*</b>	<b>4,5</b>	<b>4,6</b>	<b>4,7</b>	<b>4,75*</b>	<b>4,8</b>	<b>4,9*</b>	<b>5</b>
Overall length	mm	70	70	75	75	75	75	80	80	80	80	80	80	80	86	86	86
Helix length	mm	39	39	43	43	43	43	47	47	47	47	47	47	47	52	52	52
<b>8431G</b>	<b>Each</b>	<b>5,86</b>	<b>8,56</b>	<b>6,36</b>	<b>7,02</b>	<b>5,38</b>	<b>6,36</b>	<b>5,38</b>	<b>7,70</b>	<b>6,96</b>	<b>6,84</b>	<b>7,70</b>	<b>8,46</b>	<b>12,70</b>	<b>7,70</b>	<b>6,96</b>	<b>7,02</b>
Ø	mm	<b>5,1</b>	<b>5,2</b>	<b>5,25*</b>	<b>5,3</b>	<b>5,4</b>	<b>5,5</b>	<b>5,6</b>	<b>5,7</b>	<b>5,75*</b>	<b>5,8</b>	<b>5,9*</b>	<b>6</b>	<b>6,25*</b>	<b>6,5</b>	<b>6,75*</b>	<b>7</b>
Overall length	mm	86	86	86	86	93	93	93	93	93	93	93	93	101	101	109	109
Helix length	mm	52	52	52	52	57	57	57	57	57	57	57	57	63	63	69	69
<b>8431G</b>	<b>Each</b>	<b>7,80</b>	<b>8,66</b>	<b>16,20</b>	<b>9,04</b>	<b>10,60</b>	<b>8,36</b>	<b>10,50</b>	<b>10,00</b>	<b>17,20</b>	<b>10,00</b>	<b>11,10</b>	<b>9,34</b>	<b>14,10</b>	<b>10,20</b>	<b>13,10</b>	<b>11,10</b>
Ø	mm	<b>7,25*</b>	<b>7,5</b>	<b>8</b>	<b>8,5</b>	<b>9</b>	<b>9,5</b>	<b>10</b>	<b>10,5</b>	<b>11</b>	<b>11,5</b>	<b>12</b>	<b>12,5</b>	<b>13</b>			
Overall length	mm	109	109	117	117	125	125	133	133	142	142	151	151	151			
Helix length	mm	69	69	75	75	81	81	87	87	94	94	101	101	101			
<b>8431G</b>	<b>Each</b>	<b>31,80</b>	<b>13,50</b>	<b>14,20</b>	<b>16,40</b>	<b>17,80</b>	<b>24,60</b>	<b>21,70</b>	<b>28,40</b>	<b>33,70</b>	<b>41,90</b>	<b>38,50</b>	<b>40,90</b>	<b>48,10</b>			

Up to Ø 7.5mm in 10pcs packing units. - \* Sizes running out of stock.

**DRILLS FOR SYNTHETIC MATERIALS, RIGHT-HAND ROTATION**

**8435G**



**HSS**

**Orig. Hartner - Art. 81020-80°**

DIN 338. Type H. HSS. Cutting angle 80°. SHORT pattern.

For plastic, plexiglas and stamped circuits.

Cylindrical shank.

Ø	mm	<b>1</b>	<b>1,5</b>	<b>6,5</b>	<b>7</b>	<b>9</b>
Overall length	mm	34	40	101	109	125
Helix length	mm	12	18	63	69	81
<b>8435G</b>	<b>Each</b>	<b>5,10</b>	<b>4,90</b>	<b>11,60</b>	<b>12,60</b>	<b>20,70</b>

Up to Ø 7.5mm in 10pcs packing units. - Product running out of stock.

**DRILLS FOR METALS, RIGHT-HAND ROTATION**

**8445G**



**HSS-E**

**Orig. Hartner - Art. 81061**

DIN 338. Type S. COBALT HSS-E. Cutting angle 130°. SHORT pattern.

SHORT pattern.

For steel with R higher than 1000 N/sqmm, stainless steel, cast iron, spring steel, titanium and titanium alloys.

Cylindrical shank.

Ø	mm	<b>0,2</b>	<b>0,3</b>	<b>0,4</b>	<b>0,5</b>	<b>0,55</b>	<b>0,6</b>	<b>0,65</b>	<b>0,7</b>	<b>0,75</b>	<b>0,8</b>	<b>0,85</b>	<b>0,9</b>	<b>0,95</b>	<b>1</b>	<b>1,05</b>	<b>1,1</b>
Overall length	mm	19	19	20	22	24	24	26	28	28	30	30	32	32	34	34	36
Helix length	mm	2,5	3	5	6	7	7	8	9	9	10	10	11	11	12	12	14
<b>8445G</b>	<b>Each</b>	<b>15,50</b>	<b>10,80</b>	<b>8,18</b>	<b>6,64</b>	<b>11,10</b>	<b>6,64</b>	<b>9,72</b>	<b>5,96</b>	<b>7,60</b>	<b>5,78</b>	<b>6,84</b>	<b>5,58</b>	<b>6,44</b>	<b>5,20</b>	<b>6,64</b>	<b>5,38</b>
Ø	mm	<b>1,15</b>	<b>1,2</b>	<b>1,25</b>	<b>1,3</b>	<b>1,35</b>	<b>1,45</b>	<b>1,5</b>	<b>1,55</b>	<b>1,6</b>	<b>1,65</b>	<b>1,7</b>	<b>1,75</b>	<b>1,8</b>	<b>1,85</b>	<b>1,9</b>	<b>1,95</b>
Overall length	mm	36	38	38	38	40	40	40	43	43	43	43	46	46	46	46	49
Helix length	mm	14	16	16	16	18	18	18	20	20	20	20	22	22	22	22	24
<b>8445G</b>	<b>Each</b>	<b>7,02</b>	<b>5,86</b>	<b>6,84</b>	<b>5,58</b>	<b>7,12</b>	<b>6,16</b>	<b>4,90</b>	<b>6,44</b>	<b>5,20</b>	<b>5,96</b>	<b>5,38</b>	<b>7,40</b>	<b>5,20</b>	<b>6,92</b>	<b>5,38</b>	<b>7,60</b>
Ø	mm	<b>2</b>	<b>2,05</b>	<b>2,1</b>	<b>2,2</b>	<b>2,25</b>	<b>2,3</b>	<b>2,35</b>	<b>2,4</b>	<b>2,45</b>	<b>2,5</b>	<b>2,55</b>	<b>2,6</b>	<b>2,7</b>	<b>2,75</b>	<b>2,8</b>	<b>2,85</b>
Overall length	mm	49	49	49	53	53	53	53	57	57	57	57	57	61	61	61	61
Helix length	mm	24	24	24	27	27	27	27	30	30	30	30	30	33	33	33	33
<b>8445G</b>	<b>Each</b>	<b>4,38</b>	<b>6,64</b>	<b>5,78</b>	<b>5,78</b>	<b>7,60</b>	<b>5,78</b>	<b>10,20</b>	<b>5,78</b>	<b>10,90</b>	<b>4,66</b>	<b>9,90</b>	<b>5,86</b>	<b>5,86</b>	<b>9,62</b>	<b>5,96</b>	<b>10,20</b>
Ø	mm	<b>2,9</b>	<b>2,95</b>	<b>3</b>	<b>3,1</b>	<b>3,2</b>	<b>3,3</b>	<b>3,4</b>	<b>3,5</b>	<b>3,6</b>	<b>3,7</b>	<b>3,8</b>	<b>3,9</b>	<b>4</b>	<b>4,1</b>	<b>4,2</b>	<b>4,3</b>
Overall length	mm	61	61	61	65	65	65	70	70	70	75	75	75	75	75	80	80
Helix length	mm	33	33	33	36	36	36	39	39	39	43	43	43	43	43	47	47
<b>8445G</b>	<b>Each</b>	<b>5,96</b>	<b>8,76</b>	<b>4,66</b>	<b>6,16</b>	<b>5,20</b>	<b>5,38</b>	<b>6,44</b>	<b>5,20</b>	<b>6,92</b>	<b>6,74</b>	<b>6,84</b>	<b>7,12</b>	<b>5,58</b>	<b>7,12</b>	<b>7,12</b>	<b>7,12</b>
Ø	mm	<b>4,4</b>	<b>4,5</b>	<b>4,6</b>	<b>4,7</b>	<b>4,8</b>	<b>4,9</b>	<b>5</b>	<b>5,1</b>	<b>5,2</b>	<b>5,3</b>	<b>5,4</b>	<b>5,5</b>	<b>5,6</b>	<b>5,7</b>	<b>5,8</b>	<b>5,9</b>
Overall length	mm	80	80	80	80	86	86	86	86	86	86	93	93	93	93	93	93
Helix length	mm	47	47	47	47	52	52	52	52	52	52	57	57	57	57	57	57
<b>8445G</b>	<b>Each</b>	<b>7,70</b>	<b>7,12</b>	<b>7,70</b>	<b>8,08</b>	<b>7,88</b>	<b>7,98</b>	<b>6,92</b>	<b>7,98</b>	<b>8,18</b>	<b>8,18</b>	<b>9,04</b>	<b>9,62</b>	<b>9,72</b>	<b>9,62</b>	<b>9,14</b>	<b>9,72</b>
Ø	mm	<b>6</b>	<b>6,1</b>	<b>6,2</b>	<b>6,3</b>	<b>6,4</b>	<b>6,5</b>	<b>6,6</b>	<b>6,7</b>	<b>6,8</b>	<b>6,9</b>	<b>7</b>	<b>7,1</b>	<b>7,2</b>	<b>7,3</b>	<b>7,4</b>	<b>7,5</b>
Overall length	mm	93	101	101	101	101	101	101	101	109	109	109	109	109	109	109	109
Helix length	mm	57	63	63	63	63	63	63	63	69	69	69	69	69	69	69	69
<b>8445G</b>	<b>Each</b>	<b>8,94</b>	<b>10,30</b>	<b>10,30</b>	<b>10,80</b>	<b>11,40</b>	<b>10,20</b>	<b>11,90</b>	<b>11,90</b>	<b>12,40</b>	<b>13,20</b>	<b>10,70</b>	<b>15,30</b>	<b>14,70</b>	<b>16,20</b>	<b>15,40</b>	<b>11,50</b>
Ø	mm	<b>7,6</b>	<b>7,7*</b>	<b>7,8</b>	<b>7,9</b>	<b>8</b>	<b>8,1</b>	<b>8,2</b>	<b>8,3</b>	<b>8,4</b>	<b>8,5</b>	<b>8,6</b>	<b>8,7</b>	<b>8,8</b>	<b>8,9*</b>	<b>9</b>	<b>9,1*</b>
Overall length	mm	117	117	117	117	117	117	117	117	117	117	125	125	125	125	125	125
Helix length	mm	75	75	75	75	75	75	75	75	75	75	81	81	81	81	81	81
<b>8445G</b>	<b>Each</b>	<b>21,20</b>	<b>17,10</b>	<b>18,10</b>	<b>19,20</b>	<b>14,20</b>	<b>18,10</b>	<b>19,10</b>	<b>20,20</b>	<b>20,70</b>	<b>14,20</b>	<b>21,20</b>	<b>21,20</b>	<b>22,20</b>	<b>25,00</b>	<b>18,50</b>	<b>23,10</b>
Ø	mm	<b>9,2</b>	<b>9,3</b>	<b>9,4</b>	<b>9,5</b>	<b>9,6</b>	<b>9,7</b>	<b>9,8</b>	<b>9,9</b>	<b>10</b>	<b>10,5</b>	<b>11</b>	<b>11,5</b>	<b>12</b>	<b>12,5</b>	<b>13</b>	<b>13,5</b>
Overall length	mm	125	125	125	125	133	133	133	133	133	133	142	142	151	151	151	160
Helix length	mm	81	81	81	81	87	87	87	87	87	87	94	94	101	101	101	108
<b>8445G</b>	<b>Each</b>	<b>26,50</b>	<b>28,40</b>	<b>31,30</b>	<b>21,70</b>	<b>32,30</b>	<b>31,80</b>	<b>31,80</b>	<b>31,80</b>	<b>20,70</b>	<b>30,30</b>	<b>33,20</b>	<b>42,80</b>	<b>48,10</b>	<b>55,80</b>	<b>60,60</b>	<b>70,20</b>
Ø	mm	<b>14</b>	<b>14,5</b>	<b>15</b>	<b>16</b>												
Overall length	mm	160	169	169	178												
Helix length	mm	108	114	114	120												
<b>8445G</b>	<b>Each</b>	<b>79,80</b>	<b>98,10</b>	<b>102,00</b>	<b>126,00</b>												

Up to Ø 7.5mm in 10pcs packing units. - \* Sizes running out of stock.

**DRILLS FOR STAINLESS STEEL AND ALLOYS, RIGHT-HAND ROTATION**

**8450G**



**INOX**



**HSS-E**

**Orig. Hartner - Art. 81013**

DIN 338. Type IS Inox-Drill. COBALT HSS-E.

Cutting angle 130°. SHORT pattern.

Particular drill geometry with special spiral flute and web shape for easier chip ejection. For stainless steel V2A and V4A, titanium, aluminium and some copper alloys.

Cylindrical shank.

Ø	mm	<b>1</b>	<b>1,1</b>	<b>1,2</b>	<b>1,3</b>	<b>1,4</b>	<b>1,5</b>	<b>1,6</b>	<b>1,7</b>	<b>1,8</b>	<b>1,9</b>	<b>2</b>	<b>2,1</b>	<b>2,2</b>	<b>2,3</b>	<b>2,4</b>	<b>2,5</b>
Overall length	mm	34	36	38	38	40	40	43	43	46	46	49	49	53	53	57	57
Helix length	mm	12	14	16	16	18	18	20	20	22	22	24	24	27	27	30	30
<b>8450G</b>	<b>Each</b>	<b>8,08</b>	<b>8,66</b>	<b>8,56</b>	<b>8,66</b>	<b>8,28</b>	<b>6,84</b>	<b>8,66</b>	<b>8,76</b>	<b>7,50</b>	<b>8,76</b>	<b>5,86</b>	<b>8,86</b>	<b>9,24</b>	<b>9,62</b>	<b>9,42</b>	<b>6,54</b>
Ø	mm	<b>2,6</b>	<b>2,7</b>	<b>2,8</b>	<b>2,9</b>	<b>3</b>	<b>3,1</b>	<b>3,2</b>	<b>3,3</b>	<b>3,4</b>	<b>3,5</b>	<b>3,6</b>	<b>3,7</b>	<b>3,8</b>	<b>3,9</b>	<b>4</b>	<b>4,1</b>
Overall length	mm	57	61	61	61	61	65	65	65	70	70	70	70	75	75	75	75
Helix length	mm	30	33	33	33	33	36	36	36	39	39	39	39	43	43	43	43
<b>8450G</b>	<b>Each</b>	<b>9,62</b>	<b>9,62</b>	<b>9,34</b>	<b>8,46</b>	<b>6,26</b>	<b>10,10</b>	<b>7,50</b>	<b>7,50</b>	<b>9,24</b>	<b>6,92</b>	<b>11,10</b>	<b>11,10</b>	<b>11,30</b>	<b>11,60</b>	<b>7,80</b>	<b>11,10</b>

Prices in EURO - VAT not included

Ø	mm	4,2	4,3	4,4	4,5	4,6	4,7	4,8	4,9	5	5,1	5,2	5,3	5,4	5,5	5,6	5,7
Overall length	mm	75	80	80	80	80	80	86	86	86	86	86	86	93	93	93	93
Helix length	mm	43	47	47	47	47	47	52	52	52	52	52	52	57	57	57	57
<b>8450G</b>	<b>Each</b>	<b>9,72</b>	<b>10,20</b>	<b>12,10</b>	<b>10,00</b>	<b>12,50</b>	<b>12,70</b>	<b>11,10</b>	<b>13,50</b>	<b>9,14</b>	<b>11,80</b>	<b>11,80</b>	<b>13,80</b>	<b>14,80</b>	<b>13,90</b>	<b>15,20</b>	<b>15,20</b>
Ø	mm	5,8	5,9	6	6,1	6,2	6,3	6,4	6,5	6,6	6,7	6,8	6,9	7	7,1	7,2	7,3
Overall length	mm	93	93	93	101	101	101	101	101	101	101	109	109	109	109	109	109
Helix length	mm	57	57	57	63	63	63	63	63	63	63	69	69	69	69	69	69
<b>8450G</b>	<b>Each</b>	<b>15,20</b>	<b>15,20</b>	<b>12,20</b>	<b>16,90</b>	<b>15,30</b>	<b>16,90</b>	<b>18,60</b>	<b>14,20</b>	<b>18,60</b>	<b>18,60</b>	<b>17,50</b>	<b>18,30</b>	<b>14,60</b>	<b>23,60</b>	<b>23,60</b>	<b>21,70</b>
Ø	mm	7,4	7,5	7,6*	7,7	7,8	7,9	8	8,1*	8,2	8,3	8,4	8,5	8,6	8,7	8,8	8,9*
Overall length	mm	109	109	117	117	117	117	117	117	117	117	117	117	125	125	125	125
Helix length	mm	69	69	75	75	75	75	75	75	75	75	75	75	81	81	81	81
<b>8450G</b>	<b>Each</b>	<b>23,60</b>	<b>18,10</b>	<b>20,30</b>	<b>29,40</b>	<b>29,40</b>	<b>29,40</b>	<b>19,80</b>	<b>27,90</b>	<b>27,90</b>	<b>29,40</b>	<b>32,30</b>	<b>18,80</b>	<b>32,30</b>	<b>33,70</b>	<b>37,10</b>	<b>37,50</b>
Ø	mm	9	9,1*	9,2*	9,3*	9,4*	9,5	9,6*	9,7	9,8	9,9*	10	10,1	10,2	10,3	10,4	10,5
Overall length	mm	125	125	125	125	125	125	133	133	133	133	133	133	133	133	133	133
Helix length	mm	81	81	81	81	81	81	87	87	87	87	87	87	87	87	87	87
<b>8450G</b>	<b>Each</b>	<b>24,60</b>	<b>35,90</b>	<b>43,30</b>	<b>38,40</b>	<b>47,20</b>	<b>30,30</b>	<b>35,40</b>	<b>45,70</b>	<b>48,10</b>	<b>45,70</b>	<b>28,40</b>	<b>53,90</b>	<b>40,90</b>	<b>67,30</b>	<b>61,60</b>	<b>40,90</b>
Ø	mm	10,7*	10,8*	10,9*	11	11,1*	11,2	11,4*	11,5	11,6*	11,7*	11,9*	12				
Overall length	mm	142	142	142	142	142	142	142	142	142	142	151	151				
Helix length	mm	94	94	94	94	94	94	94	94	94	94	101	101				
<b>8450G</b>	<b>Each</b>	<b>84,10</b>	<b>78,90</b>	<b>70,70</b>	<b>46,70</b>	<b>72,70</b>	<b>94,30</b>	<b>73,80</b>	<b>60,60</b>	<b>84,10</b>	<b>84,10</b>	<b>84,10</b>	<b>63,50</b>				

Up to Ø 7.5mm in 10pcs packing units. - \* Sizes running out of stock.

**DRILLS FOR METALS, RIGHT-HAND ROTATION**

**Orig. Hartner - Art. 84405**

DIN 338. Type N. HSS-TIN. Cutting angle 118°. SHORT pattern.

Sharpening according to DIN 1412. TIN-treated surface.

For steel, alloy and unalloyed cast iron with hardness up to about 900 N/sqmm, hardened cast iron, sintered steel, graphite, short-chip aluminium alloys, bronze and electrolytic copper.

Cylindrical shank.



**8460G**



**HSS TIN**

Ø	mm	1	1,1	1,2	1,3	1,4	1,5	1,6	1,7	1,8	1,9	2	2,1	2,2	2,3	2,4
Overall length	mm	34	36	38	38	40	40	43	43	46	46	49	49	53	53	57
Helix length	mm	12	14	16	16	18	18	20	20	22	22	24	24	27	27	30
<b>8460G</b>	<b>Each</b>	<b>6,90</b>	<b>6,72</b>	<b>7,00</b>	<b>6,62</b>	<b>6,32</b>	<b>5,84</b>	<b>5,56</b>	<b>5,56</b>	<b>4,90</b>	<b>5,36</b>	<b>4,26</b>	<b>4,98</b>	<b>5,18</b>	<b>5,56</b>	<b>5,18</b>
Ø	mm	2,5	2,6	2,7	2,8	2,9	3	3,1	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9
Overall length	mm	57	57	61	61	61	61	65	65	65	70	70	70	70	75	75
Helix length	mm	30	30	33	33	33	33	36	36	36	39	39	39	39	43	43
<b>8460G</b>	<b>Each</b>	<b>5,36</b>	<b>5,56</b>	<b>5,76</b>	<b>5,56</b>	<b>5,84</b>	<b>4,70</b>	<b>5,84</b>	<b>5,94</b>	<b>5,94</b>	<b>5,84</b>	<b>5,18</b>	<b>6,32</b>	<b>6,80</b>	<b>7,00</b>	<b>7,10</b>
Ø	mm	4	4,1	4,2	4,3	4,4	4,5	4,6	4,7	4,8	4,9	5	5,1	5,2	5,3	5,4
Overall length	mm	75	75	75	80	80	80	80	80	86	86	86	86	86	86	93
Helix length	mm	43	43	43	47	47	47	47	47	52	52	52	52	52	52	57
<b>8460G</b>	<b>Each</b>	<b>5,56</b>	<b>7,66</b>	<b>6,72</b>	<b>7,66</b>	<b>8,06</b>	<b>7,00</b>	<b>7,86</b>	<b>8,24</b>	<b>8,06</b>	<b>8,54</b>	<b>6,90</b>	<b>8,62</b>	<b>8,62</b>	<b>8,92</b>	<b>10,40</b>
Ø	mm	5,5	5,6	5,7	5,8	5,9	6	6,5	7	7,5	8	8,5	9	9,5	10	
Overall length	mm	93	93	93	93	93	93	101	109	109	117	117	125	125	133	
Helix length	mm	57	57	57	57	57	57	63	69	69	75	75	81	81	87	
<b>8460G</b>	<b>Each</b>	<b>9,58</b>	<b>10,60</b>	<b>10,70</b>	<b>10,40</b>	<b>11,10</b>	<b>9,58</b>	<b>11,70</b>	<b>14,10</b>	<b>15,70</b>	<b>15,70</b>	<b>20,60</b>	<b>22,10</b>	<b>25,40</b>	<b>26,90</b>	

**Orig. Hartner - Art. 84804**

Spiral flute length according to DIN 338. Type FU 500 DZ. COBALT HSS-E. Cutting angle 118°.

SHORT pattern.

Particular 4 facet sharpening and special web thinning for low turning moments, higher drilling parameters and good finishing of the hole surface.

For alloyed and unalloyed steel up to R 850 N/m<sup>2</sup>, steel for hot/cold working, ball bearing steel, stainless steel, non-ferrous metals, cast iron and plastic material.

Cylindrical shank



**8461G**



**HSS-E**

Ø	mm	1,0	1,2	1,5	1,6	1,7	2,0	2,4	2,5	2,8	3,0	3,2	3,3	3,5	3,6	3,7
Overall length	mm	34	38	40	43	43	49	57	57	57	61	65	65	70	70	70
Helix length	mm	12	16	18	20	20	24	30	30	30	33	36	36	39	39	39
<b>8461G</b>	<b>Each</b>	<b>2,90</b>	<b>2,90</b>	<b>2,90</b>	<b>2,90</b>	<b>2,90</b>	<b>3,04</b>	<b>3,04</b>	<b>3,14</b>	<b>3,28</b>	<b>3,14</b>	<b>3,28</b>	<b>3,36</b>	<b>3,60</b>	<b>3,60</b>	<b>3,60</b>
Ø	mm	3,8	4,0	4,1	4,2	4,3	4,5	4,6	4,8	4,9	5,0	5,1	5,2	5,5	6,0	6,2
Overall length	mm	75	75	75	75	80	80	80	86	86	86	86	86	93	93	101
Helix length	mm	43	43	43	43	47	47	47	52	52	52	52	52	57	57	63
<b>8461G</b>	<b>Each</b>	<b>3,94</b>	<b>3,84</b>	<b>3,94</b>	<b>3,94</b>	<b>4,04</b>	<b>5,12</b>	<b>4,04</b>	<b>4,04</b>	<b>4,18</b>	<b>4,18</b>	<b>4,18</b>	<b>4,32</b>	<b>4,50</b>	<b>5,02</b>	<b>5,70</b>
Ø	mm	6,5	6,6	6,8	7,0	7,4	7,5	7,9	8,0	8,5	9,0	9,3	9,5	9,8	10,0	10,2
Overall length	mm	101	101	109	109	109	109	117	117	117	125	125	125	133	133	133
Helix length	mm	63	63	69	69	69	69	75	75	75	81	81	81	87	87	87
<b>8461G</b>	<b>Each</b>	<b>5,70</b>	<b>6,16</b>	<b>7,20</b>	<b>7,02</b>	<b>8,62</b>	<b>7,50</b>	<b>9,48</b>	<b>7,88</b>	<b>8,34</b>	<b>9,48</b>	<b>12,10</b>	<b>10,60</b>	<b>13,50</b>	<b>12,10</b>	<b>15,80</b>
Ø	mm	10,5	11,0	11,5	12,0	12,5	13,0	13,5	14,0							
Overall length	mm	133	142	142	151	151	151	160	160							
Helix length	mm	87	94	94	101	101	101	108	108							
<b>8461G</b>	<b>Each</b>	<b>15,80</b>	<b>18,30</b>	<b>20,90</b>	<b>21,80</b>	<b>26,60</b>	<b>31,30</b>	<b>36,10</b>	<b>37,50</b>							

### 8463G



HSS-E TIN

**Orig. Hartner**

Spiral flute length according to DIN 338. Type FU 500 DZ. COBALT HSS-E+TIN. Cutting angle 118°. SHORT pattern.

Particular 4 facet grinding and special web thinning for low turning moments, higher drilling parameters and good finishing of the hole surface.

For alloy and unalloyed steel up to R 850 N/sqmm, steel for hot/cold working, bearing steel, stainless steel, non-ferrous metals, cast iron and plastic materials.

Cylindrical shank. TIN treatment.

Ø	mm	2	2,5	3	3,3	3,5	4	4,2	4,5	5	5,5	6	6,5	6,8	7	7,5	8	8,5
Overall length	mm	49	57	61	65	70	75	75	80	86	93	93	101	109	109	109	117	117
Helix length	mm	24	30	33	36	39	43	43	47	52	57	57	63	69	69	69	75	75
Drive Ø	mm	2	2,5	3	3,3	3,5	4	4,2	4,5	5	5,5	6	6,5	6,8	7	7,5	8	8,5
Drive length	mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier code		84802	84802	84802	84802	84802	84802	84802	84802	84802	84802	84802	84802	84802	84802	84802	84802	84802
<b>8463G</b>	<b>Each</b>	<b>7,02</b>	<b>7,20</b>	<b>7,68</b>	<b>8,54</b>	<b>9,20</b>	<b>9,48</b>	<b>9,76</b>	<b>10,30</b>	<b>10,90</b>	<b>13,10</b>	<b>13,20</b>	<b>15,80</b>	<b>18,10</b>	<b>18,10</b>	<b>18,80</b>	<b>21,40</b>	<b>21,80</b>
Ø	mm	9	9,5	10	10,2	10,5	11	11,5	12	13	14	15	16	17	18	19	20	
Overall length	mm	125	125	133	133	133	142	142	151	151	160	169	172	181	184	188	191	
Helix length	mm	81	81	87	87	87	94	94	101	101	108	109	112	115	118	122	125	
Drive Ø	mm	9	9,5	10	10,2	10,5	11	11,5	12	13	14	16	16	20	20	20	20	
Drive length	mm	-	-	-	-	-	-	-	-	-	-	48	48	50	50	50	50	
Supplier code		84802	84802	84802	84802	84802	84802	84802	84802	84802	84801	84801	84801	84801	84801	84801	84801	
<b>8463G</b>	<b>Each</b>	<b>24,70</b>	<b>25,60</b>	<b>28,50</b>	<b>33,20</b>	<b>33,20</b>	<b>34,20</b>	<b>38,40</b>	<b>40,30</b>	<b>45,10</b>	<b>54,10</b>	<b>267,00</b>	<b>286,00</b>	<b>302,00</b>	<b>331,00</b>	<b>376,00</b>	<b>390,00</b>	

### 8464G



HSS-E FIRE

**Orig. Hartner - Art. 84507**

Spiral flute length according to DIN 338. Type FN 500 DZ. COBALT HSS-E + FIRE. Cutting angle 130°. SHORT pattern. High-performance drills, excellent heat resistance, wide slots. Produced by using the powder-sintering technique (PM), such drills combine the advantages of conventional Cobalt HSS-E and solid carbide drills, resulting cheaper and less subject to breakage. FIRE-coated surface, for high-speed working, dry working, or when using nebulized lubrication-cooler.

For high-percentage alloy steel, quenched and tempered steel and case hardening steel, cast iron, brass and bronze.

Cylindrical shank according to DIN 1835A. FIRE treatment.

Ø	mm	2	2,5	3	3,3	3,5	4	4,2	4,5	5	5,5	6	6,5*	6,8	7	7,5		
Overall length	mm	56	62	65	68	71	75	87	91	96	101	101	107	113	113	113		
Helix length	mm	24	30	33	36	39	43	43	47	52	57	57	63	69	69	69		
Drive Ø	mm	3	3	3	4	4	4	6	6	6	6	6	8	8	8	8		
Drive length	mm	28	28	28	28	28	28	36	36	36	36	36	36	36	36	36		
<b>8464G</b>	<b>Each</b>	<b>23,10</b>	<b>27,30</b>	<b>27,30</b>	<b>30,40</b>	<b>30,40</b>	<b>33,60</b>	<b>41,40</b>	<b>39,70</b>	<b>50,10</b>	<b>50,10</b>	<b>54,30</b>	<b>62,10</b>	<b>70,70</b>	<b>70,70</b>	<b>72,40</b>		
Ø	mm	8	8,5	9	9,5*	10	10,2*	10,5*	11	11,5	12	13*						
Overall length	mm	119	125	131	131	137	144	144	151	151	158	161						
Helix length	mm	75	75	81	81	87	87	87	94	94	101	101						
Drive Ø	mm	8	10	10	10	10	12	12	12	12	14	14						
Drive length	mm	36	40	40	40	40	45	45	45	45	45	48						
<b>8464G</b>	<b>Each</b>	<b>76,70</b>	<b>86,20</b>	<b>77,60</b>	<b>83,60</b>	<b>91,30</b>	<b>107,00</b>	<b>114,00</b>	<b>107,00</b>	<b>114,00</b>	<b>125,00</b>	<b>164,00</b>						

\* Sizes running out of stock.

## CARBIDE TIPPED TWIST DRILLS, RIGHT-HAND ROTATION

### 8465G



HARTMETALL

**Prod. SCU**

Similar to DIN 338. SUPER RAPID HSS body, with HARD METAL cutting edges (only sizes 2 and 2,5 mm in integral HARD METAL).

SHORT pattern. Cutting angle 120°.

For manganese steel, nickel, cast iron, bronze, brass, aluminium, bakelite, etc. with resistance ranging from R 700N/sqmm to R 2300 N/sqmm.

Cylindrical shank.

Ø	mm	2	2,1*	2,5	2,6*	3	3,1	3,2	3,3	3,5	3,6	3,9*	4	4,2	4,3	4,4*		
Overall length	mm	51	49	57	57	61	70	70	70	70	75	75	75	80	80	80		
Helix length	mm	24	24	30	30	33	39	39	39	39	43	43	43	47	47	47		
<b>8465G</b>	<b>Each</b>	<b>12,90</b>	<b>10,40</b>	<b>12,90</b>	<b>10,40</b>	<b>12,60</b>	<b>12,60</b>	<b>12,60</b>	<b>12,60</b>	<b>12,60</b>	<b>11,60</b>	<b>9,98</b>	<b>11,60</b>	<b>12,10</b>	<b>12,10</b>	<b>10,40</b>		
Ø	mm	4,5	4,6*	5	5,1	5,2	5,3	5,5	5,6*	5,7*	5,8	6	6,5	6,7	6,8	6,9*		
Overall length	mm	80	80	86	93	93	93	93	93	93	93	93	101	109	109	109		
Helix length	mm	47	47	52	57	57	57	57	57	57	57	57	63	69	69	69		
<b>8465G</b>	<b>Each</b>	<b>12,10</b>	<b>10,70</b>	<b>12,60</b>	<b>13,20</b>	<b>13,20</b>	<b>13,20</b>	<b>13,20</b>	<b>11,60</b>	<b>11,60</b>	<b>13,70</b>	<b>14,40</b>	<b>14,40</b>	<b>15,30</b>	<b>15,30</b>	<b>13,20</b>		
Ø	mm	7	7,1	7,5	7,9*	8	8,1*	8,5	8,6*	8,9*	9	9,1*	9,2*	9,3*	9,4*	9,5		
Overall length	mm	109	109	109	117	117	117	117	125	125	125	125	125	125	125	125		
Helix length	mm	69	69	69	75	75	75	75	81	81	81	81	81	81	81	81		
<b>8465G</b>	<b>Each</b>	<b>15,30</b>	<b>16,50</b>	<b>16,50</b>	<b>15,10</b>	<b>17,70</b>	<b>16,30</b>	<b>19,30</b>	<b>17,40</b>	<b>17,20</b>	<b>20,50</b>	<b>18,50</b>	<b>18,50</b>	<b>18,50</b>	<b>18,50</b>	<b>21,90</b>		
Ø	mm	9,6*	9,7*	10	10,5	12	12,5	13	13,5	14	15	16						
Overall length	mm	133	133	133	133	151	151	151	160	160	169	178						
Helix length	mm	87	87	87	87	101	101	101	108	108	114	120						
<b>8465G</b>	<b>Each</b>	<b>19,80</b>	<b>20,10</b>	<b>23,70</b>	<b>27,10</b>	<b>34,10</b>	<b>37,50</b>	<b>38,10</b>	<b>62,30</b>	<b>67,90</b>	<b>75,90</b>	<b>87,10</b>						

\* Sizes running out of stock.

**SOLID CARBIDE TWIST DRILLS, K 10/20, RIGHT-HAND ROTATION**

Prod. SCU - Orig. M.D. DRILLS - Art. 13892/89244

DIN 338. Type N, two cutting edges. Cutting angle 118°. SHORT pattern.  
4 facet grinding. For high-resistance steel, Cr-Ni manganese steel and aluminium.  
Cylindrical shank.



**8468G**



Ø	mm	2	2,1	2,2	2,3	2,4	2,5	2,6	2,7	2,8	2,9	3	3,1	3,2	3,3	3,4
Overall length	mm	49	49	53	53	57	57	57	61	61	61	61	65	65	65	70
Helix length	mm	24	24	27	27	30	30	30	33	33	33	33	36	36	36	39
<b>8468G</b>	<b>Each</b>	<b>6,16</b>	<b>7,00</b>	<b>7,82</b>	<b>7,82</b>	<b>7,82</b>	<b>7,82</b>	<b>10,90</b>	<b>10,90</b>	<b>10,90</b>	<b>10,90</b>	<b>10,20</b>	<b>10,20</b>	<b>10,20</b>	<b>10,20</b>	<b>11,70</b>
Ø	mm	3,5	3,6	3,7	3,8	3,9	4	4,1	4,2	4,3	4,4	4,5	4,6	4,8	4,9	5
Overall length	mm	70	70	70	75	75	75	75	80	80	80	80	80	86	86	86
Helix length	mm	39	39	39	43	43	43	43	47	47	47	47	47	52	52	52
<b>8468G</b>	<b>Each</b>	<b>10,90</b>	<b>12,40</b>	<b>12,40</b>	<b>12,40</b>	<b>12,40</b>	<b>12,40</b>	<b>13,20</b>	<b>13,20</b>	<b>17,20</b>	<b>17,20</b>	<b>15,50</b>	<b>17,90</b>	<b>17,90</b>	<b>17,90</b>	<b>17,20</b>
Ø	mm	5,1	5,2	5,3	5,4*	5,5	5,6	5,8	6	6,1	6,2	6,4*	6,5	6,8	6,9	7
Overall length	mm	86	86	86	93	93	93	93	101	101	101	101	101	109	109	109
Helix length	mm	52	52	52	57	57	57	57	63	63	63	63	63	69	69	69
<b>8468G</b>	<b>Each</b>	<b>30,90</b>	<b>22,90</b>	<b>22,90</b>	<b>52,70</b>	<b>23,30</b>	<b>24,40</b>	<b>24,40</b>	<b>24,20</b>	<b>30,90</b>	<b>30,90</b>	<b>70,20</b>	<b>30,20</b>	<b>35,70</b>	<b>56,90</b>	<b>35,70</b>
Ø	mm	7,2	7,4	7,5	7,6	7,7	7,9	8	8,2	8,5	8,6*	8,7*	8,9*	9	9,1*	9,3
Overall length	mm	109	109	109	117	117	117	117	117	117	125	125	125	125	125	125
Helix length	mm	69	69	69	75	75	75	75	75	75	81	81	81	81	81	81
<b>8468G</b>	<b>Each</b>	<b>43,20</b>	<b>43,20</b>	<b>35,70</b>	<b>51,40</b>	<b>42,50</b>	<b>80,90</b>	<b>41,80</b>	<b>54,20</b>	<b>48,70</b>	<b>124,00</b>	<b>124,00</b>	<b>124,00</b>	<b>50,70</b>	<b>139,00</b>	<b>67,20</b>
Ø	mm	9,4	9,5	9,6*	9,7	9,8	9,9	10	10,5	11	11,5	12				
Overall length	mm	125	125	133	133	133	133	133	133	142	142	151				
Helix length	mm	81	81	87	87	87	87	87	87	94	94	101				
<b>8468G</b>	<b>Each</b>	<b>67,20</b>	<b>56,20</b>	<b>145,00</b>	<b>69,90</b>	<b>69,90</b>	<b>69,90</b>	<b>62,40</b>	<b>72,70</b>	<b>87,70</b>	<b>93,20</b>	<b>102,00</b>				

\* Sizes running out of stock.

**LONG DRILLS FOR METALS, RIGHT-HAND ROTATION**

Orig. Hartner - Art. 81310

DIN 340. Type N. HSS. Cutting angle 118°. LONG pattern.  
For steel up to R higher than 900 N/sqmm, cast iron, aluminium alloys and pressure die-casts.  
Cylindrical shank.



**8480G**



Ø	mm	1	1,1	1,2	1,3	1,4	1,5	1,6	1,8	1,9	2	2,1	2,2	2,25	2,3	2,4	2,5
Overall length	mm	56	60	65	65	70	70	76	80	80	85	85	90	90	90	95	95
Helix length	mm	33	37	41	41	45	45	50	53	53	56	56	59	59	59	62	62
<b>8480G</b>	<b>Each</b>	<b>7,66</b>	<b>7,76</b>	<b>7,28</b>	<b>6,88</b>	<b>6,30</b>	<b>5,30</b>	<b>5,50</b>	<b>5,50</b>	<b>5,50</b>	<b>3,64</b>	<b>4,52</b>	<b>4,52</b>	<b>7,46</b>	<b>5,02</b>	<b>4,52</b>	<b>3,84</b>
Ø	mm	2,6	2,7	2,75	2,8	2,9	3	3,1	3,2	3,25	3,3	3,4	3,5	3,6	3,7	3,75	3,8
Overall length	mm	95	100	100	100	100	106	106	106	106	112	112	112	112	112	119	119
Helix length	mm	62	66	66	66	66	66	69	69	69	73	73	73	73	73	78	78
<b>8480G</b>	<b>Each</b>	<b>4,82</b>	<b>5,30</b>	<b>7,76</b>	<b>4,86</b>	<b>5,40</b>	<b>3,94</b>	<b>4,92</b>	<b>4,18</b>	<b>7,46</b>	<b>4,76</b>	<b>5,90</b>	<b>4,62</b>	<b>5,90</b>	<b>6,00</b>	<b>8,64</b>	<b>5,50</b>
Ø	mm	3,9	4	4,1	4,2	4,25	4,3	4,4	4,5	4,6*	4,7	4,75	4,8	4,9	5	5,1	5,2
Overall length	mm	119	119	119	119	119	126	126	126	126	126	132	132	132	132	132	132
Helix length	mm	78	78	78	78	78	82	82	82	82	82	82	87	87	87	87	87
<b>8480G</b>	<b>Each</b>	<b>6,00</b>	<b>5,12</b>	<b>6,00</b>	<b>5,22</b>	<b>10,60</b>	<b>6,30</b>	<b>6,98</b>	<b>5,90</b>	<b>6,48</b>	<b>6,88</b>	<b>14,20</b>	<b>6,98</b>	<b>6,98</b>	<b>6,48</b>	<b>7,18</b>	<b>7,28</b>
Ø	mm	5,25	5,3	5,4	5,5	5,6	5,7	5,75	5,8	5,9	6	6,1	6,2	6,25	6,3	6,4*	6,5
Overall length	mm	132	132	139	139	139	139	139	139	139	148	148	148	148	148	148	148
Helix length	mm	87	87	91	91	91	91	91	91	91	97	97	97	97	97	97	97
<b>8480G</b>	<b>Each</b>	<b>14,30</b>	<b>8,06</b>	<b>8,36</b>	<b>7,46</b>	<b>8,36</b>	<b>7,46</b>	<b>15,80</b>	<b>7,66</b>	<b>8,64</b>	<b>8,06</b>	<b>8,26</b>	<b>8,74</b>	<b>18,50</b>	<b>9,24</b>	<b>11,30</b>	<b>8,74</b>
Ø	mm	6,6	6,7	6,75	6,8	6,9	7	7,1	7,2	7,25*	7,3	7,4*	7,5	7,6*	7,7*	7,75	7,8
Overall length	mm	148	148	156	156	156	156	156	156	156	156	156	156	165	165	165	165
Helix length	mm	97	97	102	102	102	102	102	102	102	102	102	102	109	109	109	109
<b>8480G</b>	<b>Each</b>	<b>11,70</b>	<b>12,20</b>	<b>13,50</b>	<b>12,50</b>	<b>13,70</b>	<b>10,20</b>	<b>14,90</b>	<b>14,90</b>	<b>21,20</b>	<b>15,50</b>	<b>15,20</b>	<b>12,20</b>	<b>15,40</b>	<b>15,80</b>	<b>20,20</b>	<b>14,30</b>
Ø	mm	7,9*	8	8,1	8,2	8,4*	8,5	8,6*	8,7*	8,8	8,9	9	9,1*	9,2*	9,3*	9,4	9,5
Overall length	mm	165	165	165	165	165	165	175	175	175	175	175	175	175	175	175	175
Helix length	mm	109	109	109	109	109	109	115	115	115	115	115	115	115	115	115	115
<b>8480G</b>	<b>Each</b>	<b>15,80</b>	<b>12,10</b>	<b>16,30</b>	<b>14,30</b>	<b>18,50</b>	<b>13,80</b>	<b>19,10</b>	<b>19,20</b>	<b>22,10</b>	<b>25,10</b>	<b>14,50</b>	<b>23,10</b>	<b>23,10</b>	<b>24,10</b>	<b>24,10</b>	<b>17,60</b>
Ø	mm	9,6*	9,7	9,75	9,8	9,9*	10	10,25	10,5	10,75	11	11,25	11,5	11,75	12	12,5	13
Overall length	mm	184	184	184	184	184	184	184	184	195	195	195	195	195	205	205	205
Helix length	mm	121	121	121	121	121	121	121	121	128	128	128	128	128	134	134	134
<b>8480G</b>	<b>Each</b>	<b>24,10</b>	<b>23,60</b>	<b>32,10</b>	<b>23,60</b>	<b>26,60</b>	<b>17,10</b>	<b>32,10</b>	<b>24,10</b>	<b>38,80</b>	<b>25,10</b>	<b>52,10</b>	<b>28,10</b>	<b>50,10</b>	<b>32,10</b>	<b>32,10</b>	<b>33,90</b>
Ø	mm	13,5	14	14,5*	15	15,5*	16	17,5*	18,5*	19,5	20	20,5	21*	23,5*	24,5*	25*	
Overall length	mm	214	214	220	220	227	227	241	247	254	254	261	261	275	282	282	
Helix length	mm	140	140	144	144	149	149	158	162	166	166	171	171	180	185	185	
<b>8480G</b>	<b>Each</b>	<b>37,40</b>	<b>41,80</b>	<b>54,10</b>	<b>52,10</b>	<b>61,70</b>	<b>62,90</b>	<b>80,20</b>	<b>123,00</b>	<b>170,00</b>	<b>102,00</b>	<b>196,00</b>	<b>113,00</b>	<b>376,00</b>	<b>157,00</b>	<b>161,00</b>	

Up to Ø 6.7mm in 10pcs packing units. - \* Sizes running out of stock.

**LONG DRILLS FOR BRASS, BRONZE AND NON-FERROUS ALLOYS, RIGHT-HAND ROTATION**

**8481G**



**HSS**

**Orig. Hartner - Art. 81320-118°**

DIN 340. Type H. HSS. Cutting angle 118°. LONG pattern.

For brass, bronze, short-chip non-ferrous alloys.

Cylindrical shank.

Ø	mm	1	1,2	1,3	1,4	1,6	1,7*	1,8	1,9	2	2,2	2,3	2,4*	2,5	2,6	2,7
Overall length	mm	56	65	65	70	76	76	80	80	85	90	90	95	95	95	100
Helix length	mm	33	41	41	45	50	50	53	53	56	59	59	62	62	62	66
<b>8481G</b>	<b>Each</b>	<b>12,20</b>	<b>12,40</b>	<b>12,50</b>	<b>12,30</b>	<b>10,90</b>	<b>8,30</b>	<b>11,50</b>	<b>9,90</b>	<b>8,18</b>	<b>10,30</b>	<b>9,42</b>	<b>7,68</b>	<b>8,56</b>	<b>11,10</b>	<b>9,52</b>
Ø	mm	2,8	2,9	3	3,1	3,2	3,3*	3,4*	3,5	3,6	3,7*	3,9*	4	4,1	4,2	4,4*
Overall length	mm	100	100	100	106	106	106	112	112	112	112	119	119	119	119	126
Helix length	mm	66	66	66	69	69	69	73	73	73	73	78	78	78	78	82
<b>8481G</b>	<b>Each</b>	<b>9,52</b>	<b>9,72</b>	<b>8,66</b>	<b>12,20</b>	<b>10,70</b>	<b>11,80</b>	<b>11,20</b>	<b>10,10</b>	<b>20,70</b>	<b>5,08</b>	<b>21,70</b>	<b>10,40</b>	<b>21,20</b>	<b>12,90</b>	<b>11,20</b>
Ø	mm	4,5	4,6	4,7	4,8*	5	5,3*	5,4*	5,5	5,7*	5,8*	5,9	6	6,1*	6,2	6,3*
Overall length	mm	126	126	126	132	132	132	139	139	139	139	139	139	148	148	148
Helix length	mm	82	82	82	87	87	87	91	91	91	91	91	91	97	97	97
<b>8481G</b>	<b>Each</b>	<b>13,20</b>	<b>19,80</b>	<b>24,60</b>	<b>19,60</b>	<b>13,90</b>	<b>38,10</b>	<b>35,10</b>	<b>16,20</b>	<b>36,60</b>	<b>44,80</b>	<b>40,90</b>	<b>17,30</b>	<b>38,90</b>	<b>43,80</b>	<b>35,90</b>
Ø	mm	6,5*	6,6*	6,7*	6,8	6,9*	7	7,2*	7,3*	7,5	7,8*	8	8,2*	8,3*	8,4*	9*
Overall length	mm	148	148	148	156	156	156	156	156	156	165	165	165	165	165	175
Helix length	mm	97	97	97	102	102	102	102	102	102	109	109	109	109	109	115
<b>8481G</b>	<b>Each</b>	<b>24,60</b>	<b>36,40</b>	<b>52,90</b>	<b>50,00</b>	<b>48,20</b>	<b>26,50</b>	<b>39,50</b>	<b>36,40</b>	<b>46,20</b>	<b>41,10</b>	<b>27,90</b>	<b>41,50</b>	<b>31,80</b>	<b>43,00</b>	<b>26,70</b>
Ø	mm	9,5	10*	10,5*	11*	11,5*	12,5*									
Overall length	mm	175	184	184	195	195	205									
Helix length	mm	115	121	121	128	128	134									
<b>8481G</b>	<b>Each</b>	<b>55,80</b>	<b>34,90</b>	<b>43,00</b>	<b>44,90</b>	<b>45,10</b>	<b>49,30</b>									

Up to Ø 6.7mm in 10pcs packing units. - \* Sizes running out of stock.

**DRILLS FOR ALUMINIUM AND COPPER, RIGHT-HAND ROTATION**

**8481GE**



**HSS**

**Orig. Hartner - Art. 81330**

DIN 340. Type W. HSS. Cutting angle 130°. LONG pattern.

For aluminium, copper and relevant alloys.

Cylindrical shank.

Ø	mm	2	2,5	3	3,2	3,5	4	4,5
Overall length	mm	85	95	100	106	112	119	126
Helix length	mm	56	62	66	69	73	78	82
<b>8481GE</b>	<b>Each</b>	<b>7,60</b>	<b>8,46</b>	<b>9,04</b>	<b>12,10</b>	<b>10,20</b>	<b>10,90</b>	<b>13,20</b>
Ø	mm	5	5,5	6	6,5	7	7,5	8
Overall length	mm	132	139	139	148	156	156	165
Helix length	mm	87	91	91	97	102	102	109
<b>8481GE</b>	<b>Each</b>	<b>12,40</b>	<b>16,20</b>	<b>17,50</b>	<b>22,60</b>	<b>24,60</b>	<b>34,70</b>	<b>25,50</b>
Ø	mm	8,5	9	9,5*	10	11*	12*	13*
Overall length	mm	165	175	175	184	195	205	205
Helix length	mm	109	115	115	121	128	134	134
<b>8481GE</b>	<b>Each</b>	<b>37,10</b>	<b>36,10</b>	<b>37,90</b>	<b>41,90</b>	<b>67,30</b>	<b>79,90</b>	<b>80,90</b>

Up to Ø 6.5mm in 10pcs packing units. \* Sizes running out of stock.

**LONG DRILLS FOR METALS, RIGHT-HAND ROTATION**

**8482G**



**HSS**

**Orig. Hartner - Art. 81340**

DIN 340. Type FN. HSS. Cutting angle 130°. LONG pattern.

Thinned cutting edge according to DIN 1412 A.

For steel up to R 1000 N/sqmm, cast iron, aluminium and aluminium alloys.

Cylindrical shank.

Ø	mm	1	1,1*	1,2	1,3	1,4	1,5	1,6*	1,7	1,8	1,9	2	2,1	2,2*	2,3	2,4
Overall length	mm	56	60	65	65	70	70	76	76	80	80	85	85	90	90	95
Helix length	mm	33	37	41	41	45	45	50	50	53	53	56	56	59	59	62
<b>8482G</b>	<b>Each</b>	<b>13,10</b>	<b>14,30</b>	<b>13,20</b>	<b>13,60</b>	<b>12,60</b>	<b>10,80</b>	<b>9,70</b>	<b>10,20</b>	<b>10,20</b>	<b>10,10</b>	<b>9,48</b>	<b>10,80</b>	<b>11,10</b>	<b>11,20</b>	<b>11,40</b>
Ø	mm	2,5	2,6	2,7	2,8	2,9	3	3,1	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9
Overall length	mm	95	95	100	100	100	100	106	106	106	112	112	112	112	119	119
Helix length	mm	62	62	66	66	66	66	69	69	69	73	73	73	73	78	78
<b>8482G</b>	<b>Each</b>	<b>9,92</b>	<b>11,40</b>	<b>11,70</b>	<b>11,70</b>	<b>11,80</b>	<b>10,10</b>	<b>13,50</b>	<b>11,40</b>	<b>13,10</b>	<b>13,50</b>	<b>11,70</b>	<b>14,80</b>	<b>14,40</b>	<b>14,30</b>	<b>14,60</b>
Ø	mm	4	4,1	4,2	4,3	4,4	4,5	4,6*	4,7*	4,8	4,9*	5	5,1	5,2	5,4	5,5
Overall length	mm	119	119	119	126	126	126	126	126	132	132	132	132	132	139	139
Helix length	mm	78	78	78	82	82	82	82	82	87	87	87	87	87	91	91
<b>8482G</b>	<b>Each</b>	<b>12,60</b>	<b>15,60</b>	<b>14,30</b>	<b>15,80</b>	<b>17,30</b>	<b>14,60</b>	<b>19,60</b>	<b>16,60</b>	<b>17,30</b>	<b>17,80</b>	<b>15,40</b>	<b>18,50</b>	<b>19,40</b>	<b>20,10</b>	<b>18,20</b>
Ø	mm	5,6	5,7	5,8	5,9	6	6,1*	6,2	6,3	6,5	6,6*	6,7*	6,8	6,9	7	7,1*
Overall length	mm	139	139	139	139	139	148	148	148	148	148	148	156	156	156	156
Helix length	mm	91	91	91	91	91	97	97	97	97	97	97	102	102	102	102
<b>8482G</b>	<b>Each</b>	<b>22,60</b>	<b>22,60</b>	<b>23,70</b>	<b>24,80</b>	<b>18,60</b>	<b>21,60</b>	<b>26,50</b>	<b>27,70</b>	<b>20,90</b>	<b>27,20</b>	<b>31,60</b>	<b>31,60</b>	<b>32,20</b>	<b>24,30</b>	<b>38,40</b>

Prices in EURO - VAT not included



Ø	mm	7,2*	7,3	7,4*	7,5	7,6*	7,7*	7,8*	7,9*	8	8,1*	8,2	8,3*	8,4*	8,5	8,6
Overall length	mm	156	156	156	156	165	165	165	165	165	165	165	165	165	165	175
Helix length	mm	102	102	102	102	109	109	109	109	109	109	109	109	109	109	115
<b>8482G</b>	<b>Each</b>	<b>35,60</b>	<b>40,10</b>	<b>29,10</b>	<b>29,90</b>	<b>42,30</b>	<b>42,90</b>	<b>37,90</b>	<b>37,90</b>	<b>27,70</b>	<b>31,40</b>	<b>38,90</b>	<b>44,60</b>	<b>46,80</b>	<b>36,70</b>	<b>45,10</b>
Ø	mm	8,7*	8,8	8,9*	9	9,1*	9,2*	9,3*	9,4*	9,5	9,6*	9,7	9,8	9,9	10	10,8*
Overall length	mm	175	175	175	175	175	175	175	175	175	184	184	184	184	184	195
Helix length	mm	115	115	115	115	115	115	115	115	115	121	121	121	121	121	128
<b>8482G</b>	<b>Each</b>	<b>42,30</b>	<b>45,10</b>	<b>46,20</b>	<b>33,90</b>	<b>54,20</b>	<b>52,50</b>	<b>55,30</b>	<b>65,40</b>	<b>53,60</b>	<b>72,20</b>	<b>75,60</b>	<b>72,20</b>	<b>86,90</b>	<b>41,80</b>	<b>128,00</b>
Ø	mm	11	11,2*	11,5	11,8	12	12,2	12,5	12,8	13						
Overall length	mm	195	195	195	195	205	205	205	205	205						
Helix length	mm	128	128	128	128	134	134	134	134	134						
<b>8482G</b>	<b>Each</b>	<b>63,20</b>	<b>136,00</b>	<b>106,00</b>	<b>131,00</b>	<b>77,80</b>	<b>159,00</b>	<b>84,60</b>	<b>88,10</b>	<b>89,10</b>						

Up to Ø 6.5mm in 10pcs packing units. - \* Sizes running out of stock.

**Orig. Hartner - Art. 81341**

DIN 340. Type FN. COBALT HSS-E. Cutting angle 130°. LONG pattern.

Thinned cutting edge according to DIN 1412 A.

For very high-resistance steel, grey cast iron, spheroidal cast iron, stainless steel and spring steel.

Cylindrical shank.

8487G

HSS-E

Ø	mm	1	1,1*	1,2	1,3*	1,4*	1,5	1,6	1,7*	1,8	1,9	2	2,1*	2,2	2,3*	2,4	2,5
Overall length	mm	56	60	65	65	70	70	76	76	80	80	85	85	90	90	95	95
Helix length	mm	33	37	41	41	45	45	50	50	53	53	56	56	59	59	62	62
<b>8487G</b>	<b>Each</b>	<b>16,10</b>	<b>16,60</b>	<b>18,90</b>	<b>15,50</b>	<b>15,10</b>	<b>15,40</b>	<b>17,50</b>	<b>15,70</b>	<b>17,30</b>	<b>16,50</b>	<b>12,10</b>	<b>12,30</b>	<b>15,30</b>	<b>12,60</b>	<b>15,40</b>	<b>12,60</b>
Ø	mm	2,6*	2,7	2,9	3	3,1	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4	4,1*	4,2
Overall length	mm	95	100	100	100	106	106	106	112	112	112	112	119	119	119	119	119
Helix length	mm	62	66	66	66	69	69	69	73	73	73	73	78	78	78	78	78
<b>8487G</b>	<b>Each</b>	<b>14,40</b>	<b>16,20</b>	<b>18,10</b>	<b>13,20</b>	<b>15,80</b>	<b>15,60</b>	<b>17,40</b>	<b>16,80</b>	<b>15,60</b>	<b>17,30</b>	<b>17,30</b>	<b>16,80</b>	<b>17,70</b>	<b>16,60</b>	<b>18,50</b>	<b>18,40</b>
Ø	mm	4,3	4,4*	4,5	4,6*	4,7	4,8	4,9	5	5,1*	5,2*	5,3*	5,4*	5,5	5,6	5,7	5,8*
Overall length	mm	126	126	126	126	126	132	132	132	132	132	132	139	139	139	139	139
Helix length	mm	82	82	82	82	82	87	87	87	87	87	87	91	91	91	91	91
<b>8487G</b>	<b>Each</b>	<b>19,40</b>	<b>21,80</b>	<b>19,70</b>	<b>22,60</b>	<b>21,10</b>	<b>22,60</b>	<b>22,60</b>	<b>19,70</b>	<b>19,40</b>	<b>22,60</b>	<b>20,50</b>	<b>20,70</b>	<b>23,20</b>	<b>30,50</b>	<b>29,40</b>	<b>24,90</b>
Ø	mm	5,9*	6	6,1	6,2*	6,3	6,4	6,5	6,6	6,7*	6,8	6,9	7	7,1*	7,2*	7,3*	7,4*
Overall length	mm	139	139	148	148	148	148	148	148	148	156	156	156	156	156	156	156
Helix length	mm	91	91	97	97	97	97	97	97	97	102	102	102	102	102	102	102
<b>8487G</b>	<b>Each</b>	<b>22,40</b>	<b>24,30</b>	<b>32,20</b>	<b>23,70</b>	<b>33,90</b>	<b>31,60</b>	<b>27,10</b>	<b>32,20</b>	<b>26,70</b>	<b>32,70</b>	<b>36,70</b>	<b>31,10</b>	<b>35,50</b>	<b>46,80</b>	<b>41,80</b>	<b>49,70</b>
Ø	mm	7,5	7,6*	7,7*	7,8	7,9*	8	8,2*	8,3	8,4*	8,6	8,7	8,8	8,9*	9*	9,1*	9,2*
Overall length	mm	156	165	165	165	165	165	165	165	165	175	175	175	175	175	175	175
Helix length	mm	102	109	109	109	109	109	109	109	109	115	115	115	115	115	115	115
<b>8487G</b>	<b>Each</b>	<b>37,80</b>	<b>49,70</b>	<b>53,10</b>	<b>55,30</b>	<b>56,40</b>	<b>32,70</b>	<b>42,10</b>	<b>57,50</b>	<b>59,80</b>	<b>59,80</b>	<b>56,40</b>	<b>65,40</b>	<b>68,80</b>	<b>39,10</b>	<b>69,90</b>	<b>74,50</b>
Ø	mm	9,3*	9,4*	9,5*	9,6*	9,7	9,8*	9,9*	10	10,5	11	11,5*					
Overall length	mm	175	175	175	184	184	184	184	184	184	195	195					
Helix length	mm	115	115	115	121	121	121	121	121	121	128	128					
<b>8487G</b>	<b>Each</b>	<b>74,50</b>	<b>55,60</b>	<b>47,90</b>	<b>83,50</b>	<b>83,50</b>	<b>89,10</b>	<b>91,40</b>	<b>63,20</b>	<b>84,60</b>	<b>94,80</b>	<b>95,90</b>					

Up to Ø 6.7mm in 10pcs packing units. - \* Sizes running out of stock.

**Orig. Hartner - Art. 84418**

DIN 340. Type N. HSS-TIN. Cutting angle 118°. LONG pattern.

Sharpening according to DIN 1414, form N. TIN-treated surface.

For steel up to R 900/sqmm, cast iron, spheroidal cast iron, aluminium and short-chip aluminium alloys, bronze, brass.

Cylindrical shank.

8490G

HSS TIN

Ø	mm	1	1,5	2	2,2*	2,5	2,8	3	3,3	3,8	4	4,2	4,5*	5	5,2*	5,5	
Overall length	mm	56	70	85	90	95	100	100	106	119	119	119	126	132	132	139	
Helix length	mm	33	45	56	59	62	66	66	69	78	78	78	82	87	87	91	
<b>8490G</b>	<b>Each</b>	<b>18,90</b>	<b>16,10</b>	<b>14,20</b>	<b>12,70</b>	<b>14,20</b>	<b>17,40</b>	<b>14,50</b>	<b>15,20</b>	<b>16,50</b>	<b>15,80</b>	<b>15,80</b>	<b>13,80</b>	<b>17,40</b>	<b>15,50</b>	<b>18,90</b>	
Ø	mm	5,8*	6	6,2*	6,8*	7	7,2	7,5*	7,8	8	8,2*	8,5	8,8*	9	9,2*	9,5	
Overall length	mm	139	139	148	156	156	156	156	165	165	165	165	175	175	175	175	
Helix length	mm	91	91	97	102	102	102	102	109	109	109	109	115	115	115	115	
<b>8490G</b>	<b>Each</b>	<b>19,70</b>	<b>19,30</b>	<b>26,70</b>	<b>33,60</b>	<b>33,20</b>	<b>42,10</b>	<b>29,10</b>	<b>42,10</b>	<b>34,40</b>	<b>31,90</b>	<b>38,20</b>	<b>37,70</b>	<b>38,80</b>	<b>39,40</b>	<b>47,10</b>	
Ø	mm	9,8*	10	10,2*	10,5*	10,8*	11,5	12									
Overall length	mm	184	184	184	184	184	195	195	205								
Helix length	mm	121	121	121	121	128	128	134									
<b>8490G</b>	<b>Each</b>	<b>55,40</b>	<b>41,10</b>	<b>42,90</b>	<b>42,90</b>	<b>64,20</b>	<b>62,10</b>	<b>59,80</b>									

Up to Ø 6.5mm in 10pcs packing units. - \* Sizes running out of stock.

**EXTRA-LONG DRILLS FOR METALS, RIGHT-HAND ROTATION**

**8492G**



**Orig. Hartner - Art. 81440**

DIN 1869. Type FN. HSS. Cutting angle 130°. EXTRA-LONG pattern.

For steel and steel cast iron up to R 1000 N/sqmm, spheroidal cast iron, aluminium and aluminium alloys, brass and bronze. Cylindrical shank.

Ø	mm	<b>2</b>	<b>2,5</b>	<b>3</b>	<b>3,2</b>	<b>3,5</b>	<b>4</b>	<b>4,2</b>	<b>4,5</b>	<b>5</b>	<b>5,1</b>	<b>5,2</b>	<b>5,5</b>	<b>6</b>	<b>6,5</b>
Overall length	mm	125	140	150	155	165	175	175	185	195	195	195	205	205	215
Helix length	mm	85	95	100	105	115	120	120	125	135	135	135	140	140	150
<b>8492G</b>	<b>Each</b>	<b>17,90</b>	<b>17,90</b>	<b>19,90</b>	<b>24,80</b>	<b>19,90</b>	<b>20,50</b>	<b>27,70</b>	<b>23,20</b>	<b>23,20</b>	<b>36,10</b>	<b>36,70</b>	<b>26,10</b>	<b>25,40</b>	<b>35,60</b>

Ø	mm	<b>7</b>	<b>7,5</b>	<b>8</b>	<b>8,5</b>	<b>9</b>	<b>9,5</b>	<b>10</b>	<b>10,5</b>	<b>11</b>	<b>11,5</b>	<b>12</b>
Overall length	mm	225	225	240	240	250	250	265	265	280	280	295
Helix length	mm	155	155	165	165	175	175	185	185	195	195	205
<b>8492G</b>	<b>Each</b>	<b>36,70</b>	<b>42,90</b>	<b>45,10</b>	<b>58,70</b>	<b>63,20</b>	<b>74,50</b>	<b>65,40</b>	<b>115,00</b>	<b>88,10</b>	<b>106,00</b>	<b>99,30</b>

**8494G**



**Orig. Hartner - Art. 81540**

Product description as Art. 8492G

Cylindrical shank.

Ø	mm	<b>3</b>	<b>3,5</b>	<b>4</b>	<b>4,5</b>	<b>5</b>	<b>5,5</b>	<b>6</b>	<b>6,5</b>
Overall length	mm	190	210	220	235	245	260	260	275
Helix length	mm	130	145	150	160	170	180	180	190
<b>8494G</b>	<b>Each</b>	<b>27,10</b>	<b>28,80</b>	<b>28,80</b>	<b>32,20</b>	<b>31,10</b>	<b>38,90</b>	<b>37,30</b>	<b>44,60</b>

Ø	mm	<b>7</b>	<b>7,5</b>	<b>8</b>	<b>8,5</b>	<b>9</b>	<b>9,5</b>	<b>10</b>	<b>10,2</b>
Overall length	mm	290	290	305	305	320	320	340	340
Helix length	mm	200	200	210	210	220	220	235	235
<b>8494G</b>	<b>Each</b>	<b>46,80</b>	<b>63,20</b>	<b>54,70</b>	<b>85,70</b>	<b>83,50</b>	<b>101,00</b>	<b>89,10</b>	<b>136,00</b>

Ø	mm	<b>10,5</b>	<b>11</b>	<b>11,5</b>	<b>12</b>	<b>12,5</b>	<b>13</b>
Overall length	mm	340	365	365	375	375	375
Helix length	mm	235	250	250	260	260	260
<b>8494G</b>	<b>Each</b>	<b>130,00</b>	<b>126,00</b>	<b>148,00</b>	<b>144,00</b>	<b>152,00</b>	<b>155,00</b>

**8496G**



**Orig. Hartner - Art. 81640**

Product description as Art. 8492G

Cylindrical shank.

Ø	mm	<b>3,5</b>	<b>4</b>	<b>4,5</b>	<b>5</b>	<b>5,5</b>	<b>6</b>	<b>6,5</b>
Overall length	mm	265	280	295	315	330	330	350
Helix length	mm	180	190	200	210	225	225	235
<b>8496G</b>	<b>Each</b>	<b>36,70</b>	<b>36,70</b>	<b>45,70</b>	<b>44,60</b>	<b>48,10</b>	<b>50,80</b>	<b>54,70</b>

Ø	mm	<b>7</b>	<b>7,5</b>	<b>8</b>	<b>8,5</b>	<b>9</b>	<b>9,5*</b>	<b>10</b>
Overall length	mm	370	370	390	390	410	410	430
Helix length	mm	250	250	265	265	280	280	295
<b>8496G</b>	<b>Each</b>	<b>69,90</b>	<b>85,70</b>	<b>81,20</b>	<b>103,00</b>	<b>111,00</b>	<b>125,00</b>	<b>131,00</b>

Ø	mm	<b>10,5*</b>	<b>11*</b>	<b>11,5</b>	<b>12</b>	<b>12,5</b>	<b>13</b>
Overall length	mm	430	455	455	480	480	480
Helix length	mm	295	310	310	330	330	330
<b>8496G</b>	<b>Each</b>	<b>129,00</b>	<b>152,00</b>	<b>167,00</b>	<b>179,00</b>	<b>175,00</b>	<b>179,00</b>

\* Sizes running out of stock.

**SOLID CARBIDE TWIST DRILLS, HIGH-PERFORMANCE, RIGHT-HAND ROTATION**

**8497GA**



**Prod. SCU - Orig. M.D. DRILLS - Art. 13880/89413**

DIN 6537. Cutting angle 140°.

EXTRA-SHORT model for boring depths 3 x D.

Particular sharpening and special web thinning ensure max drilling parameters, precise hole alignment, minimum diameter tolerances and good finishing of the hole surface. Suitable for high-precision and high-performance machines. For building and case hardening steel, steel cast iron, quenched and tempered steel, alloy steel with breaking load up to R 1200 N/sqmm, carbonium steel and aluminium alloys with high silicium content.

Cylindrical drive. DIN 6536 HA compliant. TIALN treatment.

Ø	mm	<b>3</b>	<b>3,3</b>	<b>3,5</b>	<b>4</b>	<b>4,2</b>	<b>4,5</b>	<b>4,8</b>	<b>5</b>	<b>5,5</b>	<b>5,8</b>	<b>6</b>	<b>6,5</b>	<b>6,8</b>	<b>7</b>	<b>7,5</b>
Overall length	mm	62	62	62	66	66	66	66	66	66	66	66	79	79	79	79
Helix length	mm	20	20	20	24	24	24	28	28	28	28	28	34	34	34	41
Drive Ø	mm	6	6	6	6	6	6	6	6	6	6	6	8	8	8	8
Drive length	mm	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
<b>8497GA</b>	<b>Each</b>	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>	<b>38,40</b>

Ø	mm	<b>8</b>	<b>8,5</b>	<b>9</b>	<b>9,5</b>	<b>10</b>	<b>10,2</b>	<b>10,5</b>	<b>11</b>	<b>11,5</b>	<b>12</b>	<b>12,5</b>	<b>13</b>
Overall length	mm	79	89	89	89	102	102	102	102	102	102	107	107
Helix length	mm	41	47	47	47	47	55	55	55	55	55	60	60
Drive Ø	mm	8	10	10	10	10	12	12	12	12	12	14	14
Drive length	mm	36	40	40	40	40	45	45	45	45	45	45	45
<b>8497GA</b>	<b>Each</b>	<b>38,40</b>	<b>42,50</b>	<b>42,50</b>	<b>42,50</b>	<b>42,50</b>	<b>63,70</b>	<b>63,70</b>	<b>63,70</b>	<b>63,70</b>	<b>63,70</b>	<b>85,10</b>	<b>85,10</b>

Prices in EURO - VAT not included

**Prod. SCU - Orig. M.D. DRILLS - Art. 13884/89414**

DIN 6537. Cutting angle 140°. SHORT model for boring depths 5 x D.

Particular sharpening and special web thinning ensure max drilling parameters, precise hole alignment, minimum diameter tolerances and good finishing of the hole surface. Suitable for high-precision and high-performance machines. For building and case hardening steel, steel cast iron, quenched and tempered steel, alloy steel with breaking load up to R 1200 N/sqmm, carbonium steel and aluminium alloys with high silicium content.

Cylindrical drive. DIN 6536 HA compliant. TIALN treatment.


**8497GE**


HARTMETALL

**TiAlN**

Ø	mm	3	3,5	4	4,5	5	5,5	6	6,5	7	8	8,5	9	10	11	12	13
Overall length	mm	66	66	74	74	82	82	82	91	91	91	103	103	103	118	118	124
Helix length	mm	28	28	36	36	44	44	44	53	53	53	61	61	61	71	71	77
Drive Ø	mm	6	6	6	6	6	6	6	8	8	8	10	10	10	12	12	14
Drive length	mm	36	36	36	36	36	36	36	36	36	36	40	40	40	45	45	45
<b>8497GE</b>	<b>Each</b>	<b>43,20</b>	<b>43,20</b>	<b>43,20</b>	<b>43,20</b>	<b>43,20</b>	<b>43,20</b>	<b>43,20</b>	<b>44,60</b>	<b>44,60</b>	<b>44,60</b>	<b>48,70</b>	<b>48,70</b>	<b>48,70</b>	<b>72,70</b>	<b>72,70</b>	<b>95,90</b>

**Prod. SCU - Orig. M.D. DRILLS - Art. 13886/89411**

DIN 6537. Cutting angle 140°. SHORT model for boring depths 5 x D. Forced lubrication through internal cooling channels.

Particular sharpening and special web thinning ensure max drilling parameters, precise hole alignment, minimum diameter tolerances and good finishing of the hole surface. Suitable for high-precision and high-performance machines. For building and case hardening steel, steel cast iron, quenched and tempered steel, alloy steel with breaking load up to R 1200 N/sqmm, carbonium steel and aluminium alloys with high silicium content.

Cylindrical drive. DIN 6536 HA compliant. TIALN treatment.


**8497GL**


HARTMETALL

**TiAlN**

Ø	mm	4	4,5	5	5,5	6	6,5	7	8	8,5	9	10	11	12	13
Overall length	mm	74	74	82	82	82	91	91	91	103	103	103	118	118	124
Helix length	mm	36	36	44	44	44	53	53	53	61	61	61	71	71	77
Drive Ø	mm	6	6	6	6	6	8	8	8	10	10	10	12	12	14
Drive length	mm	36	36	36	36	36	36	36	36	40	40	40	45	45	45
<b>8497GL</b>	<b>Each</b>	<b>66,50</b>	<b>66,50</b>	<b>66,50</b>	<b>66,50</b>	<b>66,50</b>	<b>74,10</b>	<b>74,10</b>	<b>74,10</b>	<b>85,10</b>	<b>85,10</b>	<b>85,10</b>	<b>124,00</b>	<b>124,00</b>	<b>166,00</b>

**Prod. SCU - Orig. M.D. DRILLS - Art. 13888/89412**

DIN 6537. Cutting angle 140°. LONG model for boring depths 7 x D. Forced lubrication through internal cooling channels.

Particular sharpening and special web thinning ensure max drilling parameters, precise hole alignment, minimum diameter tolerances and good finishing of the hole surface. Suitable for high-precision and high-performance machines. For building and case hardening steel, steel cast iron, quenched and tempered steel, alloy steel with breaking load up to R 1200 N/sqmm, carbonium steel and aluminium alloys with high silicium content.

Cylindrical drive. DIN 6536 HA compliant. TIALN treatment.


**8497GP**


HARTMETALL

**TiAlN**

Ø	mm	5	5,5	6	6,5	7	8	8,5	9	10	11	12	13
Overall length	mm	90	97	97	106	116	116	131	131	139	155	163	182
Helix length	mm	50	57	57	66	76	76	87	87	95	106	114	133
Drive Ø	mm	6	6	6	8	8	8	10	10	10	12	12	14
Drive length	mm	36	36	36	36	36	36	40	40	40	45	45	45
<b>8497GP</b>	<b>Each</b>	<b>137,00</b>	<b>137,00</b>	<b>137,00</b>	<b>159,00</b>	<b>159,00</b>	<b>159,00</b>	<b>192,00</b>	<b>192,00</b>	<b>192,00</b>	<b>254,00</b>	<b>254,00</b>	<b>359,00</b>

**SOLID CARBIDE TWIST DRILLS, K 10/20, HIGH-PERFORMANCE, RIGHT-HAND ROTATION**
**Orig. Hartner - Art. 89293**

Straight discharge TS 150 GG. Cutting angle 120°.

LONG pattern for 10xD drilling depth.

Forced lubrication through internal cooling channels.

Particular sharpening and special web thinning ensure max drilling parameters, precise hole alignment, minimum diameter tolerances and good finishing of the hole surface. Suitable for high-precision and high-performance machines. To be used with high-strength precision chucks such as Centro P orig. FAHRION Art. 1560GH-L-M. For aluminium and aluminium alloys, also with high silicium content.

Cylindrical shank according to DIN 6535 HA.


**8499G**

HARTMETALL

Ø	mm	4	4,5	5	5,5	6	6,5	7	8	8,5	9	10	11	12	13
Overall length	mm	121	121	121	121	121	146	146	146	175	175	175	209	209	233
Helix length	mm	77	77	82	82	82	106	106	106	130	130	130	159	159	183
Drive Ø	mm	6	6	6	6	6	8	8	8	10	10	10	12	12	14
Drive length	mm	36	36	36	36	36	36	36	36	40	40	40	45	45	45
<b>8499G</b>	<b>Each</b>	<b>93,50</b>	<b>93,50</b>	<b>93,50</b>	<b>93,50</b>	<b>93,50</b>	<b>123,00</b>	<b>123,00</b>	<b>123,00</b>	<b>155,00</b>	<b>155,00</b>	<b>155,00</b>	<b>192,00</b>	<b>192,00</b>	<b>257,00</b>

**DRILLS FOR METALS, RIGHT-HAND ROTATION**

**8500G**



**HSS**

**Orig. Hartner - Art. 82010**

DIN 345. Type N. HSS. Cutting angle 118°.

For steel up to R 900 N/sqmm, cast iron, spheroidal cast iron, aluminium and aluminium alloys, bronze and brass.

Morse taper shank.

Ø	mm	6	6,25*	6,5	6,75	7	7,25*	7,5	8	8,5	8,75	9	9,25*	9,5	9,75*	10
Overall length	mm	138	144	144	150	150	150	150	156	156	162	162	162	162	168	168
Helix length	mm	57	53	63	69	69	69	69	75	75	81	81	81	81	87	87
Drive	C.M.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<b>8500G</b>	<b>Each</b>	<b>29,10</b>	<b>48,30</b>	<b>28,50</b>	<b>31,10</b>	<b>28,50</b>	<b>50,90</b>	<b>32,90</b>	<b>26,10</b>	<b>28,50</b>	<b>47,20</b>	<b>28,10</b>	<b>46,30</b>	<b>33,40</b>	<b>46,30</b>	<b>28,50</b>
Ø	mm	10,25	10,5	10,75	11	11,25	11,5	11,75	12	12,25	12,5	12,75	13	13,25	13,5	13,75
Overall length	mm	168	168	175	175	175	175	175	182	182	182	182	182	189	189	189
Helix length	mm	87	87	94	94	94	94	94	101	101	101	101	101	108	108	108
Drive	C.M.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<b>8500G</b>	<b>Each</b>	<b>47,20</b>	<b>30,10</b>	<b>46,70</b>	<b>31,10</b>	<b>55,00</b>	<b>35,40</b>	<b>45,20</b>	<b>32,10</b>	<b>49,20</b>	<b>33,90</b>	<b>48,20</b>	<b>34,90</b>	<b>50,10</b>	<b>39,30</b>	<b>50,10</b>
Ø	mm	14	14,25	14,5	14,75	15	15,25	15,5	15,75	16	16,25	16,5	16,75	17	17,25	17,5
Overall length	mm	189	212	212	212	212	218	218	218	218	223	223	223	223	228	228
Helix length	mm	108	114	114	114	114	120	120	120	120	125	125	125	125	130	130
Drive	C.M.	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
<b>8500G</b>	<b>Each</b>	<b>36,40</b>	<b>60,10</b>	<b>38,80</b>	<b>65,90</b>	<b>40,80</b>	<b>60,10</b>	<b>44,20</b>	<b>58,10</b>	<b>44,20</b>	<b>69,80</b>	<b>47,70</b>	<b>63,90</b>	<b>50,10</b>	<b>68,80</b>	<b>51,10</b>
Ø	mm	17,75	18	18,25	18,5	18,75	19	19,25	19,5	19,75	20	20,25	20,5	20,75	21	21,25
Overall length	mm	228	228	233	233	233	233	238	238	238	238	243	243	243	243	248
Helix length	mm	130	130	135	135	135	135	140	140	140	140	145	145	145	145	150
Drive	C.M.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
<b>8500G</b>	<b>Each</b>	<b>65,90</b>	<b>53,10</b>	<b>75,70</b>	<b>57,10</b>	<b>72,70</b>	<b>57,10</b>	<b>84,50</b>	<b>65,90</b>	<b>81,60</b>	<b>60,90</b>	<b>95,30</b>	<b>64,90</b>	<b>91,40</b>	<b>68,80</b>	<b>99,20</b>
Ø	mm	21,5	21,75	22	22,25	22,5	22,75	23	23,25	23,5	23,75	24	24,5	24,75	25	25,25
Overall length	mm	248	248	248	248	253	253	253	276	276	281	281	281	281	281	286
Helix length	mm	150	150	150	150	155	155	155	155	155	160	160	160	160	160	165
Drive	C.M.	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3
<b>8500G</b>	<b>Each</b>	<b>78,60</b>	<b>94,30</b>	<b>76,70</b>	<b>99,20</b>	<b>82,60</b>	<b>99,20</b>	<b>89,40</b>	<b>124,00</b>	<b>88,40</b>	<b>131,00</b>	<b>93,40</b>	<b>96,30</b>	<b>143,00</b>	<b>105,00</b>	<b>145,00</b>
Ø	mm	25,5	25,75	26	26,25	26,5	27	27,25	27,5	27,75	28	28,5	28,75	29	29,25	29,5
Overall length	mm	286	286	286	286	286	291	291	291	291	291	296	296	296	296	296
Helix length	mm	165	165	165	165	165	170	170	170	170	170	175	175	175	175	175
Drive	C.M.	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
<b>8500G</b>	<b>Each</b>	<b>107,00</b>	<b>148,00</b>	<b>118,00</b>	<b>173,00</b>	<b>115,00</b>	<b>118,00</b>	<b>187,00</b>	<b>122,00</b>	<b>194,00</b>	<b>129,00</b>	<b>161,00</b>	<b>242,00</b>	<b>141,00</b>	<b>234,00</b>	<b>146,00</b>
Ø	mm	29,75	30	30,5	31	31,25	31,5	31,75	32	32,5	33	33,5	34	34,5	35	35,5
Overall length	mm	296	296	301	301	301	301	306	334	334	334	334	339	339	339	339
Helix length	mm	175	175	180	180	180	180	185	185	185	185	185	190	190	190	190
Drive	C.M.	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
<b>8500G</b>	<b>Each</b>	<b>196,00</b>	<b>141,00</b>	<b>172,00</b>	<b>168,00</b>	<b>276,00</b>	<b>191,00</b>	<b>199,00</b>	<b>176,00</b>	<b>215,00</b>	<b>190,00</b>	<b>222,00</b>	<b>221,00</b>	<b>258,00</b>	<b>226,00</b>	<b>279,00</b>
Ø	mm	36	36,5	37	37,5	38	38,5	39	39,5	40	40,5	41	41,5	42	42,5*	43
Overall length	mm	344	344	344	344	349	349	349	349	349	354	354	354	354	354	359
Helix length	mm	195	195	195	195	200	200	200	200	200	205	205	205	205	205	210
Drive	C.M.	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
<b>8500G</b>	<b>Each</b>	<b>244,00</b>	<b>287,00</b>	<b>266,00</b>	<b>299,00</b>	<b>281,00</b>	<b>354,00</b>	<b>311,00</b>	<b>387,00</b>	<b>321,00</b>	<b>415,00</b>	<b>342,00</b>	<b>423,00</b>	<b>378,00</b>	<b>360,00</b>	<b>395,00</b>
Ø	mm	43,5	44	44,5*	45	45,5	46	46,5	47	47,5	48	48,5	49	49,5	50	51
Overall length	mm	359	359	359	359	364	364	364	364	364	369	369	369	369	369	412
Helix length	mm	210	210	210	210	215	215	215	215	215	220	220	220	220	220	225
Drive	C.M.	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5
<b>8500G</b>	<b>Each</b>	<b>478,00</b>	<b>417,00</b>	<b>444,00</b>	<b>433,00</b>	<b>531,00</b>	<b>450,00</b>	<b>590,00</b>	<b>484,00</b>	<b>668,00</b>	<b>492,00</b>	<b>619,00</b>	<b>541,00</b>	<b>649,00</b>	<b>531,00</b>	<b>668,00</b>
Ø	mm	52	53	54	55	56	57	58	59	60						
Overall length	mm	412	412	417	417	417	422	422	422	422						
Helix length	mm	225	225	230	230	230	235	235	235	235						
Drive	C.M.	5	5	5	5	5	5	5	5	5						
<b>8500G</b>	<b>Each</b>	<b>688,00</b>	<b>776,00</b>	<b>747,00</b>	<b>767,00</b>	<b>826,00</b>	<b>816,00</b>	<b>875,00</b>	<b>963,00</b>	<b>934,00</b>						

\* Sizes running out of stock.

**8503G**



**HSS-E**

**Orig. Hartner - Art. 82011**

DIN 345. Type N. COBALT HSS-E. Cutting angle 118°.

Thinned cutting edge according to DIN 1412 A.

For steel up to R 1000 N/sqmm, cast iron, hardened cast iron, graphite, aluminium alloys, bronze and brass.

Morse taper shank.

Ø	mm	6	7*	8*	9	10	10,5	11*	11,5	12	12,5*	13	13,5	14	14,5	14,75*
Overall length	mm	138	150	156	162	168	168	175	175	182	182	182	189	189	212	212
Helix length	mm	57	69	75	81	87	87	94	94	101	101	101	108	108	114	114
Drive	C.M.	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
<b>8503G</b>	<b>Each</b>	<b>63,50</b>	<b>54,30</b>	<b>60,60</b>	<b>59,70</b>	<b>58,70</b>	<b>63,50</b>	<b>63,50</b>	<b>76,10</b>	<b>67,30</b>	<b>72,20</b>	<b>71,20</b>	<b>89,50</b>	<b>79,80</b>	<b>89,50</b>	<b>117,00</b>
Ø	mm	15	15,25	15,5	15,75	16	16,25	16,5	16,75	17	17,25	17,5	18	18,5	18,75*	19,5
Overall length	mm	212	218	218	218	218	223	223	223	223	228	228	228	233	233	238
Helix length	mm	114	120	120	120	120	125	125	125	125	130	130	130	135	135	140
Drive	C.M.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
<b>8503G</b>	<b>Each</b>	<b>91,40</b>	<b>129,00</b>	<b>93,30</b>	<b>112,00</b>	<b>97,20</b>	<b>131,00</b>	<b>102,00</b>	<b>125,00</b>	<b>102,00</b>	<b>122,00</b>	<b>97,20</b>	<b>104,00</b>	<b>119,00</b>	<b>110,00</b>	<b>142,00</b>

Prices in EURO - VAT not included

Ø	mm	19,75*	20	20,25*	20,5	21	21,25*	21,5	21,75*	22	22,5*	23	23,5*	24	24,5	25
Overall length	mm	238	238	243	243	243	248	248	248	248	253	253	276	281	281	281
Helix length	mm	140	140	145	145	145	150	150	150	150	155	155	155	160	160	160
Drive	C.M.	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3
<b>8503G</b>	<b>Each</b>	<b>137,00</b>	<b>120,00</b>	<b>159,00</b>	<b>132,00</b>	<b>143,00</b>	<b>189,00</b>	<b>187,00</b>	<b>203,00</b>	<b>165,00</b>	<b>191,00</b>	<b>186,00</b>	<b>188,00</b>	<b>214,00</b>	<b>227,00</b>	<b>214,00</b>
Ø	mm	25,5*	26	26,5	27	27,5	28	28,5	29	29,5*	30	31	31,5	32	33	34*
Overall length	mm	286	286	286	291	291	291	296	296	296	296	301	301	334	334	339
Helix length	mm	165	165	165	170	170	170	175	175	175	175	180	180	185	185	190
Drive	C.M.	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4
<b>8503G</b>	<b>Each</b>	<b>236,00</b>	<b>250,00</b>	<b>293,00</b>	<b>275,00</b>	<b>325,00</b>	<b>314,00</b>	<b>356,00</b>	<b>327,00</b>	<b>343,00</b>	<b>304,00</b>	<b>356,00</b>	<b>445,00</b>	<b>374,00</b>	<b>399,00</b>	<b>402,00</b>
Ø	mm	36*	37*	38	39	40*	42*	43	45*	46*	47*					
Overall length	mm	344	344	349	349	349	354	359	359	364	364					
Helix length	mm	195	195	200	200	200	205	210	210	215	215					
Drive	C.M.	4	4	4	4	4	4	4	4	4	4					
<b>8503G</b>	<b>Each</b>	<b>480,00</b>	<b>463,00</b>	<b>587,00</b>	<b>645,00</b>	<b>712,00</b>	<b>891,00</b>	<b>1.030,00</b>	<b>779,00</b>	<b>768,00</b>	<b>963,00</b>					

\* Sizes running out of stock.

**DRILLS FOR STAINLESS STEEL AND ALLOYS, RIGHT-HAND ROTATION**

**Orig. Hartner - Art. 82012**

DIN 345. Type IS Inox-Drill. COBALT HSS-E. Cutting angle 130°.

Particular drill geometry with special spiral flute and web shape for easier chip ejection.

For stainless steel V2A and V4A, aluminium and copper alloys.

Morse taper shank.



**INOX**

**8510G**



**HSS-E**

Ø	mm	10*	10,2*	10,5*	11,5	12*	12,8*	13,5*	14	14,25*	15	15,25*	15,75	16*	16,5	17
Overall length	mm	168	168	168	175	182	182	189	189	212	212	218	218	218	223	223
Helix length	mm	87	87	87	94	101	101	108	108	114	114	120	120	120	125	125
Drive	C.M.	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
<b>8510G</b>	<b>Each</b>	<b>61,50</b>	<b>63,50</b>	<b>63,50</b>	<b>105,00</b>	<b>86,10</b>	<b>84,10</b>	<b>115,00</b>	<b>98,10</b>	<b>125,00</b>	<b>118,00</b>	<b>128,00</b>	<b>140,00</b>	<b>105,00</b>	<b>133,00</b>	<b>118,00</b>
Ø	mm	17,25*	17,5	18	18,5*	20	21	22*	22,5*	23*	23,5*	24*	25*	26	27,5*	28*
Overall length	mm	228	228	228	233	238	243	248	253	253	276	281	281	286	291	291
Helix length	mm	130	130	130	135	140	145	150	155	155	160	160	160	165	170	170
Drive	C.M.	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
<b>8510G</b>	<b>Each</b>	<b>138,00</b>	<b>130,00</b>	<b>133,00</b>	<b>111,00</b>	<b>149,00</b>	<b>176,00</b>	<b>161,00</b>	<b>198,00</b>	<b>195,00</b>	<b>197,00</b>	<b>204,00</b>	<b>269,00</b>	<b>299,00</b>	<b>422,00</b>	<b>366,00</b>
Ø	mm	29*	29,5*	30*	31*	31,5*	32*									
Overall length	mm	296	296	296	301	301	334									
Helix length	mm	175	175	175	180	180	185									
Drive	C.M.	3	3	3	3	3	4									
<b>8510G</b>	<b>Each</b>	<b>297,00</b>	<b>431,00</b>	<b>283,00</b>	<b>454,00</b>	<b>529,00</b>	<b>486,00</b>									

\* Sizes running out of stock.

**CARBIDE TIPPED TWIST DRILLS, RIGHT-HAND ROTATION**

**Prod. SCU - Art. 89302**

DIN 8041. Type N. HSS body.

SOLID CARBIDE K 10/20 cutting edges.

Cutting angle 118°.

For high-resistance hardened steel, manganese, nickel, cast iron, bronze, brass, bakelite, glassfiber reinforced plastics, etc.

Morse taper shank.

**SCU**



**8512G**



**HARTMETALL**

Ø	mm	10	11*	11,5	12	12,5	13	14	14,5	15	16	17	18	19	20	23
Overall length	mm	140	140	146	146	146	146	168	168	168	175	175	185	185	215	225
Helix length	mm	50	50	56	56	56	56	63	63	63	70	70	80	80	90	100
Drive	C.M.	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3
<b>8512G</b>	<b>Each</b>	<b>75,20</b>	<b>61,30</b>	<b>85,30</b>	<b>76,70</b>	<b>97,40</b>	<b>94,10</b>	<b>94,10</b>	<b>116,00</b>	<b>102,00</b>	<b>105,00</b>	<b>110,00</b>	<b>110,00</b>	<b>113,00</b>	<b>147,00</b>	<b>178,00</b>
Ø	mm	24*	25													
Overall length	mm	225	225													
Helix length	mm	100	100													
Drive	C.M.	3	3													
<b>8512G</b>	<b>Each</b>	<b>163,00</b>	<b>184,00</b>													

\* Sizes running out of stock.

### 8513G

SCU



HARTMETALL

#### Prod. SCU

Similar to DIN 345. HSS body.  
SOLID CARBIDE cutting edges.  
Cutting angle 120°.

For manganese hardened steel, nickel, cast iron, bronze, brass, aluminium, bakelite, etc. with resistance ranging from R 700N/sqmm to R 2300 N/sqmm.

Morse taper shank.

Ø	mm	10	14,5	35	36	37	38	39	
Overall length	mm	168	212	339	344	344	349	349	
Helix length	mm	87	114	190	195	195	200	200	
Drive	C.M.	1	2	4	4	4	4	4	
	8513G	Each	51,10	62,30	443,00	414,00	447,00	468,00	494,00

Product running out of stock.

### LONG DRILLS FOR METALS, RIGHT-HAND ROTATION

### 8515G



HSS

#### Orig. Hartner - Art. 82210

DIN 341. Type N. HSS. Cutting angle 118°. LONG pattern.

For steel up to R 900N/sqmm, cast iron, spheroidal cast iron, aluminium and aluminium alloys, bronze and brass.

Morse taper shank.

Ø	mm	6,5*	7	7,5*	8	8,5	9,5*	10	10,5*	11	11,5*	12*	12,5	13	13,5	14
Overall length	mm	167	174	174	181	181	188	197	197	206	206	215	215	215	223	223
Helix length	mm	86	93	93	100	100	107	116	116	125	125	134	134	134	142	142
Drive	C.M.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8515G	Each	26,80	39,30	29,30	35,40	35,90	35,50	41,30	42,80	43,30	43,30	43,80	43,80	48,70	49,20

Ø	mm	14,5	15	15,5	16	16,5	17	17,5	18	18,5	19	19,5	20	20,5	21	21,5	
Overall length	mm	245	245	251	251	257	257	263	263	269	269	275	275	282	282	289	
Helix length	mm	147	147	153	153	159	159	165	165	171	171	177	177	184	184	191	
Drive	C.M.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	8515G	Each	62,90	60,90	60,10	64,90	68,80	67,80	76,70	76,70	85,50	83,50	97,30	91,40	116,00	106,00	126,00

Ø	mm	22	22,5	23	24	25	26	27	28	29	30	33	34	35	36	37*	
Overall length	mm	289	296	296	327	327	335	343	343	351	351	397	406	406	416	416	
Helix length	mm	191	198	198	206	206	214	222	222	230	230	248	257	257	267	267	
Drive	C.M.	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	
	8515G	Each	115,00	127,00	119,00	146,00	147,00	169,00	181,00	203,00	234,00	232,00	299,00	380,00	364,00	417,00	397,00

Ø	mm	38	39	40*	41*	43*	44*	47*	48*	49	50	
Overall length	mm	426	426	426	436	447	447	459	470	470	470	
Helix length	mm	277	277	277	287	298	298	310	321	321	321	
Drive	C.M.	4	4	4	4	4	4	4	4	4	4	
	8515G	Each	454,00	484,00	501,00	483,00	524,00	586,00	637,00	730,00	855,00	835,00

\* Sizes running out of stock.

### EXTRA-LONG DRILLS FOR METALS, RIGHT-HAND ROTATION

### 8520G



HSS

#### Orig. Hartner - Art. 82340

DIN 1870. Type FNR1. HSS. Cutting angle 130°, EXTRA-LONG pattern.

For steel up to 900 N/sqmm, cast iron, bronze and brass.

For deep holes up to 10 times the drill diameter, without chip discharge.

Morse taper shank.

Ø	mm	8	9	9,5*	10	10,5	11	11,5*	12	12,5*	13	13,5	14	15	16	17	
Overall length	mm	265	275	275	285	285	300	300	310	310	310	325	325	340	355	355	
Helix length	mm	165	175	175	185	185	195	195	205	205	205	220	220	220	230	230	
Drive	C.M.	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	
	8520G	Each	81,20	93,60	118,00	108,00	135,00	111,00	119,00	115,00	113,00	126,00	141,00	136,00	148,00	155,00	161,00

Ø	mm	17,5	18	18,5*	19	20	20,5	21	22	23	24	25	26,5*	28	28,5*	29*	
Overall length	mm	370	370	370	370	385	385	385	405	405	440	440	440	460	460	460	
Helix length	mm	245	245	245	245	260	260	260	270	270	290	290	290	305	305	305	
Drive	C.M.	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	
	8520G	Each	173,00	173,00	161,00	196,00	224,00	334,00	264,00	269,00	330,00	370,00	364,00	405,00	465,00	457,00	464,00

Ø	mm	30	
Overall length	mm	460	
Helix length	mm	305	
Drive	C.M.	3	
	8520G	Each	517,00

\* Sizes running out of stock.

**Orig. Hartner - Art. 82440**

DIN 1870. Type FNR2. HSS. Cutting angle 130°, EXTRA-LONG pattern.

For steel up to 900 N/sqmm, cast iron, bronze and brass.

For deep holes up to 10 times the drill diameter, without chip discharge.

Morse taper shank.



**8522G**



**HSS**

Ø	mm	<b>8*</b>	<b>9*</b>	<b>9,5*</b>	<b>10</b>	<b>10,5*</b>	<b>11*</b>	<b>12</b>	<b>13</b>	<b>13,5</b>	<b>14</b>	<b>14,5</b>	<b>15</b>	<b>15,5</b>	<b>16</b>	<b>16,5*</b>
Overall length	mm	330	345	345	360	360	375	395	395	410	410	425	425	445	445	445
Helix length	mm	210	220	220	235	235	250	260	260	275	275	275	275	295	295	295
Drive	C.M.	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2
<b>8522G</b>	<b>Each</b>	<b>117,00</b>	<b>107,00</b>	<b>175,00</b>	<b>131,00</b>	<b>189,00</b>	<b>139,00</b>	<b>184,00</b>	<b>194,00</b>	<b>207,00</b>	<b>199,00</b>	<b>210,00</b>	<b>202,00</b>	<b>242,00</b>	<b>207,00</b>	<b>199,00</b>
Ø	mm	<b>17</b>	<b>17,5</b>	<b>18</b>	<b>18,5*</b>	<b>19</b>	<b>19,5*</b>	<b>20</b>	<b>20,5*</b>	<b>21</b>	<b>21,5*</b>	<b>22</b>	<b>22,5*</b>	<b>23</b>	<b>23,5*</b>	<b>24</b>
Overall length	mm	445	465	465	465	465	490	490	490	515	515	515	515	535	535	555
Helix length	mm	295	310	310	310	310	325	325	325	345	345	345	345	345	345	365
Drive	C.M.	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3
<b>8522G</b>	<b>Each</b>	<b>233,00</b>	<b>242,00</b>	<b>251,00</b>	<b>254,00</b>	<b>285,00</b>	<b>263,00</b>	<b>309,00</b>	<b>263,00</b>	<b>334,00</b>	<b>332,00</b>	<b>393,00</b>	<b>378,00</b>	<b>458,00</b>	<b>414,00</b>	<b>451,00</b>
Ø	mm	<b>25</b>	<b>26</b>	<b>26,5*</b>	<b>27*</b>	<b>28</b>	<b>29</b>	<b>29,5*</b>								
Overall length	mm	555	555	555	580	580	580	580								
Helix length	mm	365	365	365	385	385	385	385								
Drive	C.M.	3	3	3	3	3	3	3								
<b>8522G</b>	<b>Each</b>	<b>454,00</b>	<b>551,00</b>	<b>547,00</b>	<b>521,00</b>	<b>700,00</b>	<b>677,00</b>	<b>857,00</b>								

\* Sizes running out of stock.

**LONG SERIES OIL FEED DRILLS, RIGHT HAND CUTTING**

**Orig. Hartner - Art. 82521**

DIN 341. Type N. HSS. Cutting angle 118°. Forced lubrication through internal cooling channels.

For steel up to R 900 N/sqmm, hardened cast iron, aluminium alloys, bronze and brass.

Morse taper shank.

Feeding through drive tang.



**8525G**

Ø	mm	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>18</b>	
Overall length	mm	224	233	251	251	259	255	270	273	
Helix length	mm	116	125	134	134	142	147	153	165	
Drive	C.M.	2	2	2	2	2	2	2	2	
<b>8525G</b>	<b>Each</b>	<b>238,00</b>	<b>242,00</b>	<b>246,00</b>	<b>229,00</b>	<b>246,00</b>	<b>258,00</b>	<b>268,00</b>	<b>287,00</b>	
Ø	mm	<b>19*</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	
Overall length	mm	303	309	320	327	342	342	350	385	
Helix length	mm	171	177	184	191	206	206	214	222	
Drive	C.M.	3	3	3	3	3	3	3	4	
<b>8525G</b>	<b>Each</b>	<b>388,00</b>	<b>312,00</b>	<b>341,00</b>	<b>361,00</b>	<b>388,00</b>	<b>448,00</b>	<b>485,00</b>	<b>493,00</b>	
Ø	mm	<b>28</b>	<b>29</b>	<b>30</b>	<b>32</b>	<b>34*</b>	<b>35*</b>	<b>40</b>		
Overall length	mm	385	393	393	421	430	430	450		
Helix length	mm	222	230	230	248	257	257	277		
Drive	C.M.	4	4	4	4	4	4	4		
<b>8525G</b>	<b>Each</b>	<b>598,00</b>	<b>567,00</b>	<b>639,00</b>	<b>732,00</b>	<b>828,00</b>	<b>883,00</b>	<b>1.120,00</b>		

\* Sizes running out of stock.



**HSS**

**Orig. Hartner - Art. 82522**

DIN 341. Type N. HSS. Cutting angle 118°. Forced lubrication through internal cooling channels.

For steel up to R 900 N/sqmm, hardened cast iron, aluminium alloys, bronze and brass.

Morse taper shank.

Side feeding through the middle part of the morse taper shank.



**8526G**

Ø	mm	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17*</b>
Overall length	mm	224	233	251	251	259	255	270	267
Helix length	mm	116	125	134	134	142	147	153	159
Drive	C.M.	2	2	2	2	2	2	2	2
<b>8526G</b>	<b>Each</b>	<b>238,00</b>	<b>242,00</b>	<b>246,00</b>	<b>229,00</b>	<b>246,00</b>	<b>258,00</b>	<b>268,00</b>	<b>268,00</b>
Ø	mm	<b>18</b>	<b>19*</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>24</b>	<b>25</b>	<b>26</b>
Overall length	mm	273	303	309	320	327	342	342	350
Helix length	mm	165	171	177	184	191	206	206	214
Drive	C.M.	2	3	3	3	3	3	3	3
<b>8526G</b>	<b>Each</b>	<b>287,00</b>	<b>388,00</b>	<b>312,00</b>	<b>341,00</b>	<b>361,00</b>	<b>388,00</b>	<b>448,00</b>	<b>485,00</b>
Ø	mm	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>32</b>	<b>34*</b>	<b>35*</b>	<b>40</b>
Overall length	mm	385	385	393	393	421	430	430	450
Helix length	mm	222	222	230	230	248	257	257	277
Drive	C.M.	4	4	4	4	4	4	4	4
<b>8526G</b>	<b>Each</b>	<b>493,00</b>	<b>598,00</b>	<b>567,00</b>	<b>639,00</b>	<b>732,00</b>	<b>828,00</b>	<b>883,00</b>	<b>1.120,00</b>

For coolant chucks for drills Art. 8526 G, see Art. 8637 GA-E.

\* Sizes running out of stock.



**HSS**

### 8527G



HSS

Orig. Hartner - Art. 82523

DIN 341. Type N. HSS. Cutting angle 118°. Forced lubrication through internal cooling channels. For steel up to R 900 N/sqmm, hardened cast iron, aluminium alloys, bronze and brass. Morse taper shank.

Side feeding through the end of the morse taper shank.



Ø	mm	10	11	12	13	14	15	16	17*
Overall length	mm	224	233	251	251	259	255	270	267
Helix length	mm	116	125	134	134	142	147	153	159
Drive	C.M.	2	2	2	2	2	2	2	2
<b>8527G</b>	<b>Each</b>	<b>238,00</b>	<b>242,00</b>	<b>246,00</b>	<b>229,00</b>	<b>246,00</b>	<b>258,00</b>	<b>268,00</b>	<b>268,00</b>
Ø	mm	18	19*	20	21	22	24	25	26
Overall length	mm	282	303	309	320	327	342	342	350
Helix length	mm	165	171	177	184	191	206	206	214
Drive	C.M.	2	3	3	3	3	3	3	3
<b>8527G</b>	<b>Each</b>	<b>287,00</b>	<b>388,00</b>	<b>312,00</b>	<b>341,00</b>	<b>361,00</b>	<b>388,00</b>	<b>448,00</b>	<b>485,00</b>
Ø	mm	27	28	29	30	32	34*	35*	40
Overall length	mm	385	385	393	393	421	430	430	450
Helix length	mm	222	222	230	230	248	257	257	277
Drive	C.M.	4	4	4	4	4	4	4	4
<b>8527G</b>	<b>Each</b>	<b>493,00</b>	<b>598,00</b>	<b>567,00</b>	<b>639,00</b>	<b>732,00</b>	<b>828,00</b>	<b>883,00</b>	<b>1.120,00</b>

\* Sizes running out of stock.

#### STRAIGHT SHANK SUBLAND DRILLS 90° INCLUDED ANGLE RIGHT, HAND CUTTING

### 8538G



HSS

Orig. Hartner - Art. 85920

Type N. HSS. Cutting angle 118°. Countersinking angle 90°. Cylindrical shank.



For screws	M.	3	4	5	6	8	10	12
Guide tip Ø d	mm	2,5	3,3	4,2	5	6,8	8,5	10,2
Countersink D Ø	mm	3,4	4,5	5,5	6,6	9	11	13,5
Guiding spiral l length	mm	8,8	11,4	13,6	16,5	21	25,5	30
Spiral total length.	mm	20	24	28	31	40	47	54
Overall length	mm	52	58	66	70	84	95	107
<b>8538G</b>	<b>Each</b>	<b>25,30</b>	<b>25,30</b>	<b>27,90</b>	<b>29,40</b>	<b>35,60</b>	<b>45,40</b>	<b>60,90</b>

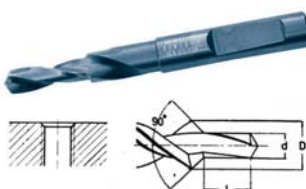
### 8538GE



HARTMETALL

Orig. Hartner - Art. 89254

Type N. SOLID CARBIDE. Cutting angle 120°. Countersinking angle 90°. Cylindrical shank according to DIN 6535 HE.



For screws	M.	5	6	8
Guide tip Ø d	mm	4,2	5	6,8
Countersink D Ø	mm	5,5	6,6	9
Guiding spiral l length	mm	13,6	16,5	21
Spiral overall length	mm	28	31	40
Overall length	mm	66	70	84
Drive Ø	mm	6	8	10
<b>8538GE</b>	<b>Each</b>	<b>83,90</b>	<b>119,00</b>	<b>157,00</b>

#### STRAIGHT SHANK SUBLAND DRILLS 90° INCLUDED ANGLE, RIGHT HAND CUTTING

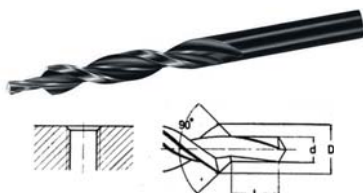
### 8539G



HSS

Orig. Hartner - Art. 85310

DIN 8378. Type N. HSS. Cutting angle 118°. With independent flutes. Small spiral flute for drilling. Big spiral flute with 90° countersinking angle. Cylindrical shank.



For screws	M.	3	4	5	6	8	10	12
Guide tip Ø d	mm	2,5	3,3	4,2	5	6,8	8,5	10,2
Countersink D Ø	mm	3,4	4,5	5,5	6,6	9	11	13,5
Guiding spiral l length	mm	8,8	11,4	13,6	16,5	21	25,5	30
Spiral total length.	mm	39	47	57	63	81	94	108
Overall length	mm	70	80	93	101	125	142	160
<b>8539G</b>	<b>Each</b>	<b>38,20</b>	<b>39,20</b>	<b>40,20</b>	<b>45,90</b>	<b>53,60</b>	<b>65,10</b>	<b>93,80</b>

#### STRAIGHT SHANK SUBLAND DRILLS 180° INCLUDED ANGLE, RIGHT HAND CUTTING

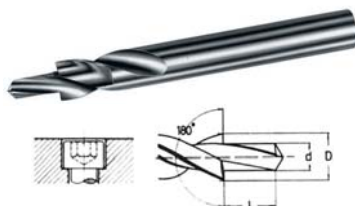
### 8540G



HSS

Orig. Hartner - Art. 85918

Type N. HSS. Cutting angle 118°. 180° angle, for seats of embedded flat die screws. Cylindrical shank.



For screws	M.	3	4	5	6	8	10
Guide tip Ø d	mm	3,4	4,5	5,5	6,6	9	11
Countersink D Ø	mm	6	8	10	11	15	18
Guiding spiral l length	mm	9	11	13	15	19	23
Spiral total length.	mm	28	37	43	47	56	62
Overall length	mm	66	79	89	95	111	123
<b>8540G</b>	<b>Each</b>	<b>29,90</b>	<b>32,10</b>	<b>40,20</b>	<b>46,40</b>	<b>57,80</b>	<b>93,80</b>



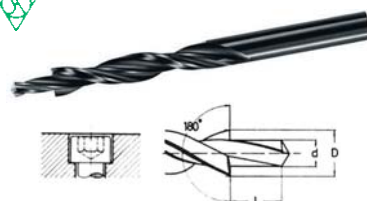
**STRAIGHT SHANK SUBLAND DRILLS 180° INCLUDED ANGLE, RIGHT HAND CUTTING**

**Orig. Hartner - Art. 85210**

DIN 8376. Type N. HSS. Cutting angle 118°.  
With independent flutes. Small spiral flute for drilling.  
180° flat stepped bigger spiral flute.

Cylindrical shank.

For screws	M.	3	4	5	6	8	10
Guide tip Ø d	mm	3,4	4,5	5,5	6,6	9	11
Countersink D Ø	mm	6	8	10	11	15	18
Guiding spiral l length	mm	9	11	13	15	19	23
Spiral total length.	mm	57	75	87	94	114	130
Overall length	mm	93	117	133	142	169	191
<b>8546G</b>	<b>Each</b>	<b>43,80</b>	<b>49,10</b>	<b>58,80</b>	<b>68,10</b>	<b>85,60</b>	<b>179,00</b>



**8546G**

**HSS**

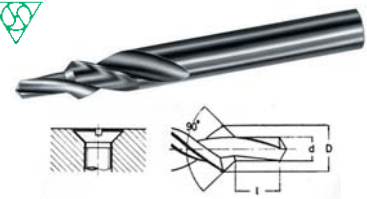
**STRAIGHT SHANK SUBLAND DRILLS 90° INCLUDED ANGLE, RIGHT HAND CUTTING**

**Orig. Hartner - Art. 85916**

Type N. HSS. Cutting angle 118°.  
90° countersinking angle for countersink-head screw seats. FINE tolerance.

Cylindrical shank.

For screws	M.	3	4	5	6	8	10
Guide tip Ø d	mm	3,2	4,3	5,3	6,4	8,4	10,5
Countersink D Ø	mm	6	8	10	11,5	15	19
Guiding spiral l length	mm	9	11	13	15	19	23
Spiral total length.	mm	28	37	43	47	56	64
Overall length	mm	66	79	89	95	111	127
<b>8552G</b>	<b>Each</b>	<b>29,40</b>	<b>32,50</b>	<b>41,80</b>	<b>49,50</b>	<b>62,90</b>	<b>94,90</b>



**8552G**

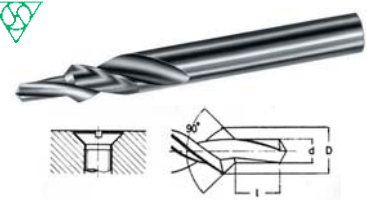
**HSS**

**Orig. Hartner - Art. 85917**

Type N. HSS. Cutting angle 118°.  
90° countersinking angle for countersink-head screw seats. MEDIUM tolerance.

Cylindrical shank.

For screws	M.	3	4	5	6	8
Guide tip Ø d	mm	3,4	4,5	5,5	6,6	9
Countersink D Ø	mm	6,6	9	11	13	17,2
Guiding spiral l length	mm	9	11	13	15	19
Spiral total length.	mm	31	40	47	51	62
Overall length	mm	70	84	95	102	123
<b>8553G</b>	<b>Each</b>	<b>31,10</b>	<b>35,60</b>	<b>48,50</b>	<b>57,80</b>	<b>92,80</b>



**8553G**

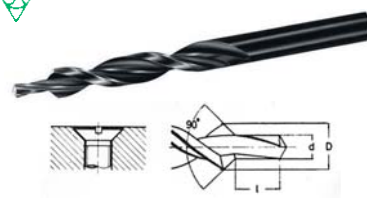
**HSS**

**STRAIGHT SHANK SUBLAND DRILLS 90° INCLUDED ANGLE, RIGHT HAND CUTTING**

**Orig. Hartner - Art. 85010**

DIN 8374. Type N. HSS. Cutting angle 118°. With independent flutes.  
Small spiral flute for drilling. Bigger spiral flute with 90° countersinking angle for countersink-head screw seats. FINE tolerance. Cylindrical shank.

For screws	M.	3	4	5	6	8
Guide tip Ø d	mm	3,2	4,3	5,3	6,4	8,4
Countersink D Ø	mm	6	8	10	11,5	15
Guiding spiral l length	mm	9	11	13	15	19
Spiral total length.	mm	57	75	87	94	114
Overall length	mm	93	117	133	142	169
<b>8558G</b>	<b>Each</b>	<b>44,90</b>	<b>52,60</b>	<b>63,90</b>	<b>74,30</b>	<b>127,00</b>



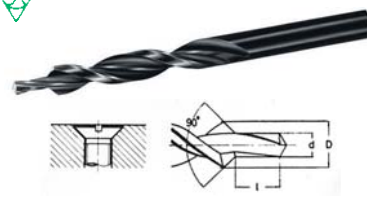
**8558G**

**HSS**

**Orig. Hartner - Art. 85110**

DIN 8374. Type N. HSS. Cutting angle 118°. With independent flutes.  
Small spiral flute for drilling. Bigger spiral flute with 90° countersinking angle for countersink-head screw seats. MEDIUM tolerance. Cylindrical shank.

For screws	M.	3	4	5	6	8
Guide tip Ø d	mm	3,4	4,5	5,5	6,6	9
Countersink D Ø	mm	6,6	9	11	13	17,2
Guiding spiral l length	mm	9	11	13	15	19
Spiral total length.	mm	63	81	94	101	130
Overall length	mm	101	125	142	151	191
<b>8559G</b>	<b>Each</b>	<b>52,60</b>	<b>62,90</b>	<b>74,30</b>	<b>113,00</b>	<b>189,00</b>



**8559G**

**HSS**

**STRAIGHT SHANK DRILLS FOR THREADED 60° CENTRE HOLES, RIGHT HAND CUTTING**

**8573G**



**HSS**

**Orig. Hartner - Art. 85912**

DIN 1414. Type N. HSS. Cutting angle 118°.  
 With independent flutes. Small spiral flute for drilling.  
 Bigger spiral flute with 60° countersinking angle.  
 Suitable for centerings to be threaded. To be used with automatic machines.  
 Cylindrical shank.

For screws	M.	4	5	6	8	10	12
Guide tip Ø	mm	3,3	4,2	5	6,8	8,5	10,2
Countersink Ø	mm	8	10	12,5	14	16	20
Spiral length	mm	23	27	33	41	47	59
Guide tip length	mm	11	13	16	19,5	23	28
Overall length	mm	63	67	71	88	94	105
<b>8573G</b>	<b>Each</b>	<b>92,80</b>	<b>94,90</b>	<b>110,00</b>	<b>121,00</b>	<b>131,00</b>	<b>171,00</b>

**8575G**



**HSS**

**Orig. Hartner - Art. 85910**

DIN 1414. Type N. HSS. Cutting angle 118°.  
 With independent flutes. Small spiral flute for drilling. Bigger spiral flute with 60° countersinking angle.  
 Suitable for centerings to be threaded. To be used with automatic machines. Cylindrical shank with flat side surface and external lubrication channels.

For screws	M.	4	5	6	8	10	12	16	20
Guide tip Ø	mm	3,3	4,2	5	6,8	8,5	10,2	14	17,5
Countersink Ø	mm	8	10	12,5	14	16	20	25	31,5
Spiral length	mm	23	27	33	41	47	59	67	76
Guide tip length	mm	11	13	16	19,5	23	28	33	38
Overall length	mm	63	67	71	88	94	105	132	145
<b>8575G</b>	<b>Each</b>	<b>96,90</b>	<b>111,00</b>	<b>121,00</b>	<b>115,00</b>	<b>131,00</b>	<b>172,00</b>	<b>242,00</b>	<b>326,00</b>

**8576G**



**HSS**

**Orig. Hartner - Art. 85911**

DIN 1414. Type N. HSS. Cutting angle 118°.  
 With independent flutes. Small spiral flute for drilling.  
 Bigger spiral flute with 60° countersinking angle, with rounded chamfer.  
 Suitable for for centerings to be threaded. To be used with automatic machines.  
 Cylindrical shank with flat side surface and external lubrication channels.

For screws	M.	4	5	6	8	10	12	16
Guide tip Ø	mm	3,3	4,2	5	6,8	8,5	10,2	14
Countersink Ø	mm	8	10	12,5	14	16	20	25
Spiral length	mm	23	27	33	41	47	59	67
Guide tip length	mm	11	13	16	19,5	23	28	33
Overall length	mm	63	67	71	88	94	105	132
<b>8576G</b>	<b>Each</b>	<b>104,00</b>	<b>113,00</b>	<b>124,00</b>	<b>126,00</b>	<b>147,00</b>	<b>189,00</b>	<b>262,00</b>

Sizes M 12 running out of stock.

**STRAIGHT SHANK SUBLAND DRILLS 180° INCLUDED ANGLE,, RIGHT HAND CUTTING**

**8584G**



**HSS**

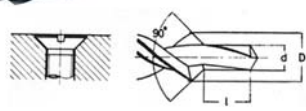
**Orig. Hartner - Art. 85610**

DIN 8377. Type N. HSS.  
 Cutting angle 118°.  
 With independent flutes. Small spiral flute for drilling.  
 180° flat stepped bigger spiral flute.  
 Morse taper shank.

For screws	M.	5	6	8	10	12	14	16	20
Guide tip Ø d	mm	5,5	6,6	9	11	13,5	15,5	17,5	22
Countersink D Ø	mm	10	11	15	18	20	24	26	33
Guiding spiral l length	mm	13	15	19	23	27	31	35	43
Spiral total length.	mm	87	94	114	130	140	160	165	185
Overall length	mm	168	175	212	228	238	281	286	334
Drive	C.M.	1	1	2	2	2	3	3	4
<b>8584G</b>	<b>Each</b>	<b>90,70</b>	<b>89,70</b>	<b>112,00</b>	<b>152,00</b>	<b>182,00</b>	<b>238,00</b>	<b>275,00</b>	<b>394,00</b>

**STRAIGHT SHANK SUBLAND DRILLS 90° INCLUDED ANGLE, RIGHT HAND CUTTING**

**8587G**



**HSS**

**Orig. Hartner - Art. 85510**

DIN 8375. Type N. HSS. Cutting angle 118°.  
 With independent flutes. Small spiral flute for drilling.  
 Bigger spiral flute with 90° countersinking angle for countersink-head screw seats.  
 Morse taper shank.

For screws	M.	5	6	8	10
Guide tip Ø d	mm	5,5	6,6	9	11
Countersink D Ø	mm	11	13	17,2	21,5
Guiding spiral l length	mm	13	15	19	23
Spiral total length.	mm	94	101	130	150
Overall length	mm	175	182	228	248
Drive	C.M.	1	1	2	2
<b>8587G</b>	<b>Each</b>	<b>78,50</b>	<b>116,00</b>	<b>143,00</b>	<b>213,00</b>

Sizes M 5 - 6 and 10 running out of stock.

**STRAIGHT SHANK SUBLAND DRILLS 90° INCLUDED ANGLE, RIGHT HAND CUTTING**

**Orig. Hartner - Art. 85710**

DIN 8379. Type N. HSS. Cutting angle 118°.  
With independent flutes. Small spiral flute for drilling.  
Bigger spiral flute with 90° countersinking angle.  
Morse taper shank.



**8590G**

For screws	M.	<b>8</b>	<b>10</b>	<b>14</b>	<b>16</b>	<b>20</b>
Guide tip Ø d	mm	6,8	8,5	12	14	17,5
Countersink D Ø	mm	9	11	15,5	17,5	22
Guiding spiral l length	mm	21	25,5	34,5	38,5	47,5
Spiral total length.	mm	81	94	120	130	150
Overall length	mm	162	175	218	228	248
Drive	C.M.	1	1	2	2	2
<b>8590G</b>	<b>Each</b>	<b>82,50</b>	<b>85,60</b>	<b>152,00</b>	<b>158,00</b>	<b>215,00</b>



**HSS**

Sizes M 14 and 20 running out of stock.

**CENTRE DRILLS**

**Orig. Hartner - Art. 83100**

DIN 333. Form A. Cutting angle 118°.  
For drilling metals and steel. 60° countersink taper.  
HSS. Right-hand cutting.



**8600G**  
**8600GS**

Tip Ø	mm	<b>0,5</b>	<b>0,8</b>	<b>1</b>	<b>1,25</b>	<b>1,6</b>	<b>2</b>	<b>2,5</b>
Body Ø	mm	3,15	3,15	3,15	3,15	4	5	6,3
Overall length	mm	25	25	31,5	31,5	35,5	40	45
<b>8600G</b>	<b>Each</b>	<b>9,92</b>	<b>9,54</b>	<b>8,74</b>	<b>10,30</b>	<b>8,74</b>	<b>8,36</b>	<b>9,92</b>
Tip Ø	mm	<b>3,15</b>	<b>4</b>	<b>5</b>	<b>6,3</b>	<b>8</b>	<b>10</b>	
Body Ø	mm	8	10	12,5	16	20	25	
Overall length	mm	50	56	63	71	80	100	
<b>8600G</b>	<b>Each</b>	<b>14,10</b>	<b>20,20</b>	<b>28,50</b>	<b>41,80</b>	<b>65,90</b>	<b>132,00</b>	



**HSS**

Art. 8600 G 0.5 and 0.8mm are supplied with one cutting edge only.

**Orig. Hartner - Art. 83105**

Product description as Art. 8600G  
HSS. Left-hand cutting.

Tip Ø	mm	<b>1</b>	<b>1,6</b>	<b>2</b>	<b>2,5</b>	<b>3,15</b>	<b>4</b>
Body Ø	mm	3,15	4	5	6,3	8	10
Overall length	mm	31,5	35,5	40	45	50	56
<b>8600GS</b>	<b>Each</b>	<b>13,40</b>	<b>13,50</b>	<b>15,20</b>	<b>15,70</b>	<b>20,10</b>	<b>27,40</b>

**Orig. Hartner - Art. 83101**

Product description as Art. 8600G  
COBALT HSS-E. Right-hand cutting.



**8601G**

Tip Ø	mm	<b>1</b>	<b>1,6</b>	<b>2</b>	<b>2,5</b>	<b>3,15</b>	<b>4</b>
Body Ø	mm	3,15	4	5	6,3	8	10
Overall length	mm	31,5	35,5	40	45	50	56
<b>8601G</b>	<b>Each</b>	<b>17,80</b>	<b>18,70</b>	<b>18,90</b>	<b>20,70</b>	<b>26,30</b>	<b>37,70</b>



**HSS-E**

**Orig. Hartner - Art. 84450**

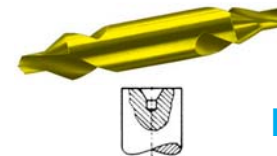
DIN 333. Form A. Cutting angle 118°. TIN-coated HSS.  
For drilling metals and steel. Right-hand cutting. 60° countersink taper.



**TIN**

**8601GT**

Tip Ø	mm	<b>1</b>	<b>1,25</b>	<b>1,6</b>	<b>2</b>	<b>2,5</b>	<b>3,15</b>	<b>4</b>
Body Ø	mm	3,15	3,15	4	5	6,3	8	10
Overall length	mm	31,5	31,5	35,5	40	45	50	56
<b>8601GT</b>	<b>Each</b>	<b>23,30</b>	<b>26,60</b>	<b>21,50</b>	<b>22,70</b>	<b>26,60</b>	<b>32,10</b>	<b>52,10</b>



**HSS**

**Prod. SCU**

DIN 333. Form A. Cutting angle 118°. SOLID CARBIDE.  
For drilling metals and hard steel. Right-hand cutting. 60° countersink taper.



**8601GV**

Tip Ø	mm	<b>1</b>	<b>1,6</b>	<b>2</b>	<b>2,5</b>	<b>3,15</b>	<b>4</b>
Body Ø	mm	3,15	4	5	6,3	8	10
Overall length	mm	31	40	40	45	50	56
<b>8601GV</b>	<b>Each</b>	<b>33,10</b>	<b>38,10</b>	<b>43,40</b>	<b>48,50</b>	<b>61,20</b>	<b>72,10</b>



**HARTMETALL**

### LONG CENTRE DRILLS

**8602G****HSS****Orig. Hartner - Art. 83110**

DIN 333. Form A. Cutting angle 118°.

HSS

For drilling metals and steel. Right-hand cutting.

60° countersink taper. Total length 120mm.

Tip Ø	mm	1	1,6	2	2,5	3,15	
Body Ø	mm	4	5	6	8	10	
	<b>8602G</b>	<b>Each</b>	<b>23,20</b>	<b>22,70</b>	<b>21,20</b>	<b>25,30</b>	<b>49,10</b>

### REINFORCED CENTRE DRILLS

**8603G****HSS****Orig. Hartner - Art. 83200**

DIN 333. Form A. Reinforced type. Cutting angle 118°.

HSS. For drilling metals and steel. Right-hand cutting.

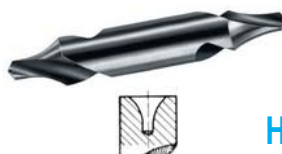
With protective chamfer.

60°/120° countersink taper.

Two working processes with one single operation.

Tip Ø	mm	1,6	2	2,5	3,15	4	5	6,3	
Body Ø	mm	6,3	8	10	11,2	14	18	20	
Overall length	mm	45	50	56	60	67	75	80	
	<b>8603G</b>	<b>Each</b>	<b>14,80</b>	<b>16,30</b>	<b>19,80</b>	<b>28,90</b>	<b>36,60</b>	<b>46,40</b>	<b>74,30</b>

### CENTRE DRILLS

**8606G****HSS****Orig. Hartner - Art. 83000**

DIN 333. Form R. Radius type. Cutting angle 118°.

HSS.

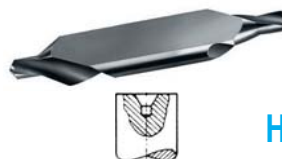
For drilling metal and steel. Right-hand cutting.

For creating arc countersinks, with progressive taper up to 60°.

Tip Ø	mm	1	1,25	1,6	2	2,5	3,15	4	
Body Ø	mm	3,15	3,15	4	5	6,3	8	10	
Overall length	mm	31,5	31,5	35,5	40	45	50	56	
	<b>8606G</b>	<b>Each</b>	<b>9,08</b>	<b>10,40</b>	<b>8,66</b>	<b>8,76</b>	<b>10,50</b>	<b>14,10</b>	<b>19,40</b>

Tip Ø	mm	5	6,3	
Body Ø	mm	12,5	16	
Overall length	mm	63	71	
	<b>8606G</b>	<b>Each</b>	<b>29,40</b>	<b>43,80</b>

### CENTRE DRILLS WITH FLATTED BODY

**8608G****HSS****Orig. Hartner - Art. 83600**

DIN 333. Form A. Cutting angle 118°.

With flatted body. HSS

For drilling metals and steel. Right-hand cutting.

60° countersink taper.

Tip Ø	mm	1,6	2	2,5	3,15	4	5	6,3	
Body Ø	mm	4	5	6,3	8	10	12,5	16	
Overall length	mm	35,5	40	45	50	56	63	71	
	<b>8608G</b>	<b>Each</b>	<b>14,80</b>	<b>12,20</b>	<b>14,20</b>	<b>18,10</b>	<b>25,30</b>	<b>38,70</b>	<b>68,10</b>

**8609G****HSS****Orig. Hartner - Art. 83700**

DIN 333. Form B. Reinforced type. Cutting angle 118°.

With flatted body. HSS.

For drilling metal and steel. Right-hand cutting.

With protective chamfer. 60°/120° countersink taper.

Two working processes with one single operation.

Tip Ø	mm	1,6	2	2,5	3,15	4	
Body Ø	mm	6,3	8	10	11,2	14	
Overall length	mm	45	50	56	60	67	
	<b>8609G</b>	<b>Each</b>	<b>19,80</b>	<b>22,70</b>	<b>27,40</b>	<b>39,20</b>	<b>46,40</b>

Size mm 1,6 running out of stock.

**8610G****HSS****Orig. Hartner - Art. 83500**

DIN 333. Form R. Radius type. Cutting angle 118°.

With flatted body. HSS.

For drilling metal and steel. Right-hand cutting.

For creating arch countersinks, with progressive taper up to 60°.

Tip Ø	mm	1,6	2	2,5	3,15	4	5	6,3	
Body Ø	mm	4	5	6,3	8	10	12,5	16	
Overall length	mm	35,5	40	45	50	56	63	71	
	<b>8610G</b>	<b>Each</b>	<b>13,10</b>	<b>12,20</b>	<b>13,30</b>	<b>18,10</b>	<b>25,30</b>	<b>37,10</b>	<b>65,10</b>

**TANGED STRAIGHT SHANK SPOTTING DRILLS, RIGHT HAND CUTTING**
**Orig. Hartner - Art. 81191**

Type N. EXTRA-SHORT pattern.  
HSS.

Very short spiral flute. It replaces pre-holes obtained by using drill bushes.  
Perfect centring also on inclined surfaces.  
Cylindrical shank.

With 120° cutting angle.

Ø	mm	3	4	5	6	8	10	12	16	20
Helix length	mm	12	12	14	16	21	25	30	37	45
Overall length	mm	46	55	62	66	79	89	102	115	131
<b>8612G</b>	<b>Each</b>	<b>13,50</b>	<b>13,30</b>	<b>14,50</b>	<b>14,20</b>	<b>23,60</b>	<b>26,50</b>	<b>38,50</b>	<b>50,00</b>	<b>80,80</b>


**8612G**

**HSS**
**Orig. Hartner - Art. 81192**

Product description as Art. 8612G

With 90° cutting angle.

Ø	mm	3	4	5	6	8	10	12	16	20
Helix length	mm	12	12	14	16	21	25	30	37	45
Overall length	mm	46	55	62	66	79	89	102	115	131
<b>8613G</b>	<b>Each</b>	<b>13,50</b>	<b>13,30</b>	<b>13,80</b>	<b>14,20</b>	<b>23,60</b>	<b>26,50</b>	<b>38,50</b>	<b>50,00</b>	<b>80,80</b>


**8613G**

**HSS**
**TUNGSTEN-CARBIDE STUB DRILLS, RIGHT HAND CUTTING**
**Orig. Hartner - Art. 89242**

Type N. EXTRA-SHORT pattern.

SOLID CARBIDE up to 10mm.

For manganese high-resistance steel, cast iron, aluminium alloys with high silicium content and difficult to chip materials.

Cylindrical shank.

With 120° cutting angle.

Ø	mm	5	6	8	10	12	16	20
Helix length	mm	14	16	21	25	30	37	45
Overall length	mm	62	66	79	89	102	115	131
<b>8615G</b>	<b>Each</b>	<b>38,40</b>	<b>40,50</b>	<b>63,70</b>	<b>89,70</b>	<b>122,00</b>	<b>223,00</b>	<b>376,00</b>


**8615G**

**HARTMETALL**
**Orig. Hartner - Art. 89243**

Product description as Art. 8615G

With 90° cutting angle.

Ø	mm	5	6	8	10	12	16	20
Helix length	mm	14	16	21	25	30	37	45
Overall length	mm	62	66	79	89	102	115	131
<b>8616G</b>	<b>Each</b>	<b>35,50</b>	<b>39,10</b>	<b>60,00</b>	<b>86,80</b>	<b>116,00</b>	<b>214,00</b>	<b>365,00</b>


**8616G**

**HARTMETALL**
**STUB DRILLS FOR SPOT WELDS**
**Prod. SCU**

EXTRA-SHORT type (SPOLTE-DRILL), self-centring. COBALT HSS-E, TIN coating.

For welding points and beads.

Special shank to fit pneumatic equipment.

Ø 8mm, overall length 40mm.

<b>8616GT</b>	<b>Each</b>	<b>13,10</b>
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**SCU**
**8616GT**

**HSS-E TIN**

EXTRA-SHORT type, self-centring. COBALT HSS-E.

For welding points and beads.

To be used also with hand drills.

Cylindrical shank. RIGHT-HAND rotation.

Ø	mm	6	7	8	10
Overall length	mm	66	74	79	89
<b>8617G</b>	<b>Each</b>	<b>6,40</b>	<b>7,46</b>	<b>8,52</b>	<b>14,20</b>

**SCU**
**8617G**

**HSS-E**

EXTRA-SHORT type, self-centring. COBALT HSS-E, TIN coating.

For welding points and beads.

To be used also with hand drills.

Cylindrical shank. RIGHT-HAND rotation.

Ø	mm	6	7	8	10
Overall length	mm	66	74	79	89
<b>8617GA</b>	<b>Each</b>	<b>9,94</b>	<b>11,00</b>	<b>12,10</b>	<b>17,80</b>

**SCU**
**8617GA**

**HSS-E TIN**

**DOUBLE END DRILLS, RIGHT HAND CUTTING**

8617GE

SCU



HSS

Prod. SCU

Type N. Cutting angle 118°. HSS. BI-FRONT pattern.

For mechanics, carpenters, tinsmiths, for welding points and rivet applications.

To be used also with hand drills.

Cylindrical shank. RIGHT-HAND rotation. Packing unit: 10pcs, not sold separately.

Ø	mm	3	3,1	3,2	3,3	3,5	4	4,1	4,2
Helix length	mm	11	11	11	11	12	14	14	14
Overall length	mm	46	49	49	49	52	55	55	55
<b>8617GE</b>	<b>Per pack</b>	<b>11,20</b>	<b>12,70</b>	<b>12,70</b>	<b>12,70</b>	<b>14,90</b>	<b>16,40</b>	<b>16,40</b>	<b>16,40</b>
Ø	mm	4,5	4,8	5	5,1	5,2	5,5	6	
Helix length	mm	16	17	17	17	17	19	19	
Overall length	mm	58	62	62	62	62	66	66	
<b>8617GE</b>	<b>Per pack</b>	<b>18,40</b>	<b>20,40</b>	<b>20,40</b>	<b>21,10</b>	<b>21,10</b>	<b>27,10</b>	<b>27,10</b>	

**DOUBLE END DRILLS, RIGHT HAND CUTTING**

8618G



HSS

Orig. Hartner - Art. 81190

Type N. Cutting angle 118°. HSS. DOUBLE-END pattern.

For mechanics, carpenters, tinsmiths, for welding points and rivet applications.

To be used also with hand drills.

Cylindrical shank. RIGHT-HAND rotation.

Ø	mm	2	2,5	3	3,5	4	4,5	5
Helix length	mm	7	9	10	12	14	15	17
Overall length	mm	38	43	46	52	55	58	62
<b>8618G</b>	<b>Each</b>	<b>3,86</b>	<b>3,76</b>	<b>3,70</b>	<b>3,66</b>	<b>3,66</b>	<b>5,10</b>	<b>4,66</b>
Ø	mm	5,5	6	7	8			
Helix length	mm	19	19	23,6	25			
Overall length	mm	66	66	74	79			
<b>8618G</b>	<b>Each</b>	<b>6,92</b>	<b>7,70</b>	<b>7,38</b>	<b>10,90</b>			

Sizes mm 7 and 8 running out of stock.

**MILLS FOR SPOT WELDS**

8618GE

SCU



HSS

Prod. SCU

Model with crown gear head, reversible, milled and ground Ø 10mm. HSS.

For mechanics, carpenters, tinsmiths, for removing welding points without sheet deformation.

Hex drive 7mm. Interchangeable centering bit.

Overall length 72mm.

<b>8618GE</b>	<b>Each</b>	<b>17,10</b>
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Spare crown gear head for Art. 8618 GE, length 14mm.

<b>O8618GE</b>	<b>Each</b>	<b>8,78</b>
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Spare centering bit for Art. 8618 GE, length 23mm.

<b>O8618GE 1</b>	<b>Each</b>	<b>1,00</b>
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**MILLING DRILLS**

8618GL

SCU



HSS

Prod. SCU

Combined model, tipped/splined, provided with chip-breaker for milling sheets and thin materials. HSS, cutting angle 118°, overall length 90mm.

Ø	mm	6	8
<b>8618GL</b>	<b>Each</b>	<b>8,28</b>	<b>13,10</b>

**TAPER PIN TWIST DRILLS**

8619G



HSS

Orig. Hartner - Art. 81810

DIN 1898/1 – Type N. Cutting angle 118°.

HSS. For conical pins according to DIN 1 and DIN 7978. Taper 1:50.

Cylindrical shank. RIGHT-HAND rotation.

Rated Ø	mm	2,5	3	4	5	6	8	10
Helix length	mm	48	63	74	81	114	157	190
Overall length	mm	86	100	112	122	160	207	245
Drive Ø	mm	3,15	4	5	6,3	8	10	12,50
<b>8619G</b>	<b>Each</b>	<b>34,90</b>	<b>51,10</b>	<b>54,70</b>	<b>67,10</b>	<b>71,20</b>	<b>115,00</b>	<b>153,00</b>

Size mm 2,5 running out of stock.

**Orig. Dürr - Art. 121-11**

DIN 1898A – Type N. Cutting angle 118°.  
HSS. For conical pins according to DIN 1 and DIN 7978. Taper 1:50.  
Cylindrical shank. RIGHT-HAND rotation.

Rated Ø	mm	1,5	2	2,5	3	4	5	6	8
Helix length	mm	34	48	48	58	68	73	105	145
Overall length	mm	64	86	86	100	112	122	160	207
Drive Ø	mm	2	3,15	3,15	4	5	6,3	8	10
<b>8619GE</b>	<b>Each</b>	<b>60,90</b>	<b>52,70</b>	<b>57,60</b>	<b>59,20</b>	<b>64,20</b>	<b>74,00</b>	<b>85,60</b>	<b>112,00</b>

Rated Ø	mm	10	12
Helix length	mm	175	210
Overall length	mm	245	290
Drive Ø	mm	12,50	16
<b>8619GE</b>	<b>Each</b>	<b>160,00</b>	<b>227,00</b>



**8619GE**



HSS

**Orig. Dürr - Art. 121-41**

Product description as Art. 8619GE  
Morse taper shank. RIGHT-HAND rotation.

Rated Ø	mm	16	20	25
Helix length	mm	250	260	362
Overall length	mm	362	393	430
Drive	C.M.	2	3	3
<b>8619GP</b>	<b>Each</b>	<b>435,00</b>	<b>589,00</b>	<b>882,00</b>



**8619GP**



HSS

**CORE DRILLS**

**Orig. Hartner - Art. 86010**

DIN 344 – Type N.  
HSS.  
3-fluted type.  
For enlarging holes previously obtained, through drilling, punching and fusion.  
The drill is not able to make holes from full load.  
Cylindrical drive shank. RIGHT-HAND rotation.

Effective broadening Ø	mm	4,8	5*	5,8	6	6,8*	8*	9,8	10	10,7	11,75	12	12,75*	13
Pre-bore min Ø	mm	3,5	3,5	4,2	4,2	4,9	5,6	7	7	7,7	8,4	8,4	9,1	9,1
Helix length	mm	74	74	80	80	93	100	116	116	125	134	134	134	134
Overall length	mm	108	108	116	116	133	142	162	162	173	184	184	184	184
<b>8620G</b>	<b>Each</b>	<b>28,40</b>	<b>24,10</b>	<b>29,90</b>	<b>25,30</b>	<b>30,40</b>	<b>31,10</b>	<b>41,80</b>	<b>40,20</b>	<b>82,50</b>	<b>53,60</b>	<b>51,10</b>	<b>75,20</b>	<b>60,90</b>

Attention: the optimal pre-hole must have a Ø 10% - 20% approx. smaller than the real core drill Ø. - \* Sizes running out of stock.



**8620G**



HSS

**Orig. Dürr - Art. 215-21**

Product description as Art. 8620G  
Helix with additional drain.

Effective broadening Ø	mm	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Pre-bore min Ø	mm	3,5	4,2	4,9	5,6	6,3	7	7,7	8,4	9,1	9,8	10,5	11,2	11,8	12,5	13,2	14
Helix length	mm	74	80	93	100	107	116	125	134	134	142	147	153	159	165	171	177
Overall length	mm	108	116	133	142	151	162	173	184	184	194	202	211	218	226	234	242
<b>8621G</b>	<b>Each</b>	<b>40,30</b>	<b>42,80</b>	<b>44,40</b>	<b>54,30</b>	<b>57,60</b>	<b>60,10</b>	<b>75,70</b>	<b>75,70</b>	<b>93,10</b>	<b>107,00</b>	<b>118,00</b>	<b>132,00</b>	<b>157,00</b>	<b>172,00</b>	<b>188,00</b>	<b>201,00</b>

Attention: the optimal pre-hole must have a Ø 10% - 20% approx. smaller than the real core drill Ø.



**8621G**



HSS

**Orig. Hartner - Art. 86110**

DIN 343 – Type N.  
HSS.  
3-fluted type.  
For enlarging holes previously obtained, through drilling, punching and fusion.  
The drill is not able to make holes from full load.  
Morse taper shank. RIGHT-HAND rotation.

Effective broadening Ø	mm	13,75	14	14,75	15,75	16,75	17	17,75	18	19,7	20	21	22	24	25	26
Pre-bore min Ø	mm	9,8	9,8	10,5	11,2	11,9	11,9	12,6	12,6	14	14	14,6	15,3	16,6	17,3	18
Helix length	mm	108	108	114	120	125	125	130	130	140	140	145	150	160	160	165
Overall length	mm	189	189	212	218	223	223	228	228	238	238	243	248	281	281	286
Drive	C.M.	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3
<b>8622G</b>	<b>Each</b>	<b>68,10</b>	<b>58,80</b>	<b>67,60</b>	<b>72,20</b>	<b>83,50</b>	<b>72,20</b>	<b>82,50</b>	<b>73,20</b>	<b>86,60</b>	<b>76,30</b>	<b>95,90</b>	<b>95,90</b>	<b>113,00</b>	<b>113,00</b>	<b>127,00</b>

Attention: the optimal pre-hole must have a Ø 10% - 20% approx. smaller than the real core drill Ø.  
Sizes mm 14,75 running out of stock.



**8622G**



HSS

**8623G****Dürr****HSS****Orig. Dürr - Art. 215-51**

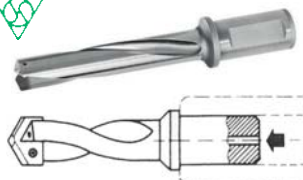
Product description as Art. 8622G

Helix with additional drain.

Effective broadening Ø	mm	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>
Pre-bore min Ø	mm	5,6	6,3	7	7,7	8,4	9,1	9,8	10,5	11,2	11,9	12,6	13,4	14	15	15
Helix length	mm	75	81	87	94	101	101	108	114	120	125	130	135	140	145	150
Overall length	mm	156	162	168	175	182	182	189	212	218	223	228	233	238	243	248
Drive	C.M.	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
<b>8623G</b>	<b>Each</b>	<b>75,70</b>	<b>81,40</b>	<b>81,40</b>	<b>81,40</b>	<b>81,40</b>	<b>88,80</b>	<b>88,80</b>	<b>98,70</b>	<b>105,00</b>	<b>109,00</b>	<b>116,00</b>	<b>126,00</b>	<b>126,00</b>	<b>144,00</b>	<b>145,00</b>

Effective broadening Ø	mm	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>
Pre-bore min Ø	mm	16	17	18	18	19	20	20	21
Helix length	mm	155	160	160	165	170	170	175	175
Overall length	mm	253	281	281	286	291	291	296	296
Drive	C.M.	2	3	3	3	3	3	3	3
<b>8623G</b>	<b>Each</b>	<b>162,00</b>	<b>171,00</b>	<b>184,00</b>	<b>190,00</b>	<b>222,00</b>	<b>227,00</b>	<b>246,00</b>	<b>254,00</b>

Attention: the optimal pre-hole must have a Ø 10% - 20% approx. smaller than the real core drill Ø.

**MULTIPLEX SHANK HOLDERS, SHORT TYPE****8625G****HARTNER****Orig. Hartner - Art. 86612**

SHORT type (for 3xD holes).

Made of steel, forced lubrication through internal cooling channels.

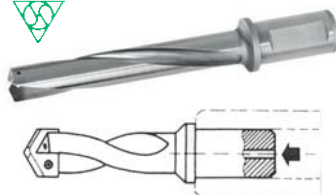
Rear feeding. Spiral flute.

CYLINDRICAL shank. RIGHT-HAND rotation.

With 2 screws.

Size		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
For plates Ø	mm	9,7-11,7	11,71-13,4	13,41-16,4	16,41-18,9	18,91-22,4	22,41-25,4	25,41-29	29,01-35	35,01-45	45,01-55	55,01-65
Drive Ø	mm	20	20	20	20	20	20	32	32	32	40	40
Overall length	mm	108	109	116	118	124	127	178	178	223	233	233
Helix length	mm	50	53	60	65	73	78	105	108	152	152	152
TORX screws size	M.	2x4	2x4	2,5x5	2,5x7	3x6	3x8	3,5x10	3,5x10	4x15	4x15	4x15
For plates thickness	mm	2,5	2,5	3,5	3,5	4	4	5	5	7	7	7
<b>8625G</b>	<b>Each</b>	<b>351,00</b>	<b>351,00</b>	<b>387,00</b>	<b>387,00</b>	<b>423,00</b>	<b>423,00</b>	<b>502,00</b>	<b>502,00</b>	<b>647,00</b>	<b>668,00</b>	<b>712,00</b>

For tool bits see Art. 8630 GT to 8633 G.

**MULTIPLEX SHANK HOLDERS, LONG TYPE****8625GL****HARTNER****Orig. Hartner - Art. 86622**

LONG type (for 5xD holes).

Made of steel, forced lubrication through internal cooling channels.

Rear feeding. Spiral flute.

CYLINDRICAL shank. RIGHT-HAND rotation.

With 2 screws.

Size		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
Drive Ø	mm	20	20	20	20	20	20	32	32	32	40	40
For plates Ø	mm	9,7-11,7	11,71-13,4	13,41-16,4	16,41-18,9	18,91-22,4	22,41-25,4	25,41-29	29,01-35	35,01-45	45,01-55	55,01-65
Overall length	mm	140	150	160	170	180	180	240	240	280	290	290
Helix length	mm	83	94	104	117	129	131	166	170	210	210	210
TORX screws size	M.	2x4	2x4	2,5x5	2,5x7	3x6	3x8	3,5x10	3,5x10	4x15	4x15	4x15
For plates thickness	mm	2,5	2,5	3,5	3,5	4	4	5	5	7	7	7
<b>8625GL</b>	<b>Each</b>	<b>369,00</b>	<b>369,00</b>	<b>423,00</b>	<b>423,00</b>	<b>423,00</b>	<b>423,00</b>	<b>452,00</b>	<b>535,00</b>	<b>589,00</b>	<b>625,00</b>	<b>668,00</b>

For tool bits see Art. 8630 GT to 8633 G.

AR



13



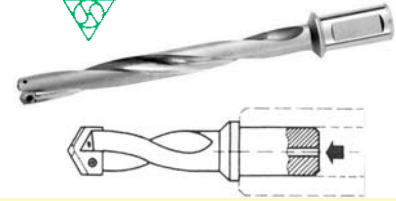
**MULTIPLEX SHANK HOLDERS, X-LONG TYPE**

**Orig. Hartner - Art. 86624**

X-LONG type (for 7xD holes).  
Made of steel, forced lubrication through internal cooling channels.  
Rear feeding. Spiral flute.  
CYLINDRICAL shank. RIGHT-HAND rotation.  
With 2 screws.



**8625GP**



Size		1	2	3	4	5	6	7	8	9	10	11
Drive Ø	mm	20	20	20	20	20	20	32	32	32	40	40
For plates Ø	mm	9,7-11,7	11,71-13,4	13,41-16,4	16,41-18,9	18,91-22,4	22,41-25,4	25,41-29	29,01-35	35,01-45	45,01-55	55,01-65
Overall length	mm	180	190	210	220	250	250	320	320	380	390	390
Helix length	mm	123	134	155	168	199	201	246	250	310	310	310
TORX screws size	M.	2x4	2x4	2,5x5	2,5x7	3x6	3x8	3,5x10	3,5x10	4x15	4x15	4x15
For plates thickness	mm	2,5	2,5	3,5	3,5	4	4	5	5	7	7	7
<b>8625GP</b>	<b>Each</b>	<b>401,00</b>	<b>401,00</b>	<b>452,00</b>	<b>452,00</b>	<b>452,00</b>	<b>452,00</b>	<b>520,00</b>	<b>614,00</b>	<b>701,00</b>	<b>798,00</b>	<b>863,00</b>

For tool bits see Art. 8630 GT to 8633 G.

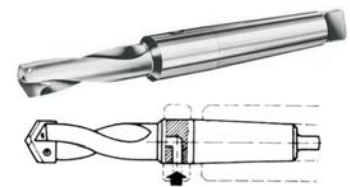
**MULTIPLEX SHANK HOLDERS, SHORT TYPE**

**Orig. Hartner - Art. 86670**

SHORT type.  
Made of steel, forced lubrication through internal cooling channels.  
Feeding through coolant ring. Spiral flute.  
Morse Taper shank. RIGHT-HAND rotation.  
With 2 screws.



**8627G**



Size		1	2	3	4	5	6	7	8
For plates Ø	mm	25-29	29-35	35-45	45-55	55-65	65-78	78-90	90-102
Drive	C.M.	4	4	4	4	4	5	5	5
Overall length	mm	279	279	324	324	324	436	436	436
Helix length	mm	108	108	152	152	152	216	216	216
TORX screws size	M.	3,5x10	3,5x10	4x15	4x15	4x15	5x20	5x20	5x20
For plates thickness	mm	5	5	7	7	7	9	9	9
<b>8627G</b>	<b>Each</b>	<b>499,00</b>	<b>528,00</b>	<b>701,00</b>	<b>723,00</b>	<b>798,00</b>	<b>975,00</b>	<b>1.200,00</b>	<b>1.380,00</b>

For tool bits see from Art. 8630 GT to 8633 G (Art. 8627 G - 8627 GLxGr. 6-7-8: straight spiral flute).  
Size 7 available only while stocks last.

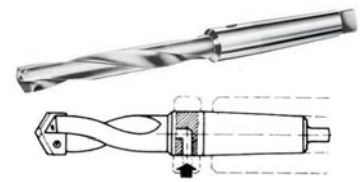
**MULTIPLEX SHANK HOLDERS, LONG TYPE**

**Orig. Hartner - Art. 86680**

LONG type.  
Made of steel, forced lubrication through internal cooling channels.  
Feeding through coolant ring. Spiral flute.  
Morse Taper shank. RIGHT-HAND rotation.  
With 2 screws.



**8627GL**



Size		1	2	3	4	5	6	7	8
For plates Ø	mm	25-29	29-35	35-45	45-55	55-65	65-78	78-90	90-102
Drive	C.M.	4	4	4	4	4	5	5	5
Overall length	mm	379	379	429	429	429	536	536	536
Helix length	mm	208	208	257	257	257	316	316	316
TORX screws size	M.	3,5x10	3,5x10	4x15	4x15	4x15	5x20	5x20	5x20
For plates thickness	mm	5	5	7	7	7	9	9	9
<b>8627GL</b>	<b>Each</b>	<b>535,00</b>	<b>614,00</b>	<b>723,00</b>	<b>788,00</b>	<b>827,00</b>	<b>1.040,00</b>	<b>1.270,00</b>	<b>1.490,00</b>

For tool bits see Art. 8630 GT to 8633 G (Art. 8627 G - 8627 GLxSize 6-7-8: straight spiral flute).

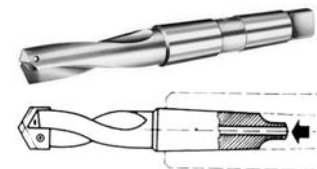
**MULTIPLEX SHANK HOLDERS, SHORT TYPE**

**Orig. Hartner - Art. 86630**

SHORT type.  
Made of steel, forced lubrication through internal cooling channels.  
Feeding through aletta di trascinamento. Spiral flute.  
Morse Taper shank. RIGHT-HAND rotation.  
With 2 screws.



**8628G**



Size		1	2	3	4	5	6
For plates Ø	mm	9,7-11,7	11,71-13,4	13,41-16,4	16,41-18,9	18,91-22,4	22,41-25,4
Drive	C.M.	2	2	2	2	3	3
Overall length	mm	139	141	148	150	178	181
Helix length	mm	56	58	63	67	76	80
TORX screws size	M.	2x4	2x4	2,5x5	2,5x7	3x6	3x8
For plates thickness	mm	2,5	2,5	3,5	3,5	4	4
<b>8628G</b>	<b>Each</b>	<b>416,00</b>	<b>416,00</b>	<b>463,00</b>	<b>463,00</b>	<b>492,00</b>	<b>492,00</b>

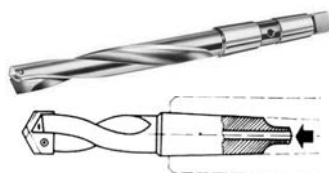
For tool bits see from Art. 8630 GT to 8633 G.  
Sizes 1 and 2 available only while stocks last.



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**MULTIPLEX SHANK HOLDERS, LONG TYPE**

**8628GL**



**Orig. Hartner - Art. 86650**

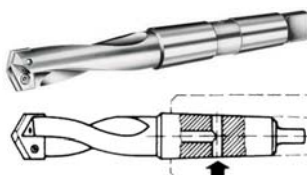
LONG type.  
Made of steel, forced lubrication through internal cooling channels.  
Feeding through aletta di trascinamento. Spiral flute.  
Morse Taper shank. RIGHT-HAND rotation.  
With 2 screws.

Size		1	3	4	5	6
For plates Ø	mm	9,7-11,7	13,41-16,4	16,41-18,9	18,91-22,4	22,41-25,4
Drive	C.M.	2	2	2	3	3
Overall length	mm	186	210	218	258	266
Helix length	mm	103	125	135	156	165
TORX screws size	M.	2x4	2,5x5	2,5x7	3x6	3x8
For plates thickness	mm	2,5	3,5	3,5	4	4
<b>8628GL</b>	<b>Each</b>	<b>437,00</b>	<b>513,00</b>	<b>513,00</b>	<b>531,00</b>	<b>531,00</b>

For tool bits see from Art. 8630 GT to 8633 G.  
Product running out of stock.

**MULTIPLEX SHANK HOLDERS, SHORT TYPE**

**8629G**



**Orig. Hartner - Art. 86640**

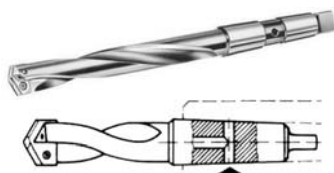
SHORT type.  
Made of steel, forced lubrication through internal cooling channels.  
Side feeding through the middle part of the Morse taper shank. Spiral flute.  
Morse Taper shank. RIGHT-HAND rotation.  
With 2 screws.

Size		1	2	3	4	5	6
For plates Ø	mm	9,7-11,7	11,71-13,4	13,41-16,4	16,41-18,9	18,91-22,4	22,41-25,4
Drive	C.M.	2	2	2	2	3	3
Overall length	mm	139	141	148	150	178	181
Helix length	mm	56	58	63	67	76	80
TORX screws size	M.	2x4	2x4	2,5x5	2,5x7	3x6	3x8
For plates thickness	mm	2,5	2,5	3,5	3,5	4	4
<b>8629G</b>	<b>Each</b>	<b>383,00</b>	<b>383,00</b>	<b>428,00</b>	<b>428,00</b>	<b>454,00</b>	<b>454,00</b>

For tool bits see Art. 8630 GT to 8633 G.  
Product running out of stock.

**MULTIPLEX SHANK HOLDERS, LONG TYPE**

**8629GL**



**Orig. Hartner - Art. 86660**

LONG type.  
Made of steel, forced lubrication through internal cooling channels.  
Side feeding through the middle part of the Morse taper shank. Spiral flute.  
Morse Taper shank. RIGHT-HAND rotation.  
With 2 screws.

Size		1	2	3	4	5	6
For plates Ø	mm	9,7-11,7	11,71-13,4	13,41-16,4	16,41-18,9	18,91-22,4	22,41-25,4
Drive	C.M.	2	2	2	2	3	3
Overall length	mm	186	191	210	218	258	266
Helix length	mm	103	108	125	135	156	165
TORX screws size	M.	2x4	2x4	2,5x5	2,5x7	3x6	3x8
For plates thickness	mm	2,5	2,5	3,5	3,5	4	4
<b>8629GL</b>	<b>Each</b>	<b>405,00</b>	<b>405,00</b>	<b>473,00</b>	<b>473,00</b>	<b>492,00</b>	<b>492,00</b>

Available on request: tool bit holders, extra-long series, with straight spiral. For tool bits see Art. 8630 GT to 8633.

**MULTIPLEX INTERCHANGEABLE BLADES**

**8630GT**



**TIN**

**HSS-E**

**Orig. Hartner - Art. 86602**

Suitable for drilling high-resistance and difficult to chip steel.  
RIGHT-HAND rotation. Supplied without screws.  
COBALT HSS-E+TIN. Cutting angle 135°.

Ø	mm	10	10,2	10,5	11	12	12,5	12,75	13	13,5	14	14,25	14,5	14,75	15	15,25
Thickness	mm	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5
<b>8630GT</b>	<b>Each</b>	<b>54,20</b>	<b>54,20</b>	<b>54,20</b>	<b>54,20</b>	<b>54,20</b>	<b>54,20</b>	<b>54,20</b>	<b>54,20</b>	<b>64,10</b>	<b>64,10</b>	<b>64,10</b>	<b>64,10</b>	<b>64,10</b>	<b>64,10</b>	<b>64,10</b>
Ø	mm	15,5	15,75	16	16,5	17	17,5	17,75	18	18,25	18,5	18,75	19	19,5	19,75	20
Thickness	mm	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	4	4	4	4
<b>8630GT</b>	<b>Each</b>	<b>64,10</b>	<b>64,10</b>	<b>64,10</b>	<b>64,10</b>	<b>64,10</b>	<b>64,10</b>	<b>64,10</b>	<b>64,10</b>	<b>64,10</b>	<b>64,10</b>	<b>64,10</b>	<b>75,90</b>	<b>75,90</b>	<b>75,90</b>	<b>75,90</b>
Ø	mm	20,25	20,5	21	21,5	22	22,5	23	23,5	24	24,5	25				
Thickness	mm	4	4	4	4	4	4	4	4	4	4	4				
<b>8630GT</b>	<b>Each</b>	<b>75,90</b>	<b>75,90</b>	<b>75,90</b>	<b>75,90</b>	<b>75,90</b>	<b>75,90</b>	<b>75,90</b>	<b>75,90</b>	<b>75,90</b>	<b>75,90</b>	<b>75,90</b>				

Tool bits Art. 8630 GT up to 25mm suitable for tool bit holder Art. 8625 G/8625 GL/8625 GP/8628 G/8628 GL/8629 G/8629 GL from Size 1 to Size 6.

**Orig. Hartner - Art. 86608**

Suitable for drilling high-resistance and difficult to chip steel.  
 RIGHT-HAND rotation. Supplied without screws.  
 COBALT HSS-E, FIRE coating (special Titanium Nitride and Aluminium multilayer coating).  
 Cutting angle 135°.



**8630GTF**

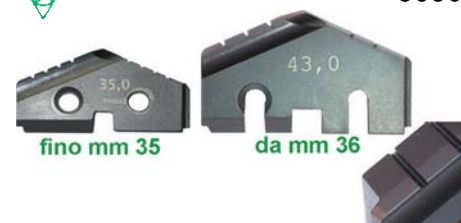
**HSS-E FIRE**

Ø	mm	10	12	13	13,5	14	14,25	14,5	15	15,5	16	16,5	17	17,5	18	18,25
Thickness	mm	2,5	2,5	2,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5
<b>8630GTF</b>	<b>Each</b>	<b>56,10</b>	<b>56,10</b>	<b>56,10</b>	<b>66,80</b>	<b>66,80</b>	<b>66,80</b>	<b>66,80</b>	<b>66,80</b>	<b>66,80</b>	<b>66,80</b>	<b>66,80</b>	<b>66,80</b>	<b>66,80</b>	<b>66,80</b>	<b>66,80</b>
Ø	mm	18,5	18,75	19	20	20,5	21	22	22,5	23	23,5	24	24,5	25		
Thickness	mm	3,5	3,5	4	4	4	4	4	4	4	4	4	4	4		
<b>8630GTF</b>	<b>Each</b>	<b>66,80</b>	<b>66,80</b>	<b>81,30</b>	<b>81,30</b>	<b>81,30</b>	<b>81,30</b>	<b>81,30</b>	<b>81,30</b>	<b>81,30</b>	<b>81,30</b>	<b>81,30</b>	<b>81,30</b>	<b>81,30</b>		

Tool bits Art. 8630 GTF suitable for tool bit holder Art. 8625 G/8625 GL/8625 GP/8628 G/8628 GL/8629 G/8629 GL Size 1 to Size 6.

**Orig. Hartner - Art. 86609**

Suitable for drilling high-resistance steel, stainless steel, cast iron, heat-resistance alloys, aluminium, non-ferrous alloys.  
 RIGHT-HAND rotation. Supplied without screws.  
 From 25mm to 65mm, HSS-E PM sinterized (ASP 2052) cutting angle 132°. From 68mm to 102mm, HSS-E standard, cutting angle 140°.  
 All sizes with new AlTiN coating, changed and improved, with V-shaped chip-breaker and beveled edge, for large use, longer life, reduced possibility of breakage of the tool bit, better finishing of holes and higher working parameters.



**8630GV**

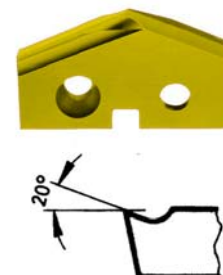
**HSS-E AlTiN**

Ø	mm	25	25,5	26	26,5	27	28	29	29,5	30	31	32	33	34	35	36
Thickness	mm	5	5	5	5	5	5	5	5	5	5	5	5	5	5	7
<b>8630GV</b>	<b>Each</b>	<b>99,60</b>	<b>99,60</b>	<b>99,60</b>	<b>99,60</b>	<b>99,60</b>	<b>99,60</b>	<b>99,60</b>	<b>102,00</b>	<b>102,00</b>	<b>102,00</b>	<b>102,00</b>	<b>102,00</b>	<b>102,00</b>	<b>102,00</b>	<b>118,00</b>
Ø	mm	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
Thickness	mm	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
<b>8630GV</b>	<b>Each</b>	<b>118,00</b>	<b>118,00</b>	<b>118,00</b>	<b>118,00</b>	<b>118,00</b>	<b>118,00</b>	<b>118,00</b>	<b>118,00</b>	<b>118,00</b>	<b>138,00</b>	<b>138,00</b>	<b>138,00</b>	<b>138,00</b>	<b>138,00</b>	<b>138,00</b>
Ø	mm	52	53	54	55	56	57	58	59	60	62	64	65	68	70	74
Thickness	mm	7	7	7	7	7	7	7	7	7	7	7	7	9	9	9
<b>8630GV</b>	<b>Each</b>	<b>138,00</b>	<b>138,00</b>	<b>138,00</b>	<b>138,00</b>	<b>149,00</b>	<b>149,00</b>	<b>149,00</b>	<b>149,00</b>	<b>149,00</b>	<b>149,00</b>	<b>149,00</b>	<b>149,00</b>	<b>187,00</b>	<b>187,00</b>	<b>187,00</b>
Ø	mm	75	80	82	84	85	88	90	100	102						
Thickness	mm	9	9	9	9	9	9	9	9	9						
<b>8630GV</b>	<b>Each</b>	<b>187,00</b>	<b>219,00</b>	<b>219,00</b>	<b>201,00</b>	<b>219,00</b>	<b>219,00</b>	<b>219,00</b>	<b>252,00</b>	<b>252,00</b>						

Tool bits Art. 8630 GV 25 to 65mm suitable for tool bit holder Art. 8625 G/8625 GL/8625 GP Size 7 to 11 and Art. 8627 G/8627 GL Size 1 to 5.  
 Tool bits Art 8630GV from 68mm to 102mm are suitable for tool bit holder Art. 8627 G/8627 GL from Gr. 6 to Gr.8.  
 Size mm 84 running out of stock.

**Orig. Hartner**

HARDMETAL (HM), TIN coating. For high-speed working with nebulized lubrication-cooler.  
 RIGHT-HAND rotation. Supplied without screws.  
 Non-chamfered type, suitable for drilling materials with resistance up to 600 N/mmq.



**8631A**

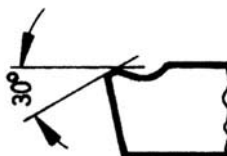
**HARTMETALL TIN**

Ø	mm	10	10,5	12	13,5	14,5	15	17	17,5
Thickness	mm	2,5	2,5	2,5	3,5	3,5	3,5	3,5	3,5
<b>8631A</b>	<b>Each</b>	<b>76,30</b>	<b>76,30</b>	<b>76,30</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>
Ø	mm	18	18,5	19	20	22	22,5	23	23,5
Thickness	mm	3,5	3,5	4	4	4	4	4	4
<b>8631A</b>	<b>Each</b>	<b>103,00</b>	<b>103,00</b>	<b>127,00</b>	<b>127,00</b>	<b>127,00</b>	<b>127,00</b>	<b>127,00</b>	<b>127,00</b>
Ø	mm	24	25						
Thickness	mm	4	4						
<b>8631A</b>	<b>Each</b>	<b>127,00</b>	<b>127,00</b>						

Tool bits Art. 8631 A suitable for tool bit holder Art. 8625 G/8625 GL/8625 GP/8628 G/8628 GL/8629 G/8629 GL Size 1 to Size 6.  
 Product running out of stock.



### 8631B



HARTMETALL

HARDMETAL (HM).

For high-speed working with nebulized lubrication-cooler.

RIGHT-HAND rotation. Supplied without screws.

Chamfered type, suitable for drilling materials with resistance over 600 N/mm<sup>2</sup>.

Ø	mm	10	10,2	10,5	11	11,8	12	12,25	12,5
Thickness	mm	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5
<b>8631B</b>	<b>Each</b>	<b>76,30</b>	<b>76,30</b>	<b>76,30</b>	<b>76,30</b>	<b>76,30</b>	<b>76,30</b>	<b>76,30</b>	<b>76,30</b>
Ø	mm	13	13,25	13,5	13,75	14,25	14,5	15	15,25
Thickness	mm	2,5	2,5	3,5	3,5	3,5	3,5	3,5	3,5
<b>8631B</b>	<b>Each</b>	<b>76,30</b>	<b>76,30</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>
Ø	mm	15,5	16	16,25	16,5	16,75	17,25	17,5	17,75
Thickness	mm	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5
<b>8631B</b>	<b>Each</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>
Ø	mm	18	18,25	18,5	18,75	19	19,5	19,75	20
Thickness	mm	3,5	3,5	3,5	3,5	4	4	4	4
<b>8631B</b>	<b>Each</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>	<b>127,00</b>	<b>127,00</b>	<b>127,00</b>	<b>127,00</b>
Ø	mm	20,5	21,5	22	22,5	23	23,5	24	24,5
Thickness	mm	4	4	4	4	4	4	4	4
<b>8631B</b>	<b>Each</b>	<b>127,00</b>	<b>127,00</b>	<b>127,00</b>	<b>127,00</b>	<b>127,00</b>	<b>127,00</b>	<b>127,00</b>	<b>127,00</b>
Ø	mm	27	29	30	32	34	35		
Thickness	mm	5	5	5	5	5	5		
<b>8631B</b>	<b>Each</b>	<b>153,00</b>	<b>153,00</b>	<b>163,00</b>	<b>163,00</b>	<b>163,00</b>	<b>163,00</b>		

Tool bits Art. 8631 B up to 25mm suitable for tool bit holder Art. 8625 G/8625 GL/8625 GP/8628 G/8628 GL/8629 G/8629 GL from Size 1 to Size 6.

Tool bits Art. 8631 B from 27 to 35mm suitable for tool bit holders Art. 8625 G/8625 GL/8625 GP Size 7-8, Art. 8627 G/8627 GL Gr. 1-2.

Product running out of stock.

### 8631C



HARTMETALL TIN

HARDMETAL (HM), TIN coating. For high-speed working with nebulized lubrication-cooler.

RIGHT-HAND rotation. Supplied without screws.

Chamfered type, suitable for drilling materials with resistance over 600 N/mm<sup>2</sup>.

Ø	mm	10	10,2	10,5	11	11,8	12	12,25	12,5
Thickness	mm	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5
<b>8631C</b>	<b>Each</b>	<b>76,30</b>	<b>76,30</b>	<b>76,30</b>	<b>76,30</b>	<b>76,30</b>	<b>76,30</b>	<b>76,30</b>	<b>76,30</b>
Ø	mm	13	13,5	13,75	14,5	14,75	15,25	16,75	17
Thickness	mm	2,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5
<b>8631C</b>	<b>Each</b>	<b>76,30</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>
Ø	mm	18,25	18,5	18,75	19	19,5	19,75	21,5	22
Thickness	mm	3,5	3,5	3,5	4	4	4	4	4
<b>8631C</b>	<b>Each</b>	<b>103,00</b>	<b>103,00</b>	<b>103,00</b>	<b>127,00</b>	<b>127,00</b>	<b>127,00</b>	<b>127,00</b>	<b>127,00</b>
Ø	mm	22,5	23,5	28	29	34			
Thickness	mm	4	4	5	5	5			
<b>8631C</b>	<b>Each</b>	<b>127,00</b>	<b>127,00</b>	<b>153,00</b>	<b>153,00</b>	<b>163,00</b>			

Tool bits Art. 8631 C up to 23.5mm suitable for tool bit holders Art. 8625 G/8625 GL/8625 GP/8628 G/8628 GL/8629 G/8629 GL from Size 1 to Size 6.

Tool bits Art. 8631 C a from 28 to 34mm suitable for tool bit holders Art. 8625 G/8625 GL/8625 GP Size7-8, Art. 8627 G/8627 GL Size 1-2.

Product running out of stock.

### 8631G



HARTMETALL FIRE

Orig. Hartner - Art. 86701

In HARD METAL (HM), FIRE-coated (special Titanium Nitride and Aluminium multilayer coating).

For high-speed working with nebulized lubrication-cooler. (Dry working with cast iron only).

Right rotation. Supplied without screws.

Non-chamfered, suitable for drilling materials with resistance up to 600N/sqmm.

Ø	mm	10	10,5	11	12	12,5	13	13,5	14
Thickness	mm	2,5	2,5	2,5	2,5	2,5	2,5	3,5	3,5
<b>8631G</b>	<b>Each</b>	<b>90,30</b>	<b>90,30</b>	<b>90,30</b>	<b>90,30</b>	<b>90,30</b>	<b>90,30</b>	<b>120,00</b>	<b>120,00</b>
Ø	mm	14,5	15	15,5	16	16,5	17	17,5	18
Thickness	mm	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5
<b>8631G</b>	<b>Each</b>	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>
Ø	mm	18,5	19	19,5	20	20,5	21	21,5	22
Thickness	mm	3,5	4	4	4	4	4	4	4
<b>8631G</b>	<b>Each</b>	<b>120,00</b>	<b>150,00</b>	<b>150,00</b>	<b>150,00</b>	<b>150,00</b>	<b>150,00</b>	<b>150,00</b>	<b>150,00</b>
Ø	mm	23	24	25	26	27	28	29	30
Thickness	mm	4	4	4	5	5	5	5	5
<b>8631G</b>	<b>Each</b>	<b>150,00</b>	<b>150,00</b>	<b>150,00</b>	<b>181,00</b>	<b>181,00</b>	<b>181,00</b>	<b>181,00</b>	<b>192,00</b>
Ø	mm	31	32	33	34	35			
Thickness	mm	5	5	5	5	5			
<b>8631G</b>	<b>Each</b>	<b>192,00</b>	<b>192,00</b>	<b>192,00</b>	<b>192,00</b>	<b>192,00</b>			

Tool bits Art. 8631 G up to 25mm suitable for tool bit holder Art. 8625 G/8625 GL/8625 GP/8628 G/8628 GL/8629 G/8629 GL Size 1 to 6.

Tool bits Art. 8631 G 26 to 35mm suitable for tool bit holder Art. 8625 G/8625 GL/8625 GP Size 7-8, Art. 8627 G/8627 GL Size 1-2.

Prices in EURO - VAT not included



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**Orig. Hartner - Art. 86702**

Product description as Art. 8631G

Non-chamfered, suitable for drilling materials with resistance up to 600N/sqmm.

Ø	mm	<b>10</b>	<b>10,5</b>	<b>11</b>	<b>12</b>	<b>12,5</b>	<b>13</b>	<b>13,5</b>	<b>14</b>	
Thickness	mm	2,5	2,5	2,5	2,5	2,5	2,5	3,5	3,5	
<b>8633G</b>	<b>Each</b>	<b>90,30</b>	<b>90,30</b>	<b>90,30</b>	<b>90,30</b>	<b>90,30</b>	<b>90,30</b>	<b>120,00</b>	<b>120,00</b>	
Ø	mm	<b>14,5</b>	<b>15</b>	<b>15,5</b>	<b>16,5</b>	<b>17</b>	<b>17,5</b>	<b>18</b>	<b>18,5</b>	
Thickness	mm	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	
<b>8633G</b>	<b>Each</b>	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>	
Ø	mm	<b>19</b>	<b>19,5</b>	<b>20</b>	<b>20,5</b>	<b>21</b>	<b>21,5</b>	<b>22</b>	<b>23</b>	
Thickness	mm	4	4	4	4	4	4	4	4	
<b>8633G</b>	<b>Each</b>	<b>150,00</b>	<b>150,00</b>	<b>150,00</b>	<b>150,00</b>	<b>150,00</b>	<b>150,00</b>	<b>150,00</b>	<b>150,00</b>	
Ø	mm	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>33</b>	<b>34</b>	
Thickness	mm	4	5	5	5	5	5	5	5	
<b>8633G</b>	<b>Each</b>	<b>150,00</b>	<b>181,00</b>	<b>181,00</b>	<b>181,00</b>	<b>181,00</b>	<b>192,00</b>	<b>192,00</b>	<b>192,00</b>	
Ø	mm	<b>35</b>								
Thickness	mm	5								
<b>8633G</b>	<b>Each</b>	<b>192,00</b>								



**HARTMETALL FIRE**

**8633G**

Tool bits Art.8633 G up to 25mm suitable for tool bit holder Art. 8625 G/8625 GL/8625 GP/8628 G/8628 GL/8629 G/8629 GL Size 1 to 6.  
 Tool bits Art. 8633 G 26 to 35mm suitable for tool bit holder Art. 8625 G/8625 GL/8625 GP Size 7-8, Art. 8627 G/8627 GL Size 1-2.

**ACCESSORIES FOR COOLANT FEED, MULTIPLEX SYSTEM**

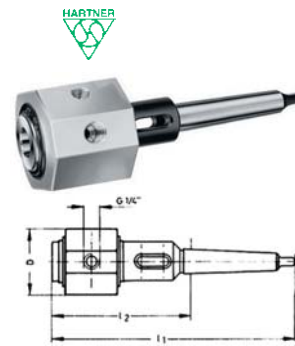
**Orig. Hartner**

**CHUCKS WITH INTERNAL/EXTERNAL MORSE TAPER SHANK**

Made of steel, very high precision, for max hole centring.  
 Suitable for tool bit holder Art. 8629G/8629 GL and drills Art. 8526 G.  
 Max use pressure 16 bars.

Ext./Int. Morse cone	C.M.	2/2
Overall length (l1)	mm	165
Length without C.M (l2)	mm	90
Ø (D)	mm	75
<b>8637GA</b>	<b>Each</b>	<b>on request</b>

Product running out of stock.



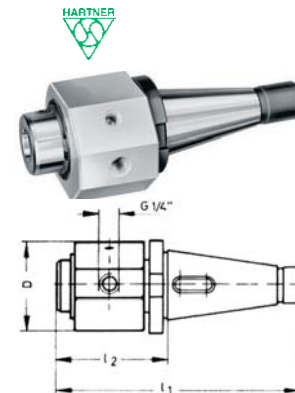
**8637GA**

**CHUCKS WITH EXTERNAL SHANK DIN 2080A AND INTERNAL MORSE TAPER SHANK**

Made of steel, very high precision, for max hole centring.  
 Suitable for tool bit holder Art. 8629G/8629 GL and drills Art. 8526 G.  
 Max use pressure 16 bars.

Ext SK cone / int. C.M.		50/2
Overall length (l1)	mm	258
Length without SK (l2)	mm	146
Ø (D)	mm	112
<b>8637GE</b>	<b>Each</b>	<b>on request</b>

Product running out of stock.



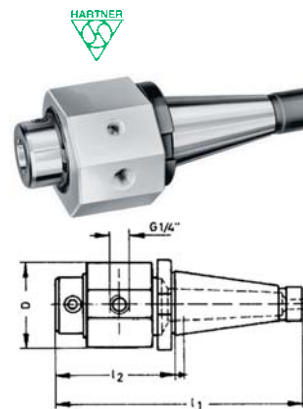
**8637GE**

**CHUCKS WITH EXTERNAL CONICAL SHANK AND INTERNAL CYLINDRICAL SHANK**

Made of steel, very high precision, for max hole centring.  
 Suitable for tool bit holder Art. 8625 G/8625 GL/8625 GP Size 1 to 6.  
 Max use pressure 16 bars.

Ext cone / int. cyl.		SK 50-20
Dimensions d	mm	20
Dimensions L	mm	105
Dimensions D	mm	50
Dimensions D1	mm	78
Dimensions H	mm	50
Dimensions L1	mm	20
Dimensions L2	mm	-
Dimensions 2-B		12
CM	M.	24
<b>8637GM</b>	<b>Each</b>	<b>on request</b>

Other types of chucks for liquid coolant adduction.  
 Product running out of stock.



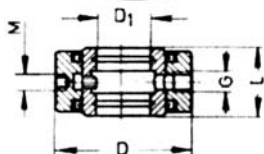
**8637GM**

Prices in EURO - VAT not included



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### 8638GB



**Orig. Hartner - Art. 86690-63,5**  
COOLANT RINGS

Made of steel. Lubricant hole 1/4 G. Suitable for tool bit holder Art. 8627 G/8627 GL. (Morse taper shank 5). Diameter (D) 127mm, diameter (D1) 63.5mm, height (L) 60mm, threaded shank (M) 12.

**8638GB** Each **723,00**

Product running out of stock.

### 8638GE 8638GF



**Orig. Hartner - Art. 82578-90**  
RAPID CONNECTIONS

Made of brass. Threaded internal shank 1/4 G, hose connection Ø 9mm. Suitable for pipes Art. 8638 GL.

**8638GE** Each **95,70**

Product running out of stock.

**Orig. Hartner - Art. 82578-13**

Made of brass. Threaded internal shank 1/2 G, hose connection Ø 13mm. Suitable for pipes Art. 8638 GM.

**8638GF** Each **246,00**

Product running out of stock.

### 8638GL 8638GM



**Orig. Hartner - Art. 82571-13,16**  
COOLANT HOSES, MADE OF STEEL

External threads 1/4 G. Suitable for rings Art. 8638 GA and chucks Art. 8637 GA to 8637 GM. Length 200mm.

**8638GL** Each **26,80**

Product running out of stock.

**Orig. Hartner - Art. 82571-20,96**

External threads 1/2 G. Suitable for rings Art. 8638 GB. Length 200mm.

**8638GM** Each **27,70**

Product running out of stock.

### 8638GP



**Orig. Hartner - Art. 86807**  
TORX SCREWS FOR TOOL BIT HOLDER

Thread Ø	M.	2x4	2,5x5	2,5x7	3x6	3x8	3,5x10	4x15	5x20
TORX screw	Gr	6	7	7	9	9	15	20	25

**8638GP** Each **3,88** **3,98** **3,98** **4,24** **4,24** **4,42** **4,96** **5,24**

## STUB DRILLS, RIGHT HAND CUTTING

### 8642G



**HSS**

**Prod. SCU**  
DIN 1897. Rolled type. HSS  
EXTRA-SHORT pattern. For automatic machines.  
Cylindrical shank.

Ø	mm	1	1,2	1,5	2	2,2	2,5	2,8	3	3,2	3,5	3,8	4	4,2	4,5	4,8
Overall length	mm	26	30	32	38	40	43	46	46	49	52	55	55	55	58	62
Helix length	mm	6	8	9	12	13	14	16	16	18	20	22	22	22	24	26
<b>8642G</b>	<b>Each</b>	<b>0,88</b>	<b>0,90</b>	<b>0,74</b>	<b>0,24</b>	<b>0,36</b>	<b>0,30</b>	<b>0,42</b>	<b>0,36</b>	<b>0,36</b>	<b>0,36</b>	<b>0,42</b>	<b>0,36</b>	<b>0,42</b>	<b>0,42</b>	<b>0,60</b>
Ø	mm	5	5,2	5,5	5,8	6	6,5	7	7,5	8	8,5	9	9,5	10		
Overall length	mm	62	62	66	66	66	70	74	74	79	79	84	84	89		
Helix length	mm	26	26	28	28	28	31	34	34	37	37	40	40	43		
<b>8642G</b>	<b>Each</b>	<b>0,48</b>	<b>0,66</b>	<b>0,54</b>	<b>0,72</b>	<b>0,60</b>	<b>0,72</b>	<b>0,78</b>	<b>0,96</b>	<b>1,18</b>	<b>1,42</b>	<b>1,54</b>	<b>1,66</b>	<b>2,14</b>		

Up to Ø 10mm in 10pcs packing units.  
Sizes mm 1 - 1,2 and 1,5 running out of stock.

DIN 338. Rolled type. HSS.  
SHORT pattern. Cylindrical shank.

**SCU**

**8648G**



**HSS**

Ø	mm	1	1,1	1,2	1,25	1,3	1,4	1,5	1,6	1,7	1,75	1,8	1,9	2	2,1	2,2
Overall length	mm	34	36	38	38	38	40	40	43	43	46	46	46	49	49	53
Helix length	mm	12	14	16	16	16	18	18	20	20	22	22	22	24	24	27
<b>8648G</b>	<b>Each</b>	<b>0,62</b>	<b>0,62</b>	<b>0,62</b>	<b>0,22</b>	<b>0,60</b>	<b>0,58</b>	<b>0,56</b>	<b>0,52</b>	<b>0,52</b>	<b>0,56</b>	<b>0,46</b>	<b>0,46</b>	<b>0,42</b>	<b>0,46</b>	<b>0,50</b>
Ø	mm	2,25	2,3	2,4	2,5	2,6	2,7	2,75	2,8	2,9	3	3,1	3,2	3,25	3,3	3,4
Overall length	mm	53	53	57	57	57	61	61	61	61	61	65	65	65	65	70
Helix length	mm	27	27	30	30	30	33	33	33	33	33	36	36	36	36	39
<b>8648G</b>	<b>Each</b>	<b>0,22</b>	<b>0,50</b>	<b>0,50</b>	<b>0,52</b>	<b>0,52</b>	<b>0,52</b>	<b>0,22</b>	<b>0,52</b>	<b>0,52</b>	<b>0,44</b>	<b>0,56</b>	<b>0,56</b>	<b>0,22</b>	<b>0,56</b>	<b>0,56</b>
Ø	mm	3,5	3,6	3,7	3,75	3,8	3,9	4	4,1	4,2	4,25	4,3	4,4	4,5	4,6	4,7
Overall length	mm	70	70	70	70	75	75	75	75	75	75	80	80	80	80	80
Helix length	mm	39	39	39	39	43	43	43	43	43	43	47	47	47	47	47
<b>8648G</b>	<b>Each</b>	<b>0,50</b>	<b>0,60</b>	<b>0,60</b>	<b>0,28</b>	<b>0,62</b>	<b>0,68</b>	<b>0,52</b>	<b>0,74</b>	<b>0,62</b>	<b>0,32</b>	<b>0,76</b>	<b>0,76</b>	<b>0,68</b>	<b>0,76</b>	<b>0,76</b>
Ø	mm	4,8	4,9	5	5,1	5,2	5,3	5,4	5,5	5,6	5,7	5,8	5,9	6	6,1	6,2
Overall length	mm	86	86	86	86	86	86	93	93	93	93	93	93	93	101	101
Helix length	mm	52	52	52	52	52	52	57	57	57	57	57	57	57	63	63
<b>8648G</b>	<b>Each</b>	<b>0,76</b>	<b>0,78</b>	<b>0,62</b>	<b>0,80</b>	<b>0,80</b>	<b>0,80</b>	<b>0,92</b>	<b>0,90</b>	<b>0,94</b>	<b>0,94</b>	<b>0,96</b>	<b>0,98</b>	<b>0,90</b>	<b>1,08</b>	<b>1,08</b>
Ø	mm	6,3	6,4	6,5	6,6	6,7	6,75	6,8	6,9	7	7,1	7,2	7,25	7,3	7,4	7,5
Overall length	mm	101	101	101	101	101	109	109	109	109	109	109	109	109	109	109
Helix length	mm	63	63	63	63	63	69	69	69	69	69	69	69	69	69	69
<b>8648G</b>	<b>Each</b>	<b>1,12</b>	<b>1,16</b>	<b>1,12</b>	<b>0,76</b>	<b>0,76</b>	<b>0,76</b>	<b>1,48</b>	<b>1,48</b>	<b>1,36</b>	<b>1,50</b>	<b>1,52</b>	<b>0,82</b>	<b>1,52</b>	<b>1,58</b>	<b>1,48</b>
Ø	mm	7,6	7,7	7,75	7,8	7,9	8	8,1	8,2	8,25	8,3	8,4	8,5	8,6	8,7	8,8
Overall length	mm	117	117	117	117	117	117	117	117	117	117	117	117	125	125	125
Helix length	mm	75	75	75	75	75	75	75	75	75	75	75	75	81	81	81
<b>8648G</b>	<b>Each</b>	<b>1,68</b>	<b>1,68</b>	<b>0,96</b>	<b>1,68</b>	<b>1,70</b>	<b>1,48</b>	<b>1,82</b>	<b>1,86</b>	<b>1,10</b>	<b>2,04</b>	<b>2,04</b>	<b>1,92</b>	<b>2,20</b>	<b>2,20</b>	<b>2,24</b>
Ø	mm	8,9	9	9,1	9,2	9,3	9,4	9,5	9,6	9,7	9,75	9,8	9,9	10	10,2	10,5
Overall length	mm	125	125	125	125	125	125	125	133	133	133	133	133	133	133	133
Helix length	mm	81	81	81	81	81	81	81	87	87	87	87	87	87	87	87
<b>8648G</b>	<b>Each</b>	<b>2,38</b>	<b>2,12</b>	<b>2,38</b>	<b>3,82</b>	<b>2,38</b>	<b>2,38</b>	<b>2,38</b>	<b>2,66</b>	<b>2,66</b>	<b>1,68</b>	<b>2,92</b>	<b>2,92</b>	<b>2,54</b>	<b>3,16</b>	<b>3,28</b>
Ø	mm	11	11,5	12	12,5	13	14	15								
Overall length	mm	142	142	151	151	151	160	169								
Helix length	mm	94	94	101	101	101	108	114								
<b>8648G</b>	<b>Each</b>	<b>3,78</b>	<b>4,12</b>	<b>4,52</b>	<b>5,24</b>	<b>5,64</b>	<b>7,22</b>	<b>8,52</b>								

Up to Ø 10mm in 10pcs packing units.

**TWIST DRILLS SETS IN STEEL STANDS**

**Prod. SCU**

Assortments in enamelled steel wallet.  
With HSS cylindrical drills Art. 8648 G.  
With tips by mm 1 to 5,9  
Quantity of tips 50  
Progression mm 0.1

<b>8648GA</b>	<b>Each</b>	<b>64,50</b>
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**SCU**

**8648GA**



**HSS**

Product description as Art. 8648GA

With tips by mm 1 to 10  
Quantity of tips 19  
Progression mm 0.5

<b>8648GB</b>	<b>Each</b>	<b>39,10</b>
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**SCU**

**8648GB**



**HSS**

### 8648GC

SCU



Product description as Art. 8648GA

With tips by mm 1 to 13  
 Quantity of tips 25  
 Progression mm 0.5

**8648GC** Each **89,10**

HSS

### 8648GD

SCU



Product description as Art. 8648GA

With tips by mm 6 to 10  
 Quantity of tips 41  
 Progression mm 0.1

**8648GD** Each **138,00**

HSS

## STUB DRILLS, RIGHT HAND CUTTING

### 8648GF

new

SCU



Prod. SCU

DIN 338. Milled High-Speed Steel. Mod. SHORT.

Cutting angle 118°, with 2 mm split point.

Cylindrical shank.

HSS

Ø	mm	1	1,1	1,2	1,3	1,4	1,5	1,6	1,7	1,8	1,9	2	2,1	2,2	2,3	2,4
Overall length	mm	34	36	38	38	40	40	43	43	46	46	49	49	53	53	57
Helix length	mm	12	14	16	16	18	18	20	20	22	22	24	24	27	27	30
<b>8648GF</b>	Each	<b>0,36</b>	<b>0,36</b>	<b>0,36</b>	<b>0,36</b>	<b>0,36</b>	<b>0,36</b>	<b>0,42</b>	<b>0,42</b>	<b>0,42</b>	<b>0,42</b>	<b>0,24</b>	<b>0,40</b>	<b>0,40</b>	<b>0,40</b>	<b>0,40</b>
Ø	mm	2,5	2,6	2,7	2,8	2,9	3	3,1	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9
Overall length	mm	57	57	61	61	61	61	65	65	65	70	70	70	70	75	75
Helix length	mm	30	30	33	33	33	33	36	36	36	39	39	39	39	43	43
<b>8648GF</b>	Each	<b>0,34</b>	<b>0,46</b>	<b>0,46</b>	<b>0,46</b>	<b>0,46</b>	<b>0,40</b>	<b>0,54</b>	<b>0,48</b>	<b>0,48</b>	<b>0,54</b>	<b>0,48</b>	<b>0,66</b>	<b>0,66</b>	<b>0,66</b>	<b>0,66</b>
Ø	mm	4	4,1	4,2	4,3	4,4	4,5	4,6	4,7	4,8	4,9	5	5,1	5,2	5,3	5,4
Overall length	mm	75	75	75	80	80	80	80	80	86	86	86	86	86	86	93
Helix length	mm	43	43	43	47	47	47	47	47	52	52	52	52	52	52	57
<b>8648GF</b>	Each	<b>0,60</b>	<b>0,84</b>	<b>0,78</b>	<b>0,84</b>	<b>0,84</b>	<b>0,78</b>	<b>0,92</b>	<b>0,92</b>	<b>0,92</b>	<b>0,92</b>	<b>0,86</b>	<b>1,06</b>	<b>1,06</b>	<b>1,06</b>	<b>1,06</b>
Ø	mm	5,5	5,6	5,7	5,8	5,9	6	6,1	6,2	6,3	6,4	6,5	6,6	6,7	6,8	6,9
Overall length	mm	93	93	93	93	93	93	101	101	101	101	101	101	101	109	109
Helix length	mm	57	57	57	57	57	57	63	63	63	63	63	63	63	69	69
<b>8648GF</b>	Each	<b>0,96</b>	<b>1,18</b>	<b>1,18</b>	<b>1,18</b>	<b>1,18</b>	<b>1,10</b>	<b>1,36</b>	<b>1,36</b>	<b>1,36</b>	<b>1,36</b>	<b>1,24</b>	<b>1,72</b>	<b>1,72</b>	<b>1,54</b>	<b>1,72</b>
Ø	mm	7	7,1	7,2	7,3	7,4	7,5	7,6	7,7	7,8	7,9	8	8,1	8,2	8,3	8,4
Overall length	mm	109	109	109	109	109	109	117	117	117	117	117	117	117	117	117
Helix length	mm	69	69	69	69	69	69	75	75	75	75	75	75	75	75	75
<b>8648GF</b>	Each	<b>1,54</b>	<b>1,90</b>	<b>1,90</b>	<b>1,90</b>	<b>1,90</b>	<b>1,72</b>	<b>2,32</b>	<b>2,32</b>	<b>2,32</b>	<b>2,32</b>	<b>2,08</b>	<b>2,48</b>	<b>2,48</b>	<b>2,48</b>	<b>2,48</b>
Ø	mm	8,5	8,6	8,7	8,8	8,9	9	9,1	9,2	9,3	9,4	9,5	9,6	9,7	9,8	9,9
Overall length	mm	117	125	125	125	125	125	125	125	125	125	125	133	133	133	133
Helix length	mm	75	81	81	81	81	81	81	81	81	81	81	87	87	87	87
<b>8648GF</b>	Each	<b>2,26</b>	<b>2,96</b>	<b>2,96</b>	<b>2,96</b>	<b>2,96</b>	<b>2,66</b>	<b>3,26</b>	<b>3,26</b>	<b>3,26</b>	<b>3,26</b>	<b>2,96</b>	<b>3,74</b>	<b>3,74</b>	<b>3,74</b>	<b>3,74</b>
Ø	mm	10	10,2	10,5	11	11,5	12	12,5	13	13,5	14	14,5	15	15,5	16	
Overall length	mm	133	133	133	142	142	151	151	151	160	160	169	169	178	178	
Helix length	mm	87	87	87	94	94	101	101	101	108	108	114	114	120	120	
<b>8648GF</b>	Each	<b>3,38</b>	<b>3,68</b>	<b>3,68</b>	<b>4,26</b>	<b>4,68</b>	<b>5,26</b>	<b>5,68</b>	<b>5,86</b>	<b>8,76</b>	<b>9,94</b>	<b>11,50</b>	<b>12,50</b>	<b>15,40</b>	<b>15,40</b>	

Up to Ø 10 mm in packs of 10 pieces.



**TWIST DRILLS SETS IN STEEL STANDS**

**Prod. SCU**

Assortments in case of enamelled sheet.  
With cylindrical drills Art. 8648 GF in steel HSS.

Art.	8648GL	8648GM
With tips by	mm 1 to 10	1 to 13
Quantity of tips	19	25
Progression	mm 0,5	0,5
<b>Each</b>	<b>30,80</b>	<b>60,40</b>



**HSS**

**8648GL**  
*new*  
**8648GM**  
*new*

**STUB DRILLS, RIGHT HAND CUTTING**

**Prod. SCU**

DIN 338. Rolled type. HSS. SHORT pattern.  
From 10.5mm to 16mm shank Ø 10mm and length 35mm.  
From 16.5 to 20mm shank Ø 13mm and length 35mm.

Cylindrical shank, reduced tang.

Ø	mm	10,5	11	11,5	12	12,5	13	13,5
Overall length	mm	133	142	142	151	151	151	160
Helix length	mm	87	94	94	101	101	101	108
<b>8649G</b>	<b>Each</b>	<b>3,08</b>	<b>3,32</b>	<b>3,56</b>	<b>4,02</b>	<b>4,14</b>	<b>4,38</b>	<b>5,10</b>
Ø	mm	14	14,5	15	15,5	16	16,5	17
Overall length	mm	160	169	169	178	178	184	184
Helix length	mm	108	114	114	120	120	125	125
<b>8649G</b>	<b>Each</b>	<b>5,56</b>	<b>6,28</b>	<b>7,58</b>	<b>8,52</b>	<b>9,12</b>	<b>9,46</b>	<b>10,10</b>
Ø	mm	17,5	18	18,5	19	19,5	20	
Overall length	mm	191	191	198	198	205	205	
Helix length	mm	130	130	135	135	140	140	
<b>8649G</b>	<b>Each</b>	<b>10,50</b>	<b>11,30</b>	<b>11,80</b>	<b>12,60</b>	<b>13,10</b>	<b>14,20</b>	



**8649G**



shank 10 mm until 16

shank 13 mm from 16,5

**HSS**

DIN 338. Milled, ground High-Speed Steel. Cutting angle 118°, with split point. Mod. SHORT.

From 10.5 mm to 16 mm connection Ø 10 mm and length 30 mm.  
From 16.5 mm to 20 mm connection Ø 13 mm and length 35 mm.

Cylindrical shank, reduced shank.

Ø	mm	10,5	11	11,5	12	12,5	13	13,5
Overall length	mm	133	142	142	151	151	151	160
Helix length	mm	87	94	94	101	101	101	108
<b>8649GE</b>	<b>Each</b>	<b>10,80</b>	<b>11,50</b>	<b>12,20</b>	<b>12,90</b>	<b>14,30</b>	<b>14,30</b>	<b>15,10</b>
Ø	mm	14	14,5	15	15,5	16	16,5	17
Overall length	mm	160	169	169	178	178	184	184
Helix length	mm	108	114	114	120	120	125	125
<b>8649GE</b>	<b>Each</b>	<b>16,60</b>	<b>18,90</b>	<b>21,10</b>	<b>22,80</b>	<b>25,70</b>	<b>27,70</b>	<b>31,10</b>
Ø	mm	17,5	18	18,5	19	19,5	20	
Overall length	mm	191	191	198	198	205	205	
Helix length	mm	130	130	135	135	140	140	
<b>8649GE</b>	<b>Each</b>	<b>31,70</b>	<b>31,70</b>	<b>32,60</b>	<b>32,60</b>	<b>33,10</b>	<b>37,10</b>	



**8649GE**  
*new*



shank 10 mm until 16

shank 13 mm from 16,5

**HSSG**

DIN 338. Type N, COBALT HSS-Co 5% milled. SHORT pattern.

Cutting angle 130°, spiral flute angle 35° with double thinned sharpening for best performance.  
For steel with R higher than 1000 N/sqmm, stainless steel, cast iron.

Cylindrical shank.

Ø	mm	1	1,1	1,2	1,3	1,4	1,5	1,6	1,7	1,8	1,9	2	2,1	2,2	2,3	2,4
Overall length	mm	34	36	38	38	40	40	43	43	46	46	49	49	53	53	57
Helix length	mm	12	14	16	16	18	18	20	20	22	22	24	24	27	27	30
<b>8651G</b>	<b>Each</b>	<b>0,48</b>	<b>0,66</b>	<b>0,66</b>	<b>0,66</b>	<b>0,66</b>	<b>0,54</b>	<b>0,84</b>	<b>0,84</b>	<b>0,84</b>	<b>0,84</b>	<b>0,72</b>	<b>1,02</b>	<b>1,02</b>	<b>1,02</b>	<b>1,02</b>
Ø	mm	2,5	2,6	2,7	2,8	2,9	3	3,1	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9
Overall length	mm	57	57	61	61	61	61	65	65	65	70	70	70	70	75	75
Helix length	mm	30	30	33	33	33	33	36	36	36	39	39	39	39	43	43
<b>8651G</b>	<b>Each</b>	<b>0,84</b>	<b>1,24</b>	<b>1,24</b>	<b>1,24</b>	<b>1,24</b>	<b>1,06</b>	<b>1,36</b>	<b>1,36</b>	<b>1,18</b>	<b>1,36</b>	<b>1,18</b>	<b>1,66</b>	<b>1,66</b>	<b>1,66</b>	<b>1,66</b>
Ø	mm	4	4,1	4,2	4,3	4,4	4,5	4,6	4,7	4,8	4,9	5	5,1	5,2	5,3	5,4
Overall length	mm	75	75	75	80	80	80	80	80	86	86	86	86	86	86	93
Helix length	mm	43	43	43	47	47	47	47	47	52	52	52	52	52	52	57
<b>8651G</b>	<b>Each</b>	<b>1,42</b>	<b>2,08</b>	<b>1,78</b>	<b>2,08</b>	<b>2,08</b>	<b>1,78</b>	<b>2,48</b>	<b>2,48</b>	<b>2,48</b>	<b>2,48</b>	<b>2,14</b>	<b>2,90</b>	<b>2,90</b>	<b>2,90</b>	<b>2,90</b>
Ø	mm	5,5	5,6	5,7	5,8	5,9	6	6,1	6,2	6,3	6,4	6,5	6,6	6,7	6,8	6,9
Overall length	mm	93	93	93	93	93	93	101	101	101	101	101	101	101	109	109
Helix length	mm	57	57	57	57	57	57	63	63	63	63	63	63	63	69	69
<b>8651G</b>	<b>Each</b>	<b>2,48</b>	<b>3,32</b>	<b>3,32</b>	<b>3,32</b>	<b>3,32</b>	<b>2,90</b>	<b>4,08</b>	<b>4,08</b>	<b>4,08</b>	<b>4,08</b>	<b>3,56</b>	<b>4,92</b>	<b>4,92</b>	<b>4,26</b>	<b>4,92</b>



**8651G**



**HSS-Co-5%**

Ø	mm	7	7,1	7,2	7,3	7,4	7,5	7,6	7,7	7,8	7,9	8	8,1	8,2	8,3	8,4
Overall length	mm	109	109	109	109	109	109	117	117	117	117	117	117	117	117	117
Helix length	mm	69	69	69	69	69	69	75	75	75	75	75	75	75	75	75
<b>8651G</b>	Each	4,26	5,62	5,62	5,62	5,62	4,86	6,40	6,40	6,40	6,40	5,56	7,34	7,34	7,34	7,34
Ø	mm	8,5	8,6	8,7	8,8	8,9	9	9,1	9,2	9,3	9,4	9,5	9,6	9,7	9,8	9,9
Overall length	mm	117	125	125	125	125	125	125	125	125	125	125	133	133	133	133
Helix length	mm	75	81	81	81	81	81	81	81	81	81	81	87	87	87	87
<b>8651G</b>	Each	6,40	8,46	8,46	8,46	8,46	7,34	9,36	9,36	9,36	9,36	8,10	10,80	10,80	10,80	10,80
Ø	mm	10	10,2	10,5	11	11,5	12	12,5	13	13,5	14	14,5	15	15,5	16	
Overall length	mm	133	133	133	142	142	151	151	151	160	160	169	169	178	178	
Helix length	mm	87	87	87	94	94	101	101	101	108	108	114	114	120	120	
<b>8651G</b>	Each	9,36	10,20	10,20	11,70	12,80	14,50	15,70	17,10	17,80	19,10	21,30	22,50	23,70	24,90	

Up to Ø 10mm in 10pcs packing units.

**TWIST DRILLS SETS IN STEEL STANDS**

**8651GB**  
**8651GC**



HSS-Co-5%

Prod. SCU

Assortments in enamelled steel wallet.

With HSS-Co 5% cylindrical drills Art. 8651 G.

Art.		<b>8651GB</b>	<b>8651GC</b>
With tips by	mm	1 to 10	1 to 13
Quantity of tips		19	25
Progression	mm	0.5	0.5
<b>Each</b>		<b>74,60</b>	<b>161,00</b>

**STUB DRILLS, RIGHT HAND CUTTING**

**8651GL**  
*new*



HSS-Co-8%

DIN 338. VA type milled COBALT HSS-Co 8%. Mod. SHORT.

Cutting angle 130°, helix angle 36° with double sharpening thinned for maximum performance.

For steels with R up to 1300 N/mm<sup>2</sup>, stainless steel, titanium alloys, brass, bronze, cast irons.

Cylindrical shank.

Ø	mm	1	1,1	1,2	1,3	1,4	1,5	1,6	1,7	1,8	1,9	2	2,1	2,2	2,3	2,4
Overall length	mm	34	36	38	38	40	40	43	43	46	46	49	49	53	53	57
Helix length	mm	12	14	16	16	18	18	20	20	22	22	24	24	27	27	30
<b>8651GL</b>	Each	1,44	1,44	1,44	1,44	1,44	1,44	1,44	1,44	1,44	1,44	1,44	1,52	1,52	1,52	1,52
Ø	mm	2,5	2,6	2,7	2,8	2,9	3	3,1	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9
Overall length	mm	57	57	61	61	61	61	65	65	65	70	70	70	70	75	75
Helix length	mm	30	30	33	33	33	33	36	36	36	39	39	39	39	43	43
<b>8651GL</b>	Each	1,52	1,56	1,56	1,56	1,56	1,56	1,90	1,90	1,90	1,90	1,90	2,68	2,68	2,68	2,68
Ø	mm	4	4,1	4,2	4,3	4,4	4,5	4,6	4,7	4,8	4,9	5	5,1	5,2	5,3	5,4
Overall length	mm	75	75	75	80	80	80	80	80	86	86	86	86	86	86	93
Helix length	mm	43	43	43	47	47	47	47	47	52	52	52	52	52	52	57
<b>8651GL</b>	Each	2,68	3,18	3,18	3,18	3,18	3,18	4,12	4,12	4,12	4,12	4,12	4,44	4,44	4,44	4,44
Ø	mm	5,5	5,6	5,7	5,8	5,9	6	6,1	6,2	6,3	6,4	6,5	6,6	6,7	6,8	6,9
Overall length	mm	93	93	93	93	93	93	101	101	101	101	101	101	101	109	109
Helix length	mm	57	57	57	57	57	57	63	63	63	63	63	63	63	69	69
<b>8651GL</b>	Each	4,44	5,32	5,32	5,32	5,32	5,32	5,78	5,78	5,78	5,78	5,78	7,08	7,08	7,08	7,08
Ø	mm	7	7,1	7,2	7,3	7,4	7,5	7,6	7,7	7,8	7,9	8	8,1	8,2	8,3	8,4
Overall length	mm	109	109	109	109	109	109	117	117	117	117	117	117	117	117	117
Helix length	mm	69	69	69	69	69	69	75	75	75	75	75	75	75	75	75
<b>8651GL</b>	Each	7,08	7,46	7,46	7,46	7,46	7,46	9,16	9,16	9,16	9,16	9,16	9,26	9,26	9,26	9,26
Ø	mm	8,5	8,6	8,7	8,8	8,9	9	9,1	9,2	9,3	9,4	9,5	9,6	9,7	9,8	9,9
Overall length	mm	117	125	125	125	125	125	125	125	125	125	125	133	133	133	133
Helix length	mm	75	81	81	81	81	81	81	81	81	81	81	87	87	87	87
<b>8651GL</b>	Each	9,26	11,90	11,90	11,90	11,90	11,90	13,10	13,10	13,10	13,10	13,10	14,60	14,60	14,60	14,60
Ø	mm	10	10,2	10,5	11	11,5	12	12,5	13	13,5	14	14,5	15	15,5	16	
Overall length	mm	133	133	133	142	142	151	151	151	160	160	169	169	178	178	
Helix length	mm	87	87	87	94	94	101	101	101	108	108	114	114	120	120	
<b>8651GL</b>	Each	14,60	16,60	16,60	19,10	21,10	22,30	25,20	26,60	30,40	32,20	36,20	38,30	42,60	45,10	

Up to Ø 10 mm in packs of 10 pieces.

**TWIST DRILLS SETS IN STEEL STANDS**

**Prod. SCU**

Supplied in sturdy case in ABS unbreakable.  
With cylindrical drills Art. 8651 GL in steel HSS-Co 8%.



**8651GP**  
*new*  
**8651GR**  
*new*

Art.	8651GP	8651GR
With tips by	mm 1 to 10	1 to 13
Quantity of tips	19	25
Progression	mm 0,5	0,5
<b>Each</b>	<b>109,00</b>	<b>245,00</b>

**HSS-Co-8%**

**STUB DRILLS, RIGHT HAND CUTTING**

**Prod. SCU**

DIN 340. Rolled type. HSS.  
LONG pattern. Cylindrical shank.



**8652G**

**HSS**

Ø	mm	2	2,2	2,5	2,8	3	3,2	3,5	3,8	4	4,2	4,5	4,8	5	5,2	5,5	5,8
Overall length	mm	85	90	95	100	100	106	112	119	119	119	126	132	132	132	139	139
Helix length	mm	56	59	62	66	66	69	73	78	78	78	82	87	87	87	91	91
<b>8652G</b>	<b>Each</b>	<b>0,48</b>	<b>0,60</b>	<b>0,54</b>	<b>0,72</b>	<b>0,66</b>	<b>0,78</b>	<b>0,78</b>	<b>1,06</b>	<b>0,96</b>	<b>1,30</b>	<b>1,30</b>	<b>1,72</b>	<b>1,54</b>	<b>1,66</b>	<b>1,66</b>	<b>2,02</b>

Ø	mm	6	6,5	7	7,5	8	8,5	9	9,5	10	10,5	11	11,5	12	12,5	13
Overall length	mm	139	148	156	156	165	165	175	175	184	184	195	195	205	205	205
Helix length	mm	91	97	102	102	109	109	115	115	121	121	128	128	134	134	134
<b>8652G</b>	<b>Each</b>	<b>1,78</b>	<b>1,96</b>	<b>2,02</b>	<b>2,20</b>	<b>2,54</b>	<b>2,66</b>	<b>2,96</b>	<b>3,26</b>	<b>3,80</b>	<b>4,26</b>	<b>4,86</b>	<b>5,32</b>	<b>6,04</b>	<b>6,62</b>	<b>7,10</b>

Up to Ø 10mm in 10pcs packing units.

DIN 345. Rolled type. HSS. Morse taper shank.



**8656G**

**HSS**

Ø	mm	8	8,5	9	9,5	10	10,5	11	11,5	12	12,5	13	13,5	14	14,5	15
Drive	C.M.	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
Overall length	mm	156	156	162	162	168	168	175	175	182	182	182	189	189	212	212
Helix length	mm	75	75	81	81	87	87	94	94	101	101	101	108	108	114	114
<b>8656G</b>	<b>Each</b>	<b>6,84</b>	<b>7,74</b>	<b>7,60</b>	<b>8,36</b>	<b>7,74</b>	<b>8,04</b>	<b>8,22</b>	<b>9,48</b>	<b>8,56</b>	<b>9,10</b>	<b>9,48</b>	<b>10,60</b>	<b>9,86</b>	<b>10,10</b>	<b>11,10</b>

Ø	mm	15,5	16	16,5	17	17,5	18	18,5	19	19,5	20	20,5	21	21,5	22	22,5
Drive	C.M.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Overall length	mm	218	218	223	223	228	228	233	233	238	238	243	243	248	248	253
Helix length	mm	120	120	125	125	125	125	135	135	140	140	145	145	150	150	155
<b>8656G</b>	<b>Each</b>	<b>11,60</b>	<b>11,60</b>	<b>12,80</b>	<b>13,30</b>	<b>13,50</b>	<b>14,50</b>	<b>15,40</b>	<b>15,40</b>	<b>17,60</b>	<b>16,60</b>	<b>17,10</b>	<b>18,30</b>	<b>21,40</b>	<b>20,20</b>	<b>21,90</b>

Ø	mm	23	23,5	24	24,5	25	25,5	26	26,5	27	27,5	28	28,5	29	29,5	30
Drive	C.M.	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Overall length	mm	253	276	281	281	281	286	286	286	291	291	291	296	296	296	296
Helix length	mm	155	155	160	160	160	165	165	165	170	170	170	175	175	175	175
<b>8656G</b>	<b>Each</b>	<b>24,60</b>	<b>24,10</b>	<b>25,00</b>	<b>26,10</b>	<b>27,40</b>	<b>28,90</b>	<b>31,80</b>	<b>30,80</b>	<b>31,80</b>	<b>32,30</b>	<b>34,70</b>	<b>43,30</b>	<b>38,10</b>	<b>38,50</b>	<b>38,10</b>

Ø	mm	30,5	31	31,5	32	32,5	33	33,5	34	34,5	35	35,5	36	36,5	37	37,5
Drive	C.M.	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4
Overall length	mm	301	301	301	334	334	334	334	339	339	339	339	344	344	344	344
Helix length	mm	180	180	180	185	185	185	185	190	190	190	190	195	195	195	195
<b>8656G</b>	<b>Each</b>	<b>46,70</b>	<b>45,20</b>	<b>51,10</b>	<b>47,60</b>	<b>53,90</b>	<b>51,10</b>	<b>56,30</b>	<b>58,20</b>	<b>64,50</b>	<b>59,70</b>	<b>68,30</b>	<b>64,10</b>	<b>70,70</b>	<b>68,80</b>	<b>78,90</b>

Ø	mm	38	38,5	39	39,5	40	40,5	41	41,5	42	42,5	43	43,5	44	44,5	45
Drive	C.M.	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Overall length	mm	349	349	349	349	349	354	354	354	354	354	359	359	359	359	359
Helix length	mm	200	200	200	200	200	205	205	205	205	205	210	210	210	210	210
<b>8656G</b>	<b>Each</b>	<b>73,60</b>	<b>88,50</b>	<b>79,80</b>	<b>100,10</b>	<b>84,20</b>	<b>104,00</b>	<b>90,40</b>	<b>109,00</b>	<b>97,20</b>	<b>114,00</b>	<b>104,00</b>	<b>118,00</b>	<b>109,00</b>	<b>124,00</b>	<b>115,00</b>

Ø	mm	45,5	46	46,5	47	47,5	48	48,5	49	49,5	50	51	52	53	54	55
Drive	C.M.	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5
Overall length	mm	364	364	364	364	364	369	369	369	369	369	412	412	412	417	417
Helix length	mm	215	215	215	215	215	220	220	220	220	220	225	225	225	230	230
<b>8656G</b>	<b>Each</b>	<b>131,00</b>	<b>118,00</b>	<b>146,00</b>	<b>125,00</b>	<b>150,00</b>	<b>129,00</b>	<b>154,00</b>	<b>135,00</b>	<b>160,00</b>	<b>139,00</b>	<b>168,00</b>	<b>181,00</b>	<b>190,00</b>	<b>196,00</b>	<b>199,00</b>

Ø	mm	56	57	58	59	60	75	80
Drive	C.M.	5	5	5	5	5	5	6
Overall length	mm	417	422	422	422	422	442	514
Helix length	mm	230	235	235	235	235	255	260
<b>8656G</b>	<b>Each</b>	<b>276,00</b>	<b>276,00</b>	<b>229,00</b>	<b>292,00</b>	<b>246,00</b>	<b>500,00</b>	<b>514,00</b>

Sizes mm 75 and 80 running out of stock.

**CENTRE DRILLS**

**8660G**

**SCU**



**HSS**

**Prod. SCU**

DIN 333 – Form A. HSS.

For drilling metals and steel. Right-hand cutting.

60° countersink taper .Cutting angle 135°.

Tip Ø	mm	<b>1</b>	<b>1,25</b>	<b>1,6</b>	<b>2</b>	<b>2,5</b>	<b>3,15</b>	<b>4</b>
Body Ø	mm	3,15	3,15	4	5	6,3	8	10
Overall length	mm	31,5	31,5	35,5	40	45	50	56
<b>8660G</b>	<b>Each</b>	<b>1,54</b>	<b>1,54</b>	<b>1,74</b>	<b>2,12</b>	<b>2,30</b>	<b>3,08</b>	<b>5,00</b>
Tip Ø	mm	<b>5</b>	<b>6,3</b>	<b>8</b>	<b>10</b>			
Body Ø	mm	12,5	16	20	25			
Overall length	mm	63	71	80	100			
<b>8660G</b>	<b>Each</b>	<b>6,34</b>	<b>12,50</b>	<b>26,10</b>	<b>61,60</b>			

**DRILL BITS WITH EXAGONAL SHANK 1/4**

**8665**

**VÖLKEL**



**HSSG**

**1/4"**

**Orig. Völkel - Art. 671**

Short type, 1/4 hex drive, suitable for use with screwdrivers, screws, drills, etc HSS-G.

For drilling metals with resistance up to R 600 N/mm², light alloys, plastic material, etc.

Ø	mm	<b>1</b>	<b>1,5</b>	<b>2</b>	<b>2,5</b>	<b>3</b>	<b>3,3</b>	<b>3,5</b>	<b>4</b>
Overall length	mm	32	32	34	36	38	40	40	44
Helix length	mm	7	10	12	14	16	18	18	20
<b>8665</b>	<b>Each</b>	<b>4,50</b>	<b>4,50</b>	<b>4,50</b>	<b>4,50</b>	<b>4,50</b>	<b>4,50</b>	<b>4,50</b>	<b>4,50</b>
Ø	mm	<b>4,2</b>	<b>4,5</b>	<b>5</b>	<b>5,5</b>	<b>6</b>	<b>6,5</b>	<b>6,8</b>	<b>7</b>
Overall length	mm	45	46	50	50	50	50	50	50
Helix length	mm	20	24	26	26	26	30	30	30
<b>8665</b>	<b>Each</b>	<b>4,50</b>	<b>4,50</b>	<b>4,50</b>	<b>4,64</b>	<b>4,64</b>	<b>4,64</b>	<b>4,64</b>	<b>4,64</b>
Ø	mm	<b>7,5</b>	<b>8</b>	<b>8,5</b>	<b>9</b>	<b>9,5</b>	<b>10</b>	<b>10,2</b>	
Overall length	mm	51	51	53	53	54	54	54	
Helix length	mm	32	32	33	33	38	38	38	
<b>8665</b>	<b>Each</b>	<b>5,44</b>	<b>5,44</b>	<b>6,24</b>	<b>6,24</b>	<b>7,04</b>	<b>7,04</b>	<b>7,04</b>	

For assortments with bits for metals and wood see Art. 4525 GB.

**8665A**

**VÖLKEL**



**HSSG**

**1/4"**

**Orig. Völkel - Art. 67100**

Assortment of 19 points, 0.5 mm progression.

Contents:

1 pcs. per size Art. 8665 Ø 1-1.5-2-2.5-3-3.5-4-4.5-5-5.5-6-6.5-7-7.5-8-8.5-9-9.5-10mm. In plastic holder.

<b>8665A</b>	<b>Each</b>	<b>77,70</b>
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**8665E**

**SCU**



**HSS**

**1/4"**

**Prod. SCU**

Short type, 1/4 - E 6.3 hex drive, suitable for use with screwdrivers, screws, drills, etc In HSS.

For drilling metals with resistance up to R 600 N/mm², light alloys, plastic materials, etc.

Ø	mm	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
Overall length	mm	57	70	80	95	110	110
Helix length	mm	12	25	32	40	50	55
<b>8665E</b>	<b>Each</b>	<b>1,26</b>	<b>1,36</b>	<b>1,48</b>	<b>1,92</b>	<b>2,50</b>	<b>3,18</b>

**GONIOMETER FOR TWIST DRILL TO GRIND**

**8680G**

**SCU**



**Prod. SCU**

Suitable for positioning drills against the grinding wheel. The positioning is carried out on 2 axes. Micrometric adjustment for drill feed.

Aluminium alloy body with steel adjusting bars.

For drills from 3mm to 19mm with cylindrical shank.

<b>8680G</b>	<b>Each</b>	<b>30,10</b>
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**13**

**TWIST DRILL GRINDER MACHINES**

**Prod. SCU**

Bench-type for HSS, HSS-Co5, HSS-Co8 drills and hardmetal with cylindrical shank from 2.5 to 19mm.

Suitable for sharpening cutting angles from 115° to 140°. Ideal for sharpening Split Point.

Monophase motor 230 V - 50 Hz, power 750 W.

Diamond grinding wheel, precise and long lasting.

Complete.

8681

Each 431,00



Professional bench-type for HSS, HSS-E drills and hardmetal with cylindrical shank from 3 to 13mm.

Easy to use, easy and precise adjustment. Suitable for sharpening or creating cutting and rake angles and tip web thinning.

Admitted angle from 90° to 144° for drills Ø 6mm to 13mm, 118° to 135° for drills Ø 3mm to 6.

Supplied with elastic collets (ER 20) 3-4-5-6-7-8-9-10-11-12-13mm placed inside in a dedicated protected area.

Monophase motor 230 V - 50 Hz. Weight 11Kg.

Diamond grinding wheel, precise and long lasting.

Complete.

8682

Each 2.020,00

We supply the diamond wheel to sharpen HSS and HSS-E drills.  
Diamond wheel for carbide tips available on request.



BACK PLIERS HOLDER

Professional bench-type for HSS, HSS-E drills and hardmetal with cylindrical shank from 12 to 25mm.

Easy to use, easy and precise adjustment. Suitable for sharpening or creating cutting and rake angles and tip web thinning.

Admitted angle from 90° to 144° for all diameters.

Supplied with elastic collets (ER 40) 12-13-14-15-16-17-18-19-20-21-22-23-24-25mm placed inside in a dedicated protected area.

Monophase motor 220/240 V - 50/60 Hz. Weight 27Kg.

Diamond grinding wheel, precise and long lasting.

Complete.

8683

Each 3.800,00

We supply the diamond wheel to sharpen HSS and HSS-E drills.  
Diamond wheel for carbide tips available on request.



BACK PLIERS HOLDER

Professional-industrial type, column type, for conical cylindrical tip drive, 5 to 40mm.

It allows to sharpen or make the cutting angle, the rake angle and to thin the core tip.

Cutting edges sharpening angle 118°.

Rake angle from 0° to 15°.

Tri-phase motor 380 V, 50 Hz, HP 0.9, 2800 r.p.m., weight 60kg.

Supplied with 1 grinding wheel made of white coridon of which 1 cup grinding wheel Ø 200x40mm, hole 20mm and 1 standard gray corindon Ø 200x25mm, hole 20mm. Device for grinding wheel dressing complete with diamond.

Dimensions 800x710x1300h mm.

Complete.

8690

Each 5.200,00



**UNIVERSAL GRINDING MACHINES**

**8692G SCU**



**Prod. SCU**

Professional type.  
 With diamond disk dia.180mm, grain D76, usable on both sides.  
 Thanks to this holed disk, horizontally positioned, and by means of the enlargement lens supplied, it is possible to have an excellent view of the grinding operation being carried out.  
 For sharpening or restoring cutting edges of various tools (screwdrivers, chisels, drills, knives, tools for lathes and planes, scrapers, pincers for working tiles, glass, plastic, etc.).  
 Monophase motor 230V-50Hz.  
 Manufactured according to European safety standards.  
 Supplied with enlargement lens with light.

- 8692G** Each **1.430,00**
- Product running out of stock.
- Spare diamond grinding wheel, medium grain (D76). For Art. 8692 G.  
**O8692G** Each **422,00**
- Diamond grinding wheel, fine grain (D46). For Art. 8692 G.  
**O8692G 2** Each **422,00**
- Spare enlargement lens with light. For Art. 8692 G.  
**O8692G 5** Each **272,00**

Articoli in esaurimento.

**DRILL BUSHES**

**8695 SCU**



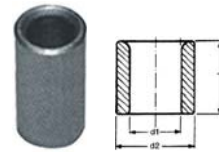
**Prod. SCU**

SHORT type without collar. DIN 179.  
 In special steel, hardened and ground. Hardness Hrc 60-62.  
 Tolerance: int. Ø F7 – ext. Ø n. 6.

Int Ø d1	mm	2	2,1	2,2	2,25	2,3	2,4	2,5	2,6	2,7	2,75	2,8	2,9	3	3,1	3,2
d2 ext. Ø	mm	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
Height l	mm	6	6	6	6	6	6	6	6	8	8	8	8	8	8	8
<b>8695</b>	Each	<b>1,82</b>	<b>1,82</b>	<b>1,82</b>	<b>1,82</b>	<b>1,82</b>	<b>1,82</b>	<b>1,82</b>	<b>1,82</b>	<b>1,82</b>	<b>1,82</b>	<b>1,82</b>	<b>1,82</b>	<b>1,82</b>	<b>1,82</b>	<b>1,82</b>
Int Ø d1	mm	3,25	3,3	3,4	3,5	3,6	3,7	3,75	3,8	3,9	4	4,1	4,2	4,25	4,3	4,4
d2 ext. Ø	mm	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8
Height l	mm	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
<b>8695</b>	Each	<b>1,82</b>	<b>1,82</b>	<b>1,64</b>	<b>1,64</b>	<b>1,64</b>	<b>1,64</b>	<b>1,64</b>	<b>1,64</b>	<b>1,64</b>	<b>1,64</b>	<b>1,74</b>	<b>1,74</b>	<b>1,74</b>	<b>1,74</b>	<b>1,74</b>
Int Ø d1	mm	4,5	4,6	4,7	4,75	4,8	4,9	5	5,1	5,2	5,25	5,3	5,4	5,5	5,6	5,7
d2 ext. Ø	mm	8	8	8	8	8	8	8	10	10	10	10	10	10	10	10
Height l	mm	8	8	8	8	8	8	8	10	10	10	10	10	10	10	10
<b>8695</b>	Each	<b>1,74</b>	<b>1,74</b>	<b>1,74</b>	<b>1,74</b>	<b>1,74</b>	<b>1,74</b>	<b>1,74</b>	<b>1,90</b>	<b>1,90</b>	<b>1,90</b>	<b>1,90</b>	<b>1,90</b>	<b>1,90</b>	<b>1,90</b>	<b>1,90</b>
Int Ø d1	mm	5,75	5,8	5,9	6	6,1	6,2	6,25	6,3	6,4	6,5	6,6	6,7	6,75	6,8	6,9
d2 ext. Ø	mm	10	10	10	10	12	12	12	12	12	12	12	12	12	12	12
Height l	mm	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
<b>8695</b>	Each	<b>1,90</b>	<b>1,90</b>	<b>1,90</b>	<b>1,90</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>
Int Ø d1	mm	7	7,1	7,2	7,25	7,3	7,4	7,5	7,6	7,7	7,75	7,8	7,9	8	8,1	8,2
d2 ext. Ø	mm	12	12	12	12	12	12	12	12	12	12	12	12	12	15	15
Height l	mm	10	10	10	10	10	10	10	10	10	10	10	10	10	12	12
<b>8695</b>	Each	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>2,08</b>	<b>2,08</b>
Int Ø d1	mm	8,25	8,3	8,4	8,5	8,6	8,7	8,75	8,8	8,9	9	9,1	9,2	9,25	9,3	9,4
d2 ext. Ø	mm	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Height l	mm	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
<b>8695</b>	Each	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>
Int Ø d1	mm	9,5	9,6	9,7	9,75	9,8	9,9	10	10,1	10,2	10,25	10,3	10,4	10,5	10,6	10,7
d2 ext. Ø	mm	15	15	15	15	15	15	15	18	18	18	18	18	18	18	18
Height l	mm	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
<b>8695</b>	Each	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>
Int Ø d1	mm	10,75	10,8	10,9	11	11,1	11,2	11,25	11,3	11,4	11,5	11,6	11,7	11,75	11,8	11,9
d2 ext. Ø	mm	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Height l	mm	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
<b>8695</b>	Each	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>	<b>2,42</b>
Int Ø d1	mm	12	12,1	12,2	12,25	12,3	12,4	12,5	12,6	12,7	12,75	12,8	12,9	13	13,25	13,5
d2 ext. Ø	mm	18	22	22	22	22	22	22	22	22	22	22	22	22	22	22
Height l	mm	12	16	16	16	16	16	16	16	16	16	16	16	16	16	16
<b>8695</b>	Each	<b>2,42</b>	<b>2,68</b>	<b>2,68</b>	<b>2,68</b>	<b>2,68</b>	<b>2,68</b>	<b>2,68</b>	<b>2,68</b>	<b>2,68</b>	<b>2,68</b>	<b>2,68</b>	<b>2,68</b>	<b>2,68</b>	<b>2,68</b>	<b>2,68</b>
Int Ø d1	mm	13,75	14	14,25	14,5	14,75	15	15,25	15,5	15,75	16	16,5	17	18	19	20
d2 ext. Ø	mm	22	22	22	22	22	22	26	26	26	26	26	26	30	30	30
Height l	mm	16	16	16	16	16	16	16	16	16	16	16	16	16	20	20
<b>8695</b>	Each	<b>2,68</b>	<b>2,68</b>	<b>2,68</b>	<b>2,68</b>	<b>2,68</b>	<b>2,68</b>	<b>3,62</b>	<b>3,62</b>	<b>3,62</b>	<b>3,62</b>	<b>3,62</b>	<b>3,62</b>	<b>3,62</b>	<b>4,50</b>	<b>4,50</b>
Int Ø d1	mm	21	22	23	24	25	26	27	28	29	30					
d2 ext. Ø	mm	30	30	35	35	35	35	42	42	42	42					
Height l	mm	20	20	20	20	20	20	25	25	25	25					
<b>8695</b>	Each	<b>4,50</b>	<b>4,50</b>	<b>5,26</b>	<b>5,26</b>	<b>5,26</b>	<b>5,26</b>	<b>9,50</b>	<b>9,50</b>	<b>9,50</b>	<b>9,50</b>					

Prices in EURO - VAT not included

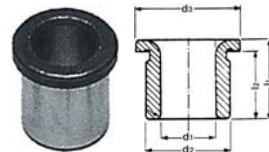
LONG type without collar. DIN 179.  
In special steel, hardened and ground. Hardness Hrc 60-62.  
Tolerance: int. Ø F7 – ext. Ø n. 6.



8696

Int Ø d1	mm	<b>2</b>	<b>2,5</b>	<b>3</b>	<b>3,2</b>	<b>3,5</b>	<b>4</b>	<b>4,3</b>	<b>4,5</b>	<b>5</b>	<b>5,5</b>	<b>6</b>	<b>6,5</b>	<b>7</b>	<b>7,5</b>	<b>8</b>
d2 ext. Ø	mm	5	5	6	6	7	7	8	8	8	10	10	12	12	12	12
Height l	mm	9	9	12	12	12	12	12	12	12	16	16	16	16	16	16
<b>8696</b>	<b>Each</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>1,90</b>	<b>1,90</b>	<b>1,98</b>	<b>1,98</b>	<b>1,98</b>	<b>2,16</b>	<b>2,16</b>	<b>2,24</b>	<b>2,24</b>	<b>2,24</b>	<b>2,24</b>
Int Ø d1	mm	<b>8,5</b>	<b>9</b>	<b>9,5</b>	<b>10</b>	<b>10,5</b>	<b>11</b>	<b>11,5</b>	<b>12</b>	<b>12,5</b>	<b>13</b>	<b>13,5</b>	<b>14</b>	<b>14,5</b>	<b>15</b>	<b>15,5</b>
d2 ext. Ø	mm	15	15	15	15	18	18	18	18	22	22	22	22	22	22	26
Height l	mm	20	20	20	20	20	20	20	20	28	28	28	28	28	28	28
<b>8696</b>	<b>Each</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,94</b>	<b>2,94</b>	<b>2,94</b>	<b>2,94</b>	<b>3,62</b>	<b>3,62</b>	<b>3,62</b>	<b>3,62</b>	<b>3,62</b>	<b>3,62</b>	<b>4,58</b>
Int Ø d1	mm	<b>16</b>	<b>16,5</b>	<b>17</b>	<b>17,5</b>	<b>18</b>	<b>18,5</b>	<b>19</b>	<b>19,5</b>	<b>20</b>						
d2 ext. Ø	mm	26	26	26	26	26	30	30	30	30						
Height l	mm	28	28	28	28	28	36	36	36	36						
<b>8696</b>	<b>Each</b>	<b>4,58</b>	<b>4,58</b>	<b>4,58</b>	<b>4,58</b>	<b>4,58</b>	<b>5,62</b>	<b>5,62</b>	<b>5,62</b>	<b>5,62</b>						

SHORT type with collar. DIN 172.  
In special steel, hardened and ground. Hardness Hrc 60-62.  
Tolerance: int. Ø F7 – ext. Ø n. 6.



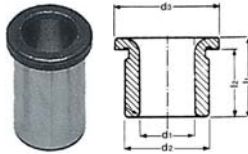
8697

Int Ø d1	mm	<b>2</b>	<b>2,1</b>	<b>2,2</b>	<b>2,25</b>	<b>2,3</b>	<b>2,4</b>	<b>2,5</b>	<b>2,6</b>	<b>2,7</b>	<b>2,75</b>	<b>2,8</b>	<b>2,9</b>	<b>3</b>	<b>3,1</b>	<b>3,2</b>
d2-d3 ext. Ø	mm	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8	6-9	6-9	6-9	6-9	6-9	6-9	6-9
l1-l2 Height	mm	6-4	6-4	6-4	6-4	6-4	6-4	6-4	6-4	8-5,5	8-5,5	8-5,5	8-5,5	8-5,5	8-5,5	8-5,5
<b>8697</b>	<b>Each</b>	<b>2,40</b>	<b>2,40</b>	<b>2,40</b>	<b>2,40</b>	<b>2,40</b>	<b>2,40</b>	<b>2,40</b>	<b>2,40</b>	<b>2,36</b>	<b>2,36</b>	<b>2,36</b>	<b>2,36</b>	<b>2,36</b>	<b>2,36</b>	<b>2,36</b>
Int Ø d1	mm	<b>3,25</b>	<b>3,3</b>	<b>3,4</b>	<b>3,5</b>	<b>3,6</b>	<b>3,7</b>	<b>3,75</b>	<b>3,8</b>	<b>3,9</b>	<b>4</b>	<b>4,1</b>	<b>4,2</b>	<b>4,25</b>	<b>4,3</b>	<b>4,4</b>
d2-d3 ext. Ø	mm	6-9	6-9	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	8-11	8-11	8-11	8-11	8-11
l1-l2 Height	mm	8-5,5	8-5,5	8-5,5	8-5,5	8-5,5	8-5,5	8-5,5	8-5,5	8-5,5	8-5,5	8-5,5	8-5,5	8-5,5	8-5,5	8-5,5
<b>8697</b>	<b>Each</b>	<b>2,36</b>	<b>2,36</b>	<b>2,24</b>	<b>2,24</b>	<b>2,24</b>	<b>2,24</b>	<b>2,24</b>	<b>2,24</b>	<b>2,24</b>	<b>2,24</b>	<b>2,16</b>	<b>2,16</b>	<b>2,16</b>	<b>2,16</b>	<b>2,16</b>
Int Ø d1	mm	<b>4,5</b>	<b>4,6</b>	<b>4,7</b>	<b>4,75</b>	<b>4,8</b>	<b>4,9</b>	<b>5</b>	<b>5,1</b>	<b>5,2</b>	<b>5,25</b>	<b>5,3</b>	<b>5,4</b>	<b>5,5</b>	<b>5,6</b>	<b>5,7</b>
d2-d3 ext. Ø	mm	8-11	8-11	8-11	8-11	8-11	8-11	8-11	10-13	10-13	10-13	10-13	10-13	10-13	10-13	10-13
l1-l2 Height	mm	8-5,5	8-5,5	8-5,5	8-5,5	8-5,5	8-5,5	8-5,5	10-7	10-7	10-7	10-7	10-7	10-7	10-7	10-7
<b>8697</b>	<b>Each</b>	<b>2,16</b>	<b>2,16</b>	<b>2,16</b>	<b>2,16</b>	<b>2,16</b>	<b>2,16</b>	<b>2,16</b>	<b>2,24</b>	<b>2,24</b>	<b>2,24</b>	<b>2,24</b>	<b>2,24</b>	<b>2,24</b>	<b>2,24</b>	<b>2,24</b>
Int Ø d1	mm	<b>5,75</b>	<b>5,8</b>	<b>5,9</b>	<b>6</b>	<b>6,1</b>	<b>6,2</b>	<b>6,25</b>	<b>6,3</b>	<b>6,4</b>	<b>6,5</b>	<b>6,6</b>	<b>6,7</b>	<b>6,75</b>	<b>6,8</b>	<b>6,9</b>
d2-d3 ext. Ø	mm	10-13	10-13	10-13	10-13	12-15	12-15	12-15	12-15	12-15	12-15	12-15	12-15	12-15	12-15	12-15
l1-l2 Height	mm	10-7	10-7	10-7	10-7	10-7	10-7	10-7	10-7	10-7	10-7	10-7	10-7	10-7	10-7	10-7
<b>8697</b>	<b>Each</b>	<b>2,24</b>	<b>2,24</b>	<b>2,24</b>	<b>2,24</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>
Int Ø d1	mm	<b>7</b>	<b>7,1</b>	<b>7,2</b>	<b>7,25</b>	<b>7,3</b>	<b>7,4</b>	<b>7,5</b>	<b>7,6</b>	<b>7,7</b>	<b>7,75</b>	<b>7,8</b>	<b>7,9</b>	<b>8</b>	<b>8,1</b>	<b>8,2</b>
d2-d3 ext. Ø	mm	12-15	12-15	12-15	12-15	12-15	12-15	12-15	12-15	12-15	12-15	12-15	12-15	12-15	15-18	15-18
l1-l2 Height	mm	10-7	10-7	10-7	10-7	10-7	10-7	10-7	10-7	10-7	10-7	10-7	10-7	10-7	12-9	12-9
<b>8697</b>	<b>Each</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,50</b>	<b>2,86</b>	<b>2,86</b>
Int Ø d1	mm	<b>8,25</b>	<b>8,3</b>	<b>8,4</b>	<b>8,5</b>	<b>8,6</b>	<b>8,7</b>	<b>8,75</b>	<b>8,8</b>	<b>8,9</b>	<b>9</b>	<b>9,1</b>	<b>9,2</b>	<b>9,25</b>	<b>9,3</b>	<b>9,4</b>
d2-d3 ext. Ø	mm	15-18	15-18	15-18	15-18	15-18	15-18	15-18	15-18	15-18	15-18	15-18	15-18	15-18	15-18	15-18
l1-l2 Height	mm	12-9	12-9	12-9	12-9	12-9	12-9	12-9	12-9	12-9	12-9	12-9	12-9	12-9	12-9	12-9
<b>8697</b>	<b>Each</b>	<b>2,86</b>	<b>2,86</b>	<b>2,86</b>	<b>2,86</b>	<b>2,86</b>	<b>2,86</b>	<b>2,86</b>	<b>2,86</b>	<b>2,86</b>	<b>2,86</b>	<b>2,86</b>	<b>2,86</b>	<b>2,86</b>	<b>2,86</b>	<b>2,86</b>
Int Ø d1	mm	<b>9,5</b>	<b>9,6</b>	<b>9,7</b>	<b>9,75</b>	<b>9,8</b>	<b>9,9</b>	<b>10</b>	<b>10,1</b>	<b>10,2</b>	<b>10,25</b>	<b>10,3</b>	<b>10,4</b>	<b>10,5</b>	<b>10,6</b>	<b>10,7</b>
d2-d3 ext. Ø	mm	15-18	15-18	15-18	15-18	15-18	15-18	15-18	18-22	18-22	18-22	18-22	18-22	18-22	18-22	18-22
l1-l2 Height	mm	12-9	12-9	12-9	12-9	12-9	12-9	12-9	12-8	12-8	12-8	12-8	12-8	12-8	12-8	12-8
<b>8697</b>	<b>Each</b>	<b>2,86</b>	<b>2,86</b>	<b>2,86</b>	<b>2,86</b>	<b>2,86</b>	<b>2,86</b>	<b>2,86</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>
Int Ø d1	mm	<b>10,75</b>	<b>10,8</b>	<b>10,9</b>	<b>11</b>	<b>11,1</b>	<b>11,2</b>	<b>11,25</b>	<b>11,3</b>	<b>11,4</b>	<b>11,5</b>	<b>11,6</b>	<b>11,7</b>	<b>11,75</b>	<b>11,8</b>	<b>11,9</b>
d2-d3 ext. Ø	mm	18-22	18-22	18-22	18-22	18-22	18-22	18-22	18-22	18-22	18-22	18-22	18-22	18-22	18-22	18-22
l1-l2 Height	mm	12-8	12-8	12-8	12-8	12-8	12-8	12-8	12-8	12-8	12-8	12-8	12-8	12-8	12-8	12-8
<b>8697</b>	<b>Each</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>	<b>3,12</b>
Int Ø d1	mm	<b>12</b>	<b>12,1</b>	<b>12,2</b>	<b>12,25</b>	<b>12,3</b>	<b>12,4</b>	<b>12,5</b>	<b>12,6</b>	<b>12,7</b>	<b>12,75</b>	<b>12,8</b>	<b>12,9</b>	<b>13</b>	<b>13,25</b>	<b>13,5</b>
d2-d3 ext. Ø	mm	18-22	22-26	22-26	22-26	22-26	22-26	22-26	22-26	22-26	22-26	22-26	22-26	22-26	22-26	22-26
l1-l2 Height	mm	12-8	16-12	16-12	16-12	16-12	16-12	16-12	16-12	16-12	16-12	16-12	16-12	16-12	16-12	16-12
<b>8697</b>	<b>Each</b>	<b>3,12</b>	<b>3,54</b>	<b>3,54</b>	<b>3,54</b>	<b>3,54</b>	<b>3,54</b>	<b>3,54</b>	<b>3,54</b>	<b>3,54</b>	<b>3,54</b>	<b>3,54</b>	<b>3,54</b>	<b>3,54</b>	<b>3,54</b>	<b>3,54</b>
Int Ø d1	mm	<b>13,75</b>	<b>14</b>	<b>14,25</b>	<b>14,5</b>	<b>14,75</b>	<b>15</b>	<b>15,25</b>	<b>15,5</b>	<b>15,75</b>	<b>16</b>	<b>16,5</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
d2-d3 ext. Ø	mm	22-26	22-26	22-26	22-26	22-26	22-26	26-30	26-30	26-30	26-30	26-30	26-30	26-30	30-34	30-34
l1-l2 Height	mm	16-12	16-12	16-12	16-12	16-12	16-12	16-12	16-12	16-12	16-12	16-12	16-12	16-12	20-15	20-15
<b>8697</b>	<b>Each</b>	<b>3,54</b>	<b>3,54</b>	<b>3,54</b>	<b>3,54</b>	<b>3,54</b>	<b>3,54</b>	<b>4,50</b>	<b>4,50</b>	<b>4,50</b>	<b>4,50</b>	<b>4,50</b>	<b>4,50</b>	<b>4,50</b>	<b>5,88</b>	<b>5,88</b>
Int Ø d1	mm	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>						
d2-d3 ext. Ø	mm	30-34	30-34	35-39	35-39	35-39	35-39	42-46	42-46	42-46						
l1-l2 Height	mm	20-15	20-15	20-15	20-15	20-15	20-15	25-20	25-20	25-20						
<b>8697</b>	<b>Each</b>	<b>5,88</b>	<b>5,88</b>	<b>7,50</b>	<b>7,50</b>	<b>7,50</b>	<b>7,50</b>	<b>11,30</b>	<b>11,30</b>	<b>11,30</b>						

Prices in EURO - VAT not included

**13**

**8698 SCU**



LONG type with collar. DIN 172.  
In special steel, hardened and ground. Hardness Hrc 60-62.  
Tolerance: int. Ø F7 – ext. Ø n. 6.

Int Ø d1	mm	2	2,5	3	3,2	3,5	4	4,3	4,5	5	5,5	6	6,5	7	7,5
d2-d3 ext. Ø	mm	5-8	5-8	6-9	6-9	7-10	7-10	8-11	8-11	8-11	10-13	10-13	12-15	12-15	12-15
I1-I2 Height	mm	9-7	9-7	12-9,5	12-9,5	12-9,5	12-9,5	12-9,5	12-9,5	12-9,5	16-13	16-13	16-13	16-13	16-13
<b>8698</b>	Each	2,60	2,60	2,60	2,60	2,52	2,52	2,32	2,32	2,32	2,50	2,50	2,76	2,76	2,76
Int Ø d1	mm	8	8,5	9	9,5	10	10,5	11	11,5	12	12,5	13	13,5	14	14,5
d2-d3 ext. Ø	mm	12-15	15-18	15-18	15-18	15-18	18-22	18-22	18-22	18-22	22-26	22-26	22-26	22-26	22-26
I1-I2 Height	mm	16-13	20-17	20-17	20-17	20-17	20-16	20-16	20-16	20-16	28-24	28-24	28-24	28-24	28-24
<b>8698</b>	Each	2,76	3,12	3,12	3,12	3,12	3,36	3,36	3,36	3,36	5,00	5,00	5,00	5,00	5,00
Int Ø d1	mm	15	15,5	16	16,5	17	17,5	18	18,5	19	19,5	20			
d2-d3 ext. Ø	mm	22-26	26-30	26-30	26-30	26-30	26-30	26-30	30-34	30-34	30-34	30-34			
I1-I2 Height	mm	28-24	28-24	28-24	28-24	28-24	28-24	28-24	36-31	36-31	36-31	36-31			
<b>8698</b>	Each	5,00	5,88	5,88	5,88	5,88	5,88	5,88	7,76	7,76	7,76	7,76			

**END MILLS**

**8732 SCU**

Prod. SCU  
Two-flute end mills. Short series. DIN 327 B – UNI 8254 A-ISO 1641/1.  
Central tang drive. Weldon shank. Cutting tolerance e8.  
HSS-E COBALT 8%



HSS-E-8%

Ø	mm	2	2,5	3	3,5	4	4,5	5	5,5
Overall length	mm	48	48	49	49	51	51	52	52
Cutting edge length	mm	4	4	5	5	7	7	8	8
Drive Ø	mm	6	6	6	6	6	6	6	6
<b>8732</b>	Each	18,20	18,20	14,30	14,30	14,30	16,10	16,10	16,10
Ø	mm	6	6,5	7	7,5	8	8,5	9	9,5
Overall length	mm	52	60	60	60	61	61	61	61
Cutting edge length	mm	8	10	10	10	11	11	11	11
Drive Ø	mm	6	10	10	10	10	10	10	10
<b>8732</b>	Each	16,10	20,40	20,40	20,40	20,40	23,50	23,50	23,50
Ø	mm	10	11	12	13	14	15	16	17
Overall length	mm	63	70	73	73	73	73	79	79
Cutting edge length	mm	13	13	16	16	16	16	19	19
Drive Ø	mm	10	12	12	12	12	12	16	16
<b>8732</b>	Each	23,50	27,90	27,90	40,30	40,30	41,40	41,40	48,90
Ø	mm	18	19	20	22	25	30		
Overall length	mm	79	79	88	88	102	102		
Cutting edge length	mm	19	19	22	22	26	26		
Drive Ø	mm	16	16	20	20	25	25		
<b>8732</b>	Each	45,20	60,90	56,50	70,90	82,80	116,00		

**8734 SCU**

Product description as Art. 8732  
HSS-E COBALT 8%, TiAlN coating.

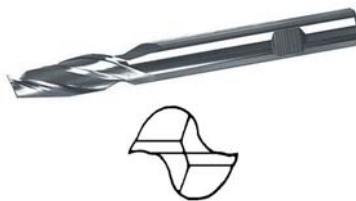


HSS-E-8% TiAlN

Ø	mm	4	5	6	8	10	12	14
Overall length	mm	51	52	52	61	63	73	73
Cutting edge length	mm	7	8	8	11	13	16	16
Drive Ø	mm	6	6	6	10	10	12	12
<b>8734</b>	Each	29,30	29,30	29,30	39,40	43,90	59,10	65,80
Ø	mm	16	18	20				
Overall length	mm	79	79	88				
Cutting edge length	mm	19	19	22				
Drive Ø	mm	16	16	20				
<b>8734</b>	Each	86,10	92,10	110,00				

**8737 SCU**

Two-flute end mills. Long series. ISO 1641/1. Central tang drive.  
Weldon shank. Cutting tolerance e8.  
HSS-E COBALT 8%



HSS-E-8%

Ø	mm	3	4	5	6	8	10	12
Overall length	mm	56	63	68	68	88	95	110
Cutting edge length	mm	8	11	13	13	19	22	26
Drive Ø	mm	6	6	6	6	10	10	12
<b>8737</b>	Each	20,30	20,30	20,30	20,30	21,90	28,50	33,80
Ø	mm	14	16	18	20			
Overall length	mm	110	123	123	141			
Cutting edge length	mm	26	32	32	38			
Drive Ø	mm	12	16	16	20			
<b>8737</b>	Each	42,20	51,10	62,50	71,60			



Two-flute, ball nose end mills. Short series. ISO 1641/1.  
Weldon shank. Cutting tolerance e8.

HSS-E COBALT 8%

Ø	mm	3	4	5	6	7	8	9	10
Overall length	mm	49	51	52	52	60	61	61	63
Cutting edge length	mm	5	7	8	8	10	11	11	13
Drive Ø	mm	6	6	6	6	10	10	10	10
<b>8738</b>	<b>Each</b>	<b>24,90</b>	<b>24,90</b>	<b>24,90</b>	<b>24,90</b>	<b>31,00</b>	<b>31,00</b>	<b>34,70</b>	<b>34,70</b>
Ø	mm	11	12	13	14	15	16	18	20
Overall length	mm	70	73	73	73	73	79	79	82
Cutting edge length	mm	13	16	16	16	16	19	19	22
Drive Ø	mm	12	12	12	12	12	16	16	20
<b>8738</b>	<b>Each</b>	<b>42,70</b>	<b>42,70</b>	<b>48,80</b>	<b>48,80</b>	<b>55,90</b>	<b>55,90</b>	<b>65,90</b>	<b>77,50</b>

SCU

8738



HSS-E-8%

Product description as Art. 8738

HSS-E COBALT 8%, TiAIN coating.

Ø	mm	4	5	6	8	10	12	14
Overall length	mm	51	52	52	61	63	73	73
Cutting edge length	mm	7	8	8	11	13	16	16
Drive Ø	mm	6	6	6	10	10	12	12
<b>8738E</b>	<b>Each</b>	<b>40,70</b>	<b>40,70</b>	<b>40,70</b>	<b>50,50</b>	<b>56,50</b>	<b>68,50</b>	<b>78,30</b>
Ø	mm	16	18	20				
Overall length	mm	79	79	82				
Cutting edge length	mm	19	19	22				
Drive Ø	mm	16	16	20				
<b>8738E</b>	<b>Each</b>	<b>90,40</b>	<b>107,00</b>	<b>123,00</b>				

SCU

8738E



HSS-E-8% TiAIN

Two-flute, ball nose end mills. Long series. ISO 1641/1.

Weldon shank. Cutting tolerance e8.

HSS-E COBALT 8%.

Ø	mm	3	4	5	6	8	10	12
Overall length	mm	56	63	68	68	88	95	110
Cutting edge length	mm	8	11	13	13	19	22	26
Drive Ø	mm	6	6	6	6	10	10	12
<b>8739</b>	<b>Each</b>	<b>31,70</b>	<b>31,70</b>	<b>31,70</b>	<b>31,70</b>	<b>40,40</b>	<b>46,50</b>	<b>54,10</b>
Ø	mm	14	16	18	20			
Overall length	mm	110	123	123	141			
Cutting edge length	mm	26	32	32	38			
Drive Ø	mm	12	16	16	20			
<b>8739</b>	<b>Each</b>	<b>61,10</b>	<b>69,10</b>	<b>92,10</b>	<b>108,00</b>			

SCU

8739



HSS-E-8%

Three-flute end mills. Short series. DIN 844 A-UNI 8244 A-ISO 1641/1.

Central tang drive. Weldon shank. Cutting tolerance e8

HSS-E COBALT 8%

Ø	mm	3	4	5	6	7	8	9
Overall length	mm	52	55	57	53	66	69	69
Cutting edge length	mm	8	11	13	10	16	19	19
Drive Ø	mm	6	6	6	6	10	10	10
<b>8742</b>	<b>Each</b>	<b>13,30</b>	<b>13,30</b>	<b>14,90</b>	<b>14,90</b>	<b>19,60</b>	<b>19,60</b>	<b>24,90</b>
Ø	mm	10	11	12	13	14	15	16
Overall length	mm	72	79	83	83	83	83	92
Cutting edge length	mm	22	22	26	26	26	26	32
Drive Ø	mm	10	12	12	12	12	12	16
<b>8742</b>	<b>Each</b>	<b>24,90</b>	<b>27,20</b>	<b>27,20</b>	<b>34,70</b>	<b>34,70</b>	<b>39,90</b>	<b>39,90</b>
Ø	mm	18	20	22				
Overall length	mm	92	104	104				
Cutting edge length	mm	32	38	38				
Drive Ø	mm	16	20	20				
<b>8742</b>	<b>Each</b>	<b>45,20</b>	<b>55,70</b>	<b>82,80</b>				

SCU

8742



HSS-E-8%

Product description as Art. 8742

HSS-E COBALT 8%, TiAIN coating.

Ø	mm	4	5	6	8	10	12	14
Overall length	mm	55	57	57	69	72	83	83
Cutting edge length	mm	11	13	13	19	22	26	26
Drive Ø	mm	6	6	6	10	10	12	12
<b>8743</b>	<b>Each</b>	<b>20,50</b>	<b>21,90</b>	<b>21,90</b>	<b>30,60</b>	<b>35,10</b>	<b>40,90</b>	<b>51,10</b>
Ø	mm	16	18	20				
Overall length	mm	92	92	104				
Cutting edge length	mm	32	32	38				
Drive Ø	mm	16	16	20				
<b>8743</b>	<b>Each</b>	<b>61,30</b>	<b>67,10</b>	<b>83,10</b>				

SCU

8743



HSS-E-8% TiAIN

8746

SCU



HSS-E-8%

Three-flute end mills. Long series. DIN 8245 A--ISO 1641/1.

Central tang drive. Weldon shank. Cutting tolerance e8

HSS-E COBALT 8%

Ø	mm	3	4	5	6	8	10	12
Overall length	mm	56	63	68	68	88	95	110
Cutting edge length	mm	12	19	24	24	38	45	53
Drive Ø	mm	6	6	6	6	10	10	12
<b>8746</b>	<b>Each</b>	<b>22,20</b>	<b>22,20</b>	<b>22,20</b>	<b>22,20</b>	<b>28,10</b>	<b>30,40</b>	<b>37,10</b>

Ø	mm	14	16	18	20
Overall length	mm	110	123	123	141
Cutting edge length	mm	53	63	63	75
Drive Ø	mm	12	16	16	20
<b>8746</b>	<b>Each</b>	<b>43,10</b>	<b>54,50</b>	<b>65,70</b>	<b>76,90</b>

8747

SCU



HSS-E-8%

Three-flute end mills, 45° bent. Short series. ISO 1641/2.

Central tang drive. Weldon shank. Cutting tolerance J14.

HSS-E COBALT 8%.

Ø	mm	6	8	10	12	14	16	18
Overall length	mm	57	69	72	83	83	92	92
Cutting edge length	mm	13	19	22	26	26	32	32
Drive Ø	mm	6	10	10	12	12	16	16
<b>8747</b>	<b>Each</b>	<b>15,90</b>	<b>20,40</b>	<b>23,40</b>	<b>28,70</b>	<b>35,40</b>	<b>44,40</b>	<b>53,50</b>

Ø	mm	20
Overall length	mm	104
Cutting edge length	mm	38
Drive Ø	mm	20
<b>8747</b>	<b>Each</b>	<b>58,80</b>

8748

SCU



HSS-E-5%

Two-flute end mills. Short series. DIN 326 D-UNI 8260 A-ISO 1641/2.

Central tang drive. Morse taper shank and threaded hole. Cutting tolerance e8.

HSS-E COBALT 5%

Ø	mm	10	15	16	18	20	22	24
Overall length	mm	85	104	107	107	110	132	136
Cutting edge length	mm	13	16	19	19	22	22	26
Drive	C.M.	1	2	2	2	2	3	3
<b>8748</b>	<b>Each</b>	<b>40,80</b>	<b>52,50</b>	<b>47,90</b>	<b>54,30</b>	<b>66,10</b>	<b>75,90</b>	<b>81,90</b>

Ø	mm	25	30	32
Overall length	mm	136	136	171
Cutting edge length	mm	26	26	32
Drive	C.M.	3	3	4
<b>8748</b>	<b>Each</b>	<b>85,30</b>	<b>106,00</b>	<b>135,00</b>

Size mm 10 running out of stock.

8748E

SCU



HSS-E-8%

Product description as Art. 8748

HSS-E COBALT 8%

Ø	mm	10	12	15	16	18	20	22
Overall length	mm	85	88	104	107	107	110	132
Cutting edge length	mm	13	16	16	19	19	22	22
Drive	C.M.	1	1	2	2	2	2	3
<b>8748E</b>	<b>Each</b>	<b>47,10</b>	<b>47,40</b>	<b>60,20</b>	<b>60,20</b>	<b>65,90</b>	<b>81,20</b>	<b>93,10</b>

Ø	mm	24	25	30	32
Overall length	mm	136	136	136	171
Cutting edge length	mm	26	26	26	32
Drive	C.M.	3	3	3	4
<b>8748E</b>	<b>Each</b>	<b>101,00</b>	<b>103,00</b>	<b>127,00</b>	<b>161,00</b>

Sizes mm 10 and 12 running out of stock.

8749

SCU



HSS-E-5%

Three-flute end mills. Normal series. DIN 845 B- UNI 8250 – ISO 1641/2.

Central tang drive. Morse taper shank and threaded hole. Cutting tolerance e8.

HSS-E COBALT 5%

Ø	mm	14	15	16	18	20	22	24
Overall length	mm	117	117	117	117	123	140	147
Cutting edge length	mm	32	32	32	32	38	38	45
Drive	C.M.	2	2	2	2	2	3	3
<b>8749</b>	<b>Each</b>	<b>52,20</b>	<b>57,90</b>	<b>57,90</b>	<b>58,60</b>	<b>75,30</b>	<b>80,30</b>	<b>91,10</b>

Ø	mm	25	30	32
Overall length	mm	147	147	178
Cutting edge length	mm	45	45	53
Drive	C.M.	3	3	4
<b>8749</b>	<b>Each</b>	<b>93,50</b>	<b>117,00</b>	<b>156,00</b>

Size mm 14 running out of stock.

Product description as Art. 8749

HSS-E COBALT 8%

Ø	mm	15	16	18	20	22	24	25
Overall length	mm	117	117	117	123	140	147	147
Cutting edge length	mm	32	32	32	38	38	45	45
Drive	C.M.	2	2	2	2	3	3	3
<b>8749F</b>	<b>Each</b>	<b>66,60</b>	<b>66,60</b>	<b>67,50</b>	<b>86,70</b>	<b>95,80</b>	<b>105,00</b>	<b>108,00</b>

Ø	mm	30	32
Overall length	mm	147	178
Cutting edge length	mm	45	53
Drive	C.M.	3	4
<b>8749F</b>	<b>Each</b>	<b>134,00</b>	<b>179,00</b>

SCU

8749F



HSS-E-8%

**SHELL-END MILLS**

Prod. SCU

Spiral flute end mills. Short series. DIN 844 A - UNI 8244 - ISO 1641/1.

Weldon shank. Cutting tolerance J14.

Ø 3 to 22mm = 4 flute/Ø 25 and 28mm = 5 flute/Ø 30mm = 6 flute

HSS-E COBALT 8%

Ø	mm	3	4	5	6	7	8	9	10
Overall length	mm	52	55	57	57	66	69	69	72
Cutting edge length	mm	8	11	13	13	16	19	19	22
Drive Ø	mm	6	6	6	6	10	10	10	10
<b>8751</b>	<b>Each</b>	<b>14,30</b>	<b>14,30</b>	<b>15,90</b>	<b>15,90</b>	<b>20,30</b>	<b>20,30</b>	<b>23,40</b>	<b>23,40</b>

Ø	mm	11	12	13	14	15	16	17	18
Overall length	mm	79	83	83	83	83	92	92	92
Cutting edge length	mm	22	26	26	26	26	32	32	32
Drive Ø	mm	12	12	12	12	16	16	16	16
<b>8751</b>	<b>Each</b>	<b>27,90</b>	<b>27,90</b>	<b>32,40</b>	<b>32,40</b>	<b>41,40</b>	<b>41,40</b>	<b>45,20</b>	<b>45,20</b>

Ø	mm	19	20	22	25	28	30
Overall length	mm	92	104	104	121	121	121
Cutting edge length	mm	32	38	38	45	45	45
Drive Ø	mm	20	20	20	25	25	25
<b>8751</b>	<b>Each</b>	<b>56,50</b>	<b>56,50</b>	<b>70,70</b>	<b>78,70</b>	<b>98,00</b>	<b>110,00</b>

SCU

8751



HSS-E-8%

Product description as Art. 8751

HSS-E COBALT 8%, TiAlN coating.

Ø	mm	4	5	6	8	10	12	14
Overall length	mm	55	57	57	69	72	83	83
Cutting edge length	mm	11	13	13	19	22	26	26
Drive Ø	mm	6	6	6	10	10	12	12
<b>8751E</b>	<b>Each</b>	<b>30,10</b>	<b>30,10</b>	<b>30,10</b>	<b>40,60</b>	<b>45,20</b>	<b>60,90</b>	<b>67,70</b>

Ø	mm	16	18	20
Overall length	mm	92	92	104
Cutting edge length	mm	32	32	38
Drive Ø	mm	16	16	20
<b>8751E</b>	<b>Each</b>	<b>88,70</b>	<b>94,90</b>	<b>113,00</b>

SCU

8751E



HSS-E-8% TiAlN

Four-flute end mills. Long series. UNI 8245 A-ISO 1641/1.

Weldon shank. Cutting tolerance J14.

HSS-E COBALT 8%

Ø	mm	3	4	5	6	7	8	9
Overall length	mm	56	63	68	68	80	88	88
Cutting edge length	mm	12	19	24	24	30	38	38
Drive Ø	mm	6	6	6	6	10	10	10
<b>8753</b>	<b>Each</b>	<b>20,10</b>	<b>20,10</b>	<b>20,10</b>	<b>20,10</b>	<b>27,90</b>	<b>27,90</b>	<b>30,80</b>

Ø	mm	10	11	12	13	14	15	16
Overall length	mm	95	102	110	110	110	110	123
Cutting edge length	mm	45	45	53	53	53	53	63
Drive Ø	mm	10	12	12	12	12	16	16
<b>8753</b>	<b>Each</b>	<b>30,80</b>	<b>35,40</b>	<b>35,40</b>	<b>41,50</b>	<b>41,50</b>	<b>51,10</b>	<b>51,10</b>

Ø	mm	17	18	19	20	22
Overall length	mm	123	123	123	141	151
Cutting edge length	mm	63	63	63	75	75
Drive Ø	mm	16	16	20	20	20
<b>8753</b>	<b>Each</b>	<b>69,10</b>	<b>62,30</b>	<b>79,60</b>	<b>71,80</b>	<b>90,10</b>

SCU

8753



HSS-E-8%

**8755** SCU



HSS-E-5%



Spiral flute end mills. Short series. DIN 845 B - UNI 8250 - ISO 1641/2.  
Morse taper shank and threaded hole. Cutting tolerance J14.  
Ø 12 to 22mm = 4 flute/Ø 24 and 25mm = 5 flute/Ø 30 and 32mm = 6 flute  
HSS-E COBALT 5%

Ø	mm	14	15	16	18	20	22	24
Overall length	mm	117	117	117	117	123	140	147
Cutting edge length	mm	32	32	32	32	38	38	45
Drive	C.M.	2	2	2	2	2	3	3
<b>8755</b>	<b>Each</b>	<b>51,10</b>	<b>51,10</b>	<b>51,10</b>	<b>51,10</b>	<b>58,40</b>	<b>74,40</b>	<b>80,20</b>
Ø	mm	25	30	32				
Overall length	mm	147	147	178				
Cutting edge length	mm	45	45	53				
Drive	C.M.	3	3	4				
<b>8755</b>	<b>Each</b>	<b>83,10</b>	<b>114,00</b>	<b>137,00</b>				

Size Ø 32mm has no cutting edge in the middle.

**8756** SCU



HSS-E-8%



Spiral flute end mills. Short series. DIN 845 B - UNI 8250 - ISO 1641/2.  
Morse taper shank and threaded hole. Cutting tolerance J14.  
Ø 12 to 22mm = 4 flute/Ø 24 and 25mm = 5 flute/Ø 30 and 32mm = 6 flute  
HSS-E COBALT 8%

Ø	mm	14	15	16	18	20	22	24
Overall length	mm	117	117	117	117	123	140	147
Cutting edge length	mm	32	32	32	32	38	38	45
Drive	C.M.	2	2	2	2	2	3	3
<b>8756</b>	<b>Each</b>	<b>58,30</b>	<b>58,30</b>	<b>58,30</b>	<b>61,30</b>	<b>72,90</b>	<b>93,30</b>	<b>104,00</b>
Ø	mm	25	30	32				
Overall length	mm	147	147	178				
Cutting edge length	mm	45	45	53				
Drive	C.M.	3	3	4				
<b>8756</b>	<b>Each</b>	<b>105,00</b>	<b>140,00</b>	<b>172,00</b>				

Size Ø 32mm has no cutting edge in the middle.

**8757** SCU



HSS-E-5%



Spiral flute end mills. Long series. DIN 845 B - UNI 8250 - ISO 1641/2.  
Morse taper shank and threaded hole. Cutting tolerance J14.  
Ø 12 to 22mm = 4 flute/Ø 24 and 25mm = 5 flute/Ø 30 and 32mm = 6 flute  
HSS-E COBALT 5%

Ø	mm	15	16	18	20	22	24	25
Overall length	mm	138	148	148	177	177	192	192
Cutting edge length	mm	53	63	63	75	75	90	90
Drive	C.M.	2	2	2	3	3	3	3
<b>8757</b>	<b>Each</b>	<b>59,30</b>	<b>61,40</b>	<b>62,50</b>	<b>83,10</b>	<b>90,30</b>	<b>94,60</b>	<b>94,60</b>
Ø	mm	30	32					
Overall length	mm	192	231					
Cutting edge length	mm	90	106					
Drive	C.M.	3	4					
<b>8757</b>	<b>Each</b>	<b>125,00</b>	<b>166,00</b>					

Size Ø 32mm has no cutting edge in the middle.

**SINUSOIDAL END MILLS**

**8758A** SCU



HSS-E-8%



**Prod. SCU**

Sinusoidal flute end mills. Very high performance, vibration reduction, better chip ejection, less absorbed power, lower sound level, excellent finishing of the processed surface, longer life, higher speed and feed rates. Short series. Weldon shank. Cutting tolerance J14.  
Ø 12mm=3 flute/Ø 16 and 20mm=4 flute/Ø 25mm= 5 flute/Ø 30mm=6 flute  
HSS-E COBALT 8%

Ø	mm	12	16	20	25	30
Overall length	mm	83	92	104	121	121
Cutting edge length	mm	26	32	38	45	45
Drive Ø	mm	12	16	20	25	25
<b>8758A</b>	<b>Each</b>	<b>48,10</b>	<b>71,50</b>	<b>101,00</b>	<b>146,00</b>	<b>206,00</b>

**8758E** SCU



HSS-E-8%



**TiAIN**

Product description as Art. 8758A  
HSS-E COBALT 8%, TiAIN coating.

Ø	mm	12	16	20	25	30
Overall length	mm	83	92	104	121	121
Cutting edge length	mm	26	32	38	45	45
Drive Ø	mm	12	16	20	25	25
<b>8758E</b>	<b>Each</b>	<b>70,00</b>	<b>103,00</b>	<b>143,00</b>	<b>210,00</b>	<b>293,00</b>

Sinusoidal flute end mills. Very high performance, vibration reduction, better chip ejection, less absorbed power, lower sound level, excellent finishing of the processed surface, longer life, higher speed and feed rates. Long series. Weldon shank. Cutting tolerance J14.

Ø 12mm=3 flute/Ø 16 and 20mm=4 flute/Ø 25mm= 5 flute/Ø 30mm=6 flute

HSS-E COBALT 8%

Ø	mm	12	16	20	25	30
Overall length	mm	110	123	141	166	166
Cutting edge length	mm	53	63	75	90	90
Drive Ø	mm	12	16	20	25	25
<b>8758F</b>	<b>Each</b>	<b>68,50</b>	<b>99,10</b>	<b>140,00</b>	<b>206,00</b>	<b>286,00</b>

SCU

8758F

HSS-E-8%



Product description as Art. 8758F

HSS-E COBALT 8%, TiAIN coating.

Ø	mm	12	16	20	25	30
Overall length	mm	110	123	141	166	166
Cutting edge length	mm	53	63	75	90	90
Drive Ø	mm	12	16	20	25	25
<b>8758L</b>	<b>Each</b>	<b>97,20</b>	<b>143,00</b>	<b>201,00</b>	<b>296,00</b>	<b>409,00</b>

SCU

8758L

HSS-E-8%



TiAIN

Sinusoidal flute end mills. Very high performance, vibration reduction, better chip ejection, less absorbed power, lower sound level, excellent finishing of the processed surface, longer life, higher speed and feed rates. Short series. Morse taper shank and threaded hole. Cutting tolerance J14.

Ø 16 and 20mm=4 flute/Ø 25mm=5 flute/Ø 30 and 40mm= 6 flute

HSS-E COBALT 8%, TiCN coating.

Ø	mm	25	30	35
Overall length	mm	147	147	178
Cutting edge length	mm	45	45	53
Drive	C.M.	3	3	4
<b>8758R</b>	<b>Each</b>	<b>249,00</b>	<b>341,00</b>	<b>547,00</b>

Product running out of stock.

SCU

8758R

HSS-E-8%



TiCN

Sinusoidal flute end mills. Very high performance, vibration reduction, better chip ejection, less absorbed power, lower sound level, excellent finishing of the processed surface, longer life, higher speed and feed rates. Long series. Morse taper shank and threaded hole. Cutting tolerance J14.

Ø 16 and 20mm=4 flute/Ø 25mm=5 flute/Ø 30 and 40mm= 6 flute

HSS-E COBALT 8%, TiCN coating.

Ø	mm	16	30
Overall length	mm	148	192
Cutting edge length	mm	63	90
Drive	C.M.	2	3
<b>8758T</b>	<b>Each</b>	<b>202,00</b>	<b>476,00</b>

Product running out of stock.

SCU

8758T

HSS-E-8%



TiCN

**ONE FLUTE MILLS**

**Prod. SCU**

Single fluted mills. HSS-E COBALT 5%.

Cylindrical shank. For milling aluminium and synthetic materials.

To be used on pantographs and copying mills.

Ø	mm	3	4	5	6	8	10
Overall length	mm	60	60	70	70	80	95
Cutting edge length	mm	15	15	15	15	15	15
Drive Ø	mm	8	8	8	8	8	8
<b>8759</b>	<b>Each</b>	<b>20,10</b>	<b>19,20</b>	<b>19,20</b>	<b>19,20</b>	<b>23,50</b>	<b>37,60</b>

SCU

8759

HSS-E-5%



**SHELL-END MILLS**

**Prod. SCU**

Spiral flute end mills for SEMI-FINISHING. Short series.

DIN 844 A – UNI 8244 A – ISO 1641/1. Weldon shank. Cutting tolerance J14.

Ø 6 to 22mm=4 flute/Ø 25-30mm=5 flute

HSS-E COBALT 8%

Ø	mm	8	10	12	14	15	16	18
Overall length	mm	69	72	83	83	83	92	92
Cutting edge length	mm	19	22	26	26	26	32	32
Drive Ø	mm	10	10	12	12	12	16	16
<b>8761</b>	<b>Each</b>	<b>40,60</b>	<b>40,60</b>	<b>44,50</b>	<b>50,40</b>	<b>58,60</b>	<b>59,30</b>	<b>66,10</b>

SCU

8761

HSS-E-8%



Ø	mm	20	22	25	30
Overall length	mm	104	104	121	121
Cutting edge length	mm	38	38	45	45
Drive Ø	mm	20	20	25	25
<b>8761</b>	<b>Each</b>	<b>74,60</b>	<b>102,00</b>	<b>116,00</b>	<b>150,00</b>

## 8761E

SCU



HSS-E-8% TiAlN

Product description as Art. 8761  
HSS-E COBALT 8%, TiAlN coating.

Ø	mm	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>18</b>	<b>20</b>
Overall length	mm	72	83	83	92	92	104
Cutting edge length	mm	22	26	26	32	32	38
Drive Ø	mm	10	12	12	16	16	20
<b>8761E</b>	<b>Each</b>	<b>61,60</b>	<b>76,60</b>	<b>84,40</b>	<b>112,00</b>	<b>119,00</b>	<b>141,00</b>

## 8762E

SCU



HSS-E-8%

Four-flute end mills for SEMI-FINISHING. Long series.  
Weldon shank. Cutting tolerance J14.

HSS-E COBALT 8%

Ø	mm	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>18</b>
Overall length	mm	88	95	110	110	110	123	123
Cutting edge length	mm	38	45	53	53	53	63	63
Drive Ø	mm	10	10	12	12	16	16	16
<b>8762E</b>	<b>Each</b>	<b>59,80</b>	<b>59,80</b>	<b>66,60</b>	<b>87,30</b>	<b>107,00</b>	<b>107,00</b>	<b>124,00</b>

Ø	mm	<b>20</b>	<b>22</b>
Overall length	mm	141	151
Cutting edge length	mm	75	75
Drive Ø	mm	20	20
<b>8762E</b>	<b>Each</b>	<b>135,00</b>	<b>144,00</b>

## 8763

SCU



HSS-E-5%

Spiral flute end mills for SEMI-FINISHING. Short series.

DIN 845 B – UNI 8250 – ISO 1641/2. Morse taper shank and threaded hole.

Cutting tolerance J14.

Ø 16 to 22mm=4 flute/Ø 24 to 32mm=5 flute

HSS-E COBALT 5%

Ø	mm	<b>16</b>	<b>18</b>	<b>20</b>	<b>22</b>	<b>24</b>	<b>26</b>	<b>28</b>
Overall length	mm	117	117	123	140	147	147	147
Cutting edge length	mm	32	32	38	38	45	45	45
Drive	C.M.	2	2	2	3	3	3	3
<b>8763</b>	<b>Each</b>	<b>69,30</b>	<b>76,60</b>	<b>82,80</b>	<b>91,10</b>	<b>106,00</b>	<b>125,00</b>	<b>132,00</b>

Ø	mm	<b>30</b>	<b>32</b>
Overall length	mm	147	178
Cutting edge length	mm	45	53
Drive	C.M.	3	4
<b>8763</b>	<b>Each</b>	<b>142,00</b>	<b>176,00</b>

## 8764

SCU



HSS-E-8%

Product description as Art. 8763

HSS-E COBALT 8%

Ø	mm	<b>16</b>	<b>18</b>	<b>20</b>	<b>22</b>	<b>24</b>	<b>26</b>	<b>28</b>
Overall length	mm	117	117	123	140	147	147	147
Cutting edge length	mm	32	32	38	38	45	45	45
Drive	C.M.	2	2	2	3	3	3	3
<b>8764</b>	<b>Each</b>	<b>79,80</b>	<b>87,60</b>	<b>96,20</b>	<b>112,00</b>	<b>125,00</b>	<b>135,00</b>	<b>149,00</b>

Ø	mm	<b>30</b>	<b>32</b>
Overall length	mm	147	178
Cutting edge length	mm	45	53
Drive	C.M.	3	4
<b>8764</b>	<b>Each</b>	<b>166,00</b>	<b>112,00</b>

## 8766

SCU



HSS-E-8%

Spiral flute end mills for ROUGHING. Short series.

DIN 844 A – UNI 8244 A – ISO 1641/1. Weldon shank. Cutting tolerance J14.

Ø mm 6 = 3 flute / Ø mm 8 a 22 = 4 flute / Ø mm 25-30 = 5 flute.

HSS-E COBALT 8%

Ø	mm	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>15</b>	<b>16</b>
Overall length	mm	57	69	72	83	83	83	92
Cutting edge length	mm	13	19	22	26	26	26	32
Drive Ø	mm	6	10	10	12	12	12	16
<b>8766</b>	<b>Each</b>	<b>40,60</b>	<b>40,60</b>	<b>40,60</b>	<b>44,50</b>	<b>50,40</b>	<b>58,60</b>	<b>60,40</b>

Ø	mm	<b>18</b>	<b>20</b>	<b>22</b>	<b>25</b>	<b>30</b>
Overall length	mm	92	104	104	121	121
Cutting edge length	mm	32	38	38	45	45
Drive Ø	mm	16	20	20	25	25
<b>8766</b>	<b>Each</b>	<b>66,10</b>	<b>74,60</b>	<b>102,00</b>	<b>116,00</b>	<b>150,00</b>

Spiral flute end mills for ROUGHING. Short series.  
DIN 844 A – UNI 8244 A – ISO 1641/1. Weldon shank. Cutting tolerance J14.  
Ø 6 to 22mm=4 flute/Ø 25-30mm=5 flute  
HSS-E COBALT 8%, TiAlN coating.

Ø	mm	10	12	14	16	18	20
Overall length	mm	72	83	83	92	92	104
Cutting edge length	mm	22	26	26	32	32	38
Drive Ø	mm	10	12	12	16	16	20
<b>8766E</b>	<b>Each</b>	<b>61,60</b>	<b>76,60</b>	<b>84,40</b>	<b>112,00</b>	<b>119,00</b>	<b>141,00</b>

SCU



HSS-E-8%

TiAlN

8766E

Spiral flute end mills for ROUGHING. Long series.  
Weldon shank. Cutting tolerance J14.  
Ø 8 to 22mm=4 flute/Ø 25mm=5 flute  
HSS-E COBALT 8%

Ø	mm	8	10	12	14	15	16	18
Overall length	mm	88	95	110	110	110	123	123
Cutting edge length	mm	38	45	53	53	53	63	63
Drive Ø	mm	10	10	12	12	12	16	16
<b>8768</b>	<b>Each</b>	<b>59,80</b>	<b>59,80</b>	<b>66,60</b>	<b>87,30</b>	<b>107,00</b>	<b>107,00</b>	<b>124,00</b>
Ø	mm	20	22	25				
Overall length	mm	141	151	166				
Cutting edge length	mm	75	75	90				
Drive Ø	mm	20	20	25				
<b>8768</b>	<b>Each</b>	<b>135,00</b>	<b>144,00</b>	<b>171,00</b>				

SCU



HSS-E-8%

8768

Spiral flute end mills for ROUGHING. Short series. DIN 845 B – UNI 8250- ISO 1641/2. Morse taper shank and threaded hole. Cutting tolerance J14.  
Ø 16 to 22mm=4 flute/Ø 24 to 32mm=5 flute  
HSS-E COBALT 5%

Ø	mm	16	18	20	22	24	26	28	30	32
Overall length	mm	117	117	123	140	147	147	147	147	178
Cutting edge length	mm	32	32	38	38	45	45	45	45	53
Drive	C.M.	2	2	2	3	3	3	3	3	4
<b>8770</b>	<b>Each</b>	<b>69,30</b>	<b>76,60</b>	<b>82,80</b>	<b>91,10</b>	<b>106,00</b>	<b>124,00</b>	<b>132,00</b>	<b>142,00</b>	<b>176,00</b>

SCU



HSS-E-5%

8770

Product description as Art. 8770  
HSS-E COBALT 8%

Ø	mm	16	18	20	22	24	26	28	30	32
Overall length	mm	117	117	123	140	147	147	147	147	178
Cutting edge length	mm	32	32	38	38	45	45	45	45	53
Drive	C.M.	2	2	2	3	3	3	3	3	4
<b>8771</b>	<b>Each</b>	<b>79,80</b>	<b>87,60</b>	<b>96,20</b>	<b>112,00</b>	<b>125,00</b>	<b>135,00</b>	<b>149,00</b>	<b>166,00</b>	<b>218,00</b>

SCU



HSS-E-8%

8771

Four-flute end mills for ROUGHING, fine pitch. Short series.  
DIN 844 A – UNI 8244A – ISO 1641/1. HSS-E COBALT 8%. Weldon shank. Cutting tolerance J14. For finer surface finish.

Ø	mm	10	12	14	15	16	18	20	22
Overall length	mm	72	83	83	83	92	92	104	104
Cutting edge length	mm	22	26	26	26	32	32	38	38
Drive Ø	mm	10	12	12	12	16	16	20	20
<b>8775</b>	<b>Each</b>	<b>44,10</b>	<b>46,30</b>	<b>54,50</b>	<b>63,40</b>	<b>63,40</b>	<b>71,60</b>	<b>80,50</b>	<b>110,00</b>

SCU



HSS-E-8%

8775

Reinforced helical teeth. N type. DIN 1880 – UNI 3903 – ISO 2586.  
HSS-E COBALT 5%.  
Longitudinal and transversal driving slot. Cutting tolerance J16.

Ø	mm	40	50	63	80
Thickness	mm	32	36	40	45
Bore Ø	mm	16	22	27	27
Teeth	No	8	8	8	10
<b>8779</b>	<b>Each</b>	<b>104,00</b>	<b>133,00</b>	<b>183,00</b>	<b>314,00</b>

SCU



HSS-E-5%

8779

Shell mills, reinforced helical teeth. N type. DIN 841.  
HSS-E COBALT 5%.  
Longitudinal driving slot. Cutting tolerance J16.

Ø	mm	30	35	40	50	60	75
Thickness	mm	30	35	40	50	60	75
Bore Ø	mm	13	16	16	22	27	27
Teeth	No	6	6	8	8	8	10
<b>8781</b>	<b>Each</b>	<b>105,00</b>	<b>114,00</b>	<b>136,00</b>	<b>205,00</b>	<b>276,00</b>	<b>500,00</b>

SCU



HSS-E-5%

8781

**8782F** SCU

HSS-E-5%



Shell-mills, helical teeth, for SEMI-FINISHING. DIN 1880 – UNI 3903 – ISO 2586.

HSS-E COBALT 5%.

Longitudinal and transversal driving slot. Cutting tolerance J16.

Ø	mm	40	50	63	80
Thickness	mm	32	36	40	45
Bore Ø	mm	16	22	27	27
Teeth	No	6	8	8	8
<b>8782F</b>	<b>Each</b>	<b>136,00</b>	<b>162,00</b>	<b>214,00</b>	<b>342,00</b>

**8782S** SCU

HSS-E-5%



Shell-mills, helical teeth, for SEMI-FINISHING. DIN 1880 – UNI 3903 – ISO 2586.

HSS-E COBALT 5%.

Longitudinal and transversal driving slot. Cutting tolerance J16.

Ø	mm	30	35	40	50	60	75
Thickness	mm	30	35	40	50	60	75
Bore Ø	mm	13	16	16	22	27	27
Teeth	No	6	6	6	6	8	8
<b>8782S</b>	<b>Each</b>	<b>119,00</b>	<b>145,00</b>	<b>178,00</b>	<b>270,00</b>	<b>363,00</b>	<b>607,00</b>

**8783** SCU

HSS-E-5%



Shell-mills, helical teeth, for ROUGHING. DIN 1880 – UNI 3903 – ISO 2586.

HSS-E COBALT 5%.

Longitudinal and transversal driving slot. Cutting tolerance J16.

Ø	mm	40	50	63	80
Thickness	mm	32	36	40	45
Bore Ø	mm	16	22	27	27
Teeth	No	6	8	8	8
<b>8783</b>	<b>Each</b>	<b>136,00</b>	<b>162,00</b>	<b>214,00</b>	<b>342,00</b>

**8785** SCU

HSS-E-5%



Shell-mills, helical teeth, for ROUGHING. DIN 841.

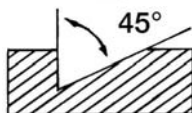
HSS-E COBALT 5%.

Longitudinal driving slot. Cutting tolerance J16.

Ø	mm	30	35	40	50	60	75
Thickness	mm	30	35	40	50	60	75
Bore Ø	mm	13	16	16	22	27	27
Teeth	No	6	6	6	6	8	8
<b>8785</b>	<b>Each</b>	<b>119,00</b>	<b>145,00</b>	<b>178,00</b>	<b>270,00</b>	<b>363,00</b>	<b>607,00</b>

**SINGLE ANGLE MILLING CUTTERS****8788A** SCU

HSS-E-5%



Prod. SCU

Normal teeth. Type D. DIN 842 A – UNI 3908.

HSS-E COBALT 5%

Driving slot.

Cutting tolerance J16.

45° angle.

Ø	mm	40	50	63	80
Thickness	mm	12	15	18	23
Bore Ø	mm	10	13	16	22
Teeth	No	14	16	16	18
<b>8788A</b>	<b>Each</b>	<b>105,00</b>	<b>126,00</b>	<b>175,00</b>	<b>259,00</b>



Product description as Art. 8788A

60° angle.

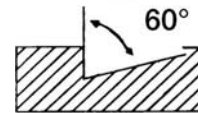
Ø	mm	40	50	63	80
Thickness	mm	13	16	20	25
Bore Ø	mm	10	13	16	22
Teeth	No	14	16	16	18
<b>8788E</b>	<b>Each</b>	<b>105,00</b>	<b>126,00</b>	<b>175,00</b>	<b>259,00</b>

SCU



8788E

HSS-E-5%



**DOUBLE ANGLE MILLING CUTTERS**

Prod. SCU

Normal teeth. Type D. DIN 847 – UNI 3907 – ISO 6108.

HSS-E COBALT 5%

Driving slot.

Cutting tolerance J16.

45° angle.

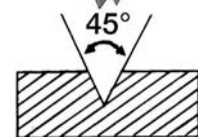
Ø	mm	50	63	80	100
Thickness	mm	8	10	12	18
Bore Ø	mm	16	22	27	32
Teeth	No	16	16	20	20
<b>8790A</b>	<b>Each</b>	<b>112,00</b>	<b>143,00</b>	<b>212,00</b>	<b>306,00</b>

SCU



8790A

HSS-E-5%



Product description as Art. 8790A

60° angle.

Ø	mm	50	63	80	100
Thickness	mm	10	14	18	25
Bore Ø	mm	16	22	27	32
Teeth	No	16	16	18	20
<b>8790E</b>	<b>Each</b>	<b>112,00</b>	<b>143,00</b>	<b>212,00</b>	<b>306,00</b>

SCU



8790E

HSS-E-5%



Product description as Art. 8790A

90° angle.

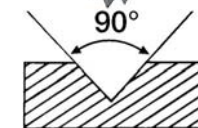
Ø	mm	50	63	80	100
Thickness	mm	14	20	22	32
Bore Ø	mm	16	22	27	32
Teeth	No	16	16	18	20
<b>8790L</b>	<b>Each</b>	<b>112,00</b>	<b>143,00</b>	<b>212,00</b>	<b>306,00</b>

SCU



8790L

HSS-E-5%



**CONCAVE RADIUS CUTTERS**

Prod. SCU

DIN 855 A – UNI 4499 -ISO 3860.

HSS-E COBALT 5%. Cutting tolerance J16.

Radius R	mm	1	1,5	2	2,5	3	4	5
Ø	mm	50	50	50	63	63	63	63
Thickness	mm	8	8	9	10	12	16	20
Bore Ø	mm	16	16	16	22	22	22	22
Teeth	No	14	14	14	14	12	12	10
<b>8791A</b>	<b>Each</b>	<b>121,00</b>	<b>121,00</b>	<b>121,00</b>	<b>121,00</b>	<b>139,00</b>	<b>163,00</b>	<b>183,00</b>

SCU



8791A

HSS-E-5%



### CONVEX RADIUS CUTTERS

8791E SCU



HSS-E-5%

Prod. SCU

DIN 856 A – UNI 4498 -ISO 3860.

HSS-E COBALT 5%. Cutting tolerance J16.

Radius R	mm	1	1,5	2	2,5	3	4	5
Ø	mm	50	50	50	63	63	63	63
Thickness	mm	2	3	4	5	6	8	10
Bore Ø	mm	16	16	16	22	22	22	22
Teeth	No	16	16	16	12	12	12	12
<b>8791E</b>	<b>Each</b>	<b>97,70</b>	<b>97,70</b>	<b>97,70</b>	<b>103,00</b>	<b>103,00</b>	<b>126,00</b>	<b>135,00</b>
Radius R	mm	6	8	10	12	14	16	20
Ø	mm	80	80	100	100	100	110	125
Thickness	mm	12	16	20	24	28	32	40
Bore Ø	mm	27	27	32	32	32	32	32
Teeth	No	12	12	12	12	12	12	12
<b>8791E</b>	<b>Each</b>	<b>165,00</b>	<b>223,00</b>	<b>334,00</b>	<b>479,00</b>	<b>664,00</b>	<b>825,00</b>	<b>1.070,00</b>

### SIDE AND FACE MILLING CUTTERS

8792 SCU



HSS-E-5%

Prod. SCU

Helical alternate teeth. N type. DIN 885 A – UNI 3905 – ISO 2587.

HSS-E 5% CO. Driving slot.

Cutting tolerance J16.

Ø and thickness	mm	50x3	50x4	50x5	50x6	63x3	63x4	63x5
Bore Ø	mm	16	16	16	16	22	22	22
Teeth	No	14	14	14	14	16	16	16
<b>8792</b>	<b>Each</b>	<b>85,30</b>	<b>75,70</b>	<b>75,70</b>	<b>75,70</b>	<b>109,00</b>	<b>89,40</b>	<b>89,40</b>
Ø and thickness	mm	63x6	63x8	63x10	80x3	80x4	80x5	80x6
Bore Ø	mm	22	22	22	22	22	22	22
Teeth	No	16	16	16	18	18	18	18
<b>8792</b>	<b>Each</b>	<b>89,40</b>	<b>90,10</b>	<b>105,00</b>	<b>136,00</b>	<b>110,00</b>	<b>110,00</b>	<b>110,00</b>
Ø and thickness	mm	80x8	80x10	100x3	100x4	100x5	100x6	100x8
Bore Ø	mm	22	22	27	27	27	27	27
Teeth	No	18	18	20	20	20	20	20
<b>8792</b>	<b>Each</b>	<b>122,00</b>	<b>134,00</b>	<b>183,00</b>	<b>151,00</b>	<b>151,00</b>	<b>151,00</b>	<b>168,00</b>
Ø and thickness	mm	100x10	100x12	125x4	125x5	125x6	125x8	125x10
Bore Ø	mm	27	27	32	32	32	32	32
Teeth	No	20	20	26	22	22	22	22
<b>8792</b>	<b>Each</b>	<b>178,00</b>	<b>197,00</b>	<b>226,00</b>	<b>214,00</b>	<b>214,00</b>	<b>220,00</b>	<b>245,00</b>
Ø and thickness	mm	125x12	160x6	160x8	160x10	160x12		
Bore Ø	mm	32	32	32	32	32		
Teeth	No	22	26	26	26	26		
<b>8792</b>	<b>Each</b>	<b>259,00</b>	<b>309,00</b>	<b>329,00</b>	<b>357,00</b>	<b>384,00</b>		

### T-SLOT CUTTERS, STRAIGHT SHANK

8793 SCU



HSS-E-5%

Prod. SCU

Helical alternate teeth. N type. DIN 851 A – UNI 7339 A – ISO 3337. HSS-E 5% CO.

Welded shank. Cutting tolerance h12.

Ø	mm	12,5	16	19	22	25	28	32
Thickness	mm	6	8	9	10	11	12	14
Overall length	mm	57	62	71	75	82	83	90
Drive Ø	mm	10	10	12	12	16	16	16
Teeth	No	6	6	6	6	6	6	8
<b>8793</b>	<b>Each</b>	<b>62,20</b>	<b>76,50</b>	<b>80,20</b>	<b>90,10</b>	<b>106,00</b>	<b>122,00</b>	<b>133,00</b>

### WOODRUFF KEYSET MILLING CUTTERS STRAIGHT SHANK

8794 SCU



HSS-E-5%

Prod. SCU

helical alternate teeth. D type. DIN 850 B – UNI 8263.

HSS-E 5% CO. Welded shank.

Cutting tolerance h11.

Ø and thickness	mm	10,5x2	10,5x2,5	10,5x3	13,5x2	13,5x3	13,5x4	16,5x4
Overall length	mm	50	50	50	56	56	56	56
Drive Ø	mm	6	6	6	10	10	10	10
<b>8794</b>	<b>Each</b>	<b>36,10</b>	<b>36,10</b>	<b>36,10</b>	<b>42,10</b>	<b>42,10</b>	<b>42,10</b>	<b>48,40</b>
Ø and thickness	mm	16,5x5	16,5x6	19,5x4	19,5x5	19,5x6	22,5x5	22,5x6
Overall length	mm	56	56	63	63	63	63	63
Drive Ø	mm	10	10	10	10	10	10	10
<b>8794</b>	<b>Each</b>	<b>48,40</b>	<b>48,40</b>	<b>55,70</b>	<b>55,70</b>	<b>55,70</b>	<b>61,60</b>	<b>61,60</b>
Ø and thickness	mm	22,5x8	25,5x6	25,5x7	25,5x8			
Overall length	mm	63	63	63	63			
Drive Ø	mm	10	10	10	10			
<b>8794</b>	<b>Each</b>	<b>61,60</b>	<b>71,40</b>	<b>71,40</b>	<b>71,40</b>			

**DIVERGENT ANGLE CUTTERS**

**Prod. SCU**

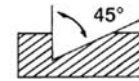
Divergent taper. DIN 1833 A – UNI 3911 A. HSS-E 5% CO.  
Weldon shank. Cutting tolerance J16.

45° angle.

Ø	mm	16	20	25	32
Thickness 45°	mm	4	5	6,3	8
Overall length	mm	60	63	67	71
Drive Ø	mm	12	12	16	16
Teeth	No	6	6	8	10
<b>8794D</b>	<b>Each</b>	<b>48,90</b>	<b>67,80</b>	<b>76,60</b>	<b>91,90</b>

SCU

8794D



HSS-E-5%

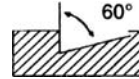
Product description as Art. 8794D

60° angle.

Ø	mm	16	20	25	32
Thickness 60°	mm	6,3	8	10	12,5
Overall length	mm	60	63	67	71
Drive Ø	mm	12	12	16	16
Teeth	No	6	6	8	10
<b>8794E</b>	<b>Each</b>	<b>48,90</b>	<b>67,80</b>	<b>76,60</b>	<b>91,90</b>

SCU

8794E



HSS-E-5%

**CONVERGENT ANGLE CUTTERS**

**Prod. SCU**

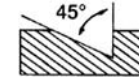
Convergent taper. DIN 1833 B – UNI 3911 B. HSS-E 5% CO.  
Weldon shank. Cutting tolerance J16.

45° angle.

Ø	mm	16	20	25	32
Thickness 45°	mm	4	5	6,3	8
Overall length	mm	60	70	80	70
Drive Ø	mm	12	12	12	16
Teeth	No	8	8	10	10
<b>8794L</b>	<b>Each</b>	<b>48,90</b>	<b>67,80</b>	<b>76,60</b>	<b>91,90</b>

SCU

8794L



HSS-E-5%

Product description as Art. 8794L

60° angle.

Ø	mm	16	20	25	32
Thickness 60°	mm	6,3	8	10	12,5
Overall length	mm	60	63	67	71
Drive Ø	mm	12	12	12	16
Teeth	No	8	8	10	12
<b>8794M</b>	<b>Each</b>	<b>48,90</b>	<b>67,80</b>	<b>76,60</b>	<b>91,90</b>

SCU

8794M



HSS-E-5%

**RADIUS MILLING CUTTERS**

**Prod. SCU**

Concave radius. HSS-E 5% CO.  
Weldon shank. Cutting tolerance h11.

Radius R	mm	1	1,5	2	2,5	3	4	5
Head max Ø	mm	8	8	12	13	16	18	20
Overall length	mm	60	60	60	60	60	65	65
Drive Ø	mm	10	10	10	10	12	12	16
Teeth	No	4	4	4	4	4	4	4
<b>8794R</b>	<b>Each</b>	<b>62,10</b>	<b>62,10</b>	<b>62,10</b>	<b>62,10</b>	<b>62,10</b>	<b>70,10</b>	<b>81,10</b>

SCU

8794R



HSS-E-5%

Radius R	mm	6	8	10	12	14	16	20
Head max Ø	mm	25	29	34	39	43	50	60
Overall length	mm	67	72	90	90	95	95	112
Drive Ø	mm	16	16	25	25	25	25	25
Teeth	No	4	4	5	5	5	5	6
<b>8794R</b>	<b>Each</b>	<b>88,90</b>	<b>105,00</b>	<b>132,00</b>	<b>165,00</b>	<b>240,00</b>	<b>350,00</b>	<b>583,00</b>

**TUNGSTEN CARBIDE SOLID END MILLS WITH FIRE COATING**

**8794TA**  
*new*



HARTMETALL FIRE

**Orig. Hartner - Art. 84921**

In micro-grain carbide, with high performance.  
With special FIRE coating for maximum protection of the tool to cracking, maximum resistance to heat and humidity, which increase the life and performance.

Suitable for CHAMFERING , DEBURRING and PROFILING of any hardness steels, stainless steels, aluminum and its alloys, cast iron and non-ferrous metals. Ground cutting edges radially.

Type with 4 cutting edges 60°. Cutting right. Cylindrical shank DIN 6535HA.

Ø	mm	4	6	8	10	12
Overall length	mm	50	57	63	72	83
Cutting edge length	mm	3,50	5,20	7	8,70	10,40
Drive Ø	mm	4	6	8	10	12
<b>8794TA</b>	<b>Each</b>	<b>31,20</b>	<b>36,10</b>	<b>45,10</b>	<b>53,30</b>	<b>80,30</b>

**8794TB**  
*new*



HARTMETALL FIRE

**Orig. Hartner - Art. 84922**

Product description as Art. 8794TA

Type with 4 cutting edges 60°. Cutting right. Cylindrical shank DIN 6535HB.

Ø	mm	6	8	10	12
Overall length	mm	57	63	72	83
Cutting edge length	mm	5,20	7	8,70	10,40
Drive Ø	mm	6	8	10	12
<b>8794TB</b>	<b>Each</b>	<b>38,10</b>	<b>47,10</b>	<b>56,80</b>	<b>84,40</b>

**8794TE**  
*new*



HARTMETALL FIRE

**Orig. Hartner - Art. 84923**

Product description as Art. 8794TA

Type with 4 cutting edges 90°. Cutting right. Cylindrical shank DIN 6535HA.

Ø	mm	4	6	8	10	12
Overall length	mm	50	57	63	72	83
Cutting edge length	mm	2	3	4	5	6
Drive Ø	mm	4	6	8	10	12
<b>8794TE</b>	<b>Each</b>	<b>29,80</b>	<b>34,60</b>	<b>42,90</b>	<b>51,20</b>	<b>76,10</b>

**8794TF**  
*new*



HARTMETALL FIRE

**Orig. Hartner - Art. 84924**

Product description as Art. 8794TA

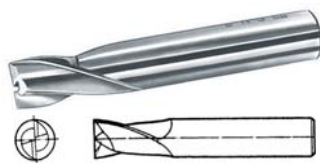
Type with 4 cutting edges 90°. Cutting right. Cylindrical shank DIN 6535HB.

Ø	mm	6	8	10	12
Overall length	mm	57	63	72	83
Cutting edge length	mm	3	4	5	6
Drive Ø	mm	6	8	10	12
<b>8794TF</b>	<b>Each</b>	<b>36,70</b>	<b>45,10</b>	<b>54,70</b>	<b>78,90</b>

Available on request cutters for edges with sharp at 120°.

**SOLID CARBIDE END MILLS**

**8795**



HARTMETALL

**Prod. SCU**

Short series. Micrograin solid carbide.

30° two flutes. Right-hand cutting.

Central tang drive. Cylindrical shank. For slots, splines, etc.

Ø	mm	2	2,5	3	3,5	4	4,5	5
Overall length	mm	40	40	40	40	50	50	50
Cutting edge length	mm	6	6	8	10	10	10	12
Drive Ø	mm	3	3	3	3,5	4	4,5	5
<b>8795</b>	<b>Each</b>	<b>14,60</b>	<b>13,10</b>	<b>11,40</b>	<b>13,10</b>	<b>15,20</b>	<b>16,30</b>	<b>16,30</b>
Ø	mm	5,5	6	7	8	9	9,5	10
Overall length	mm	50	50	60	60	70	70	70
Cutting edge length	mm	12	12	16	20	20	22	22
Drive Ø	mm	5,5	6	7	8	9	9,5	10
<b>8795</b>	<b>Each</b>	<b>19,40</b>	<b>20,20</b>	<b>27,70</b>	<b>31,10</b>	<b>43,20</b>	<b>49,10</b>	<b>47,70</b>
Ø	mm	12	13	14	15	16	18	20
Overall length	mm	75	75	85	85	85	100	100
Cutting edge length	mm	25	25	30	30	30	38	40
Drive Ø	mm	12	13	14	15	16	18	20
<b>8795</b>	<b>Each</b>	<b>69,20</b>	<b>76,10</b>	<b>93,30</b>	<b>124,00</b>	<b>134,00</b>	<b>180,00</b>	<b>225,00</b>

Size mm 9,5 running out of stock.

Short series. Micrograin solid carbide.  
30° two flutes. Right-hand cutting.  
Central tang drive. Cylindrical shank. For slots, splines, etc.

Ø	mm	3	4	5	6	8	10	12
Overall length	mm	60	60	70	100	100	100	100
Cutting edge length	mm	30	30	35	40	40	45	45
Drive Ø	mm	3	4	5	6	8	10	12
<b>8795L</b>	<b>Each</b>	<b>15,80</b>	<b>19,10</b>	<b>26,10</b>	<b>36,70</b>	<b>53,60</b>	<b>76,10</b>	<b>101,00</b>

Ø	mm	14	16	18	20
Overall length	mm	100	100	150	150
Cutting edge length	mm	45	45	50	55
Drive Ø	mm	14	16	18	20
<b>8795L</b>	<b>Each</b>	<b>128,00</b>	<b>163,00</b>	<b>287,00</b>	<b>339,00</b>



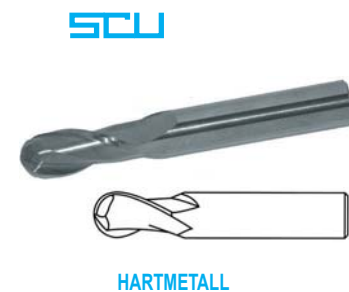
**8795L**

Short series. Micrograin solid carbide.  
30° two flutes. Right-hand cutting. Round head.  
Cylindrical shank. For slots, splines, etc.

Ø	mm	2	3	4	5	6	8	10
Overall length	mm	40	40	50	50	50	60	70
Cutting edge length	mm	6	8	10	12	12	20	22
Drive Ø	mm	3	3	4	5	6	8	10
<b>8795R</b>	<b>Each</b>	<b>17,50</b>	<b>13,60</b>	<b>17,70</b>	<b>19,30</b>	<b>23,90</b>	<b>36,70</b>	<b>56,60</b>

Ø	mm	12	14	16	18	20
Overall length	mm	75	85	85	100	100
Cutting edge length	mm	25	30	30	38	40
Drive Ø	mm	12	14	16	18	20
<b>8795R</b>	<b>Each</b>	<b>84,10</b>	<b>110,00</b>	<b>159,00</b>	<b>217,00</b>	<b>273,00</b>



**8795R**

Short series. Micrograin solid carbide.  
30° two flutes. Right-hand cutting.  
Central tang drive. Cylindrical shank. For slots, splines and for cutting out.

Ø	mm	2	2,5	3	3,5	4	4,5	5
Overall length	mm	40	40	40	40	50	50	50
Cutting edge length	mm	5	7	12	12	16	16	20
Drive Ø	mm	3	3	3	3,5	4	4,5	5
<b>8796</b>	<b>Each</b>	<b>14,60</b>	<b>13,10</b>	<b>11,40</b>	<b>13,10</b>	<b>15,20</b>	<b>16,30</b>	<b>16,30</b>

Ø	mm	5,5	6	7	8	9	10	12
Overall length	mm	50	50	60	60	70	70	75
Cutting edge length	mm	20	20	22	22	22	25	27
Drive Ø	mm	5,5	6	7	8	9	10	12
<b>8796</b>	<b>Each</b>	<b>19,40</b>	<b>20,20</b>	<b>27,70</b>	<b>31,10</b>	<b>43,20</b>	<b>47,70</b>	<b>69,20</b>

Ø	mm	13	14	15	16	18	20
Overall length	mm	75	85	85	85	100	100
Cutting edge length	mm	27	30	30	30	40	40
Drive Ø	mm	13	14	15	16	18	20
<b>8796</b>	<b>Each</b>	<b>76,10</b>	<b>93,30</b>	<b>124,00</b>	<b>134,00</b>	<b>180,00</b>	<b>225,00</b>



**8796**

Long series. Micrograin solid carbide.  
30° two flutes. Right-hand cutting.  
Central tang drive. Cylindrical shank. For slots, splines and for cutting out.

Ø	mm	3	4	5	6	8	10	12
Overall length	mm	60	60	70	100	100	100	100
Cutting edge length	mm	30	30	35	40	40	45	45
Drive Ø	mm	3	4	5	6	8	10	12
<b>8796L</b>	<b>Each</b>	<b>15,80</b>	<b>19,10</b>	<b>26,10</b>	<b>36,70</b>	<b>53,60</b>	<b>76,10</b>	<b>101,00</b>

Ø	mm	14	16	18	20
Overall length	mm	100	100	150	150
Cutting edge length	mm	45	45	50	55
Drive Ø	mm	14	16	18	20
<b>8796L</b>	<b>Each</b>	<b>128,00</b>	<b>163,00</b>	<b>287,00</b>	<b>339,00</b>



**8796L**

Short series. Micrograin solid carbide.  
30° two flutes. Right-hand cutting. Round head.  
Cylindrical shank. For slots, splines and for cutting out.

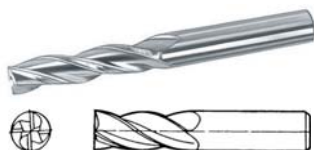
Ø	mm	2	3	4	5	6	8	10
Overall length	mm	40	40	50	50	50	60	70
Cutting edge length	mm	5	12	16	20	20	22	25
Drive Ø	mm	3	3	4	5	6	8	10
<b>8796R</b>	<b>Each</b>	<b>17,50</b>	<b>13,60</b>	<b>17,70</b>	<b>19,30</b>	<b>23,90</b>	<b>36,70</b>	<b>56,60</b>

Ø	mm	12	14	16	18	20
Overall length	mm	75	85	85	100	100
Cutting edge length	mm	27	30	30	40	40
Drive Ø	mm	12	14	16	18	20
<b>8796R</b>	<b>Each</b>	<b>84,10</b>	<b>110,00</b>	<b>159,00</b>	<b>217,00</b>	<b>273,00</b>



**8796R**

**8797****SCU**

HARTMETALL

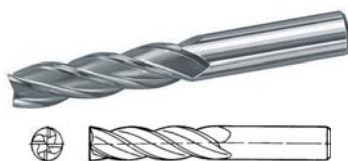
Short series. Micrograin solid carbide.

30° four flutes. Right cutting.

Two central frontal teeth. Cylindrical shank. For cutting out and finishing.

Ø	mm	2	2,5	3	3,5	4	4,5	5
Overall length	mm	40	40	40	40	50	50	50
Cutting edge length	mm	5	7	12	12	16	16	20
Drive Ø	mm	3	3	3	3,5	4	4,5	5
<b>8797</b>	<b>Each</b>	<b>14,60</b>	<b>13,10</b>	<b>11,40</b>	<b>13,10</b>	<b>15,20</b>	<b>16,30</b>	<b>16,30</b>
Ø	mm	5,5	6	7	8	9	9,5	10
Overall length	mm	50	50	60	60	70	70	70
Cutting edge length	mm	20	20	22	22	22	22	25
Drive Ø	mm	5,5	6	7	8	9	9,5	10
<b>8797</b>	<b>Each</b>	<b>19,40</b>	<b>20,20</b>	<b>27,70</b>	<b>31,10</b>	<b>43,20</b>	<b>49,10</b>	<b>47,70</b>
Ø	mm	12	13	14	15	16	18	20
Overall length	mm	75	75	85	85	85	100	100
Cutting edge length	mm	27	27	30	30	30	40	40
Drive Ø	mm	12	13	14	15	16	18	20
<b>8797</b>	<b>Each</b>	<b>69,20</b>	<b>76,10</b>	<b>93,30</b>	<b>124,00</b>	<b>134,00</b>	<b>180,00</b>	<b>225,00</b>

Size mm 9,5 running out of stock.

**8797L****SCU**

HARTMETALL

Long series. Micrograin solid carbide.

30° four flutes. Right cutting.

Two central frontal teeth. Cylindrical shank. For cutting out and finishing.

Ø	mm	3	4	5	6	8	10	12
Overall length	mm	60	60	70	100	100	100	100
Cutting edge length	mm	30	30	35	40	40	45	45
Drive Ø	mm	3	4	5	6	8	10	12
<b>8797L</b>	<b>Each</b>	<b>15,80</b>	<b>19,10</b>	<b>26,10</b>	<b>36,70</b>	<b>53,60</b>	<b>76,10</b>	<b>101,00</b>
Ø	mm	14	16	18	20			
Overall length	mm	100	100	150	150			
Cutting edge length	mm	45	45	50	55			
Drive Ø	mm	14	16	18	20			
<b>8797L</b>	<b>Each</b>	<b>128,00</b>	<b>163,00</b>	<b>287,00</b>	<b>339,00</b>			

**8797R****SCU**

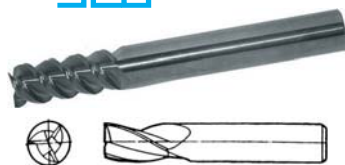
HARTMETALL

Short series. Micrograin solid carbide.

30° four flutes. Right-hand cutting. Round head.

Cylindrical shank. For slots, splines, etc. For cutting out and finishing.

Ø	mm	2	3	4	5	6	8	10
Overall length	mm	40	40	50	50	50	60	70
Cutting edge length	mm	5	12	16	20	20	22	25
Drive Ø	mm	3	3	4	5	6	8	10
<b>8797R</b>	<b>Each</b>	<b>17,50</b>	<b>13,60</b>	<b>17,70</b>	<b>19,30</b>	<b>23,90</b>	<b>36,70</b>	<b>56,60</b>
Ø	mm	12	14	16	18	20		
Overall length	mm	75	85	85	100	100		
Cutting edge length	mm	27	30	30	40	40		
Drive Ø	mm	12	14	16	18	20		
<b>8797R</b>	<b>Each</b>	<b>84,10</b>	<b>110,00</b>	<b>159,00</b>	<b>217,00</b>	<b>273,00</b>		

**8797T****SCU**

HARTMETALL

Micrograin solid carbide.

Three 60° flutes. Right-hand cutting. Central tang drive.

Cylindrical shank. For cutting out and finishing.

Ø	mm	6	8	10	12	14	16	18	20
Overall length	mm	50	60	70	75	85	85	100	100
Cutting edge length	mm	16	20	22	27	27	30	38	38
Drive Ø	mm	6	8	10	12	14	16	18	20
<b>8797T</b>	<b>Each</b>	<b>20,20</b>	<b>31,10</b>	<b>48,10</b>	<b>69,20</b>	<b>93,30</b>	<b>134,00</b>	<b>184,00</b>	<b>232,00</b>

**8798****SCU**

HARTMETALL

High-performance. Hard micrograin solid carbide.

For ROUGHING, 45° three flutes. Right-hand cutting. Central tang drive.

Cylindrical shank.

Ø	mm	6	8	10	12	16	20
Overall length	mm	50	60	70	75	85	100
Cutting edge length	mm	16	20	22	27	30	38
Drive Ø	mm	6	8	10	12	16	20
<b>8798</b>	<b>Each</b>	<b>34,50</b>	<b>53,10</b>	<b>74,80</b>	<b>99,20</b>	<b>201,00</b>	<b>270,00</b>

High-performance. Hard micrograin solid carbide.  
For SEMI-FINISHING, 45° three flutes. Right-hand cutting. Central tang drive.  
Cylindrical shank.

Ø	mm	6	8	10	12	16	20
Overall length	mm	50	60	70	75	85	100
Cutting edge length	mm	16	20	22	27	30	38
Drive Ø	mm	6	8	10	12	16	20
<b>8798L</b>	<b>Each</b>	<b>34,50</b>	<b>53,10</b>	<b>74,80</b>	<b>99,20</b>	<b>201,00</b>	<b>270,00</b>

**SCU**

**8798L**



HARTMETALL

High-performance. Hard micrograin solid carbide and HSC 883 surface coating for dry/high speed use.

With chip breaker, fine pitch, 30° flutes. Right-hand cutting. Two central tang drives.  
Cylindrical shank.

Ø	mm	6	8	10	12	14	16	18	20
Overall length	mm	50	60	70	75	85	85	100	100
Cutting edge length	mm	20	22	25	27	27	30	40	40
Drive Ø	mm	6	8	10	12	14	16	18	20
<b>8798T</b>	<b>Each</b>	<b>40,10</b>	<b>57,10</b>	<b>79,50</b>	<b>108,00</b>	<b>153,00</b>	<b>173,00</b>	<b>260,00</b>	<b>315,00</b>

**SCU**

**8798T**



HARTMETALL

**TUNGSTEN CARBIDE SOLID END MILLS FOR ALLUMINIUM**

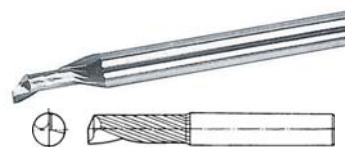
**Prod. SCU**

Micrograin solid carbide.  
30° single flute. Right-hand cutting. For milling aluminium and aluminium alloys.  
Cylindrical shank.

Ø	mm	3	4	5	6	8	10	12
Overall length	mm	40	50	50	50	60	70	75
Cutting edge length	mm	10	15	15	20	22	25	35
Drive Ø	mm	3	4	5	6	8	10	12
<b>8799</b>	<b>Each</b>	<b>17,10</b>	<b>23,90</b>	<b>26,30</b>	<b>28,40</b>	<b>45,10</b>	<b>67,40</b>	<b>92,30</b>

**SCU**

**8799**



HARTMETALL

**Orig. Hartner - Art. 84914**

Ø	mm	3	4	5	6	8	10	12	16	20
Overall length	mm	57	57	57	57	63	72	83	92	104
Cutting edge length	mm	7	8	10	10	16	19	22	26	32
Drive Ø	mm	6	6	6	6	8	10	12	16	20
<b>8799A</b>	<b>Each</b>	<b>27,50</b>	<b>27,50</b>	<b>27,50</b>	<b>27,50</b>	<b>31,10</b>	<b>52,90</b>	<b>77,40</b>	<b>128,00</b>	<b>198,00</b>



**8799A**  
*new*



HARTMETALL

**TUNGSTEN CARBIDE SOLID END MILLS WITH FIRE COATING**

**Orig. Hartner - Art. 84901**

Special type with differential helix, for maximum performance in roughing and finishing materials with hardness up to HRC 54. It allows a significant reduction in vibration, better chip flow, less power consumption, reducing the noise level, high degree of finish of the machined surface, without a trace of self-generating chatter. Longer life, higher speeds and feeds.

With special FIRE coating for maximum protection of the tool to cracking, maximum resistance to heat and humidity, which increase the life and performance. Micro-grain carbide type DK 460 UF high plasticity for a greater flexibility in processing and therefore less chance of breakage.

Very fine surface finish and dimensional precision.

Long series DIN 6527 L. Type N with 4 helical cutting edges to 35°/38°. Cutting right. Front tooth in the middle.

Cylindrical shank DIN 6535 HA.

Ø	mm	4	5	6	8	10	12	16	20	25
Overall length	mm	57	57	57	63	72	83	92	104	121
Cutting edge length	mm	11	13	13	19	22	26	32	38	45
Drive Ø	mm	6	6	6	8	10	12	16	20	25
<b>8799C</b>	<b>Each</b>	<b>32,40</b>	<b>32,40</b>	<b>40,30</b>	<b>56,90</b>	<b>85,30</b>	<b>109,00</b>	<b>190,00</b>	<b>294,00</b>	<b>464,00</b>



**8799C**  
*new*



HARTMETALL **FIRE**

**8799D**  
*new*



HARTMETALL FIRE

**Orig. Hartner - Art. 84902**

Product description as Art. 8799C

Long series DIN 6527 L. Type N with 4 helical cutting edges to 35°/38°. Cutting right. Front tooth in the middle.

Cylindrical shank DIN 6535 HB.

Ø	mm	4	5	6	8	10	12	16	20	25
Overall length	mm	57	57	57	63	72	83	92	104	121
Cutting edge length	mm	11	13	13	19	22	26	32	38	45
Drive Ø	mm	6	6	6	8	10	12	16	20	25
<b>8799D</b>	<b>Each</b>	<b>35,60</b>	<b>35,60</b>	<b>43,40</b>	<b>60,10</b>	<b>88,40</b>	<b>113,00</b>	<b>198,00</b>	<b>300,00</b>	<b>477,00</b>

**8799EA**  
*new*



HARTMETALL FIRE

**Orig. Hartner - Art. 84911**

New program of milling cutters with special FIRE coating for maximum protection of the tool to cracking, maximum resistance to heat and humidity, which increase the life and performance. Micro-grain carbide type DK 460 UF high plasticity for a greater flexibility in processing and therefore less chance of breakage.

Very fine surface finish and dimensional precision.

Long series DIN 6527 L. Type N with 2 helical cutting edges to 30°. Cutting right. Front tooth in the middle.

Cylindrical shank DIN 6535 HA. Universal use for quarries, grooves, slots, etc. in materials with strength up to 1400 N/mm².

Ø	mm	2	3	4	5	6	8	10	12
Overall length	mm	57	57	57	57	57	63	72	83
Cutting edge length	mm	6	7	8	10	10	16	19	22
Drive Ø	mm	6	6	6	6	6	8	10	12
<b>8799EA</b>	<b>Each</b>	<b>30,10</b>	<b>30,10</b>	<b>28,50</b>	<b>28,50</b>	<b>26,70</b>	<b>37,10</b>	<b>54,50</b>	<b>79,10</b>

**8799EF**  
*new*



HARTMETALL FIRE

**Orig. Hartner - Art. 84917**

Product description as Art. 8799EA

Long series DIN 6527 L. Type N with 2 helical cutting edges to 30°. Cutting right.

Cylindrical shank DIN 6535 HA. Universal use for quarries, grooves, slots, etc. in materials with strength up to 1400 N/mm².

Ø	mm	2	3	4	5	6	8	10	12	20
Overall length	mm	57	57	57	57	57	63	72	83	104
Cutting edge length	mm	6	7	8	10	10	16	19	22	32
Drive Ø	mm	6	6	6	6	6	8	10	12	20
<b>8799EF</b>	<b>Each</b>	<b>31,60</b>	<b>31,60</b>	<b>31,60</b>	<b>31,60</b>	<b>31,60</b>	<b>40,30</b>	<b>52,10</b>	<b>72,60</b>	<b>185,00</b>

**8799EH**  
*new*



HARTMETALL FIRE

**Orig. Hartner - Art. 84903**

Product description as Art. 8799EA

Long series DIN 6527 L. Type NH with 3 helical cutting edges to 45°. Cutting right. Front tooth in the middle.

Cylindrical shank DIN 6535 HA. Universal use for quarries, grooves, slots, etc. in materials with strength up to 1400 N/mm².

Ø	mm	3	4	5	6	8	10	12
Overall length	mm	57	57	57	57	63	72	83
Cutting edge length	mm	7	8	10	10	16	19	22
Drive Ø	mm	6	6	6	6	8	10	12
<b>8799EH</b>	<b>Each</b>	<b>29,20</b>	<b>29,20</b>	<b>29,20</b>	<b>29,20</b>	<b>37,90</b>	<b>56,10</b>	<b>86,80</b>

Ø	mm	14	16	20
Overall length	mm	83	92	104
Cutting edge length	mm	22	26	32
Drive Ø	mm	12	16	20
<b>8799EH</b>	<b>Each</b>	<b>108,00</b>	<b>146,00</b>	<b>237,00</b>

**8799EL**  
*new*



HARTMETALL FIRE

**Orig. Hartner - Art. 84915**

Product description as Art. 8799EA

Long series DIN 6527 L. Type NH with 4 helical cutting edges to 30°. Cutting right. Front tooth in the middle.

Cylindrical shank DIN 6535 HB. Universal use for quarries, grooves, slots, etc. in materials with strength up to 1400 N/mm².

Ø	mm	2	3	4	5	6	8	10
Overall length	mm	57	57	57	57	57	63	72
Cutting edge length	mm	7	8	11	13	13	19	22
Drive Ø	mm	6	6	6	6	6	8	10
<b>8799EL</b>	<b>Each</b>	<b>36,30</b>	<b>36,30</b>	<b>35,60</b>	<b>35,60</b>	<b>39,50</b>	<b>46,60</b>	<b>73,40</b>

Ø	mm	12	14	16	18	20
Overall length	mm	83	83	92	92	104
Cutting edge length	mm	26	26	32	32	38
Drive Ø	mm	12	14	16	18	20
<b>8799EL</b>	<b>Each</b>	<b>99,50</b>	<b>128,00</b>	<b>169,00</b>	<b>215,00</b>	<b>267,00</b>



**Orig. Hartner - Art. 84919**

Product description as Art. 8799EA

 Long series DIN 6527 L. Type N with 4 helical cutting edges to 30°. Radial head. Cutting right. Cylindrical shank DIN 6535 HB. Universal use for quarries, grooves, slots, etc. in materials with strength up to 1400 N/mm<sup>2</sup>.

Ø	mm	3	4	5	6	8	10	12	20
Overall length	mm	57	57	57	57	63	72	83	104
Cutting edge length	mm	8	11	13	13	19	22	26	38
Drive Ø	mm	6	6	6	6	8	10	12	20
<b>8799EM</b>	<b>Each</b>	<b>37,90</b>	<b>37,90</b>	<b>38,70</b>	<b>37,90</b>	<b>47,40</b>	<b>61,60</b>	<b>85,30</b>	<b>214,00</b>


**8799EM**

new

**Orig. Hartner - Art. 84908**

Type for high performance of fine-material hardness up to 50 HRC. With special FIRE coating. For the accentuated spiral angle, for the special processing of the cutting edges and corners of the cutting edges allows a perfect stability of cut, a feed more fluid and fast, a machining precision and surface quality at the highest levels.

Long series with standard factory. Type NH with helical multi-cutting edges to 45°. Cutting right. Cylindrical shank DIN 6535 HA.

Ø	mm	3	4	5	6	8	10	12	16	20
Overall length	mm	57	57	57	57	63	72	83	92	104
Cutting edge length	mm	8	11	13	13	19	22	26	32	38
Drive Ø	mm	6	6	6	6	8	10	12	16	20
<b>8799EP</b>	<b>Each</b>	<b>42,70</b>	<b>40,30</b>	<b>37,90</b>	<b>37,90</b>	<b>46,60</b>	<b>71,10</b>	<b>97,90</b>	<b>176,00</b>	<b>245,00</b>


**8799EP**

new

**Orig. Hartner - Art. 84910**

Product description as Art. 8799EP

Extra-long series with standard factory. Type NH with helical multi-cutting edges to 45°. Cutting right.

Cylindrical shank DIN 6535 HA.

Ø	mm	6	8	10	12	16	20
Overall length	mm	75	100	100	150	150	150
Cutting edge length	mm	30	40	40	45	65	65
Drive Ø	mm	6	8	10	12	16	20
<b>8799ER</b>	<b>Each</b>	<b>55,30</b>	<b>64,10</b>	<b>114,00</b>	<b>158,00</b>	<b>285,00</b>	<b>427,00</b>


**8799ER**

new

**Orig. Hartner - Art. 84907**

For high performance roughing with material with hardness up to 54 HRC. With special FIRE coating. With fine pitch chip breaker, with high surface hardness that allows use also with compressed air.

Long series DIN 6527 L. Type HR with 4 helical cutting edges to 20°. Cutting right. Front tooth in the middle.

Cylindrical shank DIN 6535 HB.

Ø	mm	6	8	10	12	16	20
Overall length	mm	57	63	72	83	92	104
Cutting edge length	mm	13	19	22	26	32	38
Drive Ø	mm	6	8	10	12	16	20
<b>8799ES</b>	<b>Each</b>	<b>101,00</b>	<b>109,00</b>	<b>120,00</b>	<b>141,00</b>	<b>225,00</b>	<b>338,00</b>


**8799ES**

new

**COUNTERSINKS**
**Orig. Dürr - Art. 216-31**

Three flutes, HSS ground. For countersinking holes in iron and steel. Vibration-free. 30° HEAD TAPER. Cylindrical shank.

Countersink max Ø	mm	6,3	12,4	16,5	20,5	25	31
Countersink min Ø	mm	2	3	4	5	6	9
Drive Ø	mm	5	8	10	10	10	12
Overall length	mm	50	65	76	83	90	98
<b>8799G</b>	<b>Each</b>	<b>40,20</b>	<b>59,20</b>	<b>72,20</b>	<b>105,00</b>	<b>135,00</b>	<b>194,00</b>


**8799G**

With 3 cutting edges, ground High-Speed Steel. To countersink holes in iron and steel. No vibrations. 45° CONICAL HEAD Cylindrical connection.

Countersink max Ø	mm	12,4	16,5	20,5	25
Countersink min Ø	mm	3	4	5	6
Drive Ø	mm	8	10	10	10
Overall length	mm	64	68	74	78
<b>8799GE</b>	<b>Each</b>	<b>88,20</b>	<b>108,00</b>	<b>155,00</b>	<b>199,00</b>


**8799GE**

new

8800G




60° HSS

Orig. Dürr - Art. 216 -31

Three flutes, HSS ground.

For countersinking holes in iron and steel. Vibration-free.

60° HEAD TAPER – DIN 334. Cylindrical shank.

HSS

Type		6,3	8	10	12,5	12,5L	16	16L
Countersink max Ø	mm	6,3	8	10	12,5	12,5	16	16
Countersink min Ø	mm	1,6	2	2,5	3,2	3,2	4	4
Drive Ø	mm	5	6	6	8	8	10	10
Overall length	mm	45	50	50	56	159	63	162
<b>8800G</b>	<b>Each</b>	<b>13,60</b>	<b>13,90</b>	<b>17,40</b>	<b>18,60</b>	<b>141,00</b>	<b>22,60</b>	<b>177,00</b>

Type		20	20L	25	25L	30	30L	31,5L
Countersink max Ø	mm	20	20	25	25	30	30	31,5
Countersink min Ø	mm	5	5	6,3	6,3	10	4	4
Drive Ø	mm	10	10	10	10	12	12	12
Overall length	mm	67	165	71	169	75	200	200
<b>8800G</b>	<b>Each</b>	<b>31,80</b>	<b>245,00</b>	<b>43,50</b>	<b>289,00</b>	<b>82,50</b>	<b>422,00</b>	<b>399,00</b>

8802G




60° HSS TIN

Orig. Dürr - Art. 216-31

Product description as Art. 8800G

HSS, TIN coated.

Countersink max Ø	mm	6,3	8	10	12,5	16	20	25
Countersink min Ø	mm	1,6	2	2,5	3,2	4	5	6,3
Drive Ø	mm	5	6	6	8	10	10	10
Overall length	mm	45	50	50	56	63	67	71
<b>8802G</b>	<b>Each</b>	<b>24,10</b>	<b>26,70</b>	<b>32,20</b>	<b>36,70</b>	<b>41,50</b>	<b>58,10</b>	<b>78,10</b>

8804G




60° HSS

Orig. Dürr - Art. 216-61

Three flutes, HSS ground.

For countersinking holes in iron and steel. Vibration-free.

60° HEAD TAPER – DIN 334. Morse taper shank.

Countersink max Ø	mm	16	20	25	31,5	40	50	63	80
Countersink min Ø	mm	4	5	6,3	10	12,5	16	20	25
Drive	C.M.	1	2	2	2	3	3	4	4
Overall length	mm	90	106	112	118	150	160	190	200
<b>8804G</b>	<b>Each</b>	<b>42,10</b>	<b>59,20</b>	<b>61,60</b>	<b>77,20</b>	<b>120,00</b>	<b>158,00</b>	<b>307,00</b>	<b>531,00</b>

Size mm 16 running out of stock.

8806G




75° HSS

Orig. Dürr - Art. 216-31

Three flutes, HSS ground.

For countersinking holes in iron and steel. Vibration-free.

75° HEAD TAPER. Cylindrical shank.

Countersink max Ø	mm	8	10	12,5	15	20	25
Countersink min Ø	mm	2	2,5	2,8	3,2	3,5	3,8
Drive Ø	mm	6	6	8	8	10	10
Overall length	mm	50	54	54	56	63	71
<b>8806G</b>	<b>Each</b>	<b>22,90</b>	<b>25,20</b>	<b>28,50</b>	<b>38,30</b>	<b>56,70</b>	<b>63,10</b>

8808G




75° HSS

Orig. Dürr - Art. 216-61

Three flutes, HSS ground.

For countersinking holes in iron and steel. Vibration-free.

75° HEAD TAPER. Morse taper shank.

Countersink max Ø	mm	15	20	25	30
Countersink min Ø	mm	3,2	3,5	3,8	4,2
Drive	C.M.	1	1	2	2
Overall length	mm	87	90	110	114
<b>8808G</b>	<b>Each</b>	<b>55,20</b>	<b>63,10</b>	<b>80,80</b>	<b>128,00</b>

Size mm 25 running out of stock.

## 60°/90° COUNTERSINKS

8809G




60°-90° HSS

Orig. Dürr - Art. 217-31

Three flutes, HSS ground. For countersinking holes in iron and steel. Vibration-free. 60°/90° HEAD TAPER. Cylindrical shank.

Countersink max Ø	mm	6	8	10	12
Countersink min Ø	mm	2	2	2	2
Drive Ø	mm	6	8	10	12
Overall length	mm	60	70	75	75
<b>8809G</b>	<b>Each</b>	<b>20,80</b>	<b>21,80</b>	<b>27,30</b>	<b>29,10</b>

Same mills in hardmetal available on request.

**COUNTERSINKS**

**Orig. Dürr - Art. 217-31**

Three flutes, HSS ground.  
For countersinking holes in iron and steel. Vibration-free.  
90° HEAD TAPER – DIN 335. Cylindrical shank.  
HSS



**8810G**

**90° HSS**

Countersink max Ø	mm	4,3	5	5,3	5,8	6	6,3	7	7,3	8	8,3	9,4	10	10,4	11,5	12,4
Countersink min Ø	mm	1,3	1,5	1,5	1,5	1,5	1,5	1,8	1,8	2	2	2,2	2,5	2,5	2,8	2,8
Drive Ø	mm	4	4	4	5	5	5	6	6	6	6	6	6	6	8	8
Overall length	mm	40	40	40	45	45	45	50	50	50	50	50	50	50	56	56
<b>8810G</b>	<b>Each</b>	<b>12,60</b>	<b>12,60</b>	<b>12,60</b>	<b>12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>13,90</b>	<b>13,90</b>	<b>13,90</b>	<b>14,20</b>	<b>16,90</b>	<b>16,90</b>	<b>17,20</b>	<b>18,30</b>	<b>18,30</b>
Countersink max Ø	mm	13,4	14,4	15	16,5	19	20,5	23	25	26	28	30	31	40		
Countersink min Ø	mm	2,9	2	3,2	3,2	3,5	3,5	3,8	3,8	3,8	4	4,2	4,2	10		
Drive Ø	mm	8	8	10	10	10	10	10	10	10	12	12	12	12		
Overall length	mm	56	60	60	60	63	63	67	67	67	71	71	71	75		
<b>8810G</b>	<b>Each</b>	<b>19,70</b>	<b>21,80</b>	<b>21,30</b>	<b>22,40</b>	<b>31,40</b>	<b>31,40</b>	<b>41,10</b>	<b>43,20</b>	<b>59,40</b>	<b>59,40</b>	<b>64,80</b>	<b>64,80</b>	<b>111,00</b>		

Product description as Art. 8810G  
HSS, TIN coated.



**8812G**

**90° HSS TIN**

Countersink max Ø	mm	4,3	5	5,3	5,8	6	6,3	7	7,3	8	8,3	9,4	10	10,4	11,5	12,4
Countersink min Ø	mm	1,3	1,5	1,5	1,5	1,5	1,5	1,8	1,8	2	2	2,2	2,5	2,5	2,8	2,8
Drive Ø	mm	4	4	4	5	5	5	6	6	6	6	6	6	6	8	8
Overall length	mm	40	40	40	45	45	45	50	50	50	50	50	50	50	56	56
<b>8812G</b>	<b>Each</b>	<b>23,20</b>	<b>23,20</b>	<b>23,20</b>	<b>23,30</b>	<b>23,30</b>	<b>23,30</b>	<b>26,70</b>	<b>26,70</b>	<b>26,70</b>	<b>26,80</b>	<b>31,70</b>	<b>31,70</b>	<b>32,10</b>	<b>34,20</b>	<b>34,20</b>
Countersink max Ø	mm	13,4	14,4	15	16,5	19	20,5	23	25	26	28	30	31	40		
Countersink min Ø	mm	2,9	2	3,2	3,2	3,5	3,5	3,8	3,8	3,8	4	4,2	4,2	10		
Drive Ø	mm	8	8	10	10	10	10	10	10	10	12	12	12	12		
Overall length	mm	56	60	60	60	63	63	67	67	67	71	71	71	75		
<b>8812G</b>	<b>Each</b>	<b>37,80</b>	<b>40,40</b>	<b>40,10</b>	<b>41,10</b>	<b>57,50</b>	<b>57,50</b>	<b>74,40</b>	<b>77,50</b>	<b>94,00</b>	<b>101,00</b>	<b>106,00</b>	<b>106,00</b>	<b>209,00</b>		

Product description as Art. 8810G  
HSS, TiCN (Titanium carbo-nitride) coated. For heat-treated steel, aluminium and aluminium alloys.



**8813G**

**90° HSS TiCN**

Countersink max Ø	mm	6,3	8,3	10,4	12,4	15	16,5	20,5								
Countersink min Ø	mm	1,5	2	2,5	2,8	3,2	3,2	3,5								
Drive Ø	mm	5	6	6	8	10	10	10								
Overall length	mm	45	50	50	56	60	60	63								
<b>8813G</b>	<b>Each</b>	<b>25,20</b>	<b>29,30</b>	<b>35,10</b>	<b>37,20</b>	<b>43,30</b>	<b>44,40</b>	<b>62,40</b>								
Countersink max Ø	mm	25	31													
Countersink min Ø	mm	3,8	4,2													
Drive Ø	mm	10	12													
Overall length	mm	67	71													
<b>8813G</b>	<b>Each</b>	<b>83,80</b>	<b>113,00</b>													

Product description as Art. 8810G  
In COBALT HSS-E. For high-resistance steel and stainless steel.



**8814G**

**90° HSS-E**

Countersink max Ø	mm	5,3	6,3	8	8,3	9,4	10	10,4								
Countersink min Ø	mm	1,5	1,5	2	2	2,2	2,5	2,5								
Drive Ø	mm	4	5	6	6	6	6	6								
Overall length	mm	40	45	50	50	50	50	50								
<b>8814G</b>	<b>Each</b>	<b>14,40</b>	<b>14,60</b>	<b>16,10</b>	<b>16,50</b>	<b>19,10</b>	<b>19,10</b>	<b>19,80</b>								
Countersink max Ø	mm	12,4	15	16,5	20,5	25	31	40								
Countersink min Ø	mm	2,8	3,2	3,2	3,5	3,8	4,2	10								
Drive Ø	mm	8	10	10	10	10	12	12								
Overall length	mm	56	60	60	63	67	71	75								
<b>8814G</b>	<b>Each</b>	<b>20,90</b>	<b>24,20</b>	<b>25,90</b>	<b>35,70</b>	<b>49,20</b>	<b>73,70</b>	<b>158,00</b>								

**8815G****90° HSS-E****Orig. Dürr - Art. 217-21**

With ground flutes.

For countersinking holes. Vibration-free.

90° HEAD TAPER - DIN 335. Cylindrical shank.

COBALT HSS-E. For very high resistance steel, such as TITANIUM and its alloys, INCONEL and similar materials.

Countersink max Ø	mm	10,4	12,4	16,5	20,5	25	31
Countersink min Ø	mm	4	4	4,5	5	5,5	6
Drive Ø	mm	6	8	10	10	10	12
Overall length	mm	50	56	60	63	67	71
Cutting edges	No	4	5	5	5	5	5
<b>8815G</b>	<b>Each</b>	<b>64,80</b>	<b>70,60</b>	<b>86,10</b>	<b>120,00</b>	<b>169,00</b>	<b>221,00</b>

**8816G****90° HARTMETALL****Orig. Dürr - Art. 217-33**

Three flutes, HSS ground.

For countersinking holes in iron and steel. Vibration-free.

90° HEAD TAPER - DIN 335. Cylindrical shank.

In SOLID CARBIDE. For steel and materials difficult to chip, cast iron, aluminium-silicium alloys and stainless steel.

Countersink max Ø	mm	6	6,3	8	8,3	10	10,4	11,5
Countersink min Ø	mm	2	2	2	2	2,5	2,5	2,8
Drive Ø	mm	5	5	6	6	8	8	8
Overall length	mm	40	40	45	45	46	46	56
<b>8816G</b>	<b>Each</b>	<b>164,00</b>	<b>164,00</b>	<b>166,00</b>	<b>166,00</b>	<b>153,00</b>	<b>153,00</b>	<b>157,00</b>
Countersink max Ø	mm	12,4	15	16,5	20,5	25	31	
Countersink min Ø	mm	2,8	3,2	3,2	3,5	3,8	4,2	
Drive Ø	mm	8	10	10	10	10	12	
Overall length	mm	56	60	60	63	67	71	
<b>8816G</b>	<b>Each</b>	<b>155,00</b>	<b>197,00</b>	<b>199,00</b>	<b>236,00</b>	<b>271,00</b>	<b>409,00</b>	

**8816GE****90° HARTMETALL****Orig. Dürr - Art. 217-23**

With ground flutes.

For countersinking holes in iron and steel. Vibration-free.

90° HEAD TAPER - DIN 335. Cylindrical shank.

HARDMETAL. For very high resistance steel and materials, such as TITANIUM and its alloys, manganese, hardened steel up to 60 HRC, INCONEL and similar materials.

Countersink max Ø	mm	10,4	12,4	16,5	20,5	25	31
Countersink min Ø	mm	4	4	4,5	5	5,5	6
Drive Ø	mm	8	8	10	10	10	12
Overall length	mm	46	56	60	63	67	71
Cutting edges	No	4	5	5	5	5	5
<b>8816GE</b>	<b>Each</b>	<b>308,00</b>	<b>320,00</b>	<b>387,00</b>	<b>448,00</b>	<b>529,00</b>	<b>700,00</b>

**8817G****90° HSS****Orig. Dürr - Art. 217-31**

Three flutes, HSS ground.

For countersinking holes in iron and steel. Vibration-free.

90° HEAD TAPER. Long and very long cylindrical shank.

Type		5.8	6.3	6.3L	8.3	8.3L	9.4	10.4
Countersink max Ø	mm	5,8	6,3	6,3	8,3	8,3	9,4	10,4
Countersink min Ø	mm	1,5	1,5	1,5	2	2	2,2	2,5
Drive Ø	mm	5	5	5	6	6	6	6
Overall length	mm	104	104	154	105	155	106	107
<b>8817G</b>	<b>Each</b>	<b>42,60</b>	<b>40,80</b>	<b>50,10</b>	<b>42,60</b>	<b>51,80</b>	<b>50,10</b>	<b>46,30</b>
Type		10.4L	11.5	12.4	12.4L	12.4XL	15	15L
Countersink max Ø	mm	10,4	11,5	12,4	12,4	12,4	15	15
Countersink min Ø	mm	2,5	2,8	2,8	2,8	2,8	3,2	3,2
Drive Ø	mm	6	6	8	8	8	10	10
Overall length	mm	157	108	108	158	258	109	159
<b>8817G</b>	<b>Each</b>	<b>57,40</b>	<b>50,10</b>	<b>48,20</b>	<b>63,10</b>	<b>141,00</b>	<b>61,10</b>	<b>79,60</b>
Type		16.5	16.5L	16.5XL	20.5	20.5L	20.5XL	25
Countersink max Ø	mm	16,5	16,5	16,5	20,5	20,5	20,5	25
Countersink min Ø	mm	3,2	3,2	3,2	3,5	3,5	3,5	3,8
Drive Ø	mm	10	10	10	10	10	10	10
Overall length	mm	111	161	261	114	164	264	118
<b>8817G</b>	<b>Each</b>	<b>59,20</b>	<b>77,80</b>	<b>177,00</b>	<b>83,30</b>	<b>108,00</b>	<b>245,00</b>	<b>115,00</b>
Type		25L	31	31L				
Countersink max Ø	mm	25	31	31				
Countersink min Ø	mm	3,8	4,2	4,2				
Drive Ø	mm	10	12	12				
Overall length	mm	168	140	190				
<b>8817G</b>	<b>Each</b>	<b>148,00</b>	<b>197,00</b>	<b>256,00</b>				

**Orig. Dürr - Art. 217-91**

90° three flutes. HSS.

For countersinking holes in steel and iron. With bicomponent handgrip.

Countersink max Ø	mm	11,5	12,4	15	16,5	19	20,5	23	25
Overall length	mm	125	125	130	130	135	135	140	140
<b>8818G</b>	<b>Each</b>	<b>31,80</b>	<b>31,80</b>	<b>34,80</b>	<b>35,90</b>	<b>44,90</b>	<b>44,90</b>	<b>54,70</b>	<b>56,70</b>



**8818G**

90° HSS

**Orig. Völkel - Art. 673**

Three flutes, ground. For countersinking holes in iron and steel. 90° HEAD TAPER. HSS steel. 1/4 - C6.3 hexagonal shank. Suitable for bits handles or battery screwdrivers.

Countersink max Ø	mm	6,3	8,3	10,4	12,4	16,5	20,5
Overall length	mm	31	31	34	35	40	41
<b>8819G</b>	<b>Each</b>	<b>11,80</b>	<b>11,80</b>	<b>12,70</b>	<b>13,40</b>	<b>15,30</b>	<b>16,70</b>



**8819G**

90° HSS 1/4"

**Prod. SCU**

With 3 cutting edges, ground. To countersink holes in iron, steel, light alloys and non-ferrous alloys. 90° CONICAL HEAD Made of High-Speed Steel. 1/4 hex shank. Suitable for use with electric and battery screwdrivers.

Countersink max Ø	mm	6,3	8,3	10,4	12,4	16,5	20,5
Overall length	mm	38	38	41	42	47	48
<b>8819GE</b>	<b>Each</b>	<b>10,40</b>	<b>10,40</b>	<b>11,30</b>	<b>13,10</b>	<b>17,60</b>	<b>16,60</b>



**8819GE**

*new*

90° HSS 1/4"

With 3 cutting edges, ground. To countersink holes in iron, steel, light alloys and non-ferrous alloys. 90° CONICAL HEAD Made of High-Speed Steel 1/4 hex shank. Suitable for use with electric and battery screwdrivers.

Countersink max Ø	mm	6,3	8,3	10,4	12,4	16,5	20,5
Overall length	mm	38	38	41	42	47	48
<b>8819GF</b>	<b>Each</b>	<b>16,90</b>	<b>16,90</b>	<b>19,20</b>	<b>24,90</b>	<b>27,70</b>	<b>37,10</b>



**TIN**

**8819GF**

*new*

90° HSS 1/4"

**Orig. Dürr - Art. 217-61**

Three flutes, ground.

For countersinking holes in iron and steel. Vibration-free.

90° HEAD TAPER – DIN 335. Morse taper shank.

HSS

Countersink max Ø	mm	15	16,5	19	20,5	25	26	28	30
Countersink min Ø	mm	3,2	3,2	3,5	3,5	3,8	3,8	4	4,2
Drive	C.M.	1	1	2	2	2	2	2	2
Overall length	mm	85	85	100	100	106	106	112	112
<b>8820G</b>	<b>Each</b>	<b>47,30</b>	<b>57,80</b>	<b>60,40</b>	<b>66,60</b>	<b>67,90</b>	<b>63,20</b>	<b>70,10</b>	<b>74,40</b>



**8820G**

90° HSS

Countersink max Ø	mm	31	34	37	40	50	63	80	100
Countersink min Ø	mm	4,2	4,5	4,8	10	14	16	22	28
Drive	C.M.	2	2	2	3	3	4	4	4
Overall length	mm	112	118	118	140	150	180	190	200
<b>8820G</b>	<b>Each</b>	<b>74,40</b>	<b>81,30</b>	<b>86,80</b>	<b>110,00</b>	<b>137,00</b>	<b>224,00</b>	<b>380,00</b>	<b>871,00</b>

Sizes mm 15 - 19 and 26 running out of stock.

Three flutes, ground.

For countersinking holes. Vibration-free.

90° HEAD TAPER – DIN 335. Morse taper shank.

HSS, TIN coated.

Countersink max Ø	mm	16,5	20,5	25	30	31	34	37
Countersink min Ø	mm	3,2	3,5	3,8	4,2	4,2	4,5	4,8
Drive	C.M.	1	2	2	2	2	2	2
Overall length	mm	85	100	106	112	112	118	118
<b>8822G</b>	<b>Each</b>	<b>81,30</b>	<b>99,60</b>	<b>111,00</b>	<b>126,00</b>	<b>126,00</b>	<b>156,00</b>	<b>165,00</b>



**8822G**

90° HSS TIN

Countersink max Ø	mm	40	50	63
Countersink min Ø	mm	10	14	16
Drive	C.M.	3	3	4
Overall length	mm	140	150	180
<b>8822G</b>	<b>Each</b>	<b>232,00</b>	<b>280,00</b>	<b>494,00</b>

**8822GL**

Three flutes, ground.

For countersinking holes in iron and steel. Vibration-free.

90° HEAD TAPER – DIN 335. Morse taper shank.

In COBALT HSS-E.

Countersink max Ø	mm	<b>31</b>	<b>37</b>	<b>40</b>	<b>50</b>	<b>63</b>	<b>80</b>
Countersink min Ø	mm	4,2	4,8	10	14	16	22
Drive	C.M.	2	2	3	3	4	4
Overall length	mm	112	118	140	150	180	190
<b>8822GL</b>	<b>Each</b>	<b>145,00</b>	<b>172,00</b>	<b>215,00</b>	<b>267,00</b>	<b>435,00</b>	<b>739,00</b>

**8823G****Orig. Dürr - Art. 217-51**

With 5 ground flutes.

For countersinking holes in iron and steel. Vibration-free.

90° HEAD TAPER - DIN 335. Morse taper shank.

COBALT HSS-E. For very high resistance steel, such as TITANIUM and its alloys, INCONEL and similar materials.

Countersink max Ø	mm	<b>31</b>	<b>40</b>	<b>50</b>	<b>63</b>
Countersink min Ø	mm	6	10	14	16
Drive	C.M.	2	3	3	4
Overall length	mm	111	140	150	180
<b>8823G</b>	<b>Each</b>	<b>369,00</b>	<b>457,00</b>	<b>593,00</b>	<b>717,00</b>

**8824G****Orig. Dürr - Art. 217-53**

Three flutes, ground.

For countersinking holes in iron and steel. Vibration-free.

90° HEAD TAPER – DIN 335. Morse taper shank.

CARBIDE-TIPPED flutes. For steel and materials difficult to chip, cast iron, aluminium-silicium alloys and stainless steel.

Countersink max Ø	mm	<b>20,5</b>	<b>25</b>	<b>31</b>	<b>37</b>	<b>40</b>	<b>50</b>	<b>63</b>	<b>80</b>
Countersink min Ø	mm	7	9	10	12	14	18	22	28
Drive	C.M.	2	2	2	2	3	3	4	4
Overall length	mm	100	103	108	115	137	147	179	187
<b>8824G</b>	<b>Each</b>	<b>254,00</b>	<b>283,00</b>	<b>312,00</b>	<b>387,00</b>	<b>403,00</b>	<b>502,00</b>	<b>622,00</b>	<b>806,00</b>

**8824GE****Orig. Dürr - Art. 217-63**

With 5 ground flutes.

For countersinking holes in iron and steel. Vibration-free.

90° HEAD TAPER - DIN 335. Morse taper shank.

HARDMETAL flutes (size 31mm only, with hard metal head). For very high resistant steel and materials, such as TITANIUM and its alloys, manganese, hardened steel up to 60 HRC, INCONEL and similar materials.

Countersink max Ø	mm	<b>31</b>	<b>40</b>	<b>50</b>	<b>63</b>
Countersink min Ø	mm	6	14	18	22
Drive	C.M.	2	3	3	4
Overall length	mm	108	137	147	179
<b>8824GE</b>	<b>Each</b>	<b>748,00</b>	<b>783,00</b>	<b>938,00</b>	<b>1.180,00</b>

**8825G****Orig. Dürr - Art. 217-31**

Three flutes, HSS ground.

For countersinking holes in iron and steel. Vibration-free.

100° HEAD TAPER. Cylindrical shank.

Countersink max Ø	mm	<b>6,3</b>	<b>8</b>	<b>10,4</b>	<b>12,4</b>	<b>16,5</b>	<b>20,5</b>	<b>25</b>
Countersink min Ø	mm	1,5	2	2,5	2,8	3,2	3,5	3,8
Drive Ø	mm	5	6	6	8	10	10	10
Overall length	mm	44	49	49	55	59	62	65
<b>8825G</b>	<b>Each</b>	<b>20,20</b>	<b>22,60</b>	<b>25,20</b>	<b>28,50</b>	<b>38,30</b>	<b>56,70</b>	<b>63,10</b>

**8826G****Orig. Dürr - Art. 217 - 31**

Three flutes, HSS ground.

For countersinking holes in iron and steel. Vibration-free.

120° HEAD TAPER. Cylindrical shank.

Countersink max Ø	mm	<b>6,3</b>	<b>8</b>	<b>12,5</b>	<b>14,4</b>	<b>16</b>	<b>20</b>	<b>25</b>
Countersink min Ø	mm	1,5	2	2,8	2	3,2	3,5	3,8
Drive Ø	mm	5	6	8	8	10	10	10
Overall length	mm	44	49	54	57	57	59	63
<b>8826G</b>	<b>Each</b>	<b>20,20</b>	<b>22,60</b>	<b>28,50</b>	<b>37,00</b>	<b>38,30</b>	<b>56,70</b>	<b>63,10</b>

**Orig. Dürr - Art. 217-62**

Three flutes, HSS ground.  
 For countersinking holes in iron and steel. Vibration-free.  
 120° HEAD TAPER. Morse taper shank.

Countersink max Ø	mm	25	31,5	40	50	63
Countersink min Ø	mm	3,8	4,2	10	14	16
Drive	C.M.	2	2	3	3	4
Overall length	mm	102	107	134	143	170
<b>8828G</b>	Each	<b>70,70</b>	<b>87,90</b>	<b>137,00</b>	<b>181,00</b>	<b>374,00</b>

**Dürr**



**120° HSS**

**8828G**

**COUNTERSINK SETS**

**Orig. Dürr - Art. 299-31**

9pcs sets.  
 Three-flute countersinks. Art. 8810 G. 90° taper.  
 Ø 5 - 6 - 7 - 8 - 10 - 11.5 - 15 - 19 - 23mm.  
 Complete assortment with display.  
 HSS

**8832G** Each **182,00**

**Dürr**



**90° HSS**

**8832G**

9pcs sets.  
 Three-flute countersinks. Art. 8812 G. 90° taper.  
 Ø 5 - 6 - 7 - 8 - 10 - 11.5 - 15 - 19 - 23mm.  
 Complete assortment with display.  
 HSS, TIN coated.

**8833G** Each **338,00**

**Dürr**



**90° HSS TIN**

**8833G**

10pcs sets.  
 Three-flute countersinks. Art. 8810 G. 90° taper.  
 Ø 6.3 - 7.3 - 8.3 - 9.4 - 10.4 - 12.4 - 13.4 - 16.5 - 20.5 - 25mm.  
 Complete assortment with display.  
 HSS

**8834G** Each **210,00**

**Dürr**



**90° HSS**

**8834G**

10pcs sets.  
 Three-flute countersinks. Art. 8812 G. 90° taper.  
 Ø 6.3 - 7.3 - 8.3 - 9.4 - 10.4 - 12.4 - 13.4 - 16.5 - 20.5 - 25mm.  
 Complete assortment with display.  
 HSS, TIN coated.

**8835G** Each **389,00**

**Dürr**



**90° HSS TIN**

**8835G**

6pcs sets.  
 Three-flute countersinks. Art. 8810 G. 90° taper.  
 Ø 6 - 8 - 10 - 11.5 - 15 - 19mm.  
 Assortment in metal case.  
 HSS

**8836G** Each **115,00**

**Dürr**



**90° HSS**

**8836G**

**8837G****Qirt**

6pcs sets.  
 Three-flute countersinks. Art. 8812 G. 90° taper.  
 Ø 6 - 8 - 10 - 11.5 - 15 - 19mm.  
 Assortment in metal case.  
 HSS, TIN coated.

<b>8837G</b>	Each	<b>214,00</b>
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**90°****HSS****TIN****8838G****Qirt**

6pcs sets.  
 Three-flute countersinks. Art. 8810 G. 90° taper.  
 Ø 6.3 - 8.3 - 10.4 - 12.4 - 16.5 - 20.5mm.  
 Assortment in metal case.  
 HSS

<b>8838G</b>	Each	<b>117,00</b>
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**90°****HSS****8839G****Qirt**

6pcs sets.  
 Three-flute countersinks. Art. 8812 G. 90° taper.  
 Ø 6.3 - 8.3 - 10.4 - 12.4 - 16.5 - 20.5mm.  
 Assortment in metal case.  
 HSS, TIN coated.

<b>8839G</b>	Each	<b>215,00</b>
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**90°****HSS****TIN****8840G****Qirt**

7pcs sets.  
 Three-flute countersinks. Art. 8810 G. 90° taper.  
 Ø 6.3 - 8.3 - 10.4 - 12.4 - 16.5 - 20.5 - 25mm.  
 Assortment in metal case.  
 HSS

<b>8840G</b>	Each	<b>160,00</b>
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**90°****HSS****8841G****Qirt**

7pcs sets.  
 Three-flute countersinks. Art. 8812 G. 90° taper.  
 Ø 6.3 - 8.3 - 10.4 - 12.4 - 16.5 - 20.5 - 25mm.  
 Assortment in metal case.  
 HSS, TIN coated.

<b>8841G</b>	Each	<b>293,00</b>
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**90°****HSS****TIN**



17pcs sets.  
Three-flute countersinks. Art. 8810 G. 90° taper.  
Ø 4.3 - 5 - 6 - 6.3 - 7 - 8 - 8.3 - 10 - 10.4 - 11.5 - 12.4 - 15 - 16.5 -19 - 20.5 - 23 – 25mm.  
Assortment in metal case.  
HSS

**8843G** Each **354,00**



**8843G**

90° HSS

**Orig. Vökel - Art. 67300**

6pcs sets.  
Three-flute countersinks. Art. 8819 G. 90° taper.  
Ø 6.3 - 8.3 - 10.4 - 12.4 - 16.5 - 20.5mm  
Assortment in plastic case.  
HSS

**8844G** Each **81,30**



**8844G**

90° HSS

**Prod. SCU**

Assortment of 6 pieces.  
Cutter with 3 blades. Art. 8819 GE. 90° CONICITY.CRØ mm: 6,3 - 8,3 - 10,4 - 12,4 - 16,5 - 20,5.  
Assortment in an unbreakable ABS box, complete with handle and grease.  
In steel SUPER-FAST HSS.

**8845G** Each **159,00**

Available on request the same assortment of steel milling cutters in HSS TIN coated Art. 8819 GF.



**8845G**  
*new*

90° HSS

**COUNTERSINKS**

**Orig. Dürr - Art. 216-11**

Single flute, ground.  
COBALT HSS-E.  
For countersinking holes in iron and steel.  
60° HEAD TAPER. Cylindrical shank.

Countersink max Ø	mm	5	10	15	20	30	40	50
Drive Ø	mm	5	10	10	10	12	15	15
For bores Ø	mm	1-5	1-10	2-15	2-20	3-30	3-40	3-50
Overall length	mm	50	60	65	73	82	92	100
<b>8848G</b>	<b>Each</b>	<b>16,30</b>	<b>18,60</b>	<b>24,30</b>	<b>32,80</b>	<b>65,90</b>	<b>116,00</b>	<b>180,00</b>

**8848G**



60° HSS-E

**Orig. Dürr - Art. 217-11**

Single flute, ground.  
COBALT HSS-E.  
For countersinking holes in iron and steel.  
90° HEAD TAPER. Cylindrical shank.

Countersink max Ø	mm	5	10	15	20	25	30	040	40
Drive Ø	mm	5	10	10	10	10	12	12	15
For bores Ø	mm	1-5	1-10	2-15	2-20	2-25	3-30	3-40	3-40
Overall length	mm	50	60	65	73	80	82	92	92
<b>8852G</b>	<b>Each</b>	<b>13,90</b>	<b>16,30</b>	<b>22,40</b>	<b>32,10</b>	<b>48,70</b>	<b>60,10</b>	<b>95,10</b>	<b>95,10</b>

Countersink max Ø	mm	050	50
Drive Ø	mm	12	15
For bores Ø	mm	3-50	3-50
Overall length	mm	100	100
<b>8852G</b>	<b>Each</b>	<b>154,00</b>	<b>154,00</b>

**8852G**



90° HSS-E

**8854G****90° HSS-E****Orig. Dürr - Art. 217-41**

Single flute, ground.

COBALT HSS-E.

For countersinking holes in iron and steel.

60° HEAD TAPER. Morse taper shank.

Countersink max Ø	mm	30	40	50
Drive	C.M.	2	3	3
For bores Ø	mm	3-30	3-40	3-50
Overall length	mm	114	150	152
<b>8854G</b>	<b>Each</b>	<b>105,00</b>	<b>160,00</b>	<b>253,00</b>

**COUNTERSINKS WITH INTERCHANGEABLE TOOL BITS****8856G****90° HARTMETALL TIN****Orig. Dürr - Art. 217-00**

2 flutes, with HARDMETAL interchangeable tool bits, TIN-coating for high-quality performance and time saving, no need for resharpening. Particularly suitable for use with CNC. For countersinking high-resistance steel.

90° HEAD TAPER - DIN 74 shape A fine. Cylindrical shank with clamping flat DIN 1835B.

Supplied without tool bits.

Countersink max Ø	mm	19	23	26	30	34	37
Countersink min Ø	mm	7	11	11	12	16	19
Cylindrical drive Ø	mm	16	16	16	20	20	20
Overall length	mm	100	100	100	100	100	100
To countersink	M.	10	12	14	16	18	20
<b>8856G</b>	<b>Each</b>	<b>289,00</b>	<b>297,00</b>	<b>308,00</b>	<b>321,00</b>	<b>331,00</b>	<b>334,00</b>

Interchangeable tool bits for Art. 8856 G x 19 - 23.

<b>O8856GA</b>	<b>Each</b>	<b>52,50</b>
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Interchangeable tool bits for Art. 8856 G x 26.

<b>O8856GB</b>	<b>Each</b>	<b>55,20</b>
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Interchangeable tool bits for Art. 8856 G x 30-34-37.

<b>O8856GC</b>	<b>Each</b>	<b>63,10</b>
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Spare screws TORX T 8 (M 2.6x5) for Art. 8856 G x 19-23-26.

<b>O8856GF</b>	<b>Each</b>	<b>5,78</b>
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Spare screws TORX T 10 (M 3.5x6) for Art. 8856 G x 30-34-37.

<b>O8856GL</b>	<b>Each</b>	<b>5,78</b>
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**COUNTERSINKS****8858G****60° HSS****Orig. Dürr - Art. 216-21**

Multiple flutes, HSS ground.

For countersinking holes in cast iron.

Not equally spaced flutes for better finishing.

60° HEAD TAPER -DIN 334. Cylindrical shank.

Countersink max Ø	mm	6	8	10	12,5	16	20	25	31,5
Countersink min Ø	mm	1	1,5	1,8	2	3,2	5	7	9
Drive Ø	mm	6	8	8	8	10	10	12	16
Cutting edges	No	3	5	5	5	7	7	9	9
Overall length	mm	50	50	50	50	60	63	75	90
<b>8858G</b>	<b>Each</b>	<b>18,20</b>	<b>18,20</b>	<b>28,50</b>	<b>30,60</b>	<b>41,10</b>	<b>49,60</b>	<b>68,70</b>	<b>75,10</b>

**8860G****60° HSS****Orig. Dürr - Art. 216-51**

Multiple flutes, HSS ground.

For countersinking holes in cast iron.

Not equally spaced flutes for better finishing.

60° HEAD TAPER -DIN 334. Morse taper shank.

Countersink max Ø	mm	16	25	31,5	40	50	63	80
Countersink min Ø	mm	3,2	7	9	12	16	20	25
Drive	C.M.	1	2	2	3	3	4	4
Cutting edges	No	7	9	9	11	13	15	17
Overall length	mm	100	125	132	160	170	200	215
<b>8860G</b>	<b>Each</b>	<b>58,60</b>	<b>104,00</b>	<b>130,00</b>	<b>197,00</b>	<b>297,00</b>	<b>480,00</b>	<b>990,00</b>

Size mm16 running out of stock.

**8862G****90° HSS****Orig. Dürr - Art. 217-21**

Multiple flutes, HSS ground.

For countersinking holes in cast iron.

Not equally spaced flutes for better finishing.

90° HEAD TAPER -DIN 335. Cylindrical shank.

Countersink max Ø	mm	6	8	10	12,5	16	20	25	31,5
Countersink min Ø	mm	1	1,5	1,8	2	3,2	5	7	9
Drive Ø	mm	6	8	8	8	10	10	12	16
Cutting edges	No	3	5	5	5	7	7	9	9
Overall length	mm	48	48	48	48	56	60	70	80
<b>8862G</b>	<b>Each</b>	<b>13,60</b>	<b>13,60</b>	<b>20,40</b>	<b>24,40</b>	<b>33,90</b>	<b>41,10</b>	<b>56,40</b>	<b>73,90</b>

**Orig. Dürr - Art. 217-51**

Multiple flutes, HSS ground.  
For countersinking holes in cast iron.  
Not equally spaced flutes for better finishing.  
90° HEAD TAPER -DIN 335. Morse taper shank.

Countersink max Ø	mm	20	25	31,5	40	50	63	80
Countersink min Ø	mm	5	7	9	12	16	20	25
Drive	C.M.	2	2	2	3	3	4	4
Cutting edges	No	7	9	9	11	13	15	17
Overall length	mm	115	118	122	150	155	185	196
<b>8864G</b>	Each	62,10	86,20	105,00	162,00	234,00	367,00	659,00

Size mm 20 running out of stock.



**8864G**

**COUNTERSINKS AND DEBURRING TOOLS**

**Orig. Dürr - Art. 216-11**

COBALT HSS-E.  
For countersinking and finishing holes in iron and steel. Vibration-free.  
60° HEAD TAPER. Cylindrical shank.

Countersink max Ø	mm	10	14	21	28	35
Drive Ø	mm	6	6	10	12	15
For bores Ø	mm	2-5	5-10	10-15	15-20	20-25
Overall length	mm	50	63	80	100	125
<b>8870G</b>	Each	32,50	38,90	71,80	115,00	156,00



**8870G**

**Orig. Dürr - Art. 217-11**

For countersinking and finishing holes in iron, steel, aluminium and thermo-plastic. Vibration-free.  
90° HEAD TAPER. Cylindrical shank.  
IN COBALT HSS-E.

Countersink max Ø	mm	6,35	10	14	21	28	35
Drive Ø	mm	6,35	6	6	10	12	15
For bores Ø	mm	1-4	2-5	5-10	10-15	15-20	20-25
Overall length	mm	45	45	56	67	90	106
<b>8874G</b>	Each	20,70	13,70	18,80	29,30	67,40	98,50

Bi-frontal type 6.35mm only.



**8874G**

Product description as Art. 8874G

In COBALT HSS-E, TIN coated.

Countersink max Ø	mm	6,35	10	14	21	28	35
Drive Ø	mm	6,35	6	6	10	12	15
For bores Ø	mm	1-4	2-5	5-10	10-15	15-20	20-25
Overall length	mm	45	45	56	67	90	106
<b>8876G</b>	Each	43,30	27,10	35,40	59,10	104,00	173,00

Bi-frontal type 6.35mm only.



**8876G**

For countersinking and finishing holes in iron, steel, aluminium and thermo-plastic materials. Vibration-free.

90° HEAD TAPER. Long and very long cylindrical shank.

COBALT HSS-E.

Type		10	10L	14	14L	21	21L
Countersink max Ø	mm	10	10	14	14	21	21
Drive Ø	mm	6	6	6	6	10	10
For bores Ø	mm	2-5	2-5	5-10	5-10	10-15	10-15
Overall length	mm	76	136	86	146	96	156
<b>8877G</b>	Each	41,10	55,20	50,40	69,30	92,90	128,00



**8877G**

**ASSORTMENTS OF COUNTERSINKS AND DEBURRING TOOLS**

**Orig. Dürr - Art. 299-11**

4pcs sets.  
Countersinks-Deburring tools Art. 8874 G. 90° Taper.  
4pcs 10-14-21-28mm.CRAssortment in metal case.  
IN COBALT HSS-E.

<b>8878G</b>	Each	146,00
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**8878G**

**8879G****Dürr****Orig. Dürr - Art. 299 - 11**

4pcs sets.

Countersinks-Deburring tools Art. 8876 G. 90° Taper.

4pcs 10-14-21-28mm.

Assortment in metal case.

In COBALT HSS-E, TIN coated.

<b>8879G</b>	Each	<b>253,00</b>
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**90° HSS-E TIN****COUNTERSINKS AND DEBURRING TOOLS****8880G****Dürr****90° HSS-E****Orig. Dürr - Art. 217-41**

For countersinking and finishing holes in iron, steel, aluminium and thermo-plastic. Vibration-free. 90° HEAD TAPER. Morse taper shank.

IN COBALT HSS-E.

Countersink max Ø	mm	<b>10</b>	<b>21</b>	<b>28</b>
Drive	C.M.	1	2	2
For bores Ø	mm	2-5	10-15	15-20
Overall length	mm	90	120	130
<b>8880G</b>	Each	<b>60,50</b>	<b>110,00</b>	<b>129,00</b>

Product running out of stock.

**8881G****Dürr****120° HSS-E****Orig. Dürr - Art. 217-11**

For countersinking and finishing holes in iron, steel, aluminium and thermo-plastic materials. Vibration-free.

120° HEAD TAPER. Cylindrical shank.

COBALT HSS-E.

Countersink max Ø	mm	<b>10</b>	<b>14</b>	<b>21</b>
Drive Ø	mm	6	6	10
For bores Ø	mm	2-5	5-10	10-15
Overall length	mm	45	54	63
<b>8881G</b>	Each	<b>28,40</b>	<b>36,30</b>	<b>64,60</b>

**COUNTERSINKS AND DEBURRING TOOLS FOR PIPES****8882GA****Dürr****90° HSS****Orig. Dürr - Art. 115**

For countersinking and deburring, both internally and externally, iron and steel pipes. If the central countersink is removed it is also possible to deburr bars.

90° TAPER. Made from HSS steel.

Cylindrical drive.

External max Ø	mm	<b>16</b>	<b>18</b>	<b>24</b>	<b>32</b>
Pipes int Ø	mm	2-4	2,6-7,8	3,6-12,8	4,6-24
Pipes ext Ø	mm	6-12	7-14	9-20	16-27
Drive Ø	mm	12,5	12,5	16	16
Overall length	mm	58	65	75	85
<b>8882GA</b>	Each	<b>109,00</b>	<b>115,00</b>	<b>131,00</b>	<b>267,00</b>

**8882GB****Dürr****90° HSS**

Product description as Art. 8882GA

Clamp Collet drive.

External max Ø	mm	<b>50</b>	<b>66</b>	<b>82</b>	<b>98</b>
Pipes int Ø	mm	20-39	36-55	52-71	68-87
Pipes ext Ø	mm	25-44	41-60	57-76	73-92
Drive	C.M.	2	3	4	4
Overall length	mm	155	180	205	210
<b>8882GB</b>	Each	<b>621,00</b>	<b>863,00</b>	<b>1.320,00</b>	<b>1.640,00</b>

**CONIC COUNTERSINKS FOR PLATES**

**Orig. Dürr - Art. 124-11**

Two flutes, ground.  
For creating and enlarging holes in steel plate.  
20° Taper. Cylindrical shank.

HSS

Size		0	1	2	3	4	5
For bores Ø	mm	3-14	8-20	16-30,5	26-40	36-50	46-60
Drive Ø	mm	6	8	9	9	9	13
Drive length	mm	25	25	25	30	30	30
Overall length	mm	58	66	77	90	87	97
<b>8884G</b>	<b>Each</b>	<b>33,60</b>	<b>42,60</b>	<b>67,10</b>	<b>147,00</b>	<b>191,00</b>	<b>285,00</b>

*Dürr*

**8884G**



20°

HSS

Product description as Art. 8884G

HSS, TIN coated.

Size		0	1	2	3	4	5
For bores Ø	mm	3-14	8-20	16-30,5	26-40	36-50	46-60
Drive Ø	mm	6	8	9	9	9	13
Drive length	mm	25	25	25	30	30	30
Overall length	mm	58	66	77	90	87	97
<b>8885G</b>	<b>Each</b>	<b>53,30</b>	<b>70,60</b>	<b>124,00</b>	<b>240,00</b>	<b>315,00</b>	<b>482,00</b>

*Dürr*

**8885G**



20°

HSS

TIN

Two flutes, ground.

For creating and enlarging holes in steel plate.  
20° Taper. Cylindrical shank.

Long pattern.

HSS

For bores Ø	mm	4-30,5
Drive Ø	mm	10
Drive length	mm	25
Overall length	mm	90
<b>8886G</b>	<b>Each</b>	<b>98,20</b>

*Dürr*

**8886G**



20°

HSS

Product description as Art. 8886G

HSS, TIN coated.

For bores Ø	mm	4-30,5
Drive Ø	mm	10
Drive length	mm	25
Overall length	mm	90
<b>8887G</b>	<b>Each</b>	<b>176,00</b>

*Dürr*

**8887G**



20°

HSS

TIN

**ASSORTMENTS OF CONIC COUNTERSINKS FOR PLATES**

**Orig. Dürr - Art. 199-11**

3pcs sets.  
Two-flute mills. Art. 8884 G. 20° Taper.  
3pcs Size 0-1-2.  
Assortment in metal case.

HSS

<b>8890G</b>	<b>Each</b>	<b>144,00</b>
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*Dürr*

**8890G**



20°

HSS

3pcs sets.  
Two-flute mills. Art. 8885 G. 20° Taper.  
3pcs Size 0-1-2.  
Assortment in metal case.

<b>8891G</b>	<b>Each</b>	<b>248,00</b>
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*Dürr*

**8891G**



20°

HSS

TIN

## DRILL PASTE

8891GT

SCU



Prod. SCU

Necessary to obtain the maximum performance during countersinking and reaming. In 18g stick.

8891GT Each 7,22

## COUNTERSINKS WITH EXAGONAL SHANK 1/4

8891GV

SCU



HSS

1/4"

Prod. SCU

9 steps and ground flutes.

For creating and enlarging holes in steel plate for thicknesses up to 5mm.

1/4 - C6.3 hex drive to be used with screwdrivers, screws, drills, etc.

In HSS steel.

Steps Ø 4 5 6 7 8 9 10 11 12

Overall length 90

8891GV Each 47,60

8891GZ

SCU



HSS

1/4"

Product description as Art. 8891GV

In HSS steel.

Steps Ø 4 6 8 10 12 14 16 18 20

Overall length 90

8891GZ Each 60,00

8892A

SCU



HSS

1/4"

13 steps and ground flutes.

For creating and enlarging holes in steel plate for thicknesses up to 5mm.

1/4 - C6.3 hex drive to be used with screwdrivers, screws, drills, etc.

In HSS steel.

Steps Ø 6 8 10 12 14 16 18 20 22 24 26 28 30

Overall length 110

8892A Each 89,90

## STEPPED CUTTERS FOR PLATES

8892G

Dürr



HSS

Orig. Dürr - Art. 981-15

9 steps, 2 ground flutes.

For creating and enlarging holes in steel plate for thicknesses up to 5mm.

Cylindrical shank.

HSS

Steps Ø mm 4 5 6 7 8 9 10 11 12

Steps thickness mm 5

Drive Ø mm 6

Overall length mm 79

8892G Each 58,60

8893G

Dürr



HSS

TIN

Product description as Art. 8892G

HSS, TIN coated.

Steps Ø mm 4 5 6 7 8 9 10 11 12

Steps thickness mm 5

Drive Ø mm 6

Overall length mm 79

8893G Each 81,60

8894G

Dürr



HSS

8 steps, 2 ground flutes.

For creating and enlarging holes in steel plate with thickness up to 4.5mm.

Cylindrical shank.

HSS

Steps Ø mm 6 8 10 12 14 16 18 20

Steps thickness mm 4,5

Drive Ø mm 9

Overall length mm 71

8894G Each 67,70

Product description as Art. 8894G

HSS, TIN coated.

Steps Ø	mm	6 8 10 12 14 16 18 20
Steps thickness	mm	4,5
Drive Ø	mm	9
Overall length	mm	71

<b>8894GT</b>	Each	<b>108,00</b>
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13 steps, 2 ground flutes.

For creating and enlarging holes in steel plate with thickness up to 4mm.

Cylindrical shank.

HSS

Steps Ø	mm	6 8 10 12 14 16 18 20 22 24 26 28 30
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Steps thickness	mm	4
Drive Ø	mm	10
Overall length	mm	100

<b>8895G</b>	Each	<b>118,00</b>
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Product description as Art. 8895G

HSS, TIN coated.

Steps Ø	mm	6 8 10 12 14 16 18 20 22 24 26 28 30
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Steps thickness	mm	4
Drive Ø	mm	10
Overall length	mm	100

<b>8895GT</b>	Each	<b>189,00</b>
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10 steps.

For creating and enlarging holes in steel plate with thickness up to 4mm.

Interchangeable pilot bit Ø 7mm.

Cylindrical shank.

HSS

Steps Ø	mm	9 12 15 18 21 24 27 30 33 36
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Steps thickness	mm	4
Drive Ø	mm	12
Overall length	mm	85

<b>8896G</b>	Each	<b>194,00</b>
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Spare HSS pilot bit for Art. 8896 G – 8909 G – 8910 G – 8910 GP – 8910 GR.

<b>O8896G</b>	Each	<b>43,50</b>
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Product description as Art. 8896G

HSS, TIN coated.

Steps Ø	mm	9 12 15 18 21 24 27 30 33 36
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Steps thickness	mm	4
Drive Ø	mm	12
Overall length	mm	85

<b>8898G</b>	Each	<b>285,00</b>
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Spare HSS+TIN pilot bit for Art. 8898 G - 8910 GRE - 8910 GRL.

<b>O8898G</b>	Each	<b>52,90</b>
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12 steps.

For creating and enlarging holes in steel plate with thickness up to 4mm.

Interchangeable pilot bit Ø 7mm.

Cylindrical shank.

HSS

Steps Ø	mm	25 28 31 34 37 40 43 46 49 52 55 58
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Steps thickness	mm	4
Drive Ø	mm	12
Overall length	mm	85

<b>8900G</b>	Each	<b>348,00</b>
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Spare HSS pilot bit for Art. 8900 G.

<b>O8900G</b>	Each	<b>43,50</b>
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8902G



HSS TIN

12 steps.  
For creating and enlarging holes in steel plate with thickness up to 4mm.  
Interchangeable pilot bit Ø 7mm.  
Cylindrical shank.  
HSS, TIN coated.

Steps Ø	mm	25 28 31 34 37 40
		43 46 49 52 55 58
Steps thickness	mm	4
Drive Ø	mm	12
Overall length	mm	85
<b>8902G</b>	<b>Each</b>	<b>514,00</b>

Spare HSS+TIN pilot bit for Art. 8902 G.		
<b>O8902G</b>	<b>Each</b>	<b>52,90</b>

8909G  
8910G



HSS

**Orig. Dürer**  
6-7 steps, particularly suitable for plumbers and electricians.  
For drilling steel plate up to 6mm (Art. 8909 G) and up to 4mm (Art. 8910 G).  
HSS. Cylindrical shank.  
Interchangeable pilot bit Ø 7mm.

Art.	8909G	8910G
Steps Ø	mm 11,4 14 17,25 19	12,5 15,2 18,6 20,4
	21,25 26,75	22,5 28,3 30,5
Steps thickness	mm 6	4
Drive Ø	mm 12	12
Overall length	mm 92	85
Supplier code	981-15	981-15
<b>Each</b>	<b>177,00</b>	<b>169,00</b>

For spare pilot bit for Art. 8909 G – 8910 G see Art. O8896 G.

**COUNTERSINKS WITH EXAGONAL SHANK 1/4**

8910GA  
*new*  
8910GB  
*new*  
8910GC  
*new*

SCU



HSS 1/4"

**Prod. SCU**  
The helical shape of the discharge improves drilling, reduces torque value, increases tool life, eliminates vibrations and is also suitable for use with portable drills.  
Hexagonal 1/4 - E 6.3 for use with screwdrivers, wrenches, drills, etc.  
In steel SUPER-FAST HSS.

Art.	8910GA	8910GB	8910GC
Steps Ø	mm 4-5-6-7-8-9-10-11-12	4-6-8-10-12-14-16-18-20	4-6-8-10-12-14-16-18-20-22-24-26-28-30
Steps thickness	mm 4,5	5	4,5
Overall length	mm 70	80	110
<b>Each</b>	<b>32,80</b>	<b>37,90</b>	<b>62,30</b>

**HELICAL STEPPED CUTTERS FOR PLATES**

8910GE  
8910GF  
8910GH  
8910GL



HSS

**Orig. Dürer**  
The helical shape of the discharge improves drilling, reduces the turning moment, increases tool life, eliminates vibrations and is also suitable for use with portable drills.  
HSS with nitrited surface. Cylindrical shank.

Art.	8910GE	8910GF	8910GH	8910GL
Steps Ø	mm 4 5 6 7 8 9 10	6 8 10 12 14 16	5 7 9 11 13 15	6 8 10 12 14 16 18
	11 12	18 20	17 19	20 22 24 26 28 30
Steps thickness	mm 5	4,5	4,5	4
Drive Ø	mm 6	9	9	10
Overall length	mm 79	71	71	100
Supplier code	981-25	981-25	981-25	981-25
<b>Each</b>	<b>63,80</b>	<b>73,70</b>	<b>77,80</b>	<b>128,00</b>

8910GMA  
8910GME  
8910GML  
8910GMP



HSS TIN

Product description as Art. 8910GE  
HSS with TIN coating. Cylindrical shank.

Art.	8910GMA	8910GME	8910GML	8910GMP
Steps Ø	mm 4 5 6 7 8 9 10	6 8 10 12 14 16	5 7 9 11 13 15	6 8 10 12 14 16 18
	11 12	18 20	17 19	20 22 24 26 28 30
Steps thickness	mm 5	4,5	4,5	4
Drive Ø	mm 6	9	9	10
Overall length	mm 79	71	71	100
Supplier code	981-25	981-25	981-25	981-25
<b>Each</b>	<b>86,80</b>	<b>114,00</b>	<b>118,00</b>	<b>199,00</b>



Product description as Art. 8910GE

HSS with nitrited surface. Cylindrical shank. Interchangeable pilot drill Ø mm 7.

Art.	8910GP										8910GR												
Steps Ø	mm	9	12	15	18	21	24	27	30	33	36	10,5	12,5	14,5	16,5	18,5	20,5	23,5	25,5	30,5	32,5	38,5	40,5
Steps thickness	mm	4										4											
Drive Ø	mm	12										12											
Overall length	mm	85										110											
Supplier code		981-25										981-25											
<b>Each</b>		<b>210,00</b>										<b>221,00</b>											


**8910GP**  
**8910GR**

**HSS**

For spare pilot bit for Art. 8910 GP – 8910 GR see Art. O8896 G.

Product description as Art. 8910GE

HSS with TIN coating. Cylindrical shank.

Art.	8910GRE										8910GRL												
Steps Ø	mm	9	12	15	18	21	24	27	30	33	36	10,5	12,5	14,5	16,5	18,5	20,5	23,5	25,5	30,5	32,5	38,5	40,5
Steps thickness	mm	4										4											
Drive Ø	mm	12										12											
Overall length	mm	85										110											
Supplier code		981-25										981-25											
<b>Each</b>		<b>301,00</b>										<b>331,00</b>											


**8910GRE**  
**8910GRL**

**HSS TIN**

For spare pilot bit for Art. 8910 GRE - 8910 GRL see Art. O8898 G..

**ASSORTMENTS OF STEPPED CUTTERS**
**Orig. Dürr - Art. 919-11**

3pcs set.

Stepped cutters Art. 8892 G – 8894 G – 8895 G

Assortment in metal case.

<b>8910GS</b>	<b>Each</b>	<b>245,00</b>
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**8910GS**

**HSS**
**Orig. Dürr - Art. 919-21**

3pcs set.

Helical stepped cutters Art. 8910 GE – 8910 GF – 8910 GL

Assortment in metal case.

<b>8910GT</b>	<b>Each</b>	<b>266,00</b>
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**8910GT**

**HSS**

**DISPLAY UNITS FOR MILLS AND COUNTERSINKS**
**8911G****Dürr****Orig. Dürr**

54 Mills and 14 Countersinks on steady, practical and elegant plexiglas display indicating the items contained for easy choice.

Keyed locking. Dimensions mm 410x310x155 h.

The set contains:

2 Mills Art. 8810 G x 6.3  
 5 Mills Art. 8810 G x 10.4  
 6 Mills Art. 8810 G x 12.4  
 8 Mills Art. 8810 G x 16.5  
 8 Mills Art. 8810 G x 20.5  
 3 Mills Art. 8810 G x 25  
 5 Mills Art. 8896 G  
 4 Countersinks Art. 8874 G x 10  
 5 Countersinks Art. 8874 G x 14  
 3 Countersinks Art. 8874 G x 21  
 2 Countersinks Art. 8874 G x 28  
 2 Mills Art. 8884 G x 0  
 4 Mills Art. 8884 G x 1  
 4 Mills Art. 8884 G x 2  
 2 Mills Art. 8884 G x 3  
 5 Mills Art. 8886 G  
 Complete display.

**8911G** Each **3.413,90**

**DEBURRING TOOLS**
**8912GA****SCU****Prod. SCU**

STORAGE HANDLES for blade holder Art. 8912 GB-H-S-V-8913 GE and deburring blades. In plastic material with locking nut. Possibility to adjust the blade holder in any position until release 100mm.

Without blade holder and blades.

**8912GA** Each **12,10**

**8912GB****SCU**

BLADE HOLDER for blades Art.8912 GC-D-E-F.

**8912GB** Each **10,60**

**8912GC****SCU****HSS**

BLADES, SMALL SERIES, HSS (Ø 2.5mm)

Universal type for internal and external deburring.

**8912GC** Each **2,54**

**8912GD****SCU****HSS**

Product description as Art. 8912GC

For brass and cast iron, for deburring in both directions.

**8912GD** Each **2,54**

**8912GE****SCU****HSS**

Product description as Art. 8912GC

For thin materials, for internal and external deburring.

**8912GE** Each **2,90**

**8912GF****SCU****HSS**

Product description as Art. 8912GC

Universal type for rear deburring.

**8912GF** Each **7,14**

**8912GH****SCU**

BLADE HOLDER for blades Art.8912 GL-M-P-R.

**8912GH** Each **10,60**

**8912GL****SCU****HSS**

BLADES, BIG SERIES, HSS (Ø 3.2mm)

For steel and aluminium.

**8912GL** Each **2,62**

Product description as Art. 8912GL  
For brass and cast iron.

**8912GM** Each **2,62**



Product description as Art. 8912GL  
Universal type for deburring both sides.

**8912GP** Each **3,08**



Product description as Art. 8912GL  
Universal type for rear deburring.

**8912GR** Each **7,28**



BLADE HOLDER for blades Art.8912 GT.

**8912GS** Each **10,60**



HSS steel blades, triangular scraper type 8x30mm.

**8912GT** Each **19,60**



BLADE HOLDER for blades Art.8912 GZ- 8912GZ/3.

**8912GV** Each **10,60**



HARD METAL BLADES, tipped type, for deburring steel plate with thickness up to 3mm.

**8912GZ** Each **18,60**



HARD METAL BLADES, tipped type, for deburring steel plate with thickness up to 8mm.

**8912GZ 3** Each **33,40**



BLADE HOLDER for blades Art.8913 GH-L.

**8913GE** Each **10,60**



HSS steel blades, for countersinking up to 20mm

**8913GH** Each **40,20**



HSS steel blades, for countersinking up to 30mm

**8913GL** Each **64,50**



DEBURRING TOOLS WITH INTERCHANGEABLE BLADES

With small, handy metal handgrip.  
With rotating blade suitable for different models.  
To be used with blades Art. 8912 GL-M-P-R.  
With 1 blade Art. 8912 GL.

**8914GA** Each **11,90**





**8914GB** **SCU**

DEBURRING TOOLS WITH INTERCHANGEABLE BLADES  
 With synthetic material handgrip, in stock, dimensioned for strong clamping. With 3 rotating blades suitable for different models.  
 With 3 blades Art. 8912 GL - M - 8914 GB 3.

**8914GB** Each **30,20**

For spare blades for steel, aluminum, brass and cast iron see Art. 8912 GL - GM.



**8914GB 3** **SCU**

Spare HSS blades for grooves. For Art. 8914 GB.

**8914GB 3** Each **2,62**



**8914GE** **SCU**

DEBURRING TOOLS FOR PLATES  
 With double wheel blade in HARD METAL, interchangeable.  
 Plastic handgrip with safety hand protection.  
 For simultaneous deburring of both edges of steel, aluminium, brass, copper and plastic plates with thickness up to 10mm.

**8914GE** Each **56,70**

Product running out of stock.



**8914GL** **SCU**

DEBURRING TOOLS FOR PLATES  
 With double round blade, HSS, interchangeable and usable on both cutting sides.  
 Plastic handgrip with metal hand protection.  
 For simultaneous deburring of both edges of steel, aluminium, brass, copper and plastic plates with thickness up to 10mm.

**8914GL** Each **35,90**

Spare blade for Art. 8914 GL.

**O8914GL** Each **7,28**



**8914GP** **SCU**

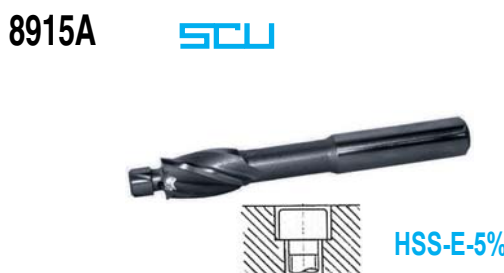
SLOT DEBURRING TOOLS.  
 HSS blade, interchangeable.  
 Plastic handgrip.  
 For deburring both internal and external slots.

**8914GP** Each **39,40**

Spare blade for Art. 8914 GP.

**O8914GP** Each **9,06**

**COUNTERBORES FOR TAPERED-HEAD SCREW SEATS (PASSING-THROUGH SCREWS)**



**8915A** **SCU**

**Prod. SCU**  
 HSS-E COBALT 5% - DIN 373.  
 For creating the seat to the tapered head of internal hexagonal passing-through screws.  
 For iron and high-resistance steel.  
 Cylindrical shank. FINE tolerance.

For screws	M.	3	4	5	6	8	10	12	14
Cutting edges Ø	mm	5,9	7,4	8,9	10,4	13,5	16,5	19	22
Guide Ø	mm	3,2	4,3	5,3	6,4	8,4	10,5	13	15
Drive Ø	mm	6	6	8	8	12	12	12	16
Overall length	mm	71	71	80	80	100	100	100	130
<b>8915A</b>	Each	<b>26,60</b>	<b>27,70</b>	<b>30,60</b>	<b>32,30</b>	<b>38,10</b>	<b>45,70</b>	<b>57,20</b>	<b>74,20</b>



**8915G** **Dürer**

**Orig. Dürer - Art. 211-21**  
 HSS - DIN 373.  
 For creating the seat to the tapered head of internal hexagonal passing-through screws.  
 For iron and high-resistance steel.  
 Cylindrical shank. FINE tolerance.

For screws	M.	3	4	5	6	8	10	12
Cutting edges Ø	mm	6	8	10	11	15	18	20
Guide Ø	mm	3,2	4,3	5,3	6,4	8,4	10,5	13
Drive Ø	mm	5	5	8	8	12,5	12,5	12,5
Overall length	mm	71	71	80	80	100	100	100
<b>8915G</b>	Each	<b>20,80</b>	<b>18,60</b>	<b>20,20</b>	<b>21,50</b>	<b>35,10</b>	<b>42,10</b>	<b>45,20</b>

HSS – DIN 373.

For creating the seat to the tapered head of internal hexagonal passing-through screws.

For iron and high-resistance steel.

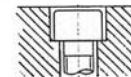
Cylindrical shank. MEDIUM tolerance.

Type	mm	3	4	4L	4XL	5	5L	5XL	6
For screws	M.	3	4	4	4	5	5	5	6
Cutting edges Ø	mm	6	8	8	8	10	10	10	11
Guide Ø	mm	3,4	4,5	4,5	4,5	5,5	5,5	5,5	6,6
Drive Ø	mm	5	5	5	5	8	8	8	8
Overall length	mm	71	71	150	200	80	150	200	80
<b>8915GM</b>	<b>Each</b>	<b>20,80</b>	<b>18,60</b>	<b>304,00</b>	<b>322,00</b>	<b>20,20</b>	<b>300,00</b>	<b>323,00</b>	<b>21,50</b>

Type	mm	6XL	8	8XL	10	10XL	12	12XL
For screws	M.	6	8	8	10	10	12	12
Cutting edges Ø	mm	11	15	15	18	18	20	20
Guide Ø	mm	6,6	9	9	11	11	13,5	13,5
Drive Ø	mm	8	12,5	12,5	12,5	12,5	12,5	12,5
Overall length	mm	200	100	200	100	200	100	200
<b>8915GM</b>	<b>Each</b>	<b>325,00</b>	<b>35,10</b>	<b>345,00</b>	<b>42,10</b>	<b>361,00</b>	<b>45,20</b>	<b>399,00</b>



**8915GM**



HSS

**COUNTERBORES FOR TAPERED-HEAD SCREW SEATS (SCREWS TO THREAD)**

Orig. Dürr - Art. 211-21

HSS – DIN 373.

For creating the seat to the tapered head of internal hexagonal screws to thread.

For iron and high-resistance steel.

Cylindrical shank.

For screws	M.	3	4	5	6	8	10	12
Cutting edges Ø	mm	6	8	10	11	15	18	20
Guide Ø	mm	2,5	3,3	4,2	5	6,8	8,5	10,2
Drive Ø	mm	5	5	8	8	12,5	12,5	12,5
Overall length	mm	71	71	80	80	100	100	100
<b>8918G</b>	<b>Each</b>	<b>24,30</b>	<b>23,30</b>	<b>23,50</b>	<b>24,10</b>	<b>37,40</b>	<b>45,40</b>	<b>50,40</b>



**8918G**



HSS

COBALT 10% HSS-E Mills Art. 8915 G - 8915 GM and 8918 G available on request.

**COUNTERBORES FOR TAPERED-HEAD SCREW SEATS (PASSING-THROUGH SCREWS)**

Orig. Dürr - Art. 211-23

In integral HARD METAL (except size 8 with only the head in hard metal). Similar to DIN 373.

For creating the seat to the tapered head of internal hexagonal passing-through screws.

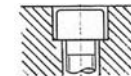
For steel and difficult to chip materials, cast iron, aluminium-silicium alloys and stainless steel.

Cylindrical shank. FINE tolerance.

For screws	M.	3	4	5	6	8	10
Cutting edges Ø	mm	6	8	10	11	15	18
Guide Ø	mm	3,2	4,3	5,3	6,4	8,4	10,5
Drive Ø	mm	5	6	8	8	12,5	12,5
Overall length	mm	71	71	80	80	100	100
<b>8921G</b>	<b>Each</b>	<b>298,00</b>	<b>306,00</b>	<b>323,00</b>	<b>345,00</b>	<b>469,00</b>	<b>622,00</b>



**8921G**



HARTMETALL

Product description as Art. 8921G

Cylindrical shank. MEDIUM tolerance.

For screws	M.	3	4	5	6	8	10
Cutting edges Ø	mm	6	8	10	11	15	18
Guide Ø	mm	3,4	4,5	5,5	6,6	9	11
Drive Ø	mm	5	6	8	8	12,5	12,5
Overall length	mm	71	71	80	80	100	100
<b>8922G</b>	<b>Each</b>	<b>279,00</b>	<b>290,00</b>	<b>304,00</b>	<b>323,00</b>	<b>442,00</b>	<b>581,00</b>



**8922G**



HARTMETALL

**ASSORTMENTS OF COUNTERBORES FOR TAPERED-HEAD SCREW SEATS**

Orig. Dürr - Art. 299-21

Assortment of 6 counterbores Art. 8915 G 3-4-5-6-8-10M.

In metal case.

<b>8924G</b>	<b>Each</b>	<b>158,00</b>
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**8924G**



HSS

**8925G** *Dürr*



**HSS**

Assortment of 6 counterbores Art. 8915 GM 3-4-5-6-8-10M.  
In metal case.

<b>8925G</b>	Each	<b>158,00</b>
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**8926G** *Dürr*



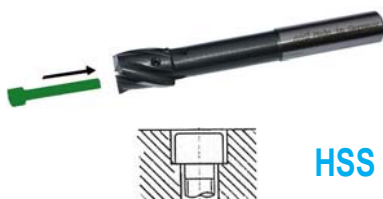
**HSS**

Assortment of 6 counterbores Art. 8918 G 3-4-5-6-8-10M.  
In metal case.

<b>8926G</b>	Each	<b>178,00</b>
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**MILLS FOR SCREW SEATS WITH INTERCHANGEABLE GUIDES**

**8927GA** *Dürr*



**HSS**

Orig. Dürr - Art. 214-21

HSS.

For creating the seat of the cylindrical head of through screws or screws to thread according to DIN. With front hole and lock screw for the different guides. With one mill only, by replacing the interchangeable guides, it is possible to countersink holes of different diameters.  
For iron, high-resistance steel, aluminium, cast iron, etc.

Cylindrical shank.

SUPPLIED WITHOUT GUIDES (For guides see Art. 8927 GB).

For screws	M.	<b>6</b>	<b>8</b>
Mill cutting edges Ø	mm	11	15
Ø bore conn. guide	mm	3,6	4
Drive Ø	mm	10	12
Overall length without guide	mm	90	100

<b>8927GA</b>	Each	<b>73,10</b>	<b>83,40</b>
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Product running out of stock.

**8927GB** *Dürr*



**HSS**

Orig. Dürr

Interchangeable guides DIN 373 for mills Art. 8927 GA.

HSS.

Ø screw x Ø guide	M x mm	<b>4x4,3</b>	<b>4x4,5</b>	<b>5x4,2</b>	<b>5x5,3</b>
Guide Ø drive	mm	2,5	2,5	3,6	3,6
For mills Art.		8927GA 4	8927GA 4	8927GA 5-6	8927GA 5-6
<b>8927GB</b>	Each	<b>24,50</b>	<b>24,50</b>	<b>24,50</b>	<b>24,40</b>
Ø screw x Ø guide	M x mm	<b>5x5,5</b>	<b>6x5</b>	<b>6x6,4</b>	<b>6x6,6</b>
Guide Ø drive	mm	3,6	3,6	3,6	3,6
For mills Art.		8927GA 5-6	8927GA 5-6	8927GA 5-6	8927GA 5-6
<b>8927GB</b>	Each	<b>24,40</b>	<b>24,50</b>	<b>24,40</b>	<b>24,50</b>

Product running out of stock.

**COUNTERBORES FOR TAPERED-HEAD SCREW SEATS (PASSING-THROUGH SCREWS)**

**8928G** *Dürr*



**HSS**

Orig. Dürr - Art. 211-51

HSS.

For creating the seat to the tapered head of internal hexagonal passing-through screws.

For iron and high-resistance steel.

Morse taper shank. FINE tolerance.

For screws	M.	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>18</b>	<b>20</b>	<b>22</b>	<b>24</b>
Cutting edges Ø	mm	18	20	24	26	30	33	36	40
Guide Ø	mm	10,5	13	15	17	19	21	23	25
Overall length	mm	150	150	160	190	190	190	205	205
Drive	C.M.	2	2	2	3	3	3	3	3
<b>8928G</b>	Each	<b>58,50</b>	<b>61,80</b>	<b>73,10</b>	<b>82,40</b>	<b>96,20</b>	<b>114,00</b>	<b>154,00</b>	<b>162,00</b>

HSS.

For creating the seat to the tapered head of internal hexagonal passing-through screws.

For iron and high-resistance steel.

Morse taper shank. MEDIUM tolerance.

For screws	M.	10	12	14	16	18	20	22	24
Cutting edges Ø	mm	18	20	24	26	30	33	36	40
Guide Ø	mm	11	13,5	15,5	17,5	20	22	24	26
Overall length	mm	150	150	160	190	190	190	205	205
Drive	C.M.	2	2	2	3	3	3	3	3
<b>8929G</b>	<b>Each</b>	<b>56,90</b>	<b>60,20</b>	<b>71,10</b>	<b>80,10</b>	<b>94,20</b>	<b>111,00</b>	<b>150,00</b>	<b>157,00</b>

**Dürr**

**8929G**



HSS

**COUNTERBORES FOR TAPERED-HEAD SCREW SEATS (SCREWS TO THREAD)**

Orig. Dürr - Art. 211-51

HSS.

For creating the seat to the tapered head of internal hexagonal screws to thread.

For iron and high-resistance steel.

Morse taper shank.

For screws	M.	10	12	14	16	18	20	22	24
Cutting edges Ø	mm	18	20	24	26	30	33	36	40
Guide Ø	mm	8,5	10,2	12	14	15,5	17,5	19,5	21
Overall length	mm	150	150	160	190	190	190	205	205
Drive	C.M.	2	2	2	3	3	3	3	3
<b>8930G</b>	<b>Each</b>	<b>63,20</b>	<b>65,70</b>	<b>78,10</b>	<b>87,60</b>	<b>105,00</b>	<b>124,00</b>	<b>163,00</b>	<b>184,00</b>

**Dürr**

**8930G**



HSS

**MILLS FOR SCREW SEATS WITH INTERCHANGEABLE GUIDES**

Orig. Dürr - Art. 214-51

HSS-DIN 375.

For creating the seat of the cylindrical head of through screws or screws to thread according to DIN. With front hole and lock screw for the different guides. With one mill only, by replacing the interchangeable guides, it is possible to countersink holes of different diameters.

For iron, high-resistance steel, aluminium, cast iron, etc.

Morse Taper Shank.

SUPPLIED WITHOUT GUIDES (For guides see Art. 8931 GB).

For screws	M.	8	10	14
Mill cutting edges Ø	mm	15	18	24
Ø bore conn. guide	mm	4	5	6
C.M. drive	C.M.	2	2	2
Overall length without guide	mm	132	140	150
<b>8931GA</b>	<b>Each</b>	<b>92,10</b>	<b>94,10</b>	<b>124,00</b>

**Dürr**

**8931GA**



HSS

Product running out of stock.

Orig. Dürr

Interchangeable guides DIN 1868 for mills Art. 8931 GA.

HSS.

Ø screw x Ø guide	M x mm	8x6,8	8x8,4	8x9	10x10,5	10x11	12x10,2	12x13
Guide Ø drive	mm	4	4	4	5	5	5	5
For mills Art.		8931GA 8	8931GA 8	8931GA 8	8931GA 10-12	8931GA 10-12	8931GA 10-12	8931GA 10-12
<b>8931GB</b>	<b>Each</b>	<b>24,40</b>	<b>24,40</b>	<b>24,50</b>	<b>30,30</b>	<b>30,30</b>	<b>33,60</b>	<b>33,60</b>
Ø screw x Ø guide	M x mm	12x13,5	14x12	14x15	14x15,5	16x17	16x17,5	18x15,5
Guide Ø drive	mm	5	6	6	6	8	8	8
For mills Art.		8931GA 10-12	8931GA 14	8931GA 14	8931GA 14	8931GA 16-18	8931GA 16-18	8931GA 16-18
<b>8931GB</b>	<b>Each</b>	<b>33,60</b>	<b>39,10</b>	<b>39,10</b>	<b>39,10</b>	<b>41,30</b>	<b>41,30</b>	<b>41,30</b>
Ø screw x Ø guide	M x mm	18x19	18x20	20x17,5	20x21	20x22		
Guide Ø drive	mm	8	8	10	10	10		
For mills Art.		8931GA 16-18	8931GA 16-18	8931GA 20	8931GA 20	8931GA 20		
<b>8931GB</b>	<b>Each</b>	<b>41,30</b>	<b>41,30</b>	<b>43,90</b>	<b>41,90</b>	<b>43,90</b>		

Product running out of stock.

**COUNTERSINKS FOR 90° COUNTERSINK-HEAD SCREW SEATS (PASSING-THROUGH SCREWS)**

Prod. SCU

HSS-E COBALT 5% - DIN 1866.

For creating the seat to the 90° countersink head of passing-through screws.

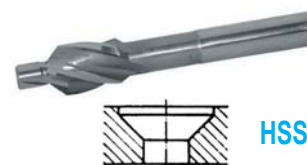
For iron and high-resistance steel.

Cylindrical shank. FINE tolerance.

For screws	M.	3	4	5	6	8	10
Cutting edges Ø	mm	6,3	8,3	10,4	12,4	16,5	20,5
Guide Ø	mm	3,2	4,3	5,3	6,4	8,4	10,5
Drive Ø	mm	6	8	10	10	12	12
Overall length	mm	71	71	80	80	100	100
<b>8932A</b>	<b>Each</b>	<b>43,80</b>	<b>47,60</b>	<b>58,90</b>	<b>71,80</b>	<b>89,40</b>	<b>129,00</b>

**SCU**

**8932A**



HSS-E-5%

8932G

**Dürr**



HSS

Orig. Dürr - Art. 212-11 / 212-21

HSS - DIN 1866.

For creating the seat to the 90° countersink head of passing-through screws.

For iron and high-resistance steel.

Cylindrical shank. FINE tolerance.

For screws	M.	2	2,5	3	4	5	6	8
Cutting edges Ø	mm	4,3	5	6	8	10	11,5	15
Guide Ø	mm	2,2	2,7	3,2	4,3	5,3	6,4	8,4
Drive Ø	mm	4,3	5	5	5	8	8	12,5
Overall length	mm	56	56	71	71	80	80	100
<b>8932G</b>	Each	<b>55,60</b>	<b>50,10</b>	<b>48,20</b>	<b>53,30</b>	<b>57,40</b>	<b>70,40</b>	<b>98,10</b>

**COUNTERSINKS FOR 90° COUNTERSINK-HEAD SCREW SEATS (SCREWS TO THREAD)**

8934G

**Dürr**



HSS

Orig. Dürr - Art. 212-21

HSS - DIN 1866.

For creating the seat to the 90° countersink head of screws to thread.

For iron and high-resistance steel.

Cylindrical shank. FINE tolerance.

For screws	M.	3	4	5	6	8
Cutting edges Ø	mm	6	8	10	11,5	15
Guide Ø	mm	2,5	3,3	4,2	5	6,8
Drive Ø	mm	5	5	8	8	12,5
Overall length	mm	71	71	80	80	100
<b>8934G</b>	Each	<b>53,70</b>	<b>59,20</b>	<b>63,10</b>	<b>79,60</b>	<b>98,10</b>

**JET REAMERS**

8940G

**SCU**



Prod. SCU

In hardened steel. Ground cutting edges.

For soft metal, iron, steel up to R 80/90 Kg.

Size		75	74	72	71	70	68	66	65	64	62	60	58	56	55	53
Max Ø	mm	0,5	0,55	0,6	0,65	0,7	0,75	0,8	0,85	0,9	0,95	1	1,1	1,2	1,3	1,5
Useful length	mm	35	35	40	40	40	40	40	45	48	48	55	55	55	55	60
<b>8940G</b>	Each	<b>1,40</b>	<b>1,40</b>	<b>1,36</b>	<b>1,36</b>	<b>1,36</b>	<b>1,36</b>	<b>1,36</b>	<b>1,36</b>	<b>1,36</b>	<b>1,36</b>	<b>1,36</b>	<b>1,40</b>	<b>1,40</b>	<b>1,50</b>	<b>1,78</b>
Size		52	50	48	46	39	31	28	21	15	8	6	5	4	3	2
Max Ø	mm	1,6	1,7	1,9	2	2,5	3	3,5	4	4,5	5	6	7	8	9	10
Useful length	mm	60	70	70	70	75	80	85	90	95	100	110	110	125	130	130
<b>8940G</b>	Each	<b>1,78</b>	<b>1,84</b>	<b>2,46</b>	<b>2,46</b>	<b>3,10</b>	<b>3,70</b>	<b>4,98</b>	<b>6,76</b>	<b>7,90</b>	<b>9,26</b>	<b>12,40</b>	<b>15,10</b>	<b>19,20</b>	<b>24,70</b>	<b>32,10</b>

8942G

**SCU**



For nozzle grinding and reboring.

Set of 12 jet reamers Art. 8940 G Size 72-71-70-66-65-64-60-58-55-53-50-48 with reamer holder.

In wallet.

<b>8942G</b>	Each	<b>27,10</b>
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**JET REAMERS WITH HANDLE**

8944G

**SCU**



Prod. SCU

For nozzle grinding and reboring.

Pentagonal operating part with knurled plastic handle.

Size		78	75	72	70	66	64	60
Max Ø	mm	0,4	0,5	0,6	0,7	0,8	0,9	1
<b>8944G</b>	Each	<b>2,12</b>	<b>1,92</b>	<b>1,88</b>	<b>1,88</b>	<b>1,88</b>	<b>1,88</b>	<b>1,88</b>
Size		56	54	51	46			
Max Ø	mm	1,2	1,4	1,7	2			
<b>8944G</b>	Each	<b>1,96</b>	<b>2,26</b>	<b>2,80</b>	<b>3,14</b>			

8946G

**SCU**



For nozzle grinding and reboring.

Set of 12 jet reamers Art. 8944 G Size 78-72-66-60-56-54.

In plastic bag.

<b>8946G</b>	Each	<b>16,60</b>
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**REAMER HOLDERS**

**Prod. SCU**

Plastic handle. Steel clamps.

Overall length	mm	100	110	115	160	170
Opening	mm	0-1,2	1,2-2	2-3	3-4,5	4-6
For reamers 8940 G	Gr	75 to 56	55 to 46	39 to 21	15 to 8	6 e 5
<b>8948G</b>	<b>Each</b>	<b>8,22</b>	<b>9,98</b>	<b>10,20</b>	<b>26,80</b>	<b>34,30</b>

**SCU**

**8948G**



Brass body. Steel clamps.

With 2 interchangeable jaws.

Overall length	mm	100	110	111
Opening	mm	0-2,6	0-3,2	0-4
For reamers 8940 G	Gr	75 to 31	75 to 15	75 to 6
<b>8950G</b>	<b>Each</b>	<b>20,80</b>	<b>23,10</b>	<b>23,10</b>

**SCU**

**8950G**



**HAND TAPER PIN REAMERS**

**Orig. Dürr - Art. 323-21**

HSS – DIN 9. Helical, ground cutting edges.  
Taper 1:50. With drive board and cylindrical tang.  
Tolerance H7.

Rated Ø	mm	1,5	2	2,5	3	4	5	6	8	10	12	16	20	25
Min Ø	mm	1,4	1,9	2,4	2,9	3,9	4,9	5,9	7,9	9,9	11,8	15,8	19,8	24,7
Max Ø	mm	2,14	2,86	3,36	4,06	5,26	6,36	8	10,8	13,4	16	20,4	24,8	30,7
Cutting edge length	mm	37	48	48	58	68	73	105	145	175	210	230	250	300
Overall length	mm	57	68	68	80	93	100	135	180	215	255	280	310	370
Square drive	mm	2,5	2,5	2,5	3,15	4	5	6,3	8	10	11,2	14	18	22,4
<b>8954G</b>	<b>Each</b>	<b>47,70</b>	<b>47,70</b>	<b>47,70</b>	<b>44,40</b>	<b>46,10</b>	<b>47,70</b>	<b>57,60</b>	<b>87,20</b>	<b>125,00</b>	<b>160,00</b>	<b>222,00</b>	<b>288,00</b>	<b>500,00</b>

**Dürr**

**8954G**

**HSS**



**TAPER REAMERS**

**Orig. Dürr - Art. 323-21**

HSS. Helicoidal cutting edges. Taper 1:10.  
With drive board and cylindrical tang.

Min/max Ø	mm	3/10	5/15	10/25	15/35
Cutting edge length	mm	70	100	150	200
Overall length	mm	100	140	195	250
Square drive	mm	6,3	10	16	22,4
<b>8960G</b>	<b>Each</b>	<b>79,10</b>	<b>111,00</b>	<b>231,00</b>	<b>484,00</b>

**Dürr**

**8960G**

**HSS**



**HAND REAMERS WITH CYLINDRICAL SHANK**

**Prod. SCU**

HSS – DIN 206B.  
Ground helicoidal cutting edges.  
With drive board and cylindrical shank.  
Tolerance H7.

Ø	mm	5	5,5	6	6,5	7	7,5	8	8,5	9	9,5	10	10,5	11	11,5	12	12,5	13
Cutting edge length	mm	44	47	47	50	54	54	58	58	62	62	66	66	71	71	76	76	76
Overall length	mm	87	93	93	100	107	107	115	115	124	124	133	133	142	142	152	152	152
Square drive	mm	4	4,5	4,5	5	5,6	5,6	6,3	7,1	7,1	7,1	8	9	9	10	10	10	10
<b>8964</b>	<b>Each</b>	<b>21,10</b>	<b>28,40</b>	<b>22,70</b>	<b>32,50</b>	<b>25,50</b>	<b>33,30</b>	<b>27,70</b>	<b>35,40</b>	<b>30,50</b>	<b>36,60</b>	<b>32,90</b>	<b>39,70</b>	<b>44,20</b>	<b>43,60</b>	<b>48,50</b>	<b>56,50</b>	<b>52,90</b>
Ø	mm	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	30	
Cutting edge length	mm	81	81	87	87	93	93	100	100	107	107	115	115	115	124	124	124	
Overall length	mm	163	163	177	177	188	188	201	201	215	215	231	231	231	247	247	247	
Square drive	mm	11,2	11,2	12,5	12,5	14	14	16	16	18	18	20	20	20	22,4	22,4	22,4	
<b>8964</b>	<b>Each</b>	<b>59,30</b>	<b>64,70</b>	<b>72,80</b>	<b>74,10</b>	<b>75,10</b>	<b>78,80</b>	<b>92,80</b>	<b>93,30</b>	<b>102,00</b>	<b>110,00</b>	<b>128,00</b>	<b>129,00</b>	<b>143,00</b>	<b>154,00</b>	<b>171,00</b>	<b>188,00</b>	

**SCU**

**8964**

**HSS**



**Orig. Dürr - Art. 313-21**

HSS – DIN 206B.  
Ground helicoidal cutting edges (1.5 – 1.6 – 1.8mm with straight cutting edges).  
With drive board and cylindrical shank.  
Tolerance H7.

Ø	mm	1,5*	1,6*	1,8*	2	2,2*	2,5	2,8	3	3,5	4	4,5	5	5,5	6	7	8	9
Cutting edge length	mm	20	21	23	25	27	29	31	31	35	38	41	44	47	47	54	58	62
Overall length	mm	41	44	47	50	54	58	62	62	71	76	81	87	93	93	107	115	124
Square drive	mm	1,12	1,25	1,4	1,6	1,8	2	2,24	2,24	2,8	3,15	3,55	4	4,5	4,5	5,6	6,3	7,1
<b>8965G</b>	<b>Each</b>	<b>43,50</b>	<b>43,10</b>	<b>43,10</b>	<b>37,20</b>	<b>45,10</b>	<b>37,20</b>	<b>48,40</b>	<b>37,20</b>	<b>43,50</b>	<b>37,20</b>	<b>41,80</b>	<b>39,10</b>	<b>44,30</b>	<b>37,90</b>	<b>40,70</b>	<b>42,10</b>	<b>46,70</b>
Ø	mm	10	11	12	13	14	15	16	17	18	19	20	22	24	25	26*	28	30
Cutting edge length	mm	66	71	76	76	81	81	87	87	93	93	100	107	115	115	115	124	124
Overall length	mm	133	142	152	152	163	163	175	175	188	188	201	215	231	231	231	247	247
Square drive	mm	8	9	10	10	11,2	11,2	12,5	12,5	14	14	16	18	20	20	20	22,4	22,4
<b>8965G</b>	<b>Each</b>	<b>46,70</b>	<b>55,10</b>	<b>56,10</b>	<b>80,50</b>	<b>89,50</b>	<b>93,60</b>	<b>96,60</b>	<b>108,00</b>	<b>111,00</b>	<b>122,00</b>	<b>121,00</b>	<b>147,00</b>	<b>169,00</b>	<b>171,00</b>	<b>180,00</b>	<b>248,00</b>	<b>236,00</b>

**Dürr**

**8965G**

**HSS**



\* Sizes running out of stock.

**MACHINE TAPER PIN REAMERS**

8968G

**Dürr**



HSS

Orig. Dürr - Art. 324-31

HSS – DIN 2179.

Ground, helicoidal, 45° left-hand cutting edges.

Taper 1:50. Cylindrical shank.

Tolerance H7.

Rated Ø	mm	2	2,5	3	4	5	6	6,5	8	10	12
Min Ø	mm	1,9	2,4	2,9	3,9	4,9	5,9	6,4	7,9	9,9	11,8
Max Ø	mm	2,86	3,36	4,06	5,26	6,36	8	8,78	10,8	13,4	16
Cutting edge length	mm	48	48	58	68	73	105	119	145	175	210
Overall length	mm	86	86	100	112	122	160	188	207	245	290
Drive Ø	mm	3,15	3,15	4	5	6,3	8	8,5	10	12,5	16
<b>8968G</b>	<b>Each</b>	<b>46,10</b>	<b>54,30</b>	<b>46,10</b>	<b>49,40</b>	<b>52,70</b>	<b>59,20</b>	<b>77,30</b>	<b>90,50</b>	<b>116,00</b>	<b>140,00</b>

Size mm 6,5 running out of stock.

**MACHINE REAMERS**

8970G

**Dürr**



HSS-E

Orig. Dürr - Art. 314-21

COBALT HSS-E – DIN 212.

Ground helicoidal cutting edges. Left-hand spiral flute. For right-hand cutting.

Cylindrical shank. Tolerance H7. Long pattern.

Ø	mm	1,5	1,8*	2	2,2*	2,5	2,8*	3	3,2*	3,5	4	4,5	5	5,5	6	6,5
Cutting edge length	mm	8	10	11	12	14	15	15	16	18	19	21	23	26	26	28
Overall length	mm	40	46	49	53	57	61	61	65	70	75	80	86	93	93	101
Drive Ø	mm	1,5	1,8	2	2,2	2,5	2,8	3	3,2	3,5	4	4,5	5	5,6	5,6	6,3
<b>8970G</b>	<b>Each</b>	<b>27,30</b>	<b>33,80</b>	<b>25,50</b>	<b>33,80</b>	<b>25,50</b>	<b>33,80</b>	<b>24,50</b>	<b>33,80</b>	<b>27,30</b>	<b>26,40</b>	<b>27,30</b>	<b>27,30</b>	<b>32,60</b>	<b>27,30</b>	<b>34,70</b>
Ø	mm	7	7,5	8	8,5	9	9,5	10	10,5	11	11,5	12	13	14	15	16
Cutting edge length	mm	31	31	33	33	36	36	38	38	41	41	44	44	47	50	52
Overall length	mm	109	109	117	117	125	125	133	142	142	142	151	151	160	162	170
Drive Ø	mm	7,1	7,1	8	8	9	9	10	10	10	10	10	10	12,5	12,5	12,5
<b>8970G</b>	<b>Each</b>	<b>34,70</b>	<b>37,50</b>	<b>35,70</b>	<b>44,30</b>	<b>41,50</b>	<b>49,20</b>	<b>41,50</b>	<b>59,70</b>	<b>59,70</b>	<b>73,20</b>	<b>59,70</b>	<b>68,90</b>	<b>69,90</b>	<b>73,20</b>	<b>75,10</b>
Ø	mm	17	18	19	20											
Cutting edge length	mm	54	56	58	60											
Overall length	mm	175	182	189	195											
Drive Ø	mm	14	14	16	16											
<b>8970G</b>	<b>Each</b>	<b>91,50</b>	<b>93,50</b>	<b>110,00</b>	<b>101,00</b>											

\* Sizes running out of stock.

8971G

**Dürr**



HSS-E

COBALT HSS-E – DIN 212.

Ground helicoidal cutting edges. Left-hand spiral flute. For right-hand cutting.

Cylindrical shank. Tolerance H7.

Type		2	3	4	5	6	6L	8
Ø	mm	2	3	4	5	6	6	8
Cutting edge length	mm	11	15	19	23	26	26	33
Max boring length	mm	45	65	70	80	90	210	115
Drive Ø	mm	2	3	4	5	6	6	8
<b>8971G</b>	<b>Each</b>	<b>90,50</b>	<b>69,10</b>	<b>70,80</b>	<b>72,40</b>	<b>75,70</b>	<b>178,00</b>	<b>79,10</b>
Type		8L	10	10L	12			
Ø	mm	8	10	10	12			
Cutting edge length	mm	33	38	38	44			
Max boring length	mm	200	140	200	160			
Drive Ø	mm	8	10	10	12			
<b>8971G</b>	<b>Each</b>	<b>181,00</b>	<b>90,50</b>	<b>185,00</b>	<b>101,00</b>			

8971R

**SCU**



HARTMETALL

Prod. SCU

SOLID CARBIDE K 10 - DIN 212.

Ground, helicoidal cutting edges. Left-hand spiral flute. For right-hand cutting. Cylindrical shank.

Tolerance H7.

Ø	mm	2	2,5	3	3,5	4	4,5	5
Cutting edge length	mm	11	14	15	18	19	21	23
Overall length	mm	50	57	60	70	75	80	93
Drive Ø	mm	2	2,5	3	3,5	4	4,5	5
<b>8971R</b>	<b>Each</b>	<b>24,70</b>	<b>22,50</b>	<b>24,70</b>	<b>28,50</b>	<b>32,10</b>	<b>37,10</b>	<b>43,20</b>
Ø	mm	5,5	6	6,5	7	8	9	10
Cutting edge length	mm	26	26	28	31	33	36	38
Overall length	mm	93	93	100	109	117	125	135
Drive Ø	mm	5,5	6	6,5	7	8	9	10
<b>8971R</b>	<b>Each</b>	<b>49,50</b>	<b>50,80</b>	<b>57,80</b>	<b>65,50</b>	<b>77,10</b>	<b>88,50</b>	<b>110,00</b>
Ø	mm	11	12	13				
Cutting edge length	mm	41	44	44				
Overall length	mm	140	150	150				
Drive Ø	mm	11	12	13				
<b>8971R</b>	<b>Each</b>	<b>140,00</b>	<b>166,00</b>	<b>193,00</b>				

Prices in EURO - VAT not included

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**Orig. Dürr - Art. 314-23**

SOLID CARBIDE K 10 tipped cutting edges – Similar to DIN 8093.  
Ground, helicoidal cutting edges. Left-hand spiral flute. For right-hand cutting. Cylindrical shank.  
Tolerance H7.

Ø	mm	5	6	7*	8	10	11*	12	14	20*
Cutting edge length	mm	23	26	31	33	38	41	44	47	60
Overall length	mm	86	93	109	117	133	142	151	160	195
Drive Ø	mm	5	5,6	7,1	8	10	10	10	12,5	16
<b>8972G</b>	<b>Each</b>	<b>102,00</b>	<b>102,00</b>	<b>107,00</b>	<b>104,00</b>	<b>133,00</b>	<b>157,00</b>	<b>166,00</b>	<b>182,00</b>	<b>264,00</b>

\* Sizes running out of stock.

**Dürr**

**8972G**



HARTMETALL

**Orig. Dürr - Art. 314-31**

COBALT HSS-E – DIN 212.  
45° left-hand spiral flute. For right-hand cutting.  
For passing-through holes only, frontal chip discharge.  
Cylindrical shank. Tolerance H7.

Ø	mm	2	2,5	3	3,5	4	4,5	6	7	9
Cutting edge length	mm	11	14	15	18	19	21	26	31	36
Overall length	mm	49	57	61	70	75	80	93	109	125
Drive Ø	mm	2	2,5	3	3,5	4	4,5	5,6	7,1	9
<b>8974G</b>	<b>Each</b>	<b>28,10</b>	<b>29,90</b>	<b>33,70</b>	<b>39,30</b>	<b>33,70</b>	<b>39,30</b>	<b>35,50</b>	<b>41,10</b>	<b>54,20</b>

Product running out of stock.

**Dürr**

**8974G**



HSS-E

**CENTESIMAL MACHINE REAMERS**

**Orig. Dürr - Art. 299B-301D**

High-precision type, 1/100 progression.  
COBALT HSS-E – Similar to DIN 212.  
Ground, helicoidal cutting edges. Left-hand spiral flute.  
For right-hand cutting.  
Cylindrical shank, precision h9.  
Tolerance:  
up to Ø 5.50mm + 0.004 / 0  
from Ø 5,51mm + 0.005 / 0.

Ø	mm	0,90	0,91	0,92	0,93	0,94	0,95	0,96	0,97	0,98	0,99	1,00	1,01	1,02	1,03	1,04
Cutting edge length	mm	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5
Overall length	mm	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
Indicative Ø drive	mm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<b>8976G</b>	<b>Each</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>

Ø	mm	1,05	1,06	1,07	1,08	1,09	1,10	1,11	1,12	1,13	1,14	1,15	1,16	1,17	1,18	1,19
Cutting edge length	mm	5,5	5,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	7,5
Overall length	mm	34	34	36	36	36	36	36	36	36	36	36	36	36	36	38
Indicative Ø drive	mm	1	1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,2
<b>8976G</b>	<b>Each</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>

Ø	mm	1,20	1,21	1,22	1,23	1,24	1,25	1,26	1,27	1,28	1,29	1,30	1,31	1,32	1,33	1,34
Cutting edge length	mm	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	8	8
Overall length	mm	38	38	38	38	38	38	38	38	38	38	38	38	38	40	40
Indicative Ø drive	mm	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,4	1,4
<b>8976G</b>	<b>Each</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>

Ø	mm	1,35	1,36	1,37	1,38	1,39	1,40	1,41	1,42	1,43	1,44	1,45	1,46	1,47	1,48	1,49
Cutting edge length	mm	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Overall length	mm	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
Indicative Ø drive	mm	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4
<b>8976G</b>	<b>Each</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>

Ø	mm	1,50	1,51	1,52	1,53	1,54	1,55	1,56	1,57	1,58	1,59	1,60	1,61	1,62	1,63	1,64
Cutting edge length	mm	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Overall length	mm	40	43	43	43	43	43	43	43	43	43	43	43	43	43	43
Indicative Ø drive	mm	1,4	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5
<b>8976G</b>	<b>Each</b>	<b>32,90</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>

Ø	mm	1,65	1,66	1,67	1,68	1,69	1,70	1,71	1,72	1,73	1,74	1,75	1,76	1,77	1,78	1,79
Cutting edge length	mm	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10
Overall length	mm	43	43	43	43	43	46	46	46	46	46	46	46	46	46	46
Indicative Ø drive	mm	1,5	1,5	1,5	1,5	1,5	1,5	1,8	1,8	1,8	1,8	1,8	1,8	1,8	1,8	1,8
<b>8976G</b>	<b>Each</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>

Ø	mm	1,80	1,81	1,82	1,83	1,84	1,85	1,86	1,87	1,88	1,89	1,90	1,91	1,92	1,93	1,94
Cutting edge length	mm	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11
Overall length	mm	46	46	46	46	46	46	46	46	46	46	46	49	49	49	49
Indicative Ø drive	mm	1,8	1,8	1,8	1,8	1,8	1,8	1,8	1,8	1,8	1,8	1,8	2	2	2	2
<b>8976G</b>	<b>Each</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>

**Dürr**

**8976G**



HSS-E

Ø	mm	1,95	1,96	1,97	1,98	1,99	2,00	2,01	2,02	2,03	2,04	2,05	2,06	2,07	2,08	2,09
Cutting edge length	mm	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Overall length	mm	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
Indicative Ø drive	mm	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
<b>8976G</b>	Each	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>
Ø	mm	2,10	2,11	2,12	2,13	2,14	2,15	2,16	2,17	2,18	2,19	2,20	2,21	2,22	2,23	2,24
Cutting edge length	mm	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12
Overall length	mm	49	49	49	53	53	53	53	53	53	53	53	53	53	53	53
Indicative Ø drive	mm	2	2	2	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2
<b>8976G</b>	Each	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>
Ø	mm	2,25	2,26	2,27	2,28	2,29	2,30	2,31	2,32	2,33	2,34	2,35	2,36	2,37	2,38	2,39
Cutting edge length	mm	12	12	12	12	12	12	12	12	12	12	12	12	14	14	14
Overall length	mm	53	53	53	53	53	53	53	53	53	53	53	53	57	57	57
Indicative Ø drive	mm	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,5	2,5	2,5
<b>8976G</b>	Each	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>
Ø	mm	2,40	2,41	2,42	2,43	2,44	2,45	2,46	2,47	2,48	2,49	2,50	2,51	2,52	2,53	2,54
Cutting edge length	mm	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Overall length	mm	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57
Indicative Ø drive	mm	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5
<b>8976G</b>	Each	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>
Ø	mm	2,55	2,56	2,57	2,58	2,59	2,60	2,61	2,62	2,63	2,64	2,65	2,66	2,67	2,68	2,69
Cutting edge length	mm	14	14	14	14	14	14	14	14	14	14	14	15	15	15	15
Overall length	mm	57	57	57	57	57	57	57	57	57	57	57	61	61	61	61
Indicative Ø drive	mm	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,9	2,9	2,9	2,9
<b>8976G</b>	Each	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>
Ø	mm	2,70	2,71	2,72	2,73	2,74	2,75	2,76	2,77	2,78	2,79	2,80	2,81	2,82	2,83	2,84
Cutting edge length	mm	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Overall length	mm	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
Indicative Ø drive	mm	2,9	2,9	2,9	2,9	2,9	2,9	2,9	2,9	2,9	2,9	2,9	2,9	2,9	2,9	2,9
<b>8976G</b>	Each	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>
Ø	mm	2,85	2,86	2,87	2,88	2,89	2,90	2,91	2,92	2,93	2,94	2,95	2,96	2,97	2,98	2,99
Cutting edge length	mm	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Overall length	mm	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
Indicative Ø drive	mm	2,9	2,9	2,9	2,9	2,9	2,9	2,9	2,9	2,9	2,9	2,9	2,9	2,9	2,9	2,9
<b>8976G</b>	Each	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>
Ø	mm	3,00	3,01	3,02	3,03	3,04	3,05	3,06	3,07	3,08	3,09	3,10	3,11	3,12	3,13	3,14
Cutting edge length	mm	15	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Overall length	mm	61	65	65	65	65	65	65	65	65	65	65	65	65	65	65
Indicative Ø drive	mm	2,9	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1
<b>8976G</b>	Each	<b>31,30</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>
Ø	mm	3,15	3,16	3,17	3,18	3,19	3,20	3,21	3,22	3,23	3,24	3,25	3,26	3,27	3,28	3,29
Cutting edge length	mm	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Overall length	mm	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
Indicative Ø drive	mm	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1
<b>8976G</b>	Each	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>
Ø	mm	3,30	3,31	3,32	3,33	3,34	3,35	3,36	3,37	3,38	3,39	3,40	3,41	3,42	3,43	3,44
Cutting edge length	mm	16	16	16	16	16	16	18	18	18	18	18	18	18	18	18
Overall length	mm	65	65	65	65	65	65	70	70	70	70	70	70	70	70	70
Indicative Ø drive	mm	3,1	3,1	3,1	3,1	3,1	3,1	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5
<b>8976G</b>	Each	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>
Ø	mm	3,45	3,46	3,47	3,48	3,49	3,50	3,51	3,52	3,53	3,54	3,55	3,56	3,57	3,58	3,59
Cutting edge length	mm	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Overall length	mm	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Indicative Ø drive	mm	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5
<b>8976G</b>	Each	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>
Ø	mm	3,60	3,61	3,62	3,63	3,64	3,65	3,66	3,67	3,68	3,69	3,70	3,71	3,72	3,73	3,74
Cutting edge length	mm	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Overall length	mm	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Indicative Ø drive	mm	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5
<b>8976G</b>	Each	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>
Ø	mm	3,75	3,76	3,77	3,78	3,79	3,80	3,81	3,82	3,83	3,84	3,85	3,86	3,87	3,88	3,89
Cutting edge length	mm	18	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Overall length	mm	70	75	75	75	75	75	75	75	75	75	75	75	75	75	75
Indicative Ø drive	mm	3,5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
<b>8976G</b>	Each	<b>32,90</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>
Ø	mm	3,90	3,91	3,92	3,93	3,94	3,95	3,96	3,97	3,98	3,99	4,00	4,01	4,02	4,03	4,04
Cutting edge length	mm	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Overall length	mm	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
Indicative Ø drive	mm	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
<b>8976G</b>	Each	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>
Ø	mm	4,05	4,06	4,07	4,08	4,09	4,10	4,11	4,12	4,13	4,14	4,15	4,16	4,17	4,18	4,19
Cutting edge length	mm	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Overall length	mm	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
Indicative Ø drive	mm	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
<b>8976G</b>	Each	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>

Prices in EURO - VAT not included

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Ø	mm	4,20	4,21	4,22	4,23	4,24	4,25	4,26	4,27	4,28	4,29	4,30	4,31	4,32	4,33	4,34
Cutting edge length	mm	19	19	19	19	19	19	21	21	21	21	21	21	21	21	21
Overall length	mm	75	75	75	75	75	75	80	80	80	80	80	80	80	80	80
Indicative Ø drive	mm	4	4	4	4	4	4	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5
<b>8976G</b>	<b>Each</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>31,30</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>
Ø	mm	4,35	4,36	4,37	4,38	4,39	4,40	4,41	4,42	4,43	4,44	4,45	4,46	4,47	4,48	4,49
Cutting edge length	mm	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Overall length	mm	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Indicative Ø drive	mm	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5
<b>8976G</b>	<b>Each</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>
Ø	mm	4,50	4,51	4,52	4,53	4,54	4,55	4,56	4,57	4,58	4,59	4,60	4,61	4,62	4,63	4,64
Cutting edge length	mm	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Overall length	mm	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Indicative Ø drive	mm	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5
<b>8976G</b>	<b>Each</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>
Ø	mm	4,65	4,66	4,67	4,68	4,69	4,70	4,71	4,72	4,73	4,74	4,75	4,76	4,77	4,78	4,79
Cutting edge length	mm	21	21	21	21	21	21	21	21	21	21	21	23	23	23	23
Overall length	mm	80	80	80	80	80	80	80	80	80	80	80	86	86	86	86
Indicative Ø drive	mm	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	5	5	5	5
<b>8976G</b>	<b>Each</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>
Ø	mm	4,80	4,81	4,82	4,83	4,84	4,85	4,86	4,87	4,88	4,89	4,90	4,91	4,92	4,93	4,94
Cutting edge length	mm	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
Overall length	mm	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86
Indicative Ø drive	mm	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
<b>8976G</b>	<b>Each</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>
Ø	mm	4,95	4,96	4,97	4,98	4,99	5,00	5,01	5,02	5,03	5,04	5,05	5,06	5,07	5,08	5,09
Cutting edge length	mm	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
Overall length	mm	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86
Indicative Ø drive	mm	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
<b>8976G</b>	<b>Each</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>
Ø	mm	5,10	5,11	5,12	5,13	5,14	5,15	5,16	5,17	5,18	5,19	5,20	5,21	5,22	5,23	5,24
Cutting edge length	mm	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
Overall length	mm	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86
Indicative Ø drive	mm	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
<b>8976G</b>	<b>Each</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>
Ø	mm	5,25	5,26	5,27	5,28	5,29	5,30	5,31	5,32	5,33	5,34	5,35	5,36	5,37	5,38	5,39
Cutting edge length	mm	23	23	23	23	23	26	26	26	26	26	26	26	26	26	26
Overall length	mm	86	86	86	86	86	93	93	93	93	93	93	93	93	93	93
Indicative Ø drive	mm	5	5	5	5	5	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6
<b>8976G</b>	<b>Each</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>30,40</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>
Ø	mm	5,40	5,41	5,42	5,43	5,44	5,45	5,46	5,47	5,48	5,49	5,50	5,51	5,52	5,53	5,54
Cutting edge length	mm	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Overall length	mm	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
Indicative Ø drive	mm	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6
<b>8976G</b>	<b>Each</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>
Ø	mm	5,55	5,56	5,57	5,58	5,59	5,60	5,61	5,62	5,63	5,64	5,65	5,66	5,67	5,68	5,69
Cutting edge length	mm	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Overall length	mm	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
Indicative Ø drive	mm	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6
<b>8976G</b>	<b>Each</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>
Ø	mm	5,70	5,71	5,72	5,73	5,74	5,75	5,76	5,77	5,78	5,79	5,80	5,81	5,82	5,83	5,84
Cutting edge length	mm	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Overall length	mm	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
Indicative Ø drive	mm	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6
<b>8976G</b>	<b>Each</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>
Ø	mm	5,85	5,86	5,87	5,88	5,89	5,90	5,91	5,92	5,93	5,94	5,95	5,96	5,97	5,98	5,99
Cutting edge length	mm	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Overall length	mm	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
Indicative Ø drive	mm	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6
<b>8976G</b>	<b>Each</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>
Ø	mm	6,00	6,01	6,02	6,03	6,04	6,05	6,06	6,07	6,08	6,09	6,10	6,11	6,12	6,13	6,14
Cutting edge length	mm	26	26	26	26	26	26	26	26	26	26	26	26	28	28	28
Overall length	mm	93	93	93	93	93	93	93	93	93	93	93	93	101	101	101
Indicative Ø drive	mm	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	6,3	6,3	6,3
<b>8976G</b>	<b>Each</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>33,80</b>	<b>36,50</b>	<b>36,50</b>	<b>36,50</b>
Ø	mm	6,15	6,16	6,17	6,18	6,19	6,20	6,21	6,22	6,23	6,24	6,25	6,26	6,27	6,28	6,29
Cutting edge length	mm	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Overall length	mm	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Indicative Ø drive	mm	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3
<b>8976G</b>	<b>Each</b>	<b>36,50</b>	<b>36,50</b>	<b>36,50</b>	<b>36,50</b>	<b>36,50</b>	<b>36,50</b>	<b>36,50</b>	<b>36,50</b>	<b>36,50</b>	<b>36,50</b>	<b>36,50</b>	<b>36,50</b>	<b>36,50</b>	<b>36,50</b>	<b>36,50</b>
Ø	mm	6,30	6,31	6,32	6,33	6,34	6,35	6,36	6,37	6,38	6,39	6,40	6,			



Ø	mm	8,70	8,71	8,72	8,73	8,74	8,75	8,76	8,77	8,78	8,79	8,80	8,81	8,82	8,83	8,84
Cutting edge length	mm	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
Overall length	mm	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
Indicative Ø drive	mm	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
<b>8976G</b>	<b>Each</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>
Ø	mm	8,85	8,86	8,87	8,88	8,89	8,90	8,91	8,92	8,93	8,94	8,95	8,96	8,97	8,98	8,99
Cutting edge length	mm	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
Overall length	mm	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
Indicative Ø drive	mm	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
<b>8976G</b>	<b>Each</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>
Ø	mm	9,00	9,01	9,02	9,03	9,04	9,05	9,06	9,07	9,08	9,09	9,10	9,11	9,12	9,13	9,14
Cutting edge length	mm	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
Overall length	mm	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
Indicative Ø drive	mm	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
<b>8976G</b>	<b>Each</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>
Ø	mm	9,15	9,16	9,17	9,18	9,19	9,20	9,21	9,22	9,23	9,24	9,25	9,26	9,27	9,28	9,29
Cutting edge length	mm	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
Overall length	mm	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
Indicative Ø drive	mm	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
<b>8976G</b>	<b>Each</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>
Ø	mm	9,30	9,31	9,32	9,33	9,34	9,35	9,36	9,37	9,38	9,39	9,40	9,41	9,42	9,43	9,44
Cutting edge length	mm	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
Overall length	mm	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
Indicative Ø drive	mm	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
<b>8976G</b>	<b>Each</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>
Ø	mm	9,45	9,46	9,47	9,48	9,49	9,50	9,51	9,52	9,53	9,54	9,55	9,56	9,57	9,58	9,59
Cutting edge length	mm	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
Overall length	mm	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
Indicative Ø drive	mm	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
<b>8976G</b>	<b>Each</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>
Ø	mm	9,60	9,61	9,62	9,63	9,64	9,65	9,66	9,67	9,68	9,69	9,70	9,71	9,72	9,73	9,74
Cutting edge length	mm	36	36	36	36	38	38	38	38	38	38	38	38	38	38	38
Overall length	mm	125	125	125	125	133	133	133	133	133	133	133	133	133	133	133
Indicative Ø drive	mm	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10
<b>8976G</b>	<b>Each</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>
Ø	mm	9,75	9,76	9,77	9,78	9,79	9,80	9,81	9,82	9,83	9,84	9,85	9,86	9,87	9,88	9,89
Cutting edge length	mm	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
Overall length	mm	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133
Indicative Ø drive	mm	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
<b>8976G</b>	<b>Each</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>
Ø	mm	9,90	9,91	9,92	9,93	9,94	9,95	9,96	9,97	9,98	9,99	10,00	10,01	10,02		
Cutting edge length	mm	38	38	38	38	38	38	38	38	38	38	38	38	38		
Overall length	mm	133	133	133	133	133	133	133	133	133	133	133	133	133		
Indicative Ø drive	mm	10	10	10	10	10	10	10	10	10	10	10	10	10		
<b>8976G</b>	<b>Each</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>	<b>52,10</b>		

**MACHINE REAMERS**
**Orig. Dürr - Art. 314-51**

COBALT HSS-E – DIN 208.

Ground, helicoidal cutting edges. Left-hand spiral flute. For right-hand cutting.

Morse taper shank. Tolerance H7.


**HSS-E**

Ø	mm	6	7	8	10	11	12	13	14	15	16	17	18	19	20	21
Cutting edge length	mm	26	31	33	38	41	44	44	47	50	52	54	56	58	60	62
Overall length	mm	138	150	156	168	175	182	182	189	204	210	214	219	223	228	232
Drive	C.M.	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
<b>8978G</b>	<b>Each</b>	<b>67,10</b>	<b>77,10</b>	<b>71,90</b>	<b>59,90</b>	<b>73,20</b>	<b>64,80</b>	<b>68,90</b>	<b>68,90</b>	<b>84,10</b>	<b>85,10</b>	<b>91,30</b>	<b>95,30</b>	<b>99,40</b>	<b>99,40</b>	<b>117,00</b>
Ø	mm	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Cutting edge length	mm	64	66	68	68	70	71	71	73	73	75	77	77	78	78	79
Overall length	mm	237	241	268	268	273	277	277	281	281	285	317	317	321	321	325
Drive	C.M.	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4
<b>8978G</b>	<b>Each</b>	<b>114,00</b>	<b>132,00</b>	<b>135,00</b>	<b>138,00</b>	<b>148,00</b>	<b>185,00</b>	<b>162,00</b>	<b>206,00</b>	<b>170,00</b>	<b>233,00</b>	<b>228,00</b>	<b>280,00</b>	<b>256,00</b>	<b>253,00</b>	<b>303,00</b>
Ø	mm	38	40	45	50											
Cutting edge length	mm	81	81	83	86											
Overall length	mm	329	329	336	344											
Drive	C.M.	4	4	4	4											
<b>8978G</b>	<b>Each</b>	<b>335,00</b>	<b>303,00</b>	<b>397,00</b>	<b>524,00</b>											

8979G



HSS-E

COBALT HSS-E – DIN 208.  
Ground, helicoidal cutting edges. Left-hand spiral flute. For right-hand cutting.  
Morse taper shank. Tolerance H7. Long type.

Type		<b>14</b>	<b>14L</b>	<b>16</b>	<b>16L</b>	<b>20</b>	<b>20L</b>	<b>25</b>	<b>30</b>
Ø	mm	14	14	16	16	20	20	25	30
Cutting edge length	mm	47	47	52	52	60	60	68	73
Max boring length	mm	179	245	180	270	190	270	220	250
Drive	C.M.	1	1	2	2	2	2	3	3
<b>8979G</b>	<b>Each</b>	<b>116,00</b>	<b>298,00</b>	<b>135,00</b>	<b>403,00</b>	<b>153,00</b>	<b>451,00</b>	<b>453,00</b>	<b>491,00</b>

8980G



HARTMETALL

Orig. Dürer - Art. 314-53  
SOLID CARBIDE K 10 tipped cutting edges- DIN 8094.  
Ground, helicoidal cutting edges. Left-hand spiral flute. For right-hand cutting. Morse taper shank.  
Tolerance H7.

Ø	mm	<b>10*</b>	<b>12</b>	<b>13*</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>18</b>	<b>19</b>
Cutting edge length	mm	38	44	44	47	50	52	56	58
Overall length	mm	168	182	182	189	204	210	219	223
Drive	C.M.	1	1	1	1	2	2	2	2
<b>8980G</b>	<b>Each</b>	<b>147,00</b>	<b>155,00</b>	<b>159,00</b>	<b>182,00</b>	<b>199,00</b>	<b>209,00</b>	<b>213,00</b>	<b>236,00</b>
Ø	mm	<b>20</b>	<b>22</b>	<b>24*</b>	<b>25</b>	<b>28</b>	<b>30</b>		
Cutting edge length	mm	60	64	68	68	71	73		
Overall length	mm	228	237	268	268	277	281		
Drive	C.M.	2	2	3	3	3	3		
<b>8980G</b>	<b>Each</b>	<b>236,00</b>	<b>273,00</b>	<b>314,00</b>	<b>339,00</b>	<b>436,00</b>	<b>442,00</b>		

\* Sizes running out of stock.

8982G



HSS-E

Orig. Dürer - Art. 314-61  
COBALT HSS-E – DIN 208.  
45° left-hand spiral flute. For right-hand cutting.  
For passing-through holes only, frontal chip discharge.  
Morse taper shank. Tolerance H7.

Ø	mm	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>16</b>	<b>17</b>
Cutting edge length	mm	38	41	44	44	50	52	54
Overall length	mm	168	175	182	182	204	210	214
Drive	C.M.	1	1	1	1	2	2	2
<b>8982G</b>	<b>Each</b>	<b>66,40</b>	<b>76,60</b>	<b>69,20</b>	<b>82,30</b>	<b>87,90</b>	<b>87,90</b>	<b>97,20</b>
Ø	mm	<b>20</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>28</b>		
Cutting edge length	mm	60	68	68	70	71		
Overall length	mm	228	268	268	273	277		
Drive	C.M.	2	3	3	3	3		
<b>8982G</b>	<b>Each</b>	<b>101,00</b>	<b>146,00</b>	<b>146,00</b>	<b>154,00</b>	<b>172,00</b>		

Product running out of stock.

**MACHINE TAPER REAMERS**

8990G



HSS

Orig. Dürer - Art. 391-51  
Suitable for reaming nail holes.  
HSS – DIN 311.  
With 5 ground, helicoidal cutting edges.  
25° left-hand spiral flute.  
For holes with K11 precision. Morse taper shank.

Ø	mm	<b>6,4*</b>	<b>7,4*</b>	<b>10</b>	<b>11*</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>
Ø for entrance length	mm	4,5x19	5,2x22	7x30	7,7x33	8,4x39	9,1x39	9,8x42	10,5x45	11,2x48	11,9x51	12,6x58	13,3x58
Cutting edge length	mm	75	80	95	100	105	105	115	125	135	135	145	145
Overall length	mm	151	156	171	176	199	199	209	219	229	251	261	261
Drive	C.M.	1	1	1	1	2	2	2	2	2	3	3	3
<b>8990G</b>	<b>Each</b>	<b>84,10</b>	<b>84,10</b>	<b>92,10</b>	<b>95,70</b>	<b>97,10</b>	<b>98,70</b>	<b>98,70</b>	<b>107,00</b>	<b>107,00</b>	<b>127,00</b>	<b>137,00</b>	<b>150,00</b>
Ø	mm	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>30</b>		
Ø for entrance length	mm	14x62	14,7x62	15,4x66	16,1x66	16,8x72	17,5x72	18,2x72	18,9x78	19,6x78	21x78		
Cutting edge length	mm	155	155	165	165	180	180	180	195	195	195		
Overall length	mm	271	271	281	281	296	296	296	311	311	311		
Drive	C.M.	3	3	3	3	3	3	3	3	3	3		
<b>8990G</b>	<b>Each</b>	<b>150,00</b>	<b>168,00</b>	<b>168,00</b>	<b>188,00</b>	<b>188,00</b>	<b>216,00</b>	<b>216,00</b>	<b>236,00</b>	<b>236,00</b>	<b>282,00</b>		

\* Sizes running out of stock.



**MACHINE SHELL REAMERS**

**Orig. Dürr - Art. 314-81**

COBALT HSS-E – DIN 219.

Shank hole, taper 1:30 – Right-hand cutting. Tolerance H7.

Helicoidal cutting edges.

Ø	mm	25	26	27	28	30	32	34	35
Cutting edge length	mm	32	32	32	32	32	36	36	36
Drive bore Ø	mm	13	13	13	13	13	16	16	16
Overall length	mm	45	45	45	45	45	50	50	50
<b>9000G</b>	<b>Each</b>	<b>176,00</b>	<b>183,00</b>	<b>219,00</b>	<b>191,00</b>	<b>185,00</b>	<b>231,00</b>	<b>227,00</b>	<b>224,00</b>
Ø	mm	36	38	40	42	45	47	48	50
Cutting edge length	mm	40	40	40	40	45	45	45	45
Drive bore Ø	mm	19	19	19	19	22	22	22	22
Overall length	mm	56	56	56	56	63	63	63	63
<b>9000G</b>	<b>Each</b>	<b>262,00</b>	<b>259,00</b>	<b>254,00</b>	<b>250,00</b>	<b>346,00</b>	<b>341,00</b>	<b>334,00</b>	<b>329,00</b>
Ø	mm	52	55	58	60	65	70	75	80
Cutting edge length	mm	50	50	50	50	56	56	63	63
Drive bore Ø	mm	27	27	27	27	32	32	40	40
Overall length	mm	71	71	71	71	80	80	90	90
<b>9000G</b>	<b>Each</b>	<b>436,00</b>	<b>421,00</b>	<b>495,00</b>	<b>443,00</b>	<b>606,00</b>	<b>673,00</b>	<b>905,00</b>	<b>1.040,00</b>



**9000G**



**HSS-E**

**Orig. Dürr - Art. 314-91**

Product description as Art. 9000G

45° helicoidal cutting edges.

Ø	mm	25	26	27	28	30	32	34	35
Cutting edge length	mm	32	32	32	32	32	36	36	36
Drive bore Ø	mm	13	13	13	13	13	16	16	16
Overall length	mm	45	45	45	45	45	50	50	50
<b>9003G</b>	<b>Each</b>	<b>255,00</b>	<b>255,00</b>	<b>255,00</b>	<b>250,00</b>	<b>241,00</b>	<b>285,00</b>	<b>275,00</b>	<b>270,00</b>
Ø	mm	36	38	40	42	45	47	48	50
Cutting edge length	mm	40	40	40	40	45	45	45	45
Drive bore Ø	mm	19	19	19	19	22	22	22	22
Overall length	mm	56	56	56	56	63	63	63	63
<b>9003G</b>	<b>Each</b>	<b>356,00</b>	<b>347,00</b>	<b>338,00</b>	<b>328,00</b>	<b>482,00</b>	<b>474,00</b>	<b>468,00</b>	<b>458,00</b>
Ø	mm	52	55	58	60	65	70	75	80
Cutting edge length	mm	50	50	50	50	56	56	63	63
Drive bore Ø	mm	27	27	27	27	32	32	40	40
Overall length	mm	71	71	71	71	80	80	90	90
<b>9003G</b>	<b>Each</b>	<b>650,00</b>	<b>642,00</b>	<b>625,00</b>	<b>616,00</b>	<b>788,00</b>	<b>750,00</b>	<b>972,00</b>	<b>1.080,00</b>



**9003G**



**HSS-E**

**Orig. Dürr - Art. 289**

CONICAL SHANKS FOR REAMERS ART. 9000 G – 9003 G

Manufactured according to DIN 217.

Conical reaming on the shaft 1:30.

Morse taper shank.

Rated Ø	mm	13	16	19	22	27	32	40
For reamers 9000G e 9003G	mm	25-30	32-35	36-42	45-50	52-60	65-70	75-80
Overall length	mm	250	261	298	312	359	376	396
Drive	C.M.	3	3	4	4	5	5	5
<b>9010G</b>	<b>Each</b>	<b>133,00</b>	<b>147,00</b>	<b>172,00</b>	<b>193,00</b>	<b>284,00</b>	<b>347,00</b>	<b>431,00</b>



**9010G**



**EXPANDING HAND REAMERS**

**Prod. SCU**

Small expansion model – DIN 859.

HSS. Hand use.

Ground, helicoidal cutting edges.

With drive board and cylindrical shank.

Ø	mm	5	6	7	8	9	10	11	12
Cutting edge length	mm	30	33	38	42	46	50	51	56
Overall length	mm	87	93	107	115	124	133	142	152
Square drive	mm	4	4,5	5,6	6,3	7,1	8	9	10
Expansion	mm	0,1	0,1	0,1	0,1	0,1	0,1	0,15	0,15
<b>9013</b>	<b>Each</b>	<b>57,20</b>	<b>68,50</b>	<b>77,60</b>	<b>86,90</b>	<b>95,90</b>	<b>101,00</b>	<b>115,00</b>	<b>124,00</b>
Ø	mm	13	14	15	16	17	18	19	20
Cutting edge length	mm	56	61	61	67	67	68	68	75
Overall length	mm	152	163	163	177	177	188	188	201
Square drive	mm	10	11,2	11,2	12,5	12,5	14	14	16
Expansion	mm	0,15	0,15	0,15	0,2	0,2	0,2	0,2	0,2
<b>9013</b>	<b>Each</b>	<b>142,00</b>	<b>151,00</b>	<b>165,00</b>	<b>187,00</b>	<b>210,00</b>	<b>219,00</b>	<b>240,00</b>	<b>240,00</b>



**9013**



**HSS**

9016G




HSS

Orig. Dürr - Art. 317-21

Small expansion model – DIN 859.

HSS. Hand use.

Helicoidal cutting edges.

With drive board and cylindrical shank.

The max expansion capacity is equal to 1% of the indicated Ø.

Ø	mm	6	8	9	10	12	13	14	15
Cutting edge length	mm	33	42	46	50	56	56	61	61
Overall length	mm	93	115	124	133	152	152	163	163
Square drive	mm	4,5	6,3	7,1	8	10	10	11,2	11,2
<b>9016G</b>	<b>Each</b>	<b>83,90</b>	<b>104,00</b>	<b>113,00</b>	<b>112,00</b>	<b>130,00</b>	<b>160,00</b>	<b>153,00</b>	<b>158,00</b>
Ø	mm	16	18	19	20	22	24	25	30
Cutting edge length	mm	67	68	68	75	82	85	85	94
Overall length	mm	175	188	188	201	215	231	231	247
Square drive	mm	12,5	14	14	16	18	20	20	22,4
<b>9016G</b>	<b>Each</b>	<b>196,00</b>	<b>208,00</b>	<b>211,00</b>	<b>221,00</b>	<b>265,00</b>	<b>295,00</b>	<b>290,00</b>	<b>377,00</b>

Size mm 9 running out of stock.

## ADJUSTABLE REAMERS

9020




Prod. SCU

With SHORT blades, parallel expansion.

Cutting edges in special steel (90 Mn Cr V – AISI 02), ground. Hand use.

With drive board and cylindrical shank.

Expansion	mm	8-9	9-10	10-11	11-12	12-13,5	13,5-15,5	15,5-18	18-21	21-24	24-27,5	27,5-31,5	31,5-37
Cutting edges length	mm	38	40	46	48	50	55	66	66	77	88	88	106
Overall length	mm	110	120	125	130	140	155	170	180	200	225	235	277
Blades	No	4	4	4	4	5	5	5	5	5	5	5	5
<b>9020</b>	<b>Each</b>	<b>92,20</b>	<b>94,60</b>	<b>94,60</b>	<b>95,90</b>	<b>98,70</b>	<b>106,00</b>	<b>116,00</b>	<b>124,00</b>	<b>139,00</b>	<b>157,00</b>	<b>192,00</b>	<b>240,00</b>

Expansion	mm	37-45	45-55	55-65
Cutting edges length	mm	106	130	130
Overall length	mm	290	320	350
Blades	No	5	6	6
<b>9020</b>	<b>Each</b>	<b>353,00</b>	<b>500,00</b>	<b>631,00</b>

Spare blade for Art. 9020.

Expansion	mm	8-9	9-10	10-11	11-12	12-13,5	13,5-15,5	15,5-18	18-21	21-24	24-27,5	27,5-31,5	31,5-37
<b>O9020</b>	<b>Per set</b>	<b>51,50</b>	<b>56,80</b>	<b>58,40</b>	<b>58,40</b>	<b>69,50</b>	<b>71,20</b>	<b>75,50</b>	<b>79,10</b>	<b>80,70</b>	<b>89,30</b>	<b>103,00</b>	<b>123,00</b>
Expansion	mm	37-45	45-55	55-65									
<b>O9020</b>	<b>Per set</b>	<b>185,00</b>	<b>243,00</b>	<b>279,00</b>									

9023




With LONG blades, parallel expansion.

Cutting edges in special steel (90 Mn Cr V – AISI 02), ground. Hand use.

With drive board and cylindrical shank.

Expansion	mm	10,5-12	12-13,5	13,5-15,5	15,5-17,5	17,5-19,5	19,5-21,5	21,5-24,5	27,5-31,5	31,5-37	37-45	45-55	55-65
Cutting edges length	mm	64	70	82	92	100	112	122	142	152	167	182	182
Overall length	mm	170	180	200	220	235	245	265	315	335	375	425	425
Blades	No	5	5	5	5	5	5	5	5	5	5	6	6
<b>9023</b>	<b>Each</b>	<b>152,00</b>	<b>159,00</b>	<b>177,00</b>	<b>197,00</b>	<b>202,00</b>	<b>212,00</b>	<b>227,00</b>	<b>291,00</b>	<b>356,00</b>	<b>479,00</b>	<b>608,00</b>	<b>694,00</b>

Product running out of stock.

Spare blade for Art. 9023.

Expansion	mm	10,5-12	12-13,5	13,5-15,5	15,5-17,5	17,5-19,5	19,5-21,5	21,5-24,5	24,5-27,5	27,5-31,5	31,5-37	37-45	45-55	55-65
<b>O9023</b>	<b>Per set</b>	<b>91,10</b>	<b>94,40</b>	<b>97,10</b>	<b>101,00</b>	<b>103,00</b>	<b>107,00</b>	<b>119,00</b>	<b>127,00</b>	<b>156,00</b>	<b>178,00</b>	<b>233,00</b>	<b>292,00</b>	<b>342,00</b>

Product running out of stock.

9025




With SHORT blades and centring conical bush.

For combined or deep holes.

Cutting edges in special steel (90 Mn Cr V – AISI 02), ground. Hand use.

With drive board and cylindrical shank.

Expansion	mm	11-12	12-13,5	13,5-15,5	15,5-18	18-21	21-24	24-27,5	27,5-31,5	31,5-37	37-45	45-55
Cutting edges length	mm	48	50	55	66	66	77	88	88	106	106	130
Overall length	mm	208	230	265	310	340	365	405	425	475	500	560
Blades	No	5	5	5	5	5	5	5	5	5	5	6
<b>9025</b>	<b>Each</b>	<b>156,00</b>	<b>167,00</b>	<b>170,00</b>	<b>180,00</b>	<b>201,00</b>	<b>211,00</b>	<b>231,00</b>	<b>278,00</b>	<b>360,00</b>	<b>534,00</b>	<b>719,00</b>

Product running out of stock.

Spare blade for Art. 9025.

Expansion	mm	10-11	11-12	12-13,5	13,5-15,5	15,5-18	18-21	21-24	24-27,5	27,5-31,5	31,5-37	37-45	45-55	55-65
<b>O9025</b>	<b>Per set</b>	<b>58,40</b>	<b>58,40</b>	<b>69,50</b>	<b>71,20</b>	<b>75,50</b>	<b>79,10</b>	<b>80,70</b>	<b>89,30</b>	<b>103,00</b>	<b>123,00</b>	<b>185,00</b>	<b>243,00</b>	<b>279,00</b>

Product running out of stock.

**SETS OF ADJUSTABLE REAMERS**
**Prod. SCU**

Complete assortment of 11 reamers Art. 9020 ranging from 8 to 31.5mm.  
In plastic case.

**9030** Each **1.400,00**

**SCU**
**9030**


Complete assortment of 9 reamers Art. 9023 ranging from 10.5 to 31.5mm.  
In plastic case.

**9035** Each **1.970,00**

Product running out of stock.

**SCU**
**9035**


Complete assortment of 11 reamers Art. 9025 ranging from 11 to 55mm.  
In wooden box.

**9040** Each **3.300,00**

Product running out of stock.

**SCU**
**9040**

**MACHINE TAPS WITH DRILL**
**Orig. Völkel - Art. 370**

Tap with drill for quick drilling and tapping in one operation. In HSS-E steel. For through holes.  
Right-hand use. M coarse metric thread, according to DIN 13. Normal chamfer.

Ø	mm	3	4	5	6	8	10	12
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Overall length	mm	56	63	71	80	95	106	115
Tip Ø	mm	2,5	3,3	4,2	5	6,8	8,5	10,2
Shank Ø	mm	3	4	5	6	8	10	12
<b>9088</b>	<b>Each</b>	<b>22,40</b>	<b>22,40</b>	<b>22,40</b>	<b>24,90</b>	<b>28,50</b>	<b>31,20</b>	<b>36,80</b>

**VÖLKEL**  
TAPPING SOLUTIONS

**9088**

**M HSS-E**
**Orig. Völkel - Art. 672**

Set including tap, drill bit and countersink (90°) for quick drilling, tapping and countersinking in only one operation.

1/4" - C6.3 hex drive to be used with screws, drills, etc.

HSS-G for materials with resistance up to 600 N/mm<sup>2</sup>. The thickness of the material must not exceed the diameter (1xD). For through holes. Right-hand use. ISO Metric Thread - According to DIN 13 (DIN 352).

Ø	mm	3	4	5	6	8	10
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5
Overall length	mm	36	39	41	44	50	59
Tip Ø	mm	2,5	3,3	4,2	5	6,8	8,5
<b>9089G</b>	<b>Each</b>	<b>9,30</b>	<b>9,30</b>	<b>9,30</b>	<b>9,30</b>	<b>12,80</b>	<b>15,40</b>

**VÖLKEL**  
TAPPING SOLUTIONS


**9089G**

**M HSSG**

## ASSORTMENT OF MACHINE TAPS COMBINED WITH BIT

9089L



1/4"



Orig. Völkel - Art. 67200

Contents:

1 pcs. per size taps Art. 9089 G Ø 3-4-5-6-8-10mm

1 magnetic 1/4 hex shank C 6.3, for screwdrivers, drills, etc. with 1/4 E 6.3 hex drive.

In plastic case.

9089L	Each	66,80
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M HSSG

## SHORT TAPS FOR SCREWERS

9092



1/4"



M HSSG

Orig. Völkel - Art. 670

Short type, 1/4 - C 6.3hex drive suitable for use with screwers, drills, etc.

HSS, class HSSG.

Right-hand use.

Metric ISO Thread - According to DIN 13 (DIN 352).

Ø	mm	3	4	5	6	7	8	9	10
Pitch	mm	0,5	0,7	0,8	1	1	1,25	1,25	1,5
Overall length	mm	33	35	36	39	37,5	40	40,5	41
Thread length	mm	11	12	15	18	16	19	18	21
9092	Each	4,80	4,80	5,96	5,96	7,26	8,56	12,10	10,10

9092B



1/4"



MF HSSG

Orig. Völkel - Art. 677

Product description as Art. 9092

METRIC ISO FINE THREAD - According to DIN 13 (DIN 2181).

Ø	mm	4	5	6	7	8	8	8
Pitch	mm	0,5	0,5	0,75	0,75	0,5	0,75	1
Overall length	mm	35	36	39	37,5	40	40	40
Thread length	mm	12	15	18	16	19	19	19
9092B	Each	6,40	7,26	7,26	9,58	9,58	9,58	9,58

Ø	mm	9	10	10
Pitch	mm	1	1	1,25
Overall length	mm	40,5	41	41
Thread length	mm	18	21	21
9092B	Each	12,10	12,10	12,10

9092E



1/4"



BSP HSSG

Orig. Völkel - Art. 67870

Product description as Art. 9092

CYLINDRICAL GAS THREAD G (BSP) -According to DIN ISO 228-1 (DIN 5157).

Ø	inches	1/8
Threads per inch	No	28
Overall length	mm	40,5
Thread length	mm	17
9092E	Each	9,58

**HAND TAPS**

**Orig. Völkel - Art. 670**

Double-threaded type. Buster on one side and finisher on the other. Axial hexagonal hole on both sides for use with Allen wrenches or ratched and internal hexagonal sockets. Hexagonal body for use also with open end wrenches.

HSSG.

Right-hand use.

METRIC ISO THREAD - According to DIN 13 (DIN 357).

Ø	mm	11	12	14	16	18	20	22
Pitch	mm	1.5	1.75	2	2	2.5	2.5	2.5
Overall length	mm	70	70	70	70	80	80	80
Thread length	mm	22	22	22	22	24	24	24
Body hexagon	mm	8	8	10	10	13	13	15
Bore hexagon	mm	4	4	4	4	5	6	6

<b>9092L</b>	<b>Each</b>	<b>20,40</b>	<b>20,40</b>	<b>23,30</b>	<b>26,90</b>	<b>29,10</b>	<b>32,10</b>	<b>40,70</b>
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Ø	mm	24	27	30	33	36	39	42
Pitch	mm	3	3	3.5	3.5	4	4	4.5
Overall length	mm	90	90	90	100	100	110	110
Thread length	mm	27	27	27	29	29	32	27
Body hexagon	mm	15	19	19	24	24	27	27
Bore hexagon	mm	8	8	10	10	10	12	12

<b>9092L</b>	<b>Each</b>	<b>47,90</b>	<b>74,10</b>	<b>96,40</b>	<b>128,00</b>	<b>154,00</b>	<b>199,00</b>	<b>225,00</b>
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**9092L**



**M HSSG**

**Orig. Völkel - Art. 677**

Product description as Art. 9092L

METRIC ISO FINE THREAD - According to DIN 13 (DIN 2181).

Ø	mm	12	12	12	14	14	14	16
Pitch	mm	1	1,25	1,5	1	1,25	1,5	1
Overall length	mm	70	70	70	70	70	70	70
Thread length	mm	22	22	22	22	22	22	22
Body hexagon	mm	8	8	8	10	10	10	12
Bore hexagon	mm	4	4	4	4	4	4	4

<b>9092P</b>	<b>Each</b>	<b>23,10</b>	<b>23,10</b>	<b>21,20</b>	<b>35,20</b>	<b>26,70</b>	<b>23,10</b>	<b>39,20</b>
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Ø	mm	16	18	18	18	20	22	22
Pitch	mm	1,5	1	1,5	2	1,5	1,5	2
Overall length	mm	70	80	80	80	80	80	80
Thread length	mm	22	24	24	24	24	24	24
Body hexagon	mm	12	13	13	13	15	17	17
Bore hexagon	mm	4	5	5	5	6	6	6

<b>9092P</b>	<b>Each</b>	<b>28,20</b>	<b>42,40</b>	<b>32,10</b>	<b>42,40</b>	<b>39,20</b>	<b>55,20</b>	<b>55,20</b>
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Ø	mm	24	24	26	27	30	33	36
Pitch	mm	1,5	2	1,5	2	2	2	3
Overall length	mm	90	90	90	90	90	100	100
Thread length	mm	27	27	27	27	27	29	29
Body hexagon	mm	19	17	19	19	24	24	27
Bore hexagon	mm	8	8	8	8	10	10	10

<b>9092P</b>	<b>Each</b>	<b>56,10</b>	<b>74,10</b>	<b>109,00</b>	<b>128,00</b>	<b>151,00</b>	<b>183,00</b>	<b>194,00</b>
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**9092P**



**MF HSSG**

**Orig. Völkel - Art. 678**

Product description as Art. 9092L

CYLINDRICAL GAS THREAD G (BSP) -According to DIN ISO 228-1 (DIN 5157).

Ø	inches	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
Threads per inch	No	19	19	14	14	11	11	11	11
Overall length	mm	70	70	80	90	100	110	140	160
Thread length	mm	22	22	24	27	29	27	42	47
Body hexagon	mm	8	12	15	19	24	32	36	41
Bore hexagon	mm	4	4	6	8	10	12	17	19

<b>9092R</b>	<b>Each</b>	<b>17,50</b>	<b>23,80</b>	<b>32,10</b>	<b>47,90</b>	<b>81,30</b>	<b>141,00</b>	<b>186,00</b>	<b>384,00</b>
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**9092R**



**BSP HSSG**

**HSS-CO 5% STANDARD TAPS**

**Orig. Völkel - Art. 67020**

Contents:

1 pcs. per size, taps Art. 9092 Ø 3-4-5-6-8-10mm

1 pcs. per size, bits Art. 8665 Ø 2.5-3.3-4.2-5-6-8-8.5mm

1 magnetic 1/4 hex shank.

In plastic case.

<b>9093</b>	<b>Each</b>	<b>61,10</b>
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**9093**



**M HSSG**

**9093A**  **M HSSG**

**Orig. Völkel - Art. 48601**

The set contains:

No.1 tap for each size Art. 9092 Ø 3-4-5-6-8-10mm

No.1 tap for each size Art. 9092 L Ø 12-14-16-18-20mm

In case.

**9093A** Each **208,00**
**9093E**  **MF HSSG**

**Orig. Völkel - Art. 48605**

The set contains:

No.1 tap for each size Art. 9092 B Ø x pitch 4x0.5 - 5x0.5 - 6x0.75 - 8x0.75 - 8x1 - 10x1mm

No.1 tap for each size Art. 9092 P Ø x thread 12x1 - 12x1.5 - 14x1.25 - 14x1.5 - 16x1.5 - 18x1.5 - 20x1.5mm

In case.

**9093E** Each **272,00**
**9093L**  **BSP HSSG**

**Orig. Völkel - Art. 48608**

The set contains:

No.1 tap for each size Art. 9092 E inch 1/8

No.1 tap for each size Art. 9092 R inch 1/4-3/8-1/2-3/4-1

In case.

**9093L** Each **256,00**
**9093P**  **M HSSG**

**Orig. Völkel - Art. 48621**

The set contains:

No.1 tap for each size Art. 9092 Ø 3-4-5-6-8-10mm

No.1 tap for each size Art. 9092 L Ø 12-14-16-18-20mm

No.1 die for each size Art. 9350 G Ø 3-4-5-6-8-10-12-14-16-18-20mm

In case.

**9093P** Each **384,00**
**9093R**  **M HSSG**

**Orig. Völkel - Art. 48622**

The set contains:

No.1 tap for each size Art. 9092 Ø 3-4-5-6-8-10mm

No.1 tap for each size Art. 9092 L Ø 12-14-16-18-20-22-24mm

No.1 die for each size Art. 9350 G Ø 3-4-5-6-8-10-12-14-16-18-20-22-24mm

In case.

**9093R** Each **559,00**
**9093T**  **MF HSSG**

**Orig. Völkel - Art. 48625**

The set contains:

No.1 tap for each size Art. 9092 B Ø x pitch 4x0.5 - 5x0.5 - 6x0.75 - 8x0.75 - 8x1 - 10x1mm

No.1 tap for each size Art. 9092 P Ø x thread 12x1 - 12x1.5 - 14x1.25 - 14x1.5 - 16x1.5 - 18x1.5 - 20x1.5mm

No.1 die for each size Art. 9357 G Ø x thread 4x0.5 - 5x0.5 - 6x0.75 - 8x0.75 - 8x1 - 10x1 - 12x1 - 12x1.5 - 14x1.25 - 14x1.5 - 16x1.5 - 18x1.5 - 20x1.5mm

In case.

**9093T** Each **543,00**

**Orig. Völkel - Art. 48628**

The set contains:

No.1 tap Art. 9092 E inch 1/8

No.1 tap for each size Art. 9092 R inch 1/4-3/8-1/2-3/4-1

No.1 die for each size Art. 9368 G inch 1/8-1/4-3/8-1/2-3/4-1

In case.

9093V	Each	479,00
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**BSP HSSG**

**9093V**

**HAND TAPS**

**Orig. Völkel - Art. 573 - Art. 573-3**

COBALT HSS-E

Ground and polished after hardening. RIGHT-HAND USE.

For high-resistance steel, abrasive steel and stainless steel.

ISO METRIC THREAD – According to DIN 13 (DIN 352).

M Coarse Metric – Tolerance ISO2/6H. 3pcs set.

Ø	mm	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>
Pitch	mm	0.5	0.7	0.8	1	1.25	1.5	1.75
Overall length	mm	40	45	50	50	56	70	75
Thread length	mm	11	13	16	19	22	24	29
Shank Ø	mm	3.5	4.5	6	6	6	7	9
Shank square	mm	2.7	3.4	4.9	4.9	4.9	5.5	7
<b>9095G</b>	<b>Per set</b>	<b>17,10</b>	<b>17,50</b>	<b>18,30</b>	<b>18,30</b>	<b>20,70</b>	<b>27,90</b>	<b>36,60</b>
<b>9097G</b>	<b>Per tap</b>	<b>5,66</b>	<b>5,82</b>	<b>6,10</b>	<b>6,10</b>	<b>6,90</b>	<b>9,30</b>	<b>12,20</b>



**M HSS-E**

**9095G**

**9097G**

Ø	mm	<b>14</b>	<b>16</b>	<b>18</b>	<b>20</b>	<b>22</b>	<b>24</b>
Pitch	mm	2	2	2.5	2.5	2.5	3
Overall length	mm	80	80	95	95	100	110
Thread length	mm	30	32	40	40	40	50
Shank Ø	mm	11	12	14	16	18	18
Shank square	mm	9	9	11	12	14.5	14.5
<b>9095G</b>	<b>Per set</b>	<b>45,80</b>	<b>54,90</b>	<b>69,70</b>	<b>80,60</b>	<b>105,00</b>	<b>122,00</b>
<b>9097G</b>	<b>Per tap</b>	<b>15,30</b>	<b>18,30</b>	<b>23,30</b>	<b>26,90</b>	<b>34,90</b>	<b>40,70</b>

**Orig. Völkel - Art. 273 - Art. 273-3**

HSSG taps.

Ground and polished after hardening.

RIGHT-HAND USE.

ISO METRIC THREAD – According to DIN 13 (DIN 352).

M Coarse Metric – Tolerance ISO 2/6H. 3Pcs set.



**M HSSG**

**9100G**

**9102G**

Ø	mm	<b>1</b>	<b>1.1</b>	<b>1.2</b>	<b>1.4</b>	<b>1.6</b>	<b>1.8</b>	<b>2</b>	<b>2.2</b>	<b>2.3</b>	<b>2.5</b>	<b>2.6</b>	<b>3</b>	<b>3.5</b>
Pitch	mm	0.25	0.25	0.25	0.3	0.35	0.35	0.4	0.45	0.4	0.45	0.45	0.5	0.6
Overall length	mm	32	32	32	32	32	32	36	36	36	40	40	40	45
Thread length	mm	5.5	5.5	5.5	7	8	8	8	9	9	9	9	11	13
Shank Ø	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.8	2.8	2.8	2.8	2.8	3.5	4
Shank square	mm	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.7	3
<b>9100G</b>	<b>Per set</b>	<b>42,30</b>	<b>42,30</b>	<b>42,30</b>	<b>42,30</b>	<b>42,30</b>	<b>42,30</b>	<b>17,50</b>	<b>17,50</b>	<b>17,50</b>	<b>17,50</b>	<b>17,50</b>	<b>10,10</b>	<b>14,80</b>
<b>9102G</b>	<b>Per tap</b>	<b>14,10</b>	<b>14,10</b>	<b>14,10</b>	<b>14,10</b>	<b>14,10</b>	<b>14,10</b>	<b>5,82</b>	<b>5,82</b>	<b>5,82</b>	<b>5,82</b>	<b>5,82</b>	<b>3,34</b>	<b>4,94</b>

Ø	mm	<b>4</b>	<b>4.5</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>18</b>
Pitch	mm	0.7	0.75	0.8	1	1	1.25	1.25	1.5	1.5	1.75	2	2	2.5
Overall length	mm	45	50	50	50	50	56	63	70	70	75	80	80	95
Thread length	mm	13	16	16	19	19	22	22	24	24	29	30	32	40
Shank Ø	mm	4.5	6	6	6	6	6	7	7	8	9	11	12	14
Shank square	mm	3.4	4.9	4.9	4.9	4.9	4.9	5.5	5.5	6.2	7	9	9	11
<b>9100G</b>	<b>Per set</b>	<b>10,10</b>	<b>14,80</b>	<b>10,90</b>	<b>10,90</b>	<b>17,90</b>	<b>12,10</b>	<b>22,70</b>	<b>15,70</b>	<b>28,80</b>	<b>21,40</b>	<b>25,70</b>	<b>31,40</b>	<b>41,40</b>
<b>9102G</b>	<b>Per tap</b>	<b>3,34</b>	<b>4,94</b>	<b>3,64</b>	<b>3,64</b>	<b>5,96</b>	<b>4,00</b>	<b>7,56</b>	<b>5,22</b>	<b>9,58</b>	<b>7,12</b>	<b>8,56</b>	<b>10,50</b>	<b>13,80</b>

Ø	mm	<b>20</b>	<b>22</b>	<b>24</b>	<b>27</b>	<b>30</b>	<b>33</b>	<b>36</b>	<b>42</b>	<b>45</b>	<b>48</b>	<b>52</b>
Pitch	mm	2.5	2.5	3	3	3.5	3.5	4	4.5	4.5	5	5
Overall length	mm	95	100	110	110	125	125	150	150	160	180	180
Thread length	mm	40	40	50	50	56	56	63	63	70	75	75
Shank Ø	mm	16	18	18	20	22	25	28	32	36	36	40
Shank square	mm	12	14.5	14.5	16	18	20	22	24	29	29	32
<b>9100G</b>	<b>Per set</b>	<b>46,60</b>	<b>58,10</b>	<b>68,10</b>	<b>112,00</b>	<b>145,00</b>	<b>192,00</b>	<b>231,00</b>	<b>338,00</b>	<b>410,00</b>	<b>580,00</b>	<b>580,00</b>
<b>9102G</b>	<b>Per tap</b>	<b>15,60</b>	<b>19,30</b>	<b>22,70</b>	<b>37,10</b>	<b>48,20</b>	<b>63,90</b>	<b>77,10</b>	<b>113,00</b>	<b>137,00</b>	<b>194,00</b>	<b>194,00</b>

Prices in EURO - VAT not included

**13**

9103G



LEFT USAGE

M HSSG

Orig. Völkel - Art. 270

Product description as Art. 9100G

LEFT-HAND USE.

ISO METRIC THREAD – According to DIN 13 (DIN 352).

M Coarse Metric – Tolerance ISO 2/6H. 3Pcs set.

Ø	mm	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>							
Pitch	mm	0.5	0.7	0.8	1	1.25	1.5	1.75							
Overall length	mm	40	45	50	50	56	70	75							
Thread length	mm	11	13	16	19	22	24	29							
Shank Ø	mm	3.5	4.5	6	6	6	7	9							
Shank square	mm	2.7	3.4	4.9	4.9	4.9	5.5	7							
<b>9103G</b>	<b>Per set</b>	<b>15,70</b>	<b>15,70</b>	<b>17,90</b>	<b>18,80</b>	<b>20,10</b>	<b>25,70</b>	<b>35,30</b>							
Ø	mm	<b>14</b>	<b>16</b>	<b>18</b>	<b>20</b>	<b>22</b>	<b>24</b>								
Pitch	mm	2	2	2.5	2.5	2.5	3								
Overall length	mm	80	80	95	95	100	110								
Thread length	mm	30	32	40	40	40	50								
Shank Ø	mm	11	12	14	16	18	18								
Shank square	mm	9	9	11	12	14.5	14.5								
<b>9103G</b>	<b>Per set</b>	<b>42,30</b>	<b>51,10</b>	<b>67,10</b>	<b>75,40</b>	<b>91,50</b>	<b>114,00</b>								

9105G  
9107G



MF HSSG

Orig. Völkel

Product description as Art. 9100G

RIGHT-HAND USE.

ISO FINE METRIC THREAD – According to DIN 13 (DIN 2181).

MF Fine Metric – Tolerance ISO 2/6H. 2Pcs set.

Ø	mm	<b>3</b>	<b>3.5</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>10</b>	<b>10</b>
Pitch	mm	<b>0.35</b>	<b>0.35</b>	<b>0.35</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>	<b>0.75</b>	<b>0.75</b>	<b>0.5</b>	<b>0.75</b>	<b>1</b>	<b>1</b>	<b>0.5</b>	<b>0.75</b>	<b>1</b>
Overall length	mm	40	45	45	45	50	50	50	50	50	56	63	63	63	63	63
Thread length	mm	9	10	10	10	12	14	14	14	19	19	22	20	20	20	20
Shank Ø	mm	3.5	4	4.5	4.5	6	6	6	6	6	6	7	7	7	7	7
Shank square	mm	2.7	3	3.4	3.4	4.9	4.9	4.9	4.9	4.9	4.9	5.5	5.5	5.5	5.5	5.5
Supplier code		263	263	263	263	263	263	263	263	263	263	263	263	263	263	263
<b>9105G</b>	<b>Per set</b>	<b>17,80</b>	<b>17,80</b>	<b>17,80</b>	<b>17,80</b>	<b>17,80</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>17,80</b>	<b>17,80</b>	<b>17,80</b>	<b>16,10</b>
<b>9107G</b>	<b>Per tap</b>	<b>8,86</b>	<b>8,86</b>	<b>8,86</b>	<b>8,86</b>	<b>8,86</b>	<b>7,98</b>	<b>7,98</b>	<b>7,98</b>	<b>7,98</b>	<b>7,98</b>	<b>7,98</b>	<b>8,86</b>	<b>8,86</b>	<b>8,86</b>	<b>7,98</b>
Ø	mm	<b>10</b>	<b>11</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>16</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>20</b>
Pitch	mm	<b>1.25</b>	<b>1</b>	<b>1</b>	<b>1.25</b>	<b>1.5</b>	<b>1</b>	<b>1.25</b>	<b>1.5</b>	<b>1</b>	<b>1</b>	<b>1.5</b>	<b>1</b>	<b>1.5</b>	<b>2</b>	<b>1</b>
Overall length	mm	70	63	70	70	70	70	70	70	70	70	70	80	80	80	80
Thread length	mm	24	20	22	22	22	22	22	22	22	22	22	22	22	22	22
Shank Ø	mm	7	8	9	9	9	11	11	11	12	12	12	14	14	14	16
Shank square	mm	5.5	6.2	7	7	7	9	9	9	9	9	9	11	11	11	12
Supplier code		263	263	263	263	263	263	263	263	263	263	263	263	263	263	263
<b>9105G</b>	<b>Per set</b>	<b>17,80</b>	<b>23,10</b>	<b>23,10</b>	<b>23,10</b>	<b>21,20</b>	<b>35,20</b>	<b>26,70</b>	<b>23,10</b>	<b>39,20</b>	<b>39,20</b>	<b>28,20</b>	<b>42,40</b>	<b>32,10</b>	<b>42,40</b>	<b>53,20</b>
<b>9107G</b>	<b>Per tap</b>	<b>8,86</b>	<b>11,50</b>	<b>11,50</b>	<b>11,50</b>	<b>10,60</b>	<b>17,60</b>	<b>13,40</b>	<b>11,50</b>	<b>19,60</b>	<b>19,60</b>	<b>14,10</b>	<b>21,20</b>	<b>16,10</b>	<b>21,20</b>	<b>26,60</b>
Ø	mm	<b>20</b>	<b>20</b>	<b>22</b>	<b>22</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>27</b>	<b>28</b>	<b>30</b>	<b>30</b>	<b>30</b>
Pitch	mm	<b>1.5</b>	<b>2</b>	<b>1.5</b>	<b>2</b>	<b>1</b>	<b>1.5</b>	<b>2</b>	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>	<b>2</b>	<b>1.5</b>	<b>1</b>	<b>1.5</b>	<b>2</b>
Overall length	mm	80	80	80	80	90	90	90	90	90	90	90	90	90	90	90
Thread length	mm	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
Shank Ø	mm	16	16	18	18	18	18	18	18	18	20	20	20	22	22	22
Shank square	mm	12	12	14.5	14.5	14.5	14.5	14.5	14.5	14.5	16	16	16	18	18	18
Supplier code		263	263	263	263	265	265	265	265	265	265	265	265	265	265	265
<b>9105G</b>	<b>Per set</b>	<b>39,20</b>	<b>53,20</b>	<b>55,20</b>	<b>55,20</b>	<b>74,10</b>	<b>56,10</b>	<b>74,10</b>	<b>109,00</b>	<b>109,00</b>	<b>109,00</b>	<b>128,00</b>	<b>128,00</b>	<b>151,00</b>	<b>151,00</b>	<b>151,00</b>
<b>9107G</b>	<b>Per tap</b>	<b>19,60</b>	<b>26,60</b>	<b>27,60</b>	<b>27,60</b>	<b>37,10</b>	<b>28,10</b>	<b>37,10</b>	<b>54,50</b>	<b>54,50</b>	<b>54,50</b>	<b>63,90</b>	<b>63,90</b>	<b>75,50</b>	<b>75,50</b>	<b>75,50</b>
Ø	mm	<b>32</b>	<b>33</b>	<b>33</b>	<b>34</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>39</b>	<b>39</b>	<b>39</b>	<b>40</b>	<b>40</b>	<b>40</b>	
Pitch	mm	<b>1.5</b>	<b>1.5</b>	<b>2</b>	<b>1.5</b>	<b>1</b>	<b>1,5</b>	<b>2</b>	<b>3</b>	<b>1.5</b>	<b>2</b>	<b>3</b>	<b>1.5</b>	<b>2</b>	<b>3</b>	
Overall length	mm	90	100	100	100	100	100	125	125	110	125	125	110	125	125	
Thread length	mm	22	25	25	25	25	25	40	40	25	40	40	25	40	40	
Shank Ø	mm	22	25	25	28	28	28	28	28	32	32	32	32	32	32	
Shank square	mm	18	20	20	22	22	22	22	22	24	24	24	24	24	24	
Supplier code		265	265	265	265	265	265	265	265	265	265	265	265	265	265	
<b>9105G</b>	<b>Per set</b>	<b>151,00</b>	<b>151,00</b>	<b>183,00</b>	<b>183,00</b>	<b>194,00</b>	<b>194,00</b>	<b>194,00</b>	<b>194,00</b>	<b>239,00</b>	<b>239,00</b>	<b>239,00</b>	<b>239,00</b>	<b>239,00</b>	<b>239,00</b>	
<b>9107G</b>	<b>Per tap</b>	<b>75,50</b>	<b>75,50</b>	<b>91,50</b>	<b>91,50</b>	<b>96,60</b>	<b>96,60</b>	<b>96,60</b>	<b>96,60</b>	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>	<b>120,00</b>	

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Prices in EURO - VAT not included



**Orig. Völkel - Art. 260**

Product description as Art. 9100G

RIGHT-HAND USE.

ISO FINE METRIC THREAD – According to DIN 13 (DIN 2181).

MF Fine Metric – Tolerance ISO 2/6H. 2pcs set.

Ø	mm	<b>6</b>	<b>8</b>	<b>8</b>	<b>10</b>	<b>10</b>	<b>12</b>	<b>12</b>
Pitch	mm	<b>0.75</b>	<b>0.75</b>	<b>1</b>	<b>1</b>	<b>1.25</b>	<b>1</b>	<b>1.25</b>
Overall length	mm	50	50	56	63	70	70	70
Thread length	mm	14	19	22	20	24	22	22
Shank Ø	mm	6	6	6	7	7	9	9
Shank square	mm	4,9	4,9	4,9	5,5	5,5	7	7
<b>9110G</b>	<b>Per set</b>	<b>23,80</b>	<b>23,80</b>	<b>23,80</b>	<b>23,80</b>	<b>26,70</b>	<b>34,60</b>	<b>34,60</b>

Ø	mm	<b>12</b>	<b>14</b>	<b>14</b>	<b>16</b>	<b>16</b>	<b>18</b>	<b>20</b>
Pitch	mm	<b>1.5</b>	<b>1.25</b>	<b>1.5</b>	<b>1</b>	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>
Overall length	mm	70	70	70	70	70	80	80
Thread length	mm	22	22	22	22	22	22	22
Shank Ø	mm	9	11	11	12	12	14	16
Shank square	mm	7	9	9	9	9	11	12
<b>9110G</b>	<b>Per set</b>	<b>32,10</b>	<b>39,80</b>	<b>34,60</b>	<b>58,70</b>	<b>42,10</b>	<b>47,60</b>	<b>58,70</b>

Ø	mm	<b>22</b>	<b>24</b>	<b>24</b>	<b>30</b>	<b>30</b>
Pitch	mm	<b>1.5</b>	<b>1.5</b>	<b>2</b>	<b>1.5</b>	<b>2</b>
Overall length	mm	80	90	90	90	90
Thread length	mm	22	22	22	22	22
Shank Ø	mm	18	18	18	22	22
Shank square	mm	14,5	14,5	14,5	18	18
<b>9110G</b>	<b>Per set</b>	<b>76,70</b>	<b>84,80</b>	<b>111,00</b>	<b>226,00</b>	<b>226,00</b>


**9110G**


LEFT USAGE

**MF HSSG**
**Orig. Völkel - Art. 223 - Art. 223-3**

Product description as Art. 9100G

RIGHT-HAND USE.

BSW WHITWORTH THREAD – According to BS 84 (DIN 352).

3pcs set.

Ø	inches	<b>1/8</b>	<b>5/32</b>	<b>3/16</b>	<b>7/32</b>	<b>1/4</b>	<b>5/16</b>	<b>3/8</b>
Threads per inch	No	40	32	24	24	20	18	16
Overall length	mm	40	45	50	50	50	56	70
Thread length	mm	12	14	18	18	19	22	24
Shank Ø	mm	3,5	4,5	6	6	6	6	7
Shank square	mm	2,7	3,4	4,9	4,9	4,9	4,9	5,5
<b>9115G</b>	<b>Per set</b>	<b>17,10</b>	<b>17,10</b>	<b>17,10</b>	<b>17,10</b>	<b>17,10</b>	<b>18,80</b>	<b>21,40</b>
<b>9117G</b>	<b>Per tap</b>	<b>5,66</b>	<b>5,66</b>	<b>5,66</b>	<b>5,66</b>	<b>5,66</b>	<b>6,24</b>	<b>7,12</b>

Ø	inches	<b>7/16</b>	<b>1/2</b>	<b>9/16</b>	<b>5/8</b>	<b>3/4</b>	<b>7/8</b>	<b>1</b>
Threads per inch	No	14	12	12	11	10	9	8
Overall length	mm	70	75	80	80	95	100	110
Thread length	mm	24	29	30	32	40	40	50
Shank Ø	mm	8	9	11	12	14	18	18
Shank square	mm	6,2	7	9	9	11	14,5	14,5
<b>9115G</b>	<b>Per set</b>	<b>26,60</b>	<b>31,80</b>	<b>41,40</b>	<b>47,10</b>	<b>62,30</b>	<b>84,10</b>	<b>95,80</b>
<b>9117G</b>	<b>Per tap</b>	<b>8,86</b>	<b>10,60</b>	<b>13,80</b>	<b>15,70</b>	<b>20,80</b>	<b>28,10</b>	<b>32,10</b>


**9115G  
9117G**

**BSW HSSG**
**Orig. Völkel - Art. 227 - Art. 227-3**

Product description as Art. 9100G

RIGHT-HAND USE.

BSF FINE WHITWORTH THREAD – BS 84 standard (DIN 2181).

2pcs set.

Ø	inches	<b>3/16</b>	<b>1/4</b>	<b>5/16</b>	<b>3/8</b>	<b>7/16</b>	<b>1/2</b>	<b>5/8</b>
Threads per inch	No	32	26	22	20	18	16	14
Overall length	mm	50	50	56	63	63	75	80
Thread length	mm	14	18	22	22	22	24	28
Shank Ø	mm	6	6	6	7	8	9	12
Shank square	mm	4,9	4,9	4,9	5,5	6,2	7	9
<b>9120G</b>	<b>Per set</b>	<b>11,40</b>	<b>11,40</b>	<b>12,50</b>	<b>14,30</b>	<b>17,80</b>	<b>21,20</b>	<b>31,40</b>
<b>9122G</b>	<b>Per tap</b>	<b>5,66</b>	<b>5,66</b>	<b>6,24</b>	<b>7,12</b>	<b>8,86</b>	<b>10,60</b>	<b>15,70</b>

Ø	inches	<b>3/4</b>	<b>7/8</b>	<b>1</b>
Threads per inch	No	12	11	10
Overall length	mm	95	100	110
Thread length	mm	32	36	40
Shank Ø	mm	14	18	18
Shank square	mm	11	14,5	14,5
<b>9120G</b>	<b>Per set</b>	<b>41,60</b>	<b>56,10</b>	<b>63,90</b>
<b>9122G</b>	<b>Per tap</b>	<b>20,80</b>	<b>28,10</b>	<b>32,10</b>


**9120G  
9122G**

**BSF HSSG**

9125G  
9127G



UNC HSSG

Orig. Völkel - Art. 233 - Art. 233-3

Product description as Art. 9100G

RIGHT-HAND USE.

UNC AMERICAN THREAD according to ANSI-B.1.1 – Tolerance 2 B- (DIN 352).

3pcs set.

Thread UNC		No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 8
Threads per inch	No	64	56	48	40	40	32	32
Ø	mm	1,85	2,18	2,52	2,85	3,18	3,5	4,17
Overall length	mm	32	36	36	40	40	45	45
Thread length	mm	10	11	11	12	12	14	14
Shank Ø	mm	2,5	2,8	2,8	3,5	3,5	4	4,5
Shank square	mm	2,1	2,1	2,1	2,7	2,7	3	3,4
<b>9125G</b>	<b>Per set</b>	<b>52,70</b>	<b>52,70</b>	<b>52,70</b>	<b>31,80</b>	<b>31,80</b>	<b>31,80</b>	<b>31,80</b>
<b>9127G</b>	<b>Per tap</b>	<b>17,60</b>	<b>17,60</b>	<b>17,60</b>	<b>10,60</b>	<b>10,60</b>	<b>10,60</b>	<b>10,60</b>
Thread UNC		No. 10	No. 12	1/4	5/16	3/8	7/16	1/2
Threads per inch	No	24	24	20	18	16	14	13
Ø	mm	4,83	5,49	6,35	7,94	9,52	11,11	12,7
Overall length	mm	50	50	50	56	70	70	75
Thread length	mm	16	18	19	22	24	24	29
Shank Ø	mm	6	6	6	6	7	8	9
Shank square	mm	4,9	4,9	4,9	4,9	5,5	6,2	7
<b>9125G</b>	<b>Per set</b>	<b>31,80</b>	<b>31,80</b>	<b>17,10</b>	<b>18,80</b>	<b>21,40</b>	<b>26,60</b>	<b>31,80</b>
<b>9127G</b>	<b>Per tap</b>	<b>10,60</b>	<b>10,60</b>	<b>5,66</b>	<b>6,24</b>	<b>7,12</b>	<b>8,86</b>	<b>10,60</b>
Thread UNC		9/16	5/8	3/4	7/8	1		
Threads per inch	No	12	11	10	9	8		
Ø	mm	14,29	15,87	19,05	22,23	25,4		
Overall length	mm	80	80	95	100	110		
Thread length	mm	30	32	40	40	50		
Shank Ø	mm	11	12	14	18	18		
Shank square	mm	9	9	11	14,5	14,5		
<b>9125G</b>	<b>Per set</b>	<b>41,40</b>	<b>47,10</b>	<b>62,30</b>	<b>84,10</b>	<b>95,80</b>		
<b>9127G</b>	<b>Per tap</b>	<b>13,80</b>	<b>15,70</b>	<b>20,80</b>	<b>28,10</b>	<b>32,10</b>		

9130G  
9132G



UNF HSSG

Orig. Völkel - Art. 243 - Art. 243-3

Product description as Art. 9100G

RIGHT-HAND USE.

UNF AMERICAN THREAD according to ANSI-B 1.1 – Tolerance 2 B – (DIN 2181).

2pcs set.

Thread UNF		No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 8
Threads per inch	No	72	64	56	48	44	40	36
Ø	mm	1,85	2,18	2,52	2,85	3,18	3,5	4,17
Overall length	mm	32	32	32	36	36	40	40
Thread length	mm	9	10	10	11	11	12	12
Shank Ø	mm	2,8	2,8	2,8	3,5	3,5	4,5	4,5
Shank square	mm	2,1	2,1	2,1	2,7	2,7	3,4	3,4
<b>9130G</b>	<b>Per set</b>	<b>35,20</b>	<b>35,20</b>	<b>35,20</b>	<b>21,20</b>	<b>21,20</b>	<b>21,20</b>	<b>21,20</b>
<b>9132G</b>	<b>Per tap</b>	<b>17,60</b>	<b>17,60</b>	<b>17,60</b>	<b>10,60</b>	<b>10,60</b>	<b>10,60</b>	<b>10,60</b>
Thread UNF		No. 10	No. 12	1/4	5/16	3/8	7/16	1/2
Threads per inch	No	32	28	28	24	24	20	20
Ø	mm	4,83	5,49	6,35	7,94	9,52	11,11	12,7
Overall length	mm	45	50	50	56	63	63	75
Thread length	mm	14	14	18	22	22	22	22
Shank Ø	mm	6	6	6	6	7	8	9
Shank square	mm	4,9	4,9	4,9	4,9	5,5	6,2	7
<b>9130G</b>	<b>Per set</b>	<b>21,20</b>	<b>21,20</b>	<b>11,40</b>	<b>12,50</b>	<b>14,30</b>	<b>17,80</b>	<b>21,20</b>
<b>9132G</b>	<b>Per tap</b>	<b>10,60</b>	<b>10,60</b>	<b>5,66</b>	<b>6,24</b>	<b>7,12</b>	<b>8,86</b>	<b>10,60</b>
Thread UNF		9/16	5/8	3/4	7/8	1		
Threads per inch	No	18	18	16	14	12		
Ø	mm	14,29	15,87	19,05	22,23	25,4		
Overall length	mm	80	80	95	100	110		
Thread length	mm	28	28	32	36	40		
Shank Ø	mm	11	12	14	18	18		
Shank square	mm	9	9	11	14,5	14,5		
<b>9130G</b>	<b>Per set</b>	<b>27,60</b>	<b>31,40</b>	<b>41,60</b>	<b>56,10</b>	<b>63,90</b>		
<b>9132G</b>	<b>Per tap</b>	<b>13,80</b>	<b>15,70</b>	<b>20,80</b>	<b>28,10</b>	<b>32,10</b>		

**Orig. Völkel - Art. 253 - Art. 253-2**

Product description as Art. 9100G

RIGHT-HAND USE.

CYLINDRICAL GAS THREAD G (BSP) according to DIN ISO 228 -1- (DIN 5157).

2pcs set.

Ø	inches	1/8	1/4	3/8	1/2	5/8	3/4	7/8
Threads per inch	No	28	19	19	14	14	14	14
Ø	mm	9,73	13,16	16,66	20,96	22,91	26,44	30,20
Overall length	mm	63	70	70	80	80	90	90
Thread length	mm	20	22	22	22	22	22	22
Shank Ø	mm	7	11	12	16	18	20	22
Shank square	mm	5,5	9	9	12	14,5	16	18

<b>9135G</b>	<b>Per set</b>	<b>14,60</b>	<b>16,10</b>	<b>23,80</b>	<b>32,80</b>	<b>47,90</b>	<b>47,90</b>	<b>81,30</b>
<b>9137G</b>	<b>Per tap</b>	<b>7,26</b>	<b>7,98</b>	<b>11,90</b>	<b>16,40</b>	<b>24,10</b>	<b>24,10</b>	<b>40,70</b>

Ø	inches	1	1.1/8	1.1/4	1.3/8	1.1/2	1.3/4	2
Threads per inch	No	11	11	11	11	11	11	11
Ø	mm	33,25	37,90	41,91	44,32	47,80	53,75	59,61
Overall length	mm	100	125	125	140	140	140	160
Thread length	mm	25	40	40	40	40	40	40
Shank Ø	mm	25	28	32	36	36	40	45
Shank square	mm	20	22	24	29	29	32	35

<b>9135G</b>	<b>Per set</b>	<b>81,30</b>	<b>141,00</b>	<b>141,00</b>	<b>192,00</b>	<b>192,00</b>	<b>384,00</b>	<b>384,00</b>
<b>9137G</b>	<b>Per tap</b>	<b>40,70</b>	<b>70,40</b>	<b>70,40</b>	<b>95,80</b>	<b>95,80</b>	<b>192,00</b>	<b>192,00</b>


**9135G**  
**9137G**

**BSP HSSG**
**MACHINE AND HAND TAPS**
**Orig. Völkel - Art. 635**

HSSG taps.

Ground and polished after hardening.

RIGHT-HAND USE.

NPT AMERICAN THREAD. Conicity: 1:16. Short chamfer.

Ø	inches	1/8	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
Threads per inch	No	27	18	18	14	14	11,1/2	11,1/2	11,1/2	11,1/2
Overall length	mm	65	70	75	80	100	110	125	140	160
Thread length	mm	19	25	26	31	33	38	41	42	44
Shank Ø	mm	7	11	12	16	20	25	32	36	36
Shank square	mm	5,5	9	9	12	16	20	24	29	29

<b>9140G</b>	<b>Each</b>	<b>17,60</b>	<b>19,50</b>	<b>26,90</b>	<b>33,60</b>	<b>44,30</b>	<b>70,40</b>	<b>106,00</b>	<b>199,00</b>	<b>244,00</b>
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**9140G**

**NPT HSSG**
**Orig. Völkel - Art. 637 - Art. 975**

Product description as Art. 9140G

RIGHT HAND USE

GAS THREAD-TAPERED BSPT. Taper: 1:16, 55°. Short chamfer.

Ø	inches	1/8	1/4	3/8	1/2	3/4	1	1.1/4
Threads per inch	No	28	19	19	14	14	11	11
Overall length	mm	65	70	75	80	100	110	105
Thread length	mm	19	25	26	31	33	38	45
Shank Ø	mm	7	11	12	16	20	25	32
Shank square	mm	5,5	9	9	12	16	20	26

<b>9141G</b>	<b>Each</b>	<b>10,50</b>	<b>12,10</b>	<b>19,20</b>	<b>24,10</b>	<b>35,20</b>	<b>53,10</b>	<b>106,00</b>
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**9141G**

**BSPT HSSG**

The measure 1.1/4 has the right chamfer.

**Orig. Völkel - Art. 657**

Product description as Art. 9140G

RIGHT HAND USE

PG THREAD DIN 40430 compliant.

Ø	PG	7	9	11	13,5	16	21	29
Threads per inch	No	20	18	18	18	18	16	16
Overall length	mm	70	70	80	80	80	90	100
Thread length	mm	22	22	22	22	22	22	25
Shank Ø	mm	9	12	14	16	18	22	28
Shank square	mm	7	9	11	12	14,5	18	22

<b>9142G</b>	<b>Each</b>	<b>14,10</b>	<b>18,60</b>	<b>30,50</b>	<b>36,30</b>	<b>43,60</b>	<b>59,60</b>	<b>98,70</b>
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**9142G**

**PG HSSG**

## MACHINE LONG TAPS

9145G




M HSS-E

Orig. Völkel - Art. 371

HSS-E taps.

Ground and polished after hardening.

RIGHT-HAND USE.

ISO METRIC THREAD according to DIN 13 (DIN 357) – M Coarse Metric – Tolerance ISO2/6H. Single tap.

Ø	mm	3	4	5	6	8	10	12
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Overall length	mm	70	90	100	110	125	140	180
Thread length	mm	22	25	28	32	40	45	50
Shank Ø	mm	2,2	2,8	3,5	4,5	6	7	9
Shank square	mm	-	2,1	2,7	3,4	4,9	5,5	7
<b>9145G</b>	<b>Each</b>	<b>18,30</b>	<b>18,30</b>	<b>19,60</b>	<b>19,60</b>	<b>22,70</b>	<b>29,80</b>	<b>41,40</b>
Ø	mm	14	16	18	20	22	24	
Pitch	mm	2	2	2,5	2,5	2,5	3	
Overall length	mm	200	200	220	250	280	280	
Thread length	mm	56	63	63	70	80	80	
Shank Ø	mm	11	12	14	16	18	18	
Shank square	mm	9	9	11	12	14,5	14,5	
<b>9145G</b>	<b>Each</b>	<b>51,60</b>	<b>63,20</b>	<b>71,20</b>	<b>78,40</b>	<b>92,90</b>	<b>106,00</b>	

## MACHINE SHORT TAPS

9150G




M HSS-E

Orig. Völkel - Art. 615

HSSGE taps. Ground and polished after hardening.

RIGHT-HAND USE.

ISO METRIC THREAD according to DIN 13 (DIN 352) – M Coarse Metric – Tolerance ISO 2/6H.

Correct chamfer. For metals R 900 N/mm<sup>2</sup>. Through holes.

Ø	mm	3	4	5	6	8	10	12
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Overall length	mm	40	45	48	50	56	70	75
Thread length	mm	11	13	16	19	22	24	29
Shank Ø	mm	3,5	4,5	6	6	6	7	9
Shank square	mm	2,7	3,4	4,9	4,9	4,9	5,5	7
<b>9150G</b>	<b>Each</b>	<b>5,08</b>	<b>5,08</b>	<b>5,22</b>	<b>5,66</b>	<b>6,68</b>	<b>7,98</b>	<b>11,40</b>

9151G




M HSS-E

Orig. Völkel - Art. 619

Product description as Art. 9150G

Correct chamfer. ALLZWECK type. Alternate threads for metals up to R 900 N/mm<sup>2</sup>. Through holes.

Ø	mm	3	4	5	6	8	10	12
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Overall length	mm	40	45	48	50	56	70	75
Thread length	mm	11	13	16	19	22	24	29
Shank Ø	mm	3,5	4,5	6	6	6	7	9
Shank square	mm	2,7	3,4	4,9	4,9	4,9	5,5	7
<b>9151G</b>	<b>Each</b>	<b>7,98</b>	<b>7,98</b>	<b>8,28</b>	<b>8,28</b>	<b>8,86</b>	<b>11,10</b>	<b>13,80</b>

9154G




M HSS-E

Orig. Völkel - Art. 617

Product description as Art. 9150G

Semi-short chamfer. Helicoidal type with approx. 35° flute. For metals up to R 900 N/mm<sup>2</sup>. Blind holes.

Ø	mm	3	4	5	6	8	10	12
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Overall length	mm	40	45	48	50	56	70	75
Thread length	mm	11	13	16	19	22	24	29
Shank Ø	mm	3,5	4,5	6	6	6	7	9
Shank square	mm	2,7	3,4	4,9	4,9	4,9	5,5	7
<b>9154G</b>	<b>Each</b>	<b>6,40</b>	<b>6,40</b>	<b>6,82</b>	<b>7,12</b>	<b>8,14</b>	<b>9,58</b>	<b>12,40</b>

**MACHINE TAPS**
**Orig. Völkel**

REINFORCED SHANK - RIGHT-HAND USE

ISO METRIC THREAD according to DIN 13 (DIN 371) – M Coarse Metric – Tolerance ISO2/6H.

HSS-E. Universal type. Short chamfer, blind and through holes.

Ø	mm	2	2,2	2,3	2,5	2,6	3	3,5
Pitch	mm	0,4	0,45	0,4	0,45	0,45	0,5	0,6
Overall length	mm	45	45	45	50	50	56	56
Thread length	mm	8	8	9	9	9	11	13
Shank Ø	mm	2,8	2,8	2,8	2,8	2,8	3,5	4
Shank square	mm	2,1	2,1	2,1	2,1	2,1	2,7	3
Supplier code		374	-	374	374	374	374	374
<b>9162G</b>	<b>Each</b>	<b>9,44</b>	<b>19,10</b>	<b>9,44</b>	<b>9,44</b>	<b>9,44</b>	<b>7,70</b>	<b>8,72</b>

Ø	mm	4	5	6	7	8	10
Pitch	mm	0,7	0,8	1	1	1,25	1,5
Overall length	mm	63	70	80	80	90	100
Thread length	mm	13	16	19	19	22	24
Shank Ø	mm	4,5	6	6	7	8	10
Shank square	mm	3,4	4,9	4,9	5,5	6,2	8
Supplier code		374	374	374	374	374	374
<b>9162G</b>	<b>Each</b>	<b>7,70</b>	<b>8,14</b>	<b>8,14</b>	<b>11,40</b>	<b>9,88</b>	<b>12,20</b>

Size mm 2,2 running out of stock.

**9162G**

**M HSS-E**
**Orig. Völkel - Art. 334**

REINFORCED SHANK - LEFT-HAND USE

ISO METRIC THREAD according to DIN 13 (DIN 371) Metric Coarse M - Tolerance ISO2/6H.

HSS-E. Short chamfer. Multi-purpose. For blind and through holes.

Ø	mm	3	4	5	6	8	10
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5
Overall length	mm	56	63	70	80	90	100
Thread length	mm	11	13	16	19	22	24
Shank Ø	mm	3,5	4,5	6	6	8	10
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8
<b>9164G</b>	<b>Each</b>	<b>12,80</b>	<b>12,80</b>	<b>13,40</b>	<b>13,40</b>	<b>16,10</b>	<b>18,20</b>

**9164G**

**LEFT USAGE**
**M HSS-E**
**Orig. Völkel - Art. 375**

REINFORCED SHANK - RIGHT-HAND USE

ISO METRIC THREAD according to DIN 13 (DIN 371) – M Coarse Metric – Tolerance ISO2/6H.

 HSS-E. Correct chamfer. For metals up to R 900 N/mm<sup>2</sup>. Through holes.

Ø	mm	2	2,5	3	4	5	6	8	10
Pitch	mm	0,4	0,45	0,5	0,7	0,8	1	1,25	1,5
Overall length	mm	45	50	56	63	70	80	90	100
Thread length	mm	8	9	11	13	16	19	22	24
Shank Ø	mm	2,8	2,8	3,5	4,5	6	6	8	10
Shank square	mm	2,1	2,1	2,7	3,4	4,9	4,9	6,2	8
<b>9170G</b>	<b>Each</b>	<b>10,20</b>	<b>10,20</b>	<b>7,98</b>	<b>7,98</b>	<b>8,56</b>	<b>8,56</b>	<b>10,30</b>	<b>12,80</b>

On request we supply taps from M 1 a M 2,5.

**9170G**

**M HSS-E**
**Orig. Völkel - Art. 320**

Product description as Art. 9170G

 HSS-E. Correct chamfer. For metals up to R 900 N/mm<sup>2</sup>, alloyed and unalloyed. Through holes.

Type long and extra long.

Type		3	4	4A	4B	5	5A	5B
Ø	mm	3	4	4	4	5	5	5
Pitch	mm	0,5	0,7	0,7	0,7	0,8	0,8	0,8
Overall length	mm	100	100	120	150	100	120	150
Thread length	mm	11	13	13	13	16	16	16
Shank Ø	mm	3,5	4,5	4,5	4,5	6	6	6
Shank square	mm	2,7	3,4	3,4	3,4	4,9	4,9	4,9
<b>9172G</b>	<b>Each</b>	<b>11,20</b>	<b>11,20</b>	<b>11,80</b>	<b>12,40</b>	<b>11,80</b>	<b>12,80</b>	<b>13,80</b>

Type		6	6A	6B	8	8A	8B	10
Ø	mm	6	6	6	8	8	8	10
Pitch	mm	1	1	1	1,25	1,25	1,25	1,5
Overall length	mm	100	120	150	100	120	150	100
Thread length	mm	19	19	19	22	22	22	24
Shank Ø	mm	6	6	6	8	8	8	10
Shank square	mm	4,9	4,9	4,9	6,2	6,2	6,2	8
<b>9172G</b>	<b>Each</b>	<b>11,80</b>	<b>12,80</b>	<b>13,80</b>	<b>14,10</b>	<b>14,80</b>	<b>16,90</b>	<b>14,80</b>

Type		10A	10B	12	12A	12B
Ø	mm	10	10	12	12	12
Pitch	mm	1,5	1,5	1,75	1,75	1,75
Overall length	mm	120	150	100	120	150
Thread length	mm	24	24	29	29	29
Shank Ø	mm	10	10	12	12	12
Shank square	mm	8	8	9	9	9
<b>9172G</b>	<b>Each</b>	<b>16,90</b>	<b>20,40</b>	<b>16,70</b>	<b>19,60</b>	<b>24,10</b>

**9172G**  
*new*

**M HSS-E**

9174G




M HSS-E TIN

Orig. Völkel - Art. 315 TIN

Product description as Art. 9170G

HSS-E-TIN. Correct chamfer. For metals up to R 900 N/mm<sup>2</sup>. Through holes. TIN coating.

Ø	mm	3	4	5	6	8	10
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5
Overall length	mm	56	63	70	80	90	100
Thread length	mm	11	13	16	19	22	24
Shank Ø	mm	3,5	4,5	6	6	8	10
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8
<b>9174G</b>	<b>Each</b>	<b>12,50</b>	<b>12,50</b>	<b>13,10</b>	<b>14,10</b>	<b>17,20</b>	<b>22,30</b>

9180G



INOX



M HSS-E VAP

Orig. Völkel - Art. 315 VAP

Product description as Art. 9170G

HSS-E. Correct chamfer. For metals up to R 900 N/mm<sup>2</sup>, stainless steel. Through holes. Vaporized.

Ø	mm	3	4	5	6	8	10
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5
Overall length	mm	56	63	70	80	90	100
Thread length	mm	11	13	16	19	22	24
Shank Ø	mm	3,5	4,5	6	6	8	10
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8
<b>9180G</b>	<b>Each</b>	<b>8,78</b>	<b>8,78</b>	<b>9,44</b>	<b>9,44</b>	<b>11,40</b>	<b>14,10</b>

9186G




M HSS-E

Orig. Völkel - Art. 376

Product description as Art. 9170G

HSS-E. Semi-short chamfer. Helicoidal type with approx. 15° flute, for metals up to R 900 N/mm<sup>2</sup>. Blind holes.

Ø	mm	3	4	5	6	8	10
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5
Overall length	mm	56	63	70	80	90	100
Thread length	mm	11	13	16	19	22	24
Shank Ø	mm	3,5	4,5	6	6	8	10
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8
<b>9186G</b>	<b>Each</b>	<b>10,50</b>	<b>10,50</b>	<b>11,20</b>	<b>11,20</b>	<b>13,70</b>	<b>16,70</b>

9187G




M HSS-E

Orig. Völkel - Art. 379

Product description as Art. 9170G

HSS-E. Proper chamfer. Allzweck type with alternate threads, for metals up to R 900 N/mm<sup>2</sup>, steel and steel alloys. Through holes.

Ø	mm	3	4	5	6	8	10
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5
Overall length	mm	56	63	70	80	90	100
Thread length	mm	11	13	16	19	22	24
Shank Ø	mm	3,5	4,5	6	6	8	10
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8
<b>9187G</b>	<b>Each</b>	<b>10,60</b>	<b>10,60</b>	<b>11,50</b>	<b>11,50</b>	<b>14,10</b>	<b>16,70</b>

9188G




M HSS-E

Orig. Völkel - Art. 377

Product description as Art. 9170G

HSSE-E. Type with approx. 35° flute, for deep threads with dia. more than 1 1/2. Short chamfer. For metals up to R 900 N/mm<sup>2</sup>.

Deep blind holes.

Ø	mm	3	4	5	6	8	10
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5
Overall length	mm	56	63	70	80	90	100
Thread length	mm	6	7	8	10	14	16
Shank Ø	mm	3,5	4,5	6	6	8	10
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8
<b>9188G</b>	<b>Each</b>	<b>9,58</b>	<b>9,58</b>	<b>10,50</b>	<b>10,50</b>	<b>12,50</b>	<b>15,40</b>

On request we supply taps from M 1 to M 2,5.

**Orig. Völkel - Art. 320**

Product description as Art. 9170G

 HSS-E. Type with helix at approximately 35°, for threads deeper than 1 1/2 the diameter. Short chamfer. For metals up to R 900 N / mm<sup>2</sup>, alloyed and unalloyed.

Deep blind holes.

Type long and extra long.

Type		3	4	4A	4B	5	5A	5B
Ø	mm	3	4	4	4	5	5	5
Pitch	mm	0,5	0,7	0,7	0,7	0,8	0,8	0,8
Overall length	mm	100	100	120	150	100	120	150
Thread length	mm	6	7	7	7	8	8	8
Shank Ø	mm	3,5	4,5	4,5	4,5	6	6	6
Shank square	mm	2,7	3,4	3,4	3,4	4,9	4,9	4,9
<b>9190G</b>	<b>Each</b>	<b>13,40</b>	<b>13,40</b>	<b>13,80</b>	<b>14,30</b>	<b>14,30</b>	<b>15,30</b>	<b>16,40</b>

Type		6	6A	6B	8	8A	8B	10
Ø	mm	6	6	6	8	8	8	10
Pitch	mm	1	1	1	1,25	1,25	1,25	1,5
Overall length	mm	100	120	150	100	120	150	100
Thread length	mm	10	10	10	14	14	14	16
Shank Ø	mm	6	6	6	8	8	8	10
Shank square	mm	4,9	4,9	4,9	6,2	6,2	6,2	8
<b>9190G</b>	<b>Each</b>	<b>14,30</b>	<b>15,30</b>	<b>16,40</b>	<b>16,60</b>	<b>17,50</b>	<b>19,30</b>	<b>18,00</b>

Type		10A	10B	12	12A	12B
Ø	mm	10	10	12	12	12
Pitch	mm	1,5	1,5	1,75	1,75	1,75
Overall length	mm	120	150	100	120	150
Thread length	mm	16	16	18	18	18
Shank Ø	mm	10	10	12	12	12
Shank square	mm	8	8	9	9	9
<b>9190G</b>	<b>Each</b>	<b>19,90</b>	<b>23,40</b>	<b>18,20</b>	<b>21,20</b>	<b>25,40</b>


**9190G**  
new

**M HSS-E**
**Orig. Völkel - Art. 317 VAP**

Product description as Art. 9170G

 HSS-E. Type with approximately 35° flute for very deep threads with diameter exceeding 1 1/2. Short chamfer. For metals up to R 900 N/mm<sup>2</sup>, steel and steel alloys, stainless steels.

Very deep blind holes.

Vaporised.

Ø	mm	3	4	5	6	8	10
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5
Overall length	mm	56	63	70	80	90	100
Thread length	mm	6	7	8	10	14	16
Shank Ø	mm	3,5	4,5	6	6	8	10
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8
<b>9192G</b>	<b>Each</b>	<b>10,60</b>	<b>10,60</b>	<b>11,50</b>	<b>11,50</b>	<b>13,80</b>	<b>17,10</b>



INOX

**9192G**

**M HSS-E VAP**
**Orig. Völkel - Art. 317 TIN**

Product description as Art. 9170G

 HSS-E-TIN. Type with approx. 35° flute, for deep threads with dia. more than 1 1/2. Short chamfer. For metals up to R 900 N/mm<sup>2</sup>. Deep blind holes.

TIN coating.

Ø	mm	3	4	5	6	8	10
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5
Overall length	mm	56	63	70	80	90	100
Thread length	mm	6	7	8	10	14	16
Shank Ø	mm	3,5	4,5	6	6	8	10
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8
<b>9196G</b>	<b>Each</b>	<b>14,10</b>	<b>14,10</b>	<b>15,10</b>	<b>15,90</b>	<b>19,30</b>	<b>24,90</b>


**9196G**

**M HSS-E TIN**
**Orig. Völkel - Art. 356 VAP**

 REINFORCED SHANK  
RIGHT-HAND USE

ISO METRIC THREAD according to DIN 13 (DIN 371) Metric Coarse M - Tolerance ISO3X/6GX.

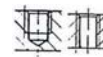
HSS-E. Short chamfer. Roll taps with coolant ejection channels, chipless, for aluminium and its alloys. Through and blind holes.

Vaporized.

Ø	mm	3	4	5	6	8	10
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5
Overall length	mm	56	63	70	80	90	100
Thread length	mm	11	13	16	19	22	24
Shank Ø	mm	3,5	4,5	6	6	8	10
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8
<b>9201G</b>	<b>Each</b>	<b>16,20</b>	<b>18,20</b>	<b>19,90</b>	<b>19,90</b>	<b>23,80</b>	<b>27,60</b>



INOX

**9201G**

**M HSS-E VAP**

9202G



INOX



M HSS-E TIN

Orig. Völkel - Art. 356 TIN

Product description as Art. 9201G

HSS-E. Short chamfer. Perfekt type, chipless. For aluminium and aluminium alloys, metals up to R 900 N/mm<sup>2</sup>, stainless steel. Roll taps with coolant ejection channels. Through and blind holes. TIN coating.

Ø	mm	3	4	5	6	8	10
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5
Overall length	mm	56	63	70	80	90	100
Thread length	mm	11	13	16	19	22	24
Shank Ø	mm	3,5	4,5	6	6	8	10
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8
<b>9202G</b>	<b>Each</b>	<b>19,20</b>	<b>21,10</b>	<b>22,70</b>	<b>23,60</b>	<b>28,50</b>	<b>34,40</b>

9203G




M HSS-E

Orig. Völkel - Art. 356-6G

REINFORCED SHANK

RIGHT-HAND USE

ISO METRIC THREAD according to DIN 13 (DIN 371) Metric Coarse M - Tolerance ISO3X/6GX.

HSS-E. Short chamfer. Roll taps with coolant ejection channels, chipless, for aluminium and its alloys, brass, copper, bronze, zinc. Through and blind holes.

Ø	mm	3	4	5	6	8	10
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5
Overall length	mm	56	63	70	80	90	100
Thread length	mm	11	13	16	19	22	24
Shank Ø	mm	3,5	4,5	6	6	8	10
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8
<b>9203G</b>	<b>Each</b>	<b>15,40</b>	<b>17,30</b>	<b>19,10</b>	<b>19,10</b>	<b>22,50</b>	<b>26,10</b>

9212G




M HSS-E

Orig. Völkel - Art. 384

REDUCED SHANK

LEFT-HAND USE

ISO METRIC THREAD according to DIN 13 (DIN 376)- Metric Coarse M - Tolerance ISO2/6H.

HSS-E. Short chamfer. Universal type. Blind and through holes.

Ø	mm	3	4	5	6	8	10	12
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Overall length	mm	56	63	70	80	90	100	110
Thread length	mm	11	13	16	19	22	24	29
Shank Ø	mm	2,2	2,8	3,5	4,5	6	7	9
Shank square	mm	-	2,1	2,7	3,4	4,9	5,5	7
<b>9212G</b>	<b>Each</b>	<b>8,42</b>	<b>8,42</b>	<b>8,86</b>	<b>8,86</b>	<b>10,60</b>	<b>12,80</b>	<b>14,80</b>

Ø	mm	14	16	18	20	22	24	27
Pitch	mm	2	2	2,5	2,5	2,5	3	3
Overall length	mm	110	110	125	140	140	160	160
Thread length	mm	30	32	34	34	34	38	38
Shank Ø	mm	11	12	14	16	18	18	20
Shank square	mm	9	9	11	12	14,5	14,5	16
<b>9212G</b>	<b>Each</b>	<b>19,10</b>	<b>21,40</b>	<b>30,50</b>	<b>41,40</b>	<b>47,20</b>	<b>50,40</b>	<b>80,60</b>

Ø	mm	30	33	36
Pitch	mm	3,5	3,5	4
Overall length	mm	180	180	200
Thread length	mm	45	50	56
Shank Ø	mm	22	25	28
Shank square	mm	18	20	22
<b>9212G</b>	<b>Each</b>	<b>84,20</b>	<b>117,00</b>	<b>192,00</b>

9213G




LEFT USAGE

M HSS-E

Orig. Völkel - Art. 344

REDUCED SHANK

LEFT-HAND USE

ISO METRIC THREAD according to DIN 13 (DIN 376)- Metric Coarse M - Tolerance ISO2/6H.

HSS-E. Short chamfer. Multi-purpose. Blind and through holes.

Ø	mm	12	14	16	18	20	22	24
Pitch	mm	1,75	2	2	2,5	2,5	2,5	3
Overall length	mm	110	110	110	125	140	140	160
Thread length	mm	29	30	32	34	34	34	38
Shank Ø	mm	9	11	12	14	16	18	18
Shank square	mm	7	9	9	11	12	14,5	14,5
<b>9213G</b>	<b>Each</b>	<b>21,70</b>	<b>32,10</b>	<b>36,30</b>	<b>49,40</b>	<b>69,70</b>	<b>72,60</b>	<b>75,50</b>



**Orig. Völkel - Art. 385**

 THROUGH SHANK  
 RIGHT-HAND USE

 ISO METRIC THREAD according to DIN 13 (DIN 376) – M Coarse Metric – Tolerance ISO2/6H.  
 HSS-E. Correct chamfer. For metals up to R 900 N/mm<sup>2</sup>. Through holes.

Ø	mm	3	4	5	6	8	10	12
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Overall length	mm	56	63	70	80	90	100	110
Thread length	mm	11	13	16	19	22	24	29
Shank Ø	mm	2,2	2,8	3,5	4,5	6	7	9
Shank square	mm	-	2,1	2,7	3,4	4,9	5,5	7
<b>9218G</b>	<b>Each</b>	<b>8,72</b>	<b>8,72</b>	<b>9,30</b>	<b>9,30</b>	<b>11,20</b>	<b>13,40</b>	<b>15,60</b>

Ø	mm	14	16	18	20	22	24
Pitch	mm	2	2	2,5	2,5	2,5	3
Overall length	mm	110	110	125	140	140	160
Thread length	mm	30	32	34	34	34	38
Shank Ø	mm	11	12	14	16	18	18
Shank square	mm	9	9	11	12	14,5	14,5
<b>9218G</b>	<b>Each</b>	<b>20,10</b>	<b>22,40</b>	<b>32,10</b>	<b>43,20</b>	<b>49,50</b>	<b>52,70</b>


**9218G**

**M HSS-E**
**Orig. Völkel - Art. 389**

Product description as Art. 9218G

 HSS-E. Short chamfer. Allzweck type with alternate threads, for metals up to R 900 N/mm<sup>2</sup>, steel and steel alloys. Through holes.

Ø	mm	3	4	5	6	8	10	12
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Overall length	mm	56	63	70	80	90	100	110
Thread length	mm	11	13	16	19	22	24	29
Shank Ø	mm	2,2	2,8	3,5	4,5	6	7	9
Shank square	mm	-	2,1	2,7	3,4	4,9	5,5	7
<b>9220G</b>	<b>Each</b>	<b>11,50</b>	<b>11,50</b>	<b>12,10</b>	<b>12,10</b>	<b>14,60</b>	<b>17,50</b>	<b>20,20</b>

Ø	mm	14	16	18	20	22	24
Pitch	mm	2	2	2,5	2,5	2,5	3
Overall length	mm	110	110	125	140	140	160
Thread length	mm	30	32	34	34	34	38
Shank Ø	mm	11	12	14	16	18	18
Shank square	mm	9	9	11	12	14,5	14,5
<b>9220G</b>	<b>Each</b>	<b>26,20</b>	<b>29,10</b>	<b>41,60</b>	<b>56,20</b>	<b>64,60</b>	<b>69,10</b>


**9220G**

**M HSS-E**
**Orig. Völkel - Art. 386**

Product description as Art. 9218G

HSS-E. Semi-short chamfer. Helicoidal type with approx. 15° flute, for metals up to R 80 Kg/sqmm. Blind holes.

Ø	mm	3	4	5	6	8	10	12
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Overall length	mm	56	63	70	80	90	100	110
Thread length	mm	11	13	16	19	22	24	29
Shank Ø	mm	2,2	2,8	3,5	4,5	6	7	9
Shank square	mm	1,8	2,1	2,7	3,4	4,9	5,5	7
<b>9232G</b>	<b>Each</b>	<b>11,70</b>	<b>11,70</b>	<b>12,10</b>	<b>12,10</b>	<b>14,60</b>	<b>17,50</b>	<b>20,20</b>

Ø	mm	14	16	18	20	22	24
Pitch	mm	2	2	2,5	2,5	2,5	3
Overall length	mm	110	110	125	140	140	160
Thread length	mm	30	32	34	34	34	38
Shank Ø	mm	11	12	14	16	18	18
Shank square	mm	9	9	11	12	14,5	14,5
<b>9232G</b>	<b>Each</b>	<b>26,20</b>	<b>29,10</b>	<b>42,10</b>	<b>56,60</b>	<b>64,60</b>	<b>69,10</b>


**9232G**

**M HSS-E**
**Orig. Völkel - Art. 387**

Product description as Art. 9218G

 HSS-E. Type with approx. 35° flute for deep threads with dia. more than 1 1/2. Short chamfer. For metals up to R 900 N/mm<sup>2</sup>. Deep blind holes.

Ø	mm	3	4	5	6	8	10	12
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Overall length	mm	56	63	70	80	90	100	110
Thread length	mm	6	7	8	10	14	16	18
Shank Ø	mm	2,2	2,8	3,5	4,5	6	7	9
Shank square	mm	-	2,1	2,7	3,4	4,9	5,5	7
<b>9260G</b>	<b>Each</b>	<b>10,60</b>	<b>10,60</b>	<b>11,20</b>	<b>11,20</b>	<b>13,40</b>	<b>16,20</b>	<b>18,60</b>

Ø	mm	14	16	18	20	22	24
Pitch	mm	2	2	2,5	2,5	2,5	3
Overall length	mm	110	110	125	140	140	160
Thread length	mm	20	22	25	25	27	30
Shank Ø	mm	11	12	14	16	18	18
Shank square	mm	9	9	11	12	14,5	14,5
<b>9260G</b>	<b>Each</b>	<b>24,10</b>	<b>26,90</b>	<b>38,40</b>	<b>51,90</b>	<b>59,60</b>	<b>63,90</b>


**9260G**

**M HSS-E**

9269G



INOX



M HSS-E TIN

Orig. Völkel - Art. 356 TIN

THROUGH SHANK

RIGHT-HAND USE

ISO METRIC THREAD according to DIN 13 (DIN 376) – M Coarse Metric – Tolerance ISO2X/6HX.

HSS-E-TIN. Short chamfer, chipless. For aluminium and aluminium alloys, metals up to R 900 N/mm<sup>2</sup>, stainless steel. Roll taps with coolant ejection channels. Through and blind holes.

TIN coating.

Ø	mm	12	14	16
Pitch	mm	1,75	2	2
Overall length	mm	110	110	110
Thread length	mm	29	30	32
Shank Ø	mm	9	11	12
Shank square	mm	7	9	9
<b>9269G</b>	<b>Each</b>	<b>45,60</b>	<b>62,50</b>	<b>73,30</b>

## MACHINE TAP WITH COLOURED RINGS

9271GL



Orig. Völkel - Art. 353

GREEN collar.

Stainless SUPER-FAST class HSS-E, especially treated for superior performance.

Ground and polished after hardening.

Reinforced shank (12mm, reduced shank), with chamfer suitable for through holes.

Thread: Coarse Metric M - DIN 13 (DIN 371/376).

Right-hand use.

For steel up to 1000 N/sqmm, cast iron, aluminium, copper brass, and other long chip materials.



M HSS-E

Ø	mm	3	4	5	6	8	10	12
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Overall length	mm	56	63	70		90	100	110
Thread length	mm	11	13	16	19	22	24	29
Shank Ø	mm	3,5	4,5	6	6	8	10	9
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8	7
<b>9271GL</b>	<b>Each</b>	<b>11,80</b>	<b>11,80</b>	<b>13,10</b>	<b>13,10</b>	<b>15,10</b>	<b>18,00</b>	<b>22,40</b>
Ø	mm	14	16	18	20			
Pitch	mm	2	2	2,5	2,5			
Overall length	mm	110	110	125	140			
Thread length	mm	30	32	34	34			
Shank Ø	mm	11	12	14	16			
Shank square	mm	9	9	11	12			
<b>9271GL</b>	<b>Each</b>	<b>28,80</b>	<b>32,70</b>	<b>45,20</b>	<b>63,20</b>			

Available on request the same taps, but HSS-E sintered, TIN coated for very high performances.

9271GP



Orig. Völkel - Art. 363

Product description as Art. 9271GL

Reinforced shank (12mm, reduced shank), with 35° spiral flute for deep blind holes.

Thread: Coarse Metric M - DIN 13 (DIN 371/376).

Right-hand use.

For steel up to 1000 N/sqmm, cast iron, aluminium, copper brass, and other long chip materials.



M HSS-E

Ø	mm	3	4	5	6	8	10	12
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Overall length	mm	56	63	70	80	90	100	110
Thread length	mm	6	7	8	10	14	16	18
Shank Ø	mm	3,5	4,5	6	6	8	10	9
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8	7
<b>9271GP</b>	<b>Each</b>	<b>15,10</b>	<b>15,10</b>	<b>16,30</b>	<b>16,30</b>	<b>18,90</b>	<b>22,40</b>	<b>27,20</b>
Ø	mm	14	16	18	20			
Pitch	mm	2	2	2,5	2,5			
Overall length	mm	110	110	125	140			
Thread length	mm	20	22	25	25			
Shank Ø	mm	11	12	14	16			
Shank square	mm	9	9	11	12			
<b>9271GP</b>	<b>Each</b>	<b>36,10</b>	<b>41,30</b>	<b>56,50</b>	<b>79,10</b>			

Available on request the same taps, but HSS-E sintered, TIN coated for very high performances.

**Orig. Völkel - Art. 352**

WHITE collar.

Stainless SUPER-FAST class HSS-E, especially treated for superior performance. Vaporized. Ground and polished after hardening.

Reinforced shank (12mm, reduced shank), with chamfer suitable for through holes.

Thread: Coarse Metric M - DIN 13 (DIN 371/376).

Right-hand use.

For all kinds of stainless steel and long chip steel with R up to 1000 N/mm².

Ø	mm	3	4	5	6	8	10	12
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Overall length	mm	56	63	70	80	90	100	110
Thread length	mm	11	13	16	19	22	24	29
Shank Ø	mm	3,5	4,5	6	6	8	10	9
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8	7
<b>9272GL</b>	<b>Each</b>	<b>13,30</b>	<b>13,30</b>	<b>14,30</b>	<b>14,30</b>	<b>16,40</b>	<b>20,10</b>	<b>24,10</b>

Ø	mm	14	16	18	20
Pitch	mm	2	2	2,5	2,5
Overall length	mm	110	110	125	140
Thread length	mm	30	32	34	34
Shank Ø	mm	11	12	14	16
Shank square	mm	9	9	11	12
<b>9272GL</b>	<b>Each</b>	<b>31,40</b>	<b>36,20</b>	<b>51,10</b>	<b>70,40</b>

Taps with similar characteristics for UNC, UNF and G (BSP) threads can be supplied on request.



**INOX**

**9272GL**



**M HSS-E VAP**

**Orig. Völkel - Art. 362**

Product description as Art. 9272GL

Reinforced shank (12mm, reduced shank), with 39° spiral flute for deep blind holes.

Thread: Coarse Metric M - DIN 13 (DIN 371/376).

Right-hand use.

For all kinds of stainless steel and long chip steel with R up to 1000 N/mm².

Ø	mm	3	4	5	6	8	10	12
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Overall length	mm	56	63	70	80	90	100	110
Thread length	mm	6	7	8	10	14	16	18
Shank Ø	mm	3,5	4,5	6	6	8	10	9
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8	7
<b>9272GP</b>	<b>Each</b>	<b>16,60</b>	<b>16,60</b>	<b>17,90</b>	<b>17,90</b>	<b>20,70</b>	<b>24,70</b>	<b>30,40</b>

Ø	mm	14	16	18	20
Pitch	mm	2	2	2,5	2,5
Overall length	mm	110	110	125	140
Thread length	mm	20	22	25	25
Shank Ø	mm	11	12	14	16
Shank square	mm	9	9	11	12
<b>9272GP</b>	<b>Each</b>	<b>39,20</b>	<b>44,70</b>	<b>62,30</b>	<b>87,30</b>

Taps with similar characteristics for UNC, UNF and G (BSP) threads can be supplied on request.



**INOX**

**9272GP**



**M HSS-E VAP**

**Orig. Völkel - Art. 354**

BLUE collar.

Stainless SUPER-FAST class HSS-E, especially treated for superior performance. Ground and polished after hardening.

Reinforced shank (12mm, reduced shank), correct chamfer for through holes.

Thread: Coarse Metric M - DIN 13 (DIN 371/376).

Right-hand use.

For all kinds of stainless steel and long chip steel with R up to 1000 N/mm².

Ø	mm	3	4	5	6	8	10	12
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Overall length	mm	56	63	70	80	90	100	110
Thread length	mm	11	13	16	19	22	24	29
Shank Ø	mm	3,5	4,5	6	6	8	10	9
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8	7
<b>9272GR</b>	<b>Each</b>	<b>12,70</b>	<b>12,70</b>	<b>13,80</b>	<b>13,80</b>	<b>16,10</b>	<b>17,60</b>	<b>23,30</b>

Ø	mm	14	16	18	20
Pitch	mm	2	2	2,5	2,5
Overall length	mm	110	110	125	140
Thread length	mm	30	32	34	34
Shank Ø	mm	11	12	14	16
Shank square	mm	9	9	11	12
<b>9272GR</b>	<b>Each</b>	<b>32,10</b>	<b>34,40</b>	<b>47,20</b>	<b>65,50</b>



**INOX**

**9272GR**



**M HSS-E**

**9272GT**  **INOX**
**Orig. Vökel - Art. 364**

Product description as Art. 9272GR

Reinforced shank (12mm, reduced shank), with 39° spiral flute for deep blind holes.

Thread: Coarse Metric M - DIN 13 (DIN 371/376).

Right-hand use.

For all kinds of stainless steel and long chip steel with R up to 1000 N/mm<sup>2</sup>.

		3	4	5	6	8	10	12
Ø	mm	3	4	5	6	8	10	12
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Overall length	mm	56	63	70	80	90	100	110
Thread length	mm	6	7	8	10	14	16	18
Shank Ø	mm	3,5	4,5	6	6	8	10	9
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8	7
<b>9272GT</b>	<b>Each</b>	<b>15,90</b>	<b>15,90</b>	<b>17,20</b>	<b>17,20</b>	<b>19,60</b>	<b>23,80</b>	<b>28,80</b>
Ø	mm	14	16	18	20			
Pitch	mm	2	2	2,5	2,5			
Overall length	mm	110	110	125	140			
Thread length	mm	20	22	25	25			
Shank Ø	mm	11	12	14	16			
Shank square	mm	9	9	11	12			
<b>9272GT</b>	<b>Each</b>	<b>37,80</b>	<b>42,90</b>	<b>58,80</b>	<b>82,30</b>			

**9273GA** 
**Orig. Vökel - Art. 361**

Collar RED.

Stainless SUPER-FAST class HSS-E, especially treated for superior performance.

Ground and polished after hardening.

Reinforced shank, short chamber for blind and through holes.

Thread: Coarse metric thread M - DIN 13 (DIN 371).

Right-hand use.

For high-resistance steel with R above 1200 N/mm<sup>2</sup> and plastics.

		4	5	6	8	10
Ø	mm	4	5	6	8	10
Pitch	mm	0,7	0,8	1	1,25	1,5
Overall length	mm	63	70	80	90	100
Thread length	mm	9	11	13	15	16
Shank Ø	mm	4,5	6	6	8	10
Shank square	mm	3,4	4,9	4,9	6,2	8
<b>9273GA</b>	<b>Each</b>	<b>15,40</b>	<b>17,20</b>	<b>17,20</b>	<b>18,90</b>	<b>22,30</b>

**9273GE** 
**Prod. SCU**

RED ring.

COBALT HSS-E-V3 sintered with Vanadium powder.

Ground and polished after hardening.

Reinforced shank (from 12mm, reduced shank), with right-hand 15° spiral flute for blind holes.

M Coarse metric thread – DIN 13 (DIN 371/376).

Right-hand use.

For high-resistance steel with R up to 1500 N/sqmm, Titanium and titanium alloys.

		3	14
Ø	mm	3	14
Pitch	mm	0,5	2
Overall length	mm	56	110
Thread length	mm	11	30
Shank Ø	mm	3,5	11
Shank square	mm	2,7	9
<b>9273GE</b>	<b>Each</b>	<b>13,80</b>	<b>30,10</b>

Product running out of stock.

**9273GL** 
**Orig. Vökel - Art. 351**

BLACK ring.

HSS-E.

Ground and polished after hardening.

Reinforced shank, straight spiral, short chamfer for through and blind holes.

Nitrided surface.

M Coarse metric thread - DIN 13 (DIN 371/376). Right-hand use.

For cast iron, brass, bronze, plastic materials.

		3	4	5	6	8	10
Ø	mm	3	4	5	6	8	10
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5
Overall length	mm	56	63	70	80	90	100
Thread length	mm	11	13	16	19	22	24
Shank Ø	mm	3,5	4,5	6	6	8	10
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8
<b>9273GL</b>	<b>Each</b>	<b>13,70</b>	<b>13,70</b>	<b>14,70</b>	<b>14,70</b>	<b>16,90</b>	<b>20,40</b>

**Orig. Völkel - Art. 365**

YELLOW collar.

Made of High-Speed steel class HSS-E, particularly treated for greater performance.  
Ground and polished after hardening.

Reinforced shank (12 mm, passing through shank), with a helix at 40 ° for deep blind holes.

Thread: Metric - Coarse M - DIN 13 (DIN 371/376).

Use Right.

For ALUMINIUM, its alloys and long chipping materials.

Ø	mm	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75	2	2
Overall length	mm	56	63	70	80	90	100	110	110	110
Thread length	mm	6	7	8	10	14	16	18	20	22
Shank Ø	mm	3,5	4,5	6	6	8	10	9	11	12
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8	7	9	9
<b>9273GP</b>	<b>Each</b>	<b>15,90</b>	<b>15,90</b>	<b>17,20</b>	<b>17,20</b>	<b>19,60</b>	<b>23,80</b>	<b>28,80</b>	<b>37,80</b>	<b>42,90</b>



**9273GP**  
new

**Orig. Völkel - Art. 357**

ORANGE collar.

Made of High-Speed steel class HSS-E, particularly treated for greater performance.  
Ground and polished after hardening.

Reinforced shank (12 mm, passing through shank), with short chamfer for passing through and blind holes.

Thread: Metric - Coarse M - DIN 13 (DIN 371/376).

Use Right.

For BRASS and short chipping materials.

Ø	mm	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75	2	2
Overall length	mm	56	63	70	80	90	100	110	110	110
Thread length	mm	11	13	16	19	22	24	29	30	32
Shank Ø	mm	3,5	4,5	6	6	8	10	9	11	12
Shank square	mm	2,7	3,4	4,9	4,9	6,2	8	7	9	9
<b>9273GT</b>	<b>Each</b>	<b>13,70</b>	<b>13,70</b>	<b>14,70</b>	<b>14,70</b>	<b>16,90</b>	<b>20,40</b>	<b>24,70</b>	<b>31,50</b>	<b>36,20</b>



**9273GT**  
new

**MACHINE TAPS**

**Orig. Völkel - Art. 395**

REDUCED SHANK.

RIGHT-HAND USE.

ISO FINE METRIC THREAD – According to DIN 13 (DIN 374) – MF Fine Metric – Tolerance ISO2/6H.

HSS-E. Correct chamfer. Universal type. Through holes.

Ø	mm	<b>3</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>8</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>12</b>	<b>12</b>
Pitch	mm	<b>0,35</b>	<b>0,35</b>	<b>0,5</b>	<b>0,5</b>	<b>0,5</b>	<b>0,75</b>	<b>0,75</b>	<b>0,75</b>	<b>1</b>	<b>0,75</b>	<b>1</b>	<b>1,25</b>	<b>1</b>	<b>1</b>	<b>1,25</b>	<b>1,5</b>
Overall length	mm	56	63	63	70	80	80	80	80	90	90	90	100	90	100	100	100
Thread length	mm	9	10	10	12	14	14	14	19	22	20	20	24	20	22	22	22
Shank Ø	mm	2,2	2,8	2,8	3,5	4,5	4,5	5,5	6	6	7	7	7	8	9	9	9
Shank square	mm	-	2,1	2,1	2,7	3,4	3,4	4,3	4,9	4,9	5,5	5,5	5,5	6,2	7	7	7
<b>9275G</b>	<b>Each</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>18,60</b>	<b>18,60</b>	<b>18,60</b>	<b>25,60</b>	<b>25,60</b>	<b>25,60</b>	<b>25,60</b>
Ø	mm	<b>14</b>	<b>14</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>16</b>	<b>18</b>	<b>18</b>	<b>20</b>	<b>20</b>	<b>22</b>	<b>22</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>25</b>
Pitch	mm	<b>1</b>	<b>1,25</b>	<b>1,5</b>	<b>1</b>	<b>1</b>	<b>1,5</b>	<b>1</b>	<b>1,5</b>	<b>1</b>	<b>1,5</b>	<b>1</b>	<b>1,5</b>	<b>1</b>	<b>1,5</b>	<b>2</b>	<b>1,5</b>
Overall length	mm	100	100	100	100	100	100	110	110	125	125	125	125	140	140	140	140
Thread length	mm	22	22	22	22	22	22	25	25	25	25	25	25	28	28	28	28
Shank Ø	mm	11	11	11	12	12	12	14	14	16	16	18	18	18	18	18	18
Shank square	mm	9	9	9	9	9	9	11	11	12	12	14,5	14,5	14,5	14,5	14,5	14,5
<b>9275G</b>	<b>Each</b>	<b>32,80</b>	<b>32,80</b>	<b>32,80</b>	<b>36,10</b>	<b>36,80</b>	<b>36,80</b>	<b>44,70</b>	<b>44,70</b>	<b>49,50</b>	<b>49,50</b>	<b>60,70</b>	<b>60,70</b>	<b>70,30</b>	<b>70,30</b>	<b>70,30</b>	<b>75,10</b>
Ø	mm	<b>26</b>	<b>27</b>	<b>27</b>	<b>28</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>
Pitch	mm	<b>1,5</b>	<b>1,5</b>	<b>2</b>	<b>1,5</b>	<b>1</b>	<b>1,5</b>	<b>2</b>	<b>1,5</b>	<b>1,5</b>	<b>1,5</b>	<b>1,5</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Overall length	mm	140	140	140	140	150	150	150	150	160	170	170	170	200			
Thread length	mm	28	28	28	28	28	28	28	28	30	30	30	30	56			
Shank Ø	mm	18	20	20	20	22	22	22	22	25	28	28	28	28			
Shank square	mm	14,5	16	16	16	18	18	18	18	20	22	22	22	22			
<b>9275G</b>	<b>Each</b>	<b>75,10</b>	<b>89,40</b>	<b>89,40</b>	<b>89,40</b>	<b>101,00</b>	<b>101,00</b>	<b>101,00</b>	<b>123,00</b>	<b>123,00</b>	<b>123,00</b>	<b>154,00</b>	<b>154,00</b>	<b>154,00</b>			



**9275G**

9276G



LEFT USAGE

MF HSS-E

Orig. Völkel - Art. 348

REDUCED SHANK.

LEFT-HAND USE.

ISO FINE METRIC THREAD – According to DIN 13 (DIN 374) – MF Fine Metric – Tolerance ISO2/6H.

HSS-E. Correct chamfer. Universal type. Through holes.

Ø	mm	3	4	5	6	8	8	10	10	12	12
Pitch	mm	0,35	0,5	0,5	0,75	0,75	1	1	1,25	1	1,25
Overall length	mm	56	63	70	80	80	90	90	100	100	100
Thread length	mm	9	10	12	14	19	22	20	24	22	22
Shank Ø	mm	2,2	2,8	3,5	4,5	6	6	7	7	9	9
Shank square	mm	-	2,1	2,7	3,4	4,9	4,9	5,5	5,5	7	7
<b>9276G</b>	<b>Each</b>	<b>34,60</b>	<b>34,60</b>	<b>34,60</b>	<b>34,60</b>	<b>34,60</b>	<b>34,60</b>	<b>38,50</b>	<b>38,50</b>	<b>53,70</b>	<b>53,70</b>
Ø	mm	12	14	14	14	16	16	18	18	20	20
Pitch	mm	1,5	1	1,25	1,5	1	1,5	1	1,5	1	1,5
Overall length	mm	100	100	100	100	100	100	110	110	125	125
Thread length	mm	22	22	22	22	22	22	25	25	25	25
Shank Ø	mm	9	11	11	11	12	12	14	14	16	16
Shank square	mm	7	9	9	9	9	9	11	11	12	12
<b>9276G</b>	<b>Each</b>	<b>53,70</b>	<b>65,40</b>	<b>65,40</b>	<b>65,40</b>	<b>75,80</b>	<b>75,80</b>	<b>90,80</b>	<b>90,80</b>	<b>99,50</b>	<b>99,50</b>
Ø	mm	22	22	24	24	26	27	28	30	32	32
Pitch	mm	1	1,5	1,5	2	1,5	1,5	1,5	1,5	1,5	2
Overall length	mm	125	125	140	140	140	140	140	150	150	150
Thread length	mm	25	25	28	28	28	28	28	28	28	28
Shank Ø	mm	18	18	18	18	18	20	20	22	22	22
Shank square	mm	14,5	14,5	14,5	14,5	14,5	16	16	18	18	18
<b>9276G</b>	<b>Each</b>	<b>125,00</b>	<b>125,00</b>	<b>146,00</b>	<b>146,00</b>	<b>146,00</b>	<b>183,00</b>	<b>183,00</b>	<b>209,00</b>	<b>259,00</b>	<b>259,00</b>

9277G



MF HSS-E

Orig. Völkel - Art. 394

REDUCED SHANK.

RIGHT-HAND USE.

ISO FINE METRIC THREAD – According to DIN 13 (DIN 374) – MF Fine Metric – Tolerance ISO2/6H.

HSS-E. Short chamfer. Universal type. Through and blind holes.

Ø	mm	4	5	6	8	8	10	10	12	12	12	14	14	16	16	18	18	18	
Pitch	mm	0,35	0,5	0,75	0,75	1	1	1,25	1	1,25	1,5	1	1,25	1,5	1	1,5	1	1,5	2
Overall length	mm	63	70	80	80	90	90	100	100	100	100	100	100	100	100	110	110	125	
Thread length	mm	10	12	14	19	22	20	24	22	22	22	22	22	22	22	25	25	34	
Shank Ø	mm	2,8	3,5	4,5	6	6	7	7	9	9	9	11	11	11	12	14	14	14	
Shank square	mm	2,1	2,7	3,4	4,9	4,9	5,5	5,5	7	7	7	9	9	9	9	11	11	11	
<b>9277G</b>	<b>Each</b>	<b>14,40</b>	<b>14,40</b>	<b>14,40</b>	<b>14,40</b>	<b>14,40</b>	<b>17,30</b>	<b>17,30</b>	<b>22,50</b>	<b>23,10</b>	<b>22,50</b>	<b>27,90</b>	<b>27,90</b>	<b>27,90</b>	<b>33,10</b>	<b>33,10</b>	<b>39,10</b>	<b>39,10</b>	<b>39,10</b>
Ø	mm	20	20	20	22	22	24	24	24	26	27	27	28	30	30	32	36	36	
Pitch	mm	1	1,5	2	1	1,5	1	1,5	2	1,5	1,5	2	1,5	1,5	2	1,5	1,5	2	
Overall length	mm	125	125	140	125	125	140	140	140	140	140	140	140	150	150	150	170	170	
Thread length	mm	25	25	34	25	25	28	28	28	28	28	28	28	28	28	28	30	30	
Shank Ø	mm	16	16	16	18	18	18	18	18	18	20	20	20	22	22	22	28	28	
Shank square	mm	12	12	12	14,5	14,5	14,5	14,5	14,5	14,5	16	16	16	18	18	18	22	22	
<b>9277G</b>	<b>Each</b>	<b>42,60</b>	<b>42,60</b>	<b>42,60</b>	<b>53,70</b>	<b>53,70</b>	<b>62,90</b>	<b>62,90</b>	<b>62,90</b>	<b>62,90</b>	<b>78,40</b>	<b>78,40</b>	<b>78,40</b>	<b>90,10</b>	<b>90,10</b>	<b>116,00</b>	<b>145,00</b>	<b>145,00</b>	

9284G



MF HSS-E

Orig. Völkel - Art. 397

Product description as Art. 9277G

HSS-E. Short chamfer. Type with approx. 35° spiral flute for holes with dia. more than 1 1/2. For metals up to R 900 N/mm². Deep blind holes.

Ø	mm	3	4	4	5	6	8	8	10
Pitch	mm	0,35	0,35	0,5	0,5	0,5	0,75	1	1
Overall length	mm	56	63	63	70	80	80	90	90
Thread length	mm	5	5	5	5	8	10	10	10
Shank Ø	mm	2,2	2,8	2,8	3,5	4,5	6	6	7
Shank square	mm	-	2,1	2,1	2,7	3,4	4,9	4,9	5,5
<b>9284G</b>	<b>Each</b>	<b>18,20</b>	<b>18,20</b>	<b>18,20</b>	<b>18,20</b>	<b>18,20</b>	<b>18,20</b>	<b>18,20</b>	<b>21,50</b>
Ø	mm	10	12	12	12	14	14	14	16
Pitch	mm	1,25	1	1,25	1,5	1	1,25	1,5	1
Overall length	mm	100	100	100	100	100	100	100	100
Thread length	mm	16	11	15	15	11	15	15	12
Shank Ø	mm	7	9	9	9	11	11	11	12
Shank square	mm	5,5	7	7	7	9	9	9	9
<b>9284G</b>	<b>Each</b>	<b>21,50</b>	<b>27,80</b>	<b>27,80</b>	<b>27,80</b>	<b>33,90</b>	<b>33,90</b>	<b>33,90</b>	<b>39,20</b>
Ø	mm	16	18	20	22	24	24	27	30
Pitch	mm	1,5	1,5	1,5	1,5	1,5	2	2	2
Overall length	mm	100	110	125	125	140	140	140	150
Thread length	mm	15	17	17	17	20	20	20	22
Shank Ø	mm	12	14	16	18	18	18	20	22
Shank square	mm	9	11	12	14,5	14,5	14,5	16	18
<b>9284G</b>	<b>Each</b>	<b>39,20</b>	<b>49,10</b>	<b>54,50</b>	<b>66,50</b>	<b>79,90</b>	<b>79,90</b>	<b>95,80</b>	<b>109,00</b>

Prices in EURO - VAT not included

**MACHINE TAP WITH COLOURED RINGS**

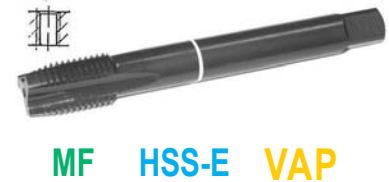
**Orig. Völkel - Art. 359**

WHITE collar.  
 Stainless SUPER-FAST class HSS-E, especially treated for superior performance.  
 Vaporized. Ground and polished after hardening.  
 Through shank, proper chamfer for through holes.  
 Thread: Metric ISO FINE - MF - DIN 13 (DIN 374) compliant.  
 Right hand use.

**VÖLKE** INOX 9288G

For all types of stainless steel and long swarf steels with R up to 1000 N/mm<sup>2</sup>.

Ø	mm	5	6	8	8	10	10	12	12
Pitch	mm	0,5	0,75	0,75	1	1	1,25	1,25	1,5
Overall length	mm	70	80	80	90	90	100	100	100
Thread length	mm	12	14	19	22	20	24	22	22
Shank Ø	mm	3,5	4,5	6	6	7	7	9	9
Shank square	mm	2,7	3,4	4,9	4,9	5,5	5,5	7	7
<b>9288G</b>	<b>Each</b>	<b>24,10</b>	<b>24,10</b>	<b>24,10</b>	<b>24,10</b>	<b>28,10</b>	<b>28,10</b>	<b>38,40</b>	<b>38,40</b>



Ø	mm	14	16	18	20
Pitch	mm	1,5	1,5	1,5	1,5
Overall length	mm	100	100	110	125
Thread length	mm	22	22	25	25
Shank Ø	mm	11	12	14	16
Shank square	mm	9	9	11	12
<b>9288G</b>	<b>Each</b>	<b>47,90</b>	<b>55,20</b>	<b>67,10</b>	<b>74,40</b>

**Orig. Völkel - Art. 369**

Product description as Art. 9288G  
 Through shank, 39° spiral flute for deep blind holes.  
 Thread: Metric ISO FINE - MF - DIN 13 (DIN 374) compliant.  
 Right hand use.

**VÖLKE** INOX 9290G

For all types of stainless steel and long swarf steels with R up to 1000 N/mm<sup>2</sup>.

Ø	mm	5	6	8	8	10	10	12	12
Pitch	mm	0,5	0,75	0,75	1	1	1,25	1,25	1,5
Overall length	mm	70	80	80	90	90	100	100	100
Thread length	mm	5	8	8	10	10	16	15	15
Shank Ø	mm	3,5	4,5	6	6	7	7	9	9
Shank square	mm	2,7	3,4	4,9	4,9	5,5	5,5	7	7
<b>9290G</b>	<b>Each</b>	<b>27,20</b>	<b>27,20</b>	<b>27,20</b>	<b>27,20</b>	<b>32,70</b>	<b>32,30</b>	<b>41,60</b>	<b>41,60</b>



Ø	mm	14	16	18	20
Pitch	mm	1,5	1,5	1,5	1,5
Overall length	mm	100	100	110	125
Thread length	mm	15	15	17	17
Shank Ø	mm	11	12	14	16
Shank square	mm	9	9	11	12
<b>9290G</b>	<b>Each</b>	<b>51,10</b>	<b>59,10</b>	<b>73,50</b>	<b>81,50</b>

**MACHINE TAPS**

**Orig. Völkel - Art. 705**

REINFORCED SHANK  
 RIGHT-HAND USE  
 BSW WHITWORTH THREAD – According to DIN 11 (DIN 371)  
 HSS-E. Proper chamfer. Universal type. Through holes.

**VÖLKE** 9292G

Ø	inches	1/8	3/16	1/4	5/16	3/8
Threads per inch	No	40	24	20	18	16
Overall length	mm	56	70	80	90	100
Thread length	mm	11	15	17	20	22
Shank Ø	mm	3,5	6	7	8	9
Shank square	mm	2,7	4,9	5,5	6,2	7
<b>9292G</b>	<b>Each</b>	<b>11,50</b>	<b>11,50</b>	<b>11,50</b>	<b>14,60</b>	<b>16,30</b>



**Orig. Völkel - Art. 707**

Product description as Art. 9292G  
 HSS-E. Short chamfer. With 35° right-hand spiral flute for metals up to R 900 N/mm<sup>2</sup>. Deep blind holes.

**VÖLKE** 9293G

Ø	inches	1/8	3/16	1/4	5/16	3/8
Threads per inch	No	40	24	20	18	16
Overall length	mm	56	70	80	90	100
Thread length	mm	7	10	13	14	16
Shank Ø	mm	3,5	6	7	8	9
Shank square	mm	2,7	4,9	5,5	6,2	7
<b>9293G</b>	<b>Each</b>	<b>14,60</b>	<b>14,60</b>	<b>14,60</b>	<b>17,60</b>	<b>19,30</b>



Prices in EURO - VAT not included

13

9298G


**VÖLTEL**  
THREADING SOLUTIONS

**BSW HSS-E**
**Orig. Völkel - Art. 715**

REDUCED SHANK.

RIGHT-HAND USE.

BSW WHITWORTH THREAD – According to DIN 11 (DIN 376)

HSS-E. Proper chamfer. Universal type. Through holes.

Ø	inches	1/2	5/8	3/4	7/8	1
Threads per inch	No	12	11	10	9	8
Overall length	mm	110	110	125	140	160
Thread length	mm	25	27	30	32	36
Shank Ø	mm	9	12	14	18	20
Shank square	mm	7	9	11	14,5	16
<b>9298G</b>	<b>Each</b>	<b>19,30</b>	<b>29,10</b>	<b>56,20</b>	<b>68,50</b>	<b>77,40</b>

9299G


**VÖLTEL**  
THREADING SOLUTIONS

**BSW HSS-E**
**Orig. Völkel - Art. 717**

Product description as Art. 9298G

HSS-E. Short chamfer. With 35° right-hand spiral flute for metals up to R 900 N/mm<sup>2</sup>. Deep blind holes.

Ø	inches	1/2	5/8	3/4	7/8	1
Threads per inch	No	12	11	10	9	8
Overall length	mm	110	110	125	140	160
Thread length	mm	20	22	25	27	30
Shank Ø	mm	9	12	14	18	20
Shank square	mm	7	9	11	14,5	16
<b>9299G</b>	<b>Each</b>	<b>24,60</b>	<b>35,20</b>	<b>70,40</b>	<b>84,90</b>	<b>95,80</b>

9307G


**VÖLTEL**  
THREADING SOLUTIONS

**UNC HSS-E**
**Orig. Völkel**

REINFORCED SHANK

RIGHT-HAND USE

UNC AMERICAN THREAD – According to ANSI-B1.1 (DIN 371)

HSS-E. Proper chamfer. Universal type. Through holes.

Thread UNC		No. 2	No. 4	No. 5	No. 6	No. 8	No. 10	No. 12
Threads per inch	No	56	40	40	32	32	24	24
Overall length	mm	45	50	56	56	63	70	70
Thread length	mm	8	10	11	12	13	15	16
Shank Ø	mm	2,8	3,5	3,5	4	4,5	6	6
Shank square	mm	2,1	2,7	2,7	3	3,4	4,9	4,9
<b>9307G</b>	<b>Each</b>	<b>22,70</b>	<b>11,50</b>	<b>11,50</b>	<b>11,50</b>	<b>11,50</b>	<b>11,50</b>	<b>11,50</b>

Thread UNC		1/4	5/16	3/8
Threads per inch	No	20	18	16
Overall length	mm	80	90	100
Thread length	mm	17	20	22
Shank Ø	mm	7	8	9
Shank square	mm	5,5	6,2	7
<b>9307G</b>	<b>Each</b>	<b>11,50</b>	<b>14,60</b>	<b>16,30</b>

Size No. 2 running out of stock.

9309G


**VÖLTEL**  
THREADING SOLUTIONS

**UNC HSS-E**
**Orig. Völkel - Art. 747**

Product description as Art. 9307G

HSS-E. Short chamfer. With 35° right-hand spiral flute for or metals up to R 900 N/mm<sup>2</sup>. Blind holes.

Thread UNC		No. 6	No. 8	No. 10	No. 12	1/4	5/16	3/8
Threads per inch	No	32	32	24	24	20	18	16
Overall length	mm	56	63	70	70	80	90	100
Thread length	mm	7	8	10	10	13	14	16
Shank Ø	mm	4	4,5	6	6	7	8	9
Shank square	mm	3	3,4	4,9	4,9	5,5	6,2	7
<b>9309G</b>	<b>Each</b>	<b>14,60</b>	<b>14,60</b>	<b>14,60</b>	<b>14,60</b>	<b>14,60</b>	<b>17,60</b>	<b>19,30</b>

9311GC


**VÖLTEL**  
THREADING SOLUTIONS

**UNC HSS-E**
**Orig. Völkel - Art. 755**

REDUCED SHANK.

RIGHT-HAND USE.

UNC AMERICAN THREAD – According to ANSI-B1.1 (DIN 376)

HSS-E. Proper chamfer. Universal type. Through holes.

Thread UNC		7/16	1/2	9/16	5/8	3/4	7/8	1
Threads per inch	No	14	13	12	11	10	9	8
Overall length	mm	100	110	110	110	125	140	160
Thread length	mm	22	25	26	27	30	32	36
Shank Ø	mm	8	9	11	12	14	18	20
Shank square	mm	6,2	7	9	9	11	14,5	16
<b>9311GC</b>	<b>Each</b>	<b>19,30</b>	<b>19,30</b>	<b>29,10</b>	<b>29,10</b>	<b>56,20</b>	<b>68,50</b>	<b>77,40</b>



**Orig. Völkel - Art. 757**

Product description as Art. 9311GC

HSS-E. Short chamfer. With 35° right-hand spiral flute for structural steel; for metals up to R 900 N/mm². Blind holes.

Thread UNC		7/16	1/2	9/16	5/8	3/4	7/8	1
Threads per inch	No	14	13	12	11	10	9	8
Overall length	mm	100	110	110	110	125	140	160
Thread length	mm	17	20	20	22	25	27	30
Shank Ø	mm	8	9	11	12	14	18	20
Shank square	mm	6,2	7	9	9	11	14,5	16
<b>9311GD</b>	<b>Each</b>	<b>24,40</b>	<b>24,40</b>	<b>35,20</b>	<b>35,20</b>	<b>70,40</b>	<b>84,90</b>	<b>95,80</b>


**Orig. Völkel - Art. 765**

REINFORCED SHANK

RIGHT-HAND USE

UNF AMERICAN THREAD- According to ANSI-B1.1 (DIN 371)

HSS-E. Proper chamfer. Universal type. Through holes.

Thread UNF		No. 4	No. 5	No. 6	No. 8	No. 10	No. 12	1/4
Threads per inch	No	48	44	40	36	32	28	28
Overall length	mm	50	56	56	63	70	70	80
Thread length	mm	10	11	12	13	15	16	17
Shank Ø	mm	3,5	3,5	4	4,5	6	6	7
Shank square	mm	2,7	2,7	3	3,4	4,9	4,9	5,5
<b>9314G</b>	<b>Each</b>	<b>11,50</b>	<b>11,50</b>	<b>11,50</b>	<b>11,50</b>	<b>11,50</b>	<b>11,50</b>	<b>11,50</b>



Thread UNF		5/16	3/8
Threads per inch	No	24	24
Overall length	mm	90	100
Thread length	mm	17	18
Shank Ø	mm	8	9
Shank square	mm	6,2	7
<b>9314G</b>	<b>Each</b>	<b>14,60</b>	<b>16,30</b>

**Orig. Völkel - Art. 767**

Product description as Art. 9314G

HSS-E. Short chamfer. With 35° right-hand spiral flute for structural steel; for metals up to R 900 N/mm². Deep blind holes.

Thread UNF		1/4	5/16	3/8
Threads per inch	No	28	24	24
Overall length	mm	80	90	100
Thread length	mm	10	10	10
Shank Ø	mm	7	8	9
Shank square	mm	5,5	6,2	7
<b>9315G</b>	<b>Each</b>	<b>14,60</b>	<b>17,60</b>	<b>19,30</b>


**Orig. Völkel - Art. 775**

REDUCED SHANK

RIGHT-HAND USE

UNF AMERICAN THREAD according to ANSI-B1.1 (DIN 376)

HSS-E. Proper chamfer. Universal type. Through holes.

Thread UNF		7/16	1/2	5/8	3/4	1
Threads per inch	No	20	20	18	16	12
Overall length	mm	100	100	100	110	150
Thread length	mm	22	22	22	25	28
Shank Ø	mm	8	9	12	14	20
Shank square	mm	6,2	7	9	11	16
<b>9315GE</b>	<b>Each</b>	<b>19,30</b>	<b>19,30</b>	<b>29,10</b>	<b>56,20</b>	<b>77,40</b>


**Orig. Völkel - Art. 777**

Product description as Art. 9315GE

HSS-E. Short chamfer. With 35° right-hand spiral flute for structural steel; for metals up to R 900 N/mm². Blind holes.

Thread UNF		7/16	1/2	5/8	3/4	1
Threads per inch	No	20	20	18	16	12
Overall length	mm	100	100	100	110	150
Thread length	mm	13	13	15	17	20
Shank Ø	mm	8	9	12	14	20
Shank square	mm	6,2	7	9	11	16
<b>9315GP</b>	<b>Each</b>	<b>24,40</b>	<b>24,40</b>	<b>35,20</b>	<b>70,40</b>	<b>95,80</b>



9320G




BSP HSS-E

Orig. Völkel - Art. 785

REDUCED SHANK.

RIGHT-HAND USE.

CYLINDRICAL GAS THREAD G (BSP) – According to DIN ISO 228

HSS-E. Correct chamfer. Universal type. Through holes.

Ø	inches	1/8	1/4	3/8	1/2	5/8	3/4	7/8
Threads per inch	No	28	19	19	14	14	14	14
Overall length	mm	90	100	100	125	125	140	150
Thread length	mm	20	22	22	25	25	28	28
Shank Ø	mm	7	11	12	16	18	20	22
Shank square	mm	5,5	9	9	12	14,5	16	18
<b>9320G</b>	<b>Each</b>	<b>18,50</b>	<b>23,30</b>	<b>27,60</b>	<b>40,70</b>	<b>46,50</b>	<b>60,60</b>	<b>71,20</b>

Ø	inches	1	1.1/8	1.1/4	1.3/8	1.1/2
Threads per inch	No	11	11	11	11	11
Overall length	mm	160	170	170	180	190
Thread length	mm	30	30	30	32	32
Shank Ø	mm	25	28	32	36	36
Shank square	mm	20	22	24	29	29
<b>9320G</b>	<b>Each</b>	<b>93,70</b>	<b>138,00</b>	<b>167,00</b>	<b>217,00</b>	<b>234,00</b>

9322G




BSP HSS-E

Orig. Völkel - Art. 784

Product description as Art. 9320G

HSS-E. Short chamfer. Universal type. Blind holes.

Ø	inches	1/8	1/4	3/8	1/2	5/8	3/4	1
Threads per inch	No	28	19	19	14	14	14	11
Overall length	mm	90	100	100	125	125	140	160
Thread length	mm	20	22	22	25	25	28	30
Shank Ø	mm	7	11	12	16	18	20	25
Shank square	mm	5,5	9	9	12	14,5	16	20
<b>9322G</b>	<b>Each</b>	<b>17,60</b>	<b>22,10</b>	<b>27,60</b>	<b>38,90</b>	<b>44,30</b>	<b>57,40</b>	<b>83,50</b>

Ø	inches	1.1/8	1.1/4	1.3/8	1.1/2
Threads per inch	No	11	11	11	11
Overall length	mm	170	170	180	190
Thread length	mm	30	30	32	32
Shank Ø	mm	28	32	36	36
Shank square	mm	22	24	29	29
<b>9322G</b>	<b>Each</b>	<b>116,00</b>	<b>157,00</b>	<b>185,00</b>	<b>218,00</b>

9324G




BSP HSS-E

Orig. Völkel - Art. 787

Product description as Art. 9320G

HSS-E. Short chamfer. Type with approx. 35° spiral flute for metals up to R 900 N/mm². Deep blind holes.

Ø	inches	1/8	1/4	3/8	1/2	3/4	7/8	1	1.1/4	1.1/2
Threads per inch	No	28	19	19	14	14	14	11	11	11
Overall length	mm	90	100	100	125	140	150	160	170	190
Thread length	mm	20	22	22	25	28	28	30	30	32
Shank Ø	mm	7	11	12	16	20	22	25	32	36
Shank square	mm	5,5	9	9	12	16	18	20	24	29
<b>9324G</b>	<b>Each</b>	<b>20,80</b>	<b>26,70</b>	<b>33,30</b>	<b>46,50</b>	<b>69,70</b>	<b>82,00</b>	<b>102,00</b>	<b>189,00</b>	<b>265,00</b>

## ROUND DIES

9350G




M HSS

Orig. Völkel - Art. 274

Closed type, fully ground according to DIN-EN 22568.

ISO METRIC THREAD, according to DIN 13 – M Coarse Metric -Tolerance 6g

RIGHT-HAND USE.

HSS. Normal chamfer. For steel with R up to 800 N/mm².

Ø	mm	1	1,1	1,2	1,4	1,6	1,8	2	2,2
Pitch	mm	0,25	0,25	0,25	0,3	0,35	0,35	0,4	0,45
Dimensions	mm	16x5	16x5	16x5	16x5	16x5	16x5	16x5	16x5
<b>9350G</b>	<b>Each</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>16,10</b>	<b>14,10</b>	<b>14,10</b>

Ø	mm	2,3	2,5	2,6	3	3,5	4	4,5	5
Pitch	mm	0,40	0,45	0,45	0,5	0,6	0,7	0,75	0,8
Dimensions	mm	16x5	16x5	16x5	20x5	20x5	20x5	20x7	20x7
<b>9350G</b>	<b>Each</b>	<b>14,10</b>	<b>14,10</b>	<b>14,10</b>	<b>6,98</b>	<b>10,80</b>	<b>6,98</b>	<b>10,80</b>	<b>7,40</b>

Ø	mm	6	7	8	9	10	11	12	14
Pitch	mm	1	1	1,25	1,25	1,5	1,5	1,75	2
Dimensions	mm	20x7	25x9	25x9	25x9	30x11	30x11	38x14	38x14
<b>9350G</b>	<b>Each</b>	<b>7,40</b>	<b>11,70</b>	<b>7,84</b>	<b>13,30</b>	<b>9,44</b>	<b>14,80</b>	<b>14,40</b>	<b>16,10</b>

Ø	mm	16	18	20	22	24	27	30	33
Pitch	mm	2	2,5	2,5	2,5	3	3	3,5	3,5
Dimensions	mm	45x18	45x18	45x18	55x22	55x22	65x25	65x25	65x25
<b>9350G</b>	<b>Each</b>	<b>22,40</b>	<b>22,40</b>	<b>22,40</b>	<b>42,40</b>	<b>42,40</b>	<b>61,10</b>	<b>61,10</b>	<b>61,10</b>

Ø	mm	36	42	45	48	52
Pitch	mm	4	4,5	4,5	5	5
Dimensions	mm	65x25	75x30	90x36	90x36	90x36
<b>9350G</b>	<b>Each</b>	<b>61,10</b>	<b>95,80</b>	<b>169,00</b>	<b>169,00</b>	<b>169,00</b>

**Orig. Völkel - Art. 272**

Product description as Art. 9350G

ISO METRIC THREAD according to DIN 13-M Coarse Metric- Tolerance 6g  
LEFT-HAND USE.

HSS, with chamfer, for steel with R up to 600 N/mm<sup>2</sup>.

Ø	mm	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Dimensions	mm	20x5	20x5	20x7	20x7	25x9	30x11	38x14
<b>9353G</b>	<b>Each</b>	<b>11,20</b>	<b>11,20</b>	<b>12,10</b>	<b>12,10</b>	<b>14,10</b>	<b>18,50</b>	<b>26,10</b>
Ø	mm	<b>14</b>	<b>16</b>	<b>18</b>	<b>20</b>	<b>22</b>	<b>24</b>	
Pitch	mm	2	2	2,5	2,5	2,5	3	
Dimensions	mm	38x14	45x18	45x18	45x18	55x22	55x22	
<b>9353G</b>	<b>Each</b>	<b>29,80</b>	<b>41,60</b>	<b>41,60</b>	<b>41,60</b>	<b>61,10</b>	<b>61,10</b>	



**9353G**



LEFT USAGE

**M HSS**

**Orig. Völkel - Art. 574**

Product description as Art. 9350G

ISO METRIC THREAD, according to DIN 13 – M Coarse Metric -Tolerance 6g  
RIGHT-HAND USE.

HSS. Normal chamfer. For stainless steel and steel with R up to 1200 N/mm<sup>2</sup>.

Ø	mm	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Dimensions	mm	20x5	20x5	20x7	20x7	25x9	30x11	38x14
<b>9354G</b>	<b>Each</b>	<b>10,80</b>	<b>10,80</b>	<b>11,10</b>	<b>11,10</b>	<b>15,70</b>	<b>22,40</b>	<b>35,20</b>
Ø	mm	<b>14</b>	<b>16</b>	<b>18</b>	<b>20</b>	<b>22</b>	<b>24</b>	
Pitch	mm	2	2	2,5	2,5	2,5	3	
Dimensions	mm	38x14	45x18	45x18	45x18	55x22	55x22	
<b>9354G</b>	<b>Each</b>	<b>35,20</b>	<b>53,10</b>	<b>53,10</b>	<b>53,10</b>	<b>94,40</b>	<b>94,40</b>	



**INOX**

**9354G**



**M HSS-E**

**Orig. Völkel - Art. 264-266**

Product description as Art. 9350G

ISO FINE METRIC THREAD, according to DIN 13 - MF Fine Metric – Tolerance 6g  
RIGHT-HAND USE.

HSS. Normal chamfer. For steel with R up to 800 N/mm<sup>2</sup>.

Ø	mm	<b>3</b>	<b>3,5</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>6</b>
Pitch	mm	<b>0,35</b>	<b>0,35</b>	<b>0,35</b>	<b>0,5</b>	<b>0,5</b>	<b>0,5</b>	<b>0,75</b>
Dimensions	mm	20x5	20x5	20x5	20x5	20x5	20x5	20x7
<b>9357G</b>	<b>Each</b>	<b>15,10</b>	<b>15,10</b>	<b>15,10</b>	<b>15,10</b>	<b>15,10</b>	<b>15,10</b>	<b>12,50</b>
Ø	mm	<b>7</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>10</b>
Pitch	mm	<b>0,75</b>	<b>0,5</b>	<b>0,75</b>	<b>1</b>	<b>1</b>	<b>0,5</b>	<b>0,75</b>
Dimensions	mm	25x9	25x9	25x9	25x9	25x9	30x11	30x11
<b>9357G</b>	<b>Each</b>	<b>16,10</b>	<b>16,10</b>	<b>13,40</b>	<b>13,40</b>	<b>20,20</b>	<b>20,20</b>	<b>20,20</b>
Ø	mm	<b>10</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>14</b>
Pitch	mm	<b>1</b>	<b>1,25</b>	<b>1</b>	<b>1</b>	<b>1,25</b>	<b>1,5</b>	<b>1</b>
Dimensions	mm	30x11	30x11	30x11	38x10	38x10	38x10	38x10
<b>9357G</b>	<b>Each</b>	<b>16,10</b>	<b>16,10</b>	<b>23,10</b>	<b>20,20</b>	<b>20,20</b>	<b>19,60</b>	<b>25,60</b>
Ø	mm	<b>14</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>16</b>	<b>18</b>	<b>18</b>
Pitch	mm	<b>1,25</b>	<b>1,5</b>	<b>1</b>	<b>1</b>	<b>1,5</b>	<b>1</b>	<b>1,5</b>
Dimensions	mm	38x10	38x10	38x10	45x14	45x14	45x14	45x14
<b>9357G</b>	<b>Each</b>	<b>22,40</b>	<b>22,40</b>	<b>35,20</b>	<b>35,20</b>	<b>27,20</b>	<b>32,80</b>	<b>27,20</b>
Ø	mm	<b>18</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>22</b>	<b>22</b>	<b>24</b>
Pitch	mm	<b>2</b>	<b>1</b>	<b>1,5</b>	<b>2</b>	<b>1,5</b>	<b>2</b>	<b>1</b>
Dimensions	mm	45x14	45x14	45x14	45x14	55x16	55x16	55x16
<b>9357G</b>	<b>Each</b>	<b>32,80</b>	<b>32,80</b>	<b>27,20</b>	<b>32,80</b>	<b>45,10</b>	<b>53,10</b>	<b>53,10</b>
Ø	mm	<b>24</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>27</b>	<b>28</b>
Pitch	mm	<b>1,5</b>	<b>2</b>	<b>1,5</b>	<b>1,5</b>	<b>1,5</b>	<b>2</b>	<b>1,5</b>
Dimensions	mm	55x16	55x16	55x16	55x16	65x18	65x18	65x18
<b>9357G</b>	<b>Each</b>	<b>45,10</b>	<b>53,10</b>	<b>69,10</b>	<b>69,10</b>	<b>78,40</b>	<b>78,40</b>	<b>78,40</b>
Ø	mm	<b>30</b>	<b>30</b>	<b>30</b>	<b>32</b>	<b>33</b>	<b>33</b>	<b>34</b>
Pitch	mm	<b>1</b>	<b>1,5</b>	<b>2</b>	<b>1,5</b>	<b>1,5</b>	<b>2</b>	<b>1,5</b>
Dimensions	mm	65x18	65x18	65x18	65x18	65x18	65x18	65x18
<b>9357G</b>	<b>Each</b>	<b>78,40</b>	<b>78,40</b>	<b>78,40</b>	<b>78,40</b>	<b>78,40</b>	<b>78,40</b>	<b>78,40</b>
Ø	mm	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>39</b>	<b>39</b>	<b>39</b>
Pitch	mm	<b>1</b>	<b>1,5</b>	<b>2</b>	<b>3</b>	<b>1,5</b>	<b>2</b>	<b>3</b>
Dimensions	mm	65x18	65x18	65x18	65x25	75x20	75x20	75x30
<b>9357G</b>	<b>Each</b>	<b>111,00</b>	<b>78,40</b>	<b>78,40</b>	<b>78,40</b>	<b>125,00</b>	<b>125,00</b>	<b>125,00</b>
Ø	mm	<b>40</b>	<b>40</b>	<b>40</b>				
Pitch	mm	<b>1,5</b>	<b>2</b>	<b>3</b>				
Dimensions	mm	75x20	75x20	75x30				
<b>9357G</b>	<b>Each</b>	<b>125,00</b>	<b>125,00</b>	<b>125,00</b>				



**9357G**



**MF HSS**

9358G




LEFT USAGE

MF HSS

**Orig. Völkel - Art. 262**

Product description as Art. 9350G

ISO FINE METRIC THREAD, according to DIN 13 - MF Fine Metric – Tolerance 6g  
LEFT-HAND USE.HSS. Normal chamfer. For steel with R up to 800 N/mm<sup>2</sup>.

Ø	mm	6	8	8	10	10	12	12
Pitch	mm	0,75	0,75	1	1	1,25	1	1,25
Dimensions	mm	20x7	25x9	25x9	30x11	30x11	38x10	38x10
<b>9358G</b>	<b>Each</b>	<b>18,50</b>	<b>20,10</b>	<b>20,10</b>	<b>24,10</b>	<b>24,10</b>	<b>29,40</b>	<b>29,40</b>
Ø	mm	12	14	14	16	16	18	20
Pitch	mm	1,5	1,25	1,5	1	1,5	1,5	1,5
Dimensions	mm	38x10	38x10	38x10	45x14	45x14	45x14	45x14
<b>9358G</b>	<b>Each</b>	<b>29,40</b>	<b>30,50</b>	<b>30,50</b>	<b>41,60</b>	<b>41,60</b>	<b>46,50</b>	<b>46,50</b>
Ø	mm	22	24	24	30			
Pitch	mm	1,5	1,5	2	2			
Dimensions	mm	55x16	55x16	55x16	65x18			
<b>9358G</b>	<b>Each</b>	<b>66,10</b>	<b>66,10</b>	<b>66,10</b>	<b>129,00</b>			

9360G




BSW HSS

**Orig. Völkel - Art. 224**

Product description as Art. 9350G

BSW WHITWORTH THREAD, according to BS 84  
RIGHT-HAND USE.HSS. Normal chamfer. For steel with R up to 800 N/mm<sup>2</sup>.

Ø	inches	1/8	5/32	3/16	7/32	1/4	5/16	3/8
Threads per inch	No	40	32	24	24	20	18	16
Dimensions	mm	20x5	20x5	20x7	20x7	20x7	25x9	30x11
<b>9360G</b>	<b>Each</b>	<b>14,10</b>	<b>14,10</b>	<b>14,10</b>	<b>14,10</b>	<b>14,10</b>	<b>16,10</b>	<b>17,60</b>
Ø	inches	7/16	1/2	9/16	5/8	3/4	7/8	1
Threads per inch	No	14	12	12	11	10	9	8
Dimensions	mm	30x11	38x14	38x14	45x18	45x18	55x22	55x22
<b>9360G</b>	<b>Each</b>	<b>20,40</b>	<b>23,10</b>	<b>28,20</b>	<b>31,10</b>	<b>31,10</b>	<b>47,90</b>	<b>47,90</b>

9362G




BSF HSS

**Orig. Völkel - Art. 228**

Product description as Art. 9350G

BSF FINE WHITWORTH THREAD (BS 84 STANDARD)  
RIGHT-HAND USE.HSS. Normal chamfer. For steel with R up to 800 N/mm<sup>2</sup>.

Ø	inches	3/16	1/4	5/16	3/8	7/16	1/2	5/8
Threads per inch	No	32	26	22	20	18	16	14
Dimensions	mm	20x7	20x7	25x9	30x11	30x11	38x10	45x14
<b>9362G</b>	<b>Each</b>	<b>14,10</b>	<b>14,10</b>	<b>16,10</b>	<b>19,20</b>	<b>20,40</b>	<b>28,80</b>	<b>43,60</b>
Ø	inches	3/4	7/8	1				
Threads per inch	No	12	11	10				
Dimensions	mm	45x14	55x22	55x22				
<b>9362G</b>	<b>Each</b>	<b>43,60</b>	<b>55,90</b>	<b>55,90</b>				

9364G




UNC HSS

**Orig. Völkel - Art. 234**

Product description as Art. 9350G

UNC AMERICAN THREAD, according to ANSI-B1.1  
RIGHT-HAND USE.HSS. Normal chamfer. For steel with R up to 800 N/mm<sup>2</sup>.

Thread UNC		No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 8
Threads per inch	No	64	56	48	40	40	32	32
Dimensions	mm	16x5	16x5	16x5	20x5	20x5	20x7	20x7
<b>9364G</b>	<b>Each</b>	<b>24,10</b>	<b>24,10</b>	<b>24,10</b>	<b>17,60</b>	<b>17,60</b>	<b>17,60</b>	<b>17,60</b>
Thread UNC		No. 10	No. 12	1/4	5/16	3/8	7/16	1/2
Threads per inch	No	24	24	20	18	16	14	13
Dimensions	mm	20x7	20x7	20x7	25x9	30x11	30x11	38x14
<b>9364G</b>	<b>Each</b>	<b>17,60</b>	<b>17,60</b>	<b>14,10</b>	<b>16,10</b>	<b>17,60</b>	<b>20,40</b>	<b>23,10</b>
Thread UNC		9/16	5/8	3/4	7/8	1		
Threads per inch	No	12	11	10	9	8		
Dimensions	mm	38x14	45x18	45x18	55x22	55x22		
<b>9364G</b>	<b>Each</b>	<b>28,20</b>	<b>31,10</b>	<b>31,10</b>	<b>47,90</b>	<b>47,90</b>		

**Orig. Völkel - Art. 244**

Product description as Art. 9350G

UNF AMERICAN THREAD, according to ANSI-B1.1

RIGHT-HAND USE.

 HSS. Normal chamfer. For steel with R up to 600 N/mm<sup>2</sup>.

Thread UNF		No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 8
Threads per inch	No	72	64	56	48	44	40	36
Dimensions	mm	16x5	16x5	16x5	20x5	20x5	20x5	20x7
<b>9366G</b>	<b>Each</b>	<b>24,10</b>	<b>24,10</b>	<b>24,10</b>	<b>17,60</b>	<b>17,60</b>	<b>17,60</b>	<b>17,60</b>
Thread UNF		No. 10	No. 12	1/4	5/16	3/8	7/16	1/2
Threads per inch	No	32	28	28	24	24	20	20
Dimensions	mm	20x7	20x7	20x7	25x9	30x11	30x11	38x10
<b>9366G</b>	<b>Each</b>	<b>17,60</b>	<b>17,60</b>	<b>14,10</b>	<b>16,10</b>	<b>17,60</b>	<b>20,40</b>	<b>23,10</b>
Thread UNF		9/16	5/8	3/4	7/8	1		
Threads per inch	No	18	18	16	14	12		
Dimensions	mm	38x10	45x14	45x14	55x16	55x16		
<b>9366G</b>	<b>Each</b>	<b>28,20</b>	<b>31,10</b>	<b>31,10</b>	<b>47,90</b>	<b>47,90</b>		


**9366G**


UNF HSS

**Orig. Völkel - Art. 254**

Closed type, fully ground according to DIN-EN 24231.

CYLINDRICAL GAS THREAD G (BSP), according to DIN 228-1

RIGHT-HAND USE.

 HSS. Normal chamfer. For steel with R up to 800 N/mm<sup>2</sup>.

Ø	inches	1/8	1/4	3/8	1/2	5/8	3/4	7/8
Threads per inch	No	28	19	19	14	14	14	14
Dimensions	mm	30x11	38x10	45x14	45x14	55x16	55x16	65x18
<b>9368G</b>	<b>Each</b>	<b>21,10</b>	<b>21,10</b>	<b>27,90</b>	<b>27,90</b>	<b>46,50</b>	<b>46,50</b>	<b>61,10</b>
Ø	inches	1	1.1/8	1.1/4	1.3/8	1.1/2	1.3/4	2
Threads per inch	No	11	11	11	11	11	11	11
Dimensions	mm	65x18	75x20	75x20	90x22	90x22	105x22	105x22
<b>9368G</b>	<b>Each</b>	<b>61,10</b>	<b>95,80</b>	<b>95,80</b>	<b>163,00</b>	<b>163,00</b>	<b>342,00</b>	<b>342,00</b>


**9368G**


BSP HSS

**Orig. Völkel - Art. 236**

Closed type, fully ground.

NPT AMERICAN THREAD - Taper 1:16.

RIGHT-HAND USE.

 HSS. Normal chamfer. For steel with R up to 800 N/mm<sup>2</sup>.

Ø	inches	1/8	1/4	3/8	1/2	3/4	1	1.1/4	
Threads per inch	No	27	18	18	14	14	11 1/2	11 1/2	
Dimensions	mm	30x11	38x14	45x14	45x18	55x22	65x25	75x26	
<b>9370G</b>	<b>Each</b>	<b>45,30</b>	<b>54,50</b>	<b>69,10</b>	<b>69,10</b>	<b>111,00</b>	<b>163,00</b>	<b>192,00</b>	
Ø	inches	1.1/2	2						
Threads per inch	No	11 1/2	11 1/2						
Dimensions	mm	90x27	105x28						
<b>9370G</b>	<b>Each</b>	<b>313,00</b>	<b>416,00</b>						


**9370G**


NPT HSS

**Orig. Völkel - Art. 970**

Fully configured.

R CONICAL GAS THREAD (BSPT) with 1:16 55° taper.

RIGHT HAND USE

 In HSS steel, normal chamfer, for steels with R up to 800 N/mm<sup>2</sup>.

Ø	inches	1/8	1/4	3/8	1/2	3/4	1	1.1/4
Threads per inch	No	28	19	19	14	14	11	11
Dimensions	mm	38x11	38x16	50x18	50x22	50x24	63x28	75x32
<b>9372G</b>	<b>Each</b>	<b>23,30</b>	<b>23,30</b>	<b>47,20</b>	<b>47,20</b>	<b>47,20</b>	<b>78,40</b>	<b>106,00</b>


**9372G**


BSPT HSS

**Orig. Völkel - Art. 258**

Closed, completely ground.

PG thread in accordance with DIN 40430.

USE RIGHT

 In steel HSS, normal chamfer, for steels with R up to 800 N/mm<sup>2</sup>.

Ø	inches	7	9	11	13,5	16	21	29
Threads per inch	No	20	18	18	18	18	16	16
Dimensions	mm	38x10	45x14	45x14	45x14	55x16	65x18	65x18
<b>9374G</b>	<b>Each</b>	<b>51,70</b>	<b>63,20</b>	<b>63,20</b>	<b>63,20</b>	<b>74,10</b>	<b>115,00</b>	<b>115,00</b>


**9374G**  
new


PG HSS

**EXTENSION HOLDERS FOR TAPS**

9380G


**VÖLKEL**  
THREADING SOLUTIONS


Orig. Völkel - Art. 145-146

WOLFRAM steel. DIN 377.

Extensions and drive (external and internal) of the same size, hardened according to DIN 10.

Type		60	70	80	90	95	100	105
Overall length	mm	60	70	80	90	95	100	105
Frame	mm	2,1	2,4	2,7	3	3,4	3,8	4,3
Thread	M.	1-2,6	-	3	3,5	4	-	-
<b>9380G</b>	Each	<b>4,00</b>	<b>4,00</b>	<b>4,00</b>	<b>4,00</b>	<b>4,00</b>	<b>4,80</b>	<b>5,82</b>
Type		110	115	120	125	130	135	140
Overall length	mm	110	115	120	125	125	130	140
Frame	mm	4,9	5,5	6,2	7	8	9	10
Thread	M.	4-5-8	9-10	11	12	-	14-16	-
<b>9380G</b>	Each	<b>4,50</b>	<b>5,08</b>	<b>5,60</b>	<b>6,90</b>	<b>8,64</b>	<b>9,44</b>	<b>12,50</b>
Type		150	155	175	185	195	210	
Overall length	mm	150	155	175	180	200	220	
Frame	mm	11	12	14,5	16	18	20	
Thread	M.	18	20	22-24	27	30	33	
<b>9380G</b>	Each	<b>15,20</b>	<b>19,90</b>	<b>27,20</b>	<b>28,80</b>	<b>33,60</b>	<b>43,20</b>	

**COMPLETE TAPS AND DIES SETS**

9385G


**VÖLKEL**  
THREADING SOLUTIONS

**M HSS**

Orig. Völkel - Art. 49511

M Coarse metric thread.

HSS assortment.

3 hand taps sets for M3-4-5-6-8-10-12 thread.

1 pc. for HSS drills mm 2,5 - 3,3 - 4,2 - 5 - 6,8 - 8,5 - 10,2

1 adjustable tap wrench Art. 9476 G 1 1/2

1 tap wrench with ratchet M 3-10.

In enameled steel case.

**9385G** Each **141,00**

9387G


**GEDORE**

**M HSS 1/4"**

Orig. Gedore - Art. 8553

M Coarse metric thread.

HSSG assortment:

No.3 hand tap sets and No.1 die for size for M 3 - 4 - 5 - 6 thread

No.4 guide disks for die M 3 - 4 - 5 - 6. 1 thickness, No.10 threaded screws M 4x6 for die, No.1 ratchet lever, 1/4 drive Art. 943 G, No.1 extension, 1/4 drive Art. 942 E 100, No.1 Allen wrench 2.1mm, tap wrench with jaw chuck, 1/4 female drive Art. 9497 GA, No.1 die-holder, 1/4 female drive Art. 9497 GL.

In plastic case.

**9387G** Each **354,00**

9388G


**VÖLKEL**  
THREADING SOLUTIONS

**M HSS**

Orig. Völkel - Art. 49107

M Coarse metric thread.

HSS assortment.

3 hand taps in series and 1 die for size.

With tap wrench and die holder as per assortment.

In case.

For threads	M.	3-4-5-6-8-10-12
Threading die holders Ø	mm	20x5-20x7-25x9-30x11-38x14
Adjustable tap wrench	Gr	1 + 2

**9388G** Each **224,00**

13

**Orig. Völkel - Art. 49301**

M Coarse metric thread.  
HSS assortment.  
3 hand taps in series and 1 die for size.  
With adjustable tap wrench, tap wrench with ratchet and die holder as per assortment.  
In sturdy steel case with carrying handle.

For threads	M.	5-6-8-10-12-14-16-18-20
Threading die holders Ø	mm	20x7-25x9-30x11-38x14-45x18
Adjustable tap wrench	Gr	1 + 3
Tap wrench with ratchet for taps	M.	3-10; 5-12
<b>9390G</b>	<b>Each</b>	<b>432,00</b>



**9390G**



**M HSS**

**Orig. Völkel - Art. 49201**

Product description as Art. 9390G  
For threads M. 3-4-5-6-8-10-12-14-16-18-20  
Threading die holders Ø mm 20x5-20x7-25x9-30x11-38x14-45x18  
Adjustable tap wrench Gr 1 + 3  
Tap wrench with ratchet for taps M. 3-10; 5-12

<b>9392G</b>	<b>Each</b>	<b>433,00</b>
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**9392G**



**M HSS**

**Orig. Völkel**

M Coarse Metric Thread.  
HSS assortment.  
With 3 hand taps and 1 die per size.  
With tap wrench and die holder as per assortment.  
In wooden case.

Art.		<b>9395G</b>	<b>9396G</b>
For threads	M.	5-6-7-8-9-10-11-12-14-16-18-20	3-4-5-6-8-10-12-14-16-18-20-22-24
Threading die holders Ø	mm	20x7-25x9-30x11-38x14-45x18	20x5-20x7-25x9-30x11-38x14-45x18-55x22
Adjustable tap wrench	Gr	1 + 3	1 + 4
Supplier code		48005	48006
<b>Each</b>		<b>668,00</b>	<b>908,00</b>



**9395G  
9396G**



**M HSS**

**Orig. Völkel - Art. 48011**

MF Fine metric thread.  
HSS assortment.  
2 hand taps and 1 die for size.  
With tap wrench and die holder as per assortment.  
In wooden case.

For threads	MF	6x0,75-8x0,75-8x1-10x1-12x1-12x1,5-14x1,25-14x1,5-16x1,5-18x1,5-20x1,5
Threading die holders Ø	mm	20x7-25x9-30x11-38x10-45x14
Adjustable tap wrench	Gr	1 + 3
<b>9400G</b>	<b>Each</b>	<b>610,00</b>



**9400G**



**MF HSS**

**9400GA**

**BSW****HSS**

**Orig. Völkel - Art. 48032**  
 BSW WHITWORTH thread  
 HSS assortment.  
 With 3 hand taps and 1 die per size.  
 With tap wrench and die holder as per assortment.  
 In wooden case.

For threads	inches	1/4-5/16-3/8-7/16-1/2-5/8-3/4
Threading die holders Ø	mm	20x7-25x9-30x11-38x14-45x18
Adjustable tap wrench	Gr	1 + 3
<b>9400GA</b>	<b>Each</b>	<b>574,00</b>

**9400GB**

**UNC****HSS**

**Orig. Völkel - Art. 48051**  
 UNC AMERICAN thread  
 HSS assortment.  
 With 3 hand taps and 1 die per size.  
 With tap wrench and die holder as per assortment.  
 In wooden case.

For threads	inches	1/4-5/16-3/8-7/16-1/2-5/8-3/4
Threading die holders Ø	mm	20x7-25x9-30x11-38x14-45x18
Adjustable tap wrench	Gr	1 + 3
<b>9400GB</b>	<b>Each</b>	<b>574,00</b>

**9400GC**

**UNF****HSS**

**Orig. Völkel - Art. 48061**  
 UNF AMERICAN thread  
 HSS assortment.  
 With 2 hand taps and 1 die per size.  
 With tap wrench and die holder as per assortment.  
 In wooden case.

For threads	inches	1/4-5/16-3/8-7/16-1/2-5/8-3/4
Threading die holders Ø	mm	20x7-25x9-30x11-38x10-45x18
Tap wrench	Gr	1 + 3
<b>9400GC</b>	<b>Each</b>	<b>523,00</b>

**9400GD**

**UNC****UNF****HSS**

**Orig. Völkel - Art. 48066**  
 The AMERICAN UNC + thread UNF  
 Super-rapid HSS steel assortment.  
 Set of 3 males and 1 chain measuring unit (UNC).  
 Set of 2 males and 1 chain measuring unit (UNF).  
 Tap wrenches and dyes are included as part of the set.  
 Comes in a box.

For threads	inches	1/4-5/16-3/8-7/16-1/2-5/8-3/4
Threading die holders Ø	mm	20x7-25x9-30x11-38x14-45x18
Tap wrench	Gr	1 + 3
<b>9400GD</b>	<b>Each</b>	<b>973,00</b>



**Orig. Völkel - Art. 48021**

GAS CYLINDRICAL G thread (BSP)

HSS assortment.

With 2 hand taps and 1 die per size.

With tap wrench and die holder as per assortment.

In wooden case.

For threads	inches	1/8-1/4-3/8-1/2-5/8-3/4-7/8-1
Threading die holders Ø	mm	30x11-38x10-45x14-55x16-65x18
Adjustable tap wrench	Gr	1 + 3 + 5

<b>9400GE</b>	Each	<b>1.010,00</b>
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**9400GE**

**BSP**
**HSS**
**MACHINE TAP SETS**
**Orig. Völkel - Art. 47815**

M Coarse Metric thread.

1 pc. per size HSS-E machine taps, with chamfer for through holes, for M: 3-4-5-6-8-10-12 thread.

In enameled steel case.

<b>9400GH</b>	Each	<b>76,70</b>
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**9400GH**

**M**
**HSS-E**
**Orig. Völkel - Art. 47817**

M Coarse Metric thread

1 pc. per size HSS-E machine taps, short chamfer, 35° spiral flute for deep blind holes, for M: 3-4-5-6-8-10-12 thread.

In plastic case.

<b>9400GI</b>	Each	<b>89,30</b>
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**9400GI**

**M**
**HSS-E**
**Orig. Völkel - Art. 47835**

M Coarse metric thread.

HSS-E machine taps, 1pc for size, correct chamfer for deep through holes, for M 3-4-5-6-8-10-12 thread.

1pc for HSS bit size, DIN 338, for drilling 2.5-3.3-4-2-5.0-6.8-8.5-10.2mm.

In enameled steel case.

<b>9400GL</b>	Each	<b>92,90</b>
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**9400GL**

**M**
**HSS-E**
**Orig. Völkel - Art. 47847**

M Coarse metric thread.

HSSG machine taps, 1pc for size, short chamfer, 35° spiral for deep blind holes, for M 3-4-5-6-8-10-12 thread.

1pc for HSS bit size, DIN 338, for drilling 2.5-3.3-4-2-5.0-6.8-8.5-10.2mm.

In plastic case.

<b>9400GP</b>	Each	<b>106,00</b>
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**9400GP**

**M**
**HSS-E**

**HSS-CO 5% STANDARD TAPS**

9400GT

SCU

INOX



M HSS-Co

Prod. SCU

HAND TAPS – HSS-Co 5%. RIGHT-HAND USE.

M Coarse metric thread. DIN 352. Tolerance H6. For hard steel, abrasive steel and stainless steel.

3pcs set.

For threads	mm	4	5	14	18	20	22
Pitch	mm	0,7	0,8	2	2,5	2,5	2,5
<b>9400GT</b>	<b>Per set</b>	<b>26,40</b>	<b>27,30</b>	<b>69,70</b>	<b>123,00</b>	<b>131,00</b>	<b>155,00</b>

For similar hand tap sets see Art. 9095 G.

Product running out of stock.

**HSS TAPS AND DIES**

9401G

SCU

9401GF



M HSS

Prod. SCU

HAND TAPS – HSS steel. RIGHT-HAND USE.

M Coarse Metric Thread. DIN 352. Tolerance H6.

3pcs set.

For threads	mm	2	2,5	3	4	5	6	7
Pitch	mm	0,4	0,45	0,5	0,7	0,8	1	1
<b>9401G</b>	<b>Per set</b>	<b>11,80</b>	<b>11,80</b>	<b>6,26</b>	<b>6,16</b>	<b>6,38</b>	<b>6,56</b>	<b>6,80</b>

For threads	mm	8	10	12	14	16	18	20
Pitch	mm	1,25	1,5	1,75	2	2	2,5	2,5
<b>9401G</b>	<b>Per set</b>	<b>9,38</b>	<b>11,20</b>	<b>12,30</b>	<b>18,30</b>	<b>23,60</b>	<b>31,50</b>	<b>40,50</b>

For threads	mm	22	24	27	30
Pitch	mm	2,5	3	3	3,5
<b>9401G</b>	<b>Per set</b>	<b>46,70</b>	<b>51,10</b>	<b>62,60</b>	<b>87,10</b>

Product description as Art. 9401G

Finishing tap only.

For threads	mm	3	4	5	6	8	10	12
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
<b>9401GF</b>	<b>Each</b>	<b>2,18</b>	<b>2,14</b>	<b>2,22</b>	<b>2,28</b>	<b>3,26</b>	<b>3,88</b>	<b>4,28</b>

For threads	mm	14	16	18	20
Pitch	mm	2	2	2,5	2,5
<b>9401GF</b>	<b>Each</b>	<b>6,38</b>	<b>8,22</b>	<b>11,10</b>	<b>14,20</b>

9401GS

SCU



LEFT HAND USAGE

M HSS

HAND TAPS – HSS steel. RIGHT-HAND USE.

M Coarse Metric Thread. DIN 352. Tolerance H6.

3pcs set.

For threads	mm	5	16	18	20	22	24
Pitch	mm	0,8	2	2,5	2,5	2,5	3
<b>9401GS</b>	<b>Per set</b>	<b>25,10</b>	<b>51,40</b>	<b>98,30</b>	<b>117,00</b>	<b>166,00</b>	<b>183,00</b>

For similar hand tap sets see Art. 9103 G.

Product running out of stock.

9402G

SCU



MF HSS

HAND TAPS – HSS steel. RIGHT-HAND USE.

MF Fine Metric Thread. DIN 2181. Tolerance H6.

2pcs set.

For threads	mm	4	5	6	8	8	10	10
Pitch	mm	0,5	0,5	0,75	0,75	1	1	1,25
<b>9402G</b>	<b>Per set</b>	<b>10,10</b>	<b>11,60</b>	<b>12,10</b>	<b>14,20</b>	<b>12,10</b>	<b>15,90</b>	<b>13,10</b>

For threads	mm	12	12	12	14	14	14	16
Pitch	mm	1	1,25	1,5	1	1,25	1,5	1
<b>9402G</b>	<b>Per set</b>	<b>19,10</b>	<b>15,10</b>	<b>14,60</b>	<b>21,60</b>	<b>21,10</b>	<b>18,20</b>	<b>23,70</b>

For threads	mm	16	18	20	22	24	24	27
Pitch	mm	1,5	1,5	1,5	1,5	1,5	2	2
<b>9402G</b>	<b>Per set</b>	<b>19,50</b>	<b>29,80</b>	<b>32,70</b>	<b>41,30</b>	<b>47,10</b>	<b>48,90</b>	<b>70,90</b>

For threads	mm	30
Pitch	mm	2
<b>9402G</b>	<b>Per set</b>	<b>83,60</b>

**HSS HAND TAPS. RIGHT-HAND USE.**

Thread: BSF Whitworth Pitch. DIN 2181. Tolerance H6.

Set: 2 pcs.

For threads	inches	3/16	5/16	3/8	1/2	5/8	3/4	1
Threads per inch	No	32	22	20	16	14	12	10
<b>9403GF</b>	<b>Per set</b>	<b>23,30</b>	<b>27,90</b>	<b>32,50</b>	<b>44,30</b>	<b>60,60</b>	<b>81,40</b>	<b>135,00</b>

For similar hand tap sets see Art. 9120 G.

Product running out of stock.


**9403GF**

**BSF HSS**
**HAND TAPS – HSS steel. RIGHT-HAND USE.**

UNC American Thread. DIN 352-ANSI-B1-1. Tolerance H6.

3pcs set.

Thread UNC	No	No. 6	No. 8	No. 10	No. 12	5/16	7/16	9/16
Threads per inch	No	32	32	24	24	18	14	12
<b>9404GC</b>	<b>Per set</b>	<b>34,90</b>	<b>34,90</b>	<b>38,30</b>	<b>38,30</b>	<b>41,80</b>	<b>51,70</b>	<b>82,50</b>

For similar hand tap sets see Art. 9125 G.

Product running out of stock.


**9404GC**

**UNC HSS**
**HAND TAPS – HSS steel. RIGHT-HAND USE.**

UNF American Thread. DIN 2181-ANSI-B1-1. Tolerance H6.

2pcs set.

Thread UNF	No	No. 6	No. 8	No. 10	No. 12
Threads per inch	No	40	36	32	28
<b>9404GF</b>	<b>Per set</b>	<b>30,20</b>	<b>30,20</b>	<b>30,20</b>	<b>30,20</b>

For similar hand tap sets see Art. 9130 G.

Product running out of stock.


**9404GF**

**UNF HSS**
**SHORT HAND/MACHINE TAPS. Made from HSS steel. RIGHT-HAND USE.**

NPT American conical thread, taper 1:16. ANSI-B2.1.

For threads	inches	1/8	1/4	3/8	1/2	3/4	1	1.1/4
Threads per inch	No	27	18	18	14	14	11,5	11,5
Overall length	mm	54	62	65	79	83	95	102
Thread length	mm	19	27	27	35	35	44	44
<b>9404GR</b>	<b>Each</b>	<b>39,20</b>	<b>43,50</b>	<b>56,20</b>	<b>74,50</b>	<b>102,00</b>	<b>153,00</b>	<b>266,00</b>


**9404GR**

**NPT HSS**
**SHORT HAND/MACHINE TAPS. Made from HSS steel. RIGHT-HAND USE.**

BSPT conical gas thread, taper 1:16.

For threads	inches	1/8	1/4	3/8	1/2	3/4	1	1.1/4
Threads per inch	No	28	19	19	14	14	11	11
Overall length	mm	59	67	75	87	96	109	119
Thread length	mm	15	19	21	26	28	33	36
<b>9404GS</b>	<b>Each</b>	<b>47,60</b>	<b>54,30</b>	<b>65,90</b>	<b>85,20</b>	<b>116,00</b>	<b>167,00</b>	<b>269,00</b>


**9404GS**

**BSPT HSS**
**HSS MACHINE TAPS. RIGHT-HAND USE.**

Reinforced shank, correct chamfer for through holes.

M Coarse Metric Thread. DIN 371 B. Tolerance H6.

For threads	mm	3	4	5	6	8	10
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5
<b>9405GA</b>	<b>Each</b>	<b>7,92</b>	<b>7,92</b>	<b>7,92</b>	<b>8,44</b>	<b>9,66</b>	<b>11,50</b>


**9405GA**

**M HSS**

**9405GB**


**M HSS**

Product description as Art. 9405GA

Reduced shank, correct chamfer for through holes.

M Coarse Metric Thread. DIN 376 B. Tolerance H6.

For threads	mm	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
<b>9405GB</b>	<b>Each</b>	<b>12,40</b>	<b>12,70</b>	<b>12,40</b>	<b>8,90</b>	<b>14,30</b>	<b>17,10</b>	<b>13,40</b>
For threads	mm	<b>14</b>	<b>16</b>	<b>18</b>	<b>20</b>	<b>22</b>	<b>24</b>	
Pitch	mm	2	2	2,5	2,5	2,5	3	
<b>9405GB</b>	<b>Each</b>	<b>16,50</b>	<b>19,50</b>	<b>26,70</b>	<b>28,10</b>	<b>33,90</b>	<b>37,30</b>	

**9405GBR**


**M HSS**

Product description as Art. 9405GA

Reduced shank, short chamfer for through and blind holes.

Thread: Coarse Metric M. DIN 376 C. Tolerance H6.

For threads	mm	<b>10</b>	<b>12</b>	<b>14</b>	<b>18</b>	<b>20</b>	<b>22</b>	<b>24</b>
Pitch	mm	1,5	1,75	2	2,5	2,5	2,5	3
<b>9405GBR</b>	<b>Each</b>	<b>15,30</b>	<b>18,60</b>	<b>22,90</b>	<b>37,10</b>	<b>38,80</b>	<b>47,10</b>	<b>51,70</b>

For similar machine tap sets see Art. 9212 G.

Product running out of stock.

**9405GD**


**M HSS**

Product description as Art. 9405GA

Type with through shank, right-hand 15° spiral flute for blind holes.

Thread: Coarse metric thread M. DIN 376 C. Tolerance H6.

For threads	mm	<b>3</b>	<b>4</b>	<b>6</b>	<b>18</b>	<b>20</b>	<b>22</b>	
Pitch	mm	0,5	0,7	1	2,5	2,5	2,5	
<b>9405GD</b>	<b>Each</b>	<b>14,10</b>	<b>14,80</b>	<b>14,80</b>	<b>44,50</b>	<b>47,40</b>	<b>57,80</b>	

For similar machine tap sets see Art. 9232 G.

Product running out of stock.

**9405GE**


**M HSS**

Product description as Art. 9405GA

Reinforced shank, 35° spiral flute for deep blind holes.

M Coarse Metric Thread. DIN 371 C. Tolerance H6.

For threads	mm	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	
<b>9405GE</b>	<b>Each</b>	<b>9,60</b>	<b>9,60</b>	<b>9,60</b>	<b>10,10</b>	<b>11,10</b>	<b>13,40</b>	

**9405GF**


**M HSS**

Product description as Art. 9405GA

Reduced shank, 35° spiral flute for deep blind holes.

M Coarse Metric Thread. DIN 376 C. Tolerance H6.

For threads	mm	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
<b>9405GF</b>	<b>Each</b>	<b>16,10</b>	<b>16,80</b>	<b>16,90</b>	<b>17,10</b>	<b>17,80</b>	<b>22,30</b>	<b>16,80</b>
For threads	mm	<b>14</b>	<b>16</b>	<b>18</b>	<b>20</b>	<b>22</b>	<b>24</b>	
Pitch	mm	2	2	2,5	2,5	2,5	3	
<b>9405GF</b>	<b>Each</b>	<b>20,10</b>	<b>23,50</b>	<b>31,10</b>	<b>33,10</b>	<b>40,20</b>	<b>74,80</b>	

**HSS-CO 5% STANDARD TAPS**
**9405GH**


**M HSS-Co**

Prod. SCU

COBALT HSS-Co 5% MACHINE TAPS.

RIGHT-HAND USE.

Reinforced shank, chamfer suitable for through holes, straight spiral flute with alternate threads.

Thread: Coarse Metric M. DIN 371 B. Tolerance H6.

For threads	mm	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>10</b>	
Pitch	mm	0,5	0,7	0,8	1	1,5	
<b>9405GH</b>	<b>Each</b>	<b>20,20</b>	<b>20,20</b>	<b>20,20</b>	<b>21,60</b>	<b>28,80</b>	

For similar machine tap sets see Art. 9187 G.

Product running out of stock.

Product description as Art. 9405GH

Reduced shank, chamfer suitable for through holes, straight spiral flute with alternate threads.

Thread: Coarse Metric M. DIN 376 B. Tolerance H6.

For threads	mm	3	4	6	14	18	22	24
Pitch	mm	0,5	0,7	1	2	2,5	2,5	3
<b>9405GHA</b>	<b>Each</b>	<b>21,60</b>	<b>22,10</b>	<b>23,10</b>	<b>43,30</b>	<b>60,70</b>	<b>94,80</b>	<b>99,00</b>

For similar machine tap sets see Art. 9220 G.  
Product running out of stock.



MACHINE TAPS FOR NUTS – HSS-Co 5%.

RIGHT-HAND USE.

Long type.

M Coarse Metric Thread. DIN 357. Tolerance H6. For hard steel, abrasive steel and stainless steel.

For threads	mm	3	4	5	6	8	10	12
Pitch	mm	0,5	0,7	0,8	1	1,25	1,5	1,75
Overall length	mm	70	90	100	110	125	140	180
<b>9405GL</b>	<b>Each</b>	<b>14,10</b>	<b>15,60</b>	<b>17,10</b>	<b>18,10</b>	<b>22,30</b>	<b>26,10</b>	<b>33,40</b>

For threads	mm	14	16	18	20	22	24
Pitch	mm	2	2	2,5	2,5	2,5	3
Overall length	mm	200	200	220	250	280	280
<b>9405GL</b>	<b>Each</b>	<b>42,30</b>	<b>49,10</b>	<b>56,50</b>	<b>61,60</b>	<b>105,00</b>	<b>124,00</b>



COBALT HSS-Co 5% MACHINE TAPS.

LEFT-HAND USE.

Reinforced shank, short chamfer for through and blind holes.

Thread: Coarse Metric M. DIN 371 C. Tolerance H6.

For threads	mm	3	4	5	10
Pitch	mm	0,5	0,7	0,8	1,5
<b>9405GM</b>	<b>Each</b>	<b>30,20</b>	<b>30,20</b>	<b>31,50</b>	<b>43,00</b>

For similar machine tap sets see Art. 9164 G.  
Product running out of stock.



Product description as Art. 9405GM

Reduced shank, short chamfer for through and blind holes.

Thread: Coarse Metric M. DIN 376 C. Tolerance H6.

For threads	mm	12	14	16	18	20	22	24
Pitch	mm	1,75	2	2	2,5	2,5	2,5	3
<b>9405GMA</b>	<b>Each</b>	<b>51,10</b>	<b>66,30</b>	<b>74,30</b>	<b>103,00</b>	<b>142,00</b>	<b>150,00</b>	<b>162,00</b>

For similar machine tap sets see Art. 9213 G.  
Product running out of stock.



COBALT HSS-Co 5% MACHINE TAPS.

RIGHT-HAND USE.

Reduced shank, chamfer suitable for through holes.

Thread: Coarse Metric - MF Fine pitch. DIN 374 B. Tolerance H6.

For threads	mm	4	5	6	8	10	10	12
Pitch	mm	0,5	0,5	0,75	0,75	1	1,25	1
<b>9405GR</b>	<b>Each</b>	<b>31,10</b>	<b>31,70</b>	<b>31,70</b>	<b>36,70</b>	<b>37,40</b>	<b>44,30</b>	<b>40,10</b>

For threads	mm	12	12	14	16	18	20	22
Pitch	mm	1,25	1,5	1,25	1	1,5	1,5	1,5
<b>9405GR</b>	<b>Each</b>	<b>46,40</b>	<b>38,10</b>	<b>50,20</b>	<b>58,40</b>	<b>68,60</b>	<b>75,60</b>	<b>106,00</b>

For threads	mm	24	24	27	30
Pitch	mm	1,5	2	2	2
<b>9405GR</b>	<b>Each</b>	<b>127,00</b>	<b>127,00</b>	<b>154,00</b>	<b>178,00</b>

For similar machine tap sets see Art. 9275 G.  
Product running out of stock.



Product description as Art. 9405GR

Reduced shank, short chamfer for through and blind holes.

Thread: Metric - MF Fine pitch. DIN 374 C. Tolerance H6.

For threads	mm	4	5	6	8	10	12	14
Pitch	mm	0,35	0,5	0,75	0,75	1,25	1	1
<b>9405GRA</b>	<b>Each</b>	<b>27,20</b>	<b>25,20</b>	<b>25,20</b>	<b>29,20</b>	<b>33,50</b>	<b>30,20</b>	<b>39,90</b>

For threads	mm	20	22	24	27
Pitch	mm	1,5	1,5	1,5	2
<b>9405GRA</b>	<b>Each</b>	<b>56,20</b>	<b>63,70</b>	<b>71,30</b>	<b>115,00</b>

For similar machine tap sets see Art. 9277 G.  
Product running out of stock.



**9405GRE** SCU



MF HSS-Co

Product description as Art. 9405GR  
 Reduced shank, 35° spiral flute, for deep blind holes.  
 Thread: Metric - MF Fine pitch. DIN 374 C. Tolerance H6.

For threads	mm	4	5	8	10	10	12	12
Pitch	mm	0,5	0,5	1	1	1,25	1	1,5
<b>9405GRE</b>	<b>Each</b>	<b>30,50</b>	<b>35,60</b>	<b>39,10</b>	<b>40,10</b>	<b>47,30</b>	<b>42,70</b>	<b>42,70</b>

For threads	mm	14	14	16	16	20	24	24
Pitch	mm	1	1,25	1	1,5	1,5	1,5	2
<b>9405GRE</b>	<b>Each</b>	<b>56,40</b>	<b>56,40</b>	<b>72,20</b>	<b>72,20</b>	<b>89,50</b>	<b>129,00</b>	<b>130,00</b>

For threads	mm	27	30
Pitch	mm	2	2
<b>9405GRE</b>	<b>Each</b>	<b>183,00</b>	<b>203,00</b>

For similar machine tap sets see Art. 9284 G.  
 Product running out of stock.

**9405GS** SCU



BSW HSS-Co

Product description as Art. 9405GR  
 Reinforced shank, chamfer suitable for through holes.  
 Thread: Whitworth pitch DIN 371 B. Tolerance H6.

For threads	inches	3/16	1/4	5/16	3/8
Threads per inch	No	24	20	18	16
<b>9405GS</b>	<b>Each</b>	<b>17,50</b>	<b>17,50</b>	<b>21,70</b>	<b>23,80</b>

For similar machine tap sets see Art. 9292 G.  
 Product running out of stock.

**9405GSA** SCU



BSW HSS-Co

Product description as Art. 9405GR  
 Reduced shank, chamfer suitable for through holes.  
 Thread: Whitworth pitch DIN 376 B. Tolerance H6.

For threads	inches	1/2	7/8	1
Threads per inch	No	12	9	8
<b>9405GSA</b>	<b>Each</b>	<b>27,50</b>	<b>96,10</b>	<b>105,00</b>

For similar machine tap sets see Art. 9298 G.  
 Product running out of stock.

**9405GSB** SCU



BSW HSS-Co

Product description as Art. 9405GR  
 Reinforced shank, 35° spiral flute, for deep blind holes.  
 Thread: Whitworth pitch DIN 371 C. Tolerance H6.

For threads	inches	1/8	3/16	1/4	5/16	3/8
Threads per inch	No	40	24	20	18	16
<b>9405GSB</b>	<b>Each</b>	<b>20,10</b>	<b>21,10</b>	<b>21,80</b>	<b>25,10</b>	<b>29,30</b>

For similar machine tap sets see Art. 9293 G.  
 Product running out of stock.

**9405GSC** SCU



BSW HSS-Co

Product description as Art. 9405GR  
 Reduced shank, 35° spiral flute, for deep blind holes.  
 Thread: Whitworth pitch DIN 376 C. Tolerance H6.

For threads	inches	1/2	5/8	3/4	7/8	1
Threads per inch	No	12	11	10	9	8
<b>9405GSC</b>	<b>Each</b>	<b>29,90</b>	<b>43,40</b>	<b>98,10</b>	<b>109,00</b>	<b>140,00</b>

For similar machine tap sets see Art. 9299 G.  
 Product running out of stock.

**9405GT** SCU



BSP HSS-Co

Product description as Art. 9405GR  
 Reduced shank, chamfer suitable for through holes.  
 Thread: BSP cylindrical GAS pitch. DIN 5156 B. Tolerance H6.

For threads	inches	3/8	1	1.1/4
Threads per inch	No	19	11	11
<b>9405GT</b>	<b>Each</b>	<b>48,30</b>	<b>174,00</b>	<b>309,00</b>

For similar machine tap sets see Art. 9320 G.  
 Product running out of stock.

**9405GTA** SCU



BSP HSS-Co

Product description as Art. 9405GR  
 Reduced shank, 35° spiral flute, for deep blind holes.  
 Thread: BSP cylindrical GAS pitch. DIN 5156 C. Tolerance H6.

For threads	inches	1/4	3/4
Threads per inch	No	19	14
<b>9405GTA</b>	<b>Each</b>	<b>46,70</b>	<b>126,00</b>

For similar machine tap sets see Art. 9324 G.  
 Product running out of stock.

Product description as Art. 9405GR

Reinforced shank, chamfer suitable for through holes.

Thread: UNC American. DIN 371 B. Tolerance H6.

Thread UNC		No. 8	No. 10	No. 12	1/4	3/8
Threads per inch	No	32	24	24	20	16
<b>9405GV</b>	<b>Each</b>	<b>22,90</b>	<b>23,10</b>	<b>23,40</b>	<b>23,10</b>	<b>31,30</b>

For similar machine tap sets see Art. 9307 G.

Product running out of stock.



Product description as Art. 9405GR

Reduced shank, chamfer suitable for through holes.

Thread: UNC American. DIN 376 B. Tolerance H6.

Thread UNC		9/16	3/4	7/8	1
Threads per inch	No	12	10	9	8
<b>9405GVA</b>	<b>Each</b>	<b>49,20</b>	<b>107,00</b>	<b>121,00</b>	<b>128,00</b>

For similar machine tap sets see Art. 9311 G.

Product running out of stock.



Product description as Art. 9405GR

Reinforced shank, 35° spiral flute, for deep blind holes.

Thread: UNC American. DIN 371 C. Tolerance H6.

Thread UNC		5/16	3/8
Threads per inch	No	18	16
<b>9405GVB</b>	<b>Each</b>	<b>33,60</b>	<b>37,10</b>

For similar machine tap sets see Art. 9309 G.

Product running out of stock.



Product description as Art. 9405GR

Reduced shank, 35° spiral flute, for deep blind holes.

Thread: UNC American. DIN 376 C. Tolerance H6.

Thread UNC		7/16	9/16	3/4	7/8	1
Threads per inch	No	14	12	10	9	8
<b>9405GVC</b>	<b>Each</b>	<b>48,90</b>	<b>70,40</b>	<b>141,00</b>	<b>171,00</b>	<b>193,00</b>

For similar machine tap sets see Art. 9311 GD.

Product running out of stock.



**HSS-CO 5% STANDARD DIES**

**Prod. SCU**

ROUND DIES – HSS-Co 5%. RIGHT-HAND USE.

M Coarse Metric Thread. DIN 223. Tolerance 6 g. For hard steel, abrasive steel and stainless steel.

For threads	mm	3	18	22
Pitch	mm	0,5	2,5	2,5
Dimensions	mm	20X5	45X18	55X22
<b>9406G</b>	<b>Each</b>	<b>21,80</b>	<b>63,70</b>	<b>93,20</b>

For similar screw dies see Art. 9354 G.

Product running out of stock.



**HSS TAPS AND DIES**

**Prod. SCU**

HSS ROUND DIES. RIGHT-HAND USE.

M Coarse Metric Thread. DIN 223. 6g tolerance.

For threads	mm	2	2,5	3	4	5	6	7
Pitch	mm	0,4	0,45	0,5	0,7	0,8	1	1
Dimensions	mm	16x5	16x5	20x5	20x5	20x7	20x7	25x9
<b>9406GA</b>	<b>Each</b>	<b>4,02</b>	<b>5,86</b>	<b>3,26</b>	<b>3,30</b>	<b>3,16</b>	<b>3,84</b>	<b>5,40</b>

For threads	mm	8	10	12	14	16	18	20
Pitch	mm	1,25	1,5	1,75	2	2	2,5	2,5
Dimensions	mm	25x9	30x11	38x14	38x14	45x18	45x18	45x18
<b>9406GA</b>	<b>Each</b>	<b>3,84</b>	<b>6,12</b>	<b>9,84</b>	<b>10,40</b>	<b>15,80</b>	<b>16,50</b>	<b>16,80</b>

For threads	mm	22	24	27	30
Pitch	mm	2,5	3	3	3,5
Dimensions	mm	55x22	55x22	65x25	65x25
<b>9406GA</b>	<b>Each</b>	<b>25,30</b>	<b>28,10</b>	<b>36,30</b>	<b>39,60</b>



**9406GD** SCU


HSS ROUND DIES. LEFT-HAND USE.

M Coarse Metric Thread. DIN 223. 6g tolerance.

For threads	mm	<b>3</b>	<b>18</b>
Pitch	mm	0,5	2,5
Dimensions	mm	20x5	45x18
<b>9406GD</b>	<b>Each</b>	<b>17,60</b>	<b>39,70</b>

For similar screw dies see Art. 9353 G.

Product running out of stock.

**9406GF** SCU


HSS ROUND DIES. RIGHT-HAND USE.

MF Fine Metric Thread. DIN 223. 6g tolerance.

For threads	mm	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>8</b>	<b>10</b>	<b>10</b>	<b>12</b>
Pitch	mm	<b>0,5</b>	<b>0,5</b>	<b>0,75</b>	<b>0,75</b>	<b>1</b>	<b>1</b>	<b>1,25</b>	<b>1</b>
Dimensions	mm	20x5	20x5	20x7	25x9	25x9	30x11	30x11	38x10
<b>9406GF</b>	<b>Each</b>	<b>9,56</b>	<b>9,56</b>	<b>9,56</b>	<b>9,84</b>	<b>9,84</b>	<b>11,40</b>	<b>11,40</b>	<b>16,20</b>
For threads	mm	<b>12</b>	<b>12</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>16</b>	<b>16</b>	<b>18</b>
Pitch	mm	<b>1,25</b>	<b>1,5</b>	<b>1</b>	<b>1,25</b>	<b>1,5</b>	<b>1</b>	<b>1,5</b>	<b>1,5</b>
Dimensions	mm	38x10	38x10	38x10	38x10	38x10	45x14	45x14	45x14
<b>9406GF</b>	<b>Each</b>	<b>16,20</b>	<b>16,20</b>	<b>17,40</b>	<b>17,40</b>	<b>17,40</b>	<b>24,40</b>	<b>24,40</b>	<b>24,80</b>
For threads	mm	<b>20</b>	<b>22</b>	<b>24</b>	<b>24</b>	<b>27</b>	<b>30</b>		
Pitch	mm	<b>1,5</b>	<b>1,5</b>	<b>1,5</b>	<b>2</b>	<b>2</b>	<b>2</b>		
Dimensions	mm	45x14	55x16	55x16	55x16	65x18	65x18		
<b>9406GF</b>	<b>Each</b>	<b>25,80</b>	<b>35,80</b>	<b>40,30</b>	<b>40,30</b>	<b>50,50</b>	<b>53,70</b>		

**9406GL** SCU


Product description as Art. 9406GF

Whitworth Thread. DIN 223. 6g tolerance.

For threads	inches	<b>3/16</b>	<b>5/8</b>	<b>1</b>
Threads per inch	No	24	11	8
Dimensions	mm	20x7	45x18	55x22
<b>9406GL</b>	<b>Each</b>	<b>13,80</b>	<b>29,70</b>	<b>51,40</b>

For similar screw dies see Art. 9360 G.

Product running out of stock.

**9406GM** SCU


Product description as Art. 9406GF

Thread: BSF Fine Whitworth pitch. DIN 223.

Tolerance 6g.

For threads	inches	<b>5/8</b>	<b>3/4</b>	<b>1</b>
Threads per inch	No	14	12	10
Dimensions	mm	45x14	45x14	55x20
<b>9406GM</b>	<b>Each</b>	<b>91,60</b>	<b>95,40</b>	<b>136,00</b>

For similar screw dies see Art. 9362 G.

Product running out of stock.

**9406GP** SCU


Product description as Art. 9406GF

Cylindrical GAS Thread for threading pipes. DIN 5158. 6g tolerance.

For threads	inches	<b>1.1/4</b>
Threads per inch	No	11
Dimensions	mm	75x20
<b>9406GP</b>	<b>Each</b>	<b>111,00</b>

For similar screw dies see Art. 9368 G.

Product running out of stock.

**9406GS** SCU


Product description as Art. 9406GF

UNC American Thread. DIN 223. 6g tolerance.

Thread UNC		<b>9/16</b>	<b>5/8</b>	<b>7/8</b>	<b>1</b>
Threads per inch	No	12	11	9	8
Dimensions	mm	38x14	45x18	55x22	55x22
<b>9406GS</b>	<b>Each</b>	<b>52,70</b>	<b>64,90</b>	<b>90,60</b>	<b>92,10</b>

For similar screw dies see Art. 9364 G.

Product running out of stock.



Product description as Art. 9406GF

NPT American Conic Thread, taper 1:16. DIN 223. 6g tolerance.

For threads	inches	1/8	1/4	3/8	1/2	3/4	1
Threads per inch	No	27	18	18	14	14	11,5
Dimensions	mm	30x11	38x14	45x18	45x18	55x22	65x25
<b>9406GV</b>	<b>Each</b>	<b>70,40</b>	<b>72,10</b>	<b>92,90</b>	<b>150,00</b>	<b>150,00</b>	<b>202,00</b>

For similar chains see Art. 9370 G

Product running out of stock.

SCU

NPT



HSS

9406GV

Product description as Art. 9406GF

BSPT Conical GAS Thread, taper 1:16. DIN 5159. 6g tolerance.

For threads	inches	1/8	1/4	3/8	1/2	1	1.1/4
Threads per inch	No	28	19	19	14	11	11
Dimensions	mm	30x11	38x14	45x18	45x18	65x25	75x26
<b>9406GZ</b>	<b>Each</b>	<b>72,50</b>	<b>80,10</b>	<b>104,00</b>	<b>161,00</b>	<b>221,00</b>	<b>279,00</b>

For similar chains see Art. 9372 G

Product running out of stock.

SCU

BSPT



HSS

9406GZ

**COMPLETE TAPS AND DIES SETS**
**Prod. SCU**

The set contains:

HSS hand taps, 1 series for each size – Art. 9401 G 3-4-5-6-8-10-12 M

HSS dies, 1 pc for each size - Ø 25x9mm, 3-4-5-6-8-10-12mm

1 extensible tap wrench Size 1 1/2

1 die holder Ø 25x9mm.

In case.

<b>9407GS</b>	<b>Each</b>	<b>104,00</b>
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SCU



M

HSS

9407GS

**Orig. Völkel - Art. 49111**

The set contains:

HSS hand taps, 1 series for each size 3-4-5-6-8-10-12 M

HSS dies, 1 series for each size 3-4-5-6-8-10-12mm

HSS drills, 1 pc for each size 2.5-3.3-4.2-5-6-8-8.5-10.25mm

Extensible tap wrench Size 1 and 2, 1 pc for each size

Die-holder, 1 pc for each size Ø 20x5-20x7-25x9-30x11-38x14mm.

In plastic case.

<b>9407GT</b>	<b>Each</b>	<b>199,00</b>
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M

HSS

9407GT

**Orig. Völkel - Art. 47001**

The set contains:

HSS hand taps, 1 series for each size 3-4-5-6-8-10-12 M.

In enameled cast iron case.

<b>9408GA</b>	<b>Each</b>	<b>95,80</b>
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M

HSS

9408GA

**9408GE** **VÖLKEL**  
THREADING SOLUTIONS

**HSS**

Orig. Völkel - Art. 49510

The set contains:

HSS taps, 1 series for each size M 3-4-5-6-8-10-12

HSS drills, 1 pc for each size 2,5-3,3-4,2-5-6,8-8,5-10,2mm

1 extensible tap wrench Size 1 1/2.

In case.



M

**9408GE** Each **131,00**

**9408GH** **VÖLKEL**  
THREADING SOLUTIONS

**HSS**

Orig. Völkel - Art. 49501

Each set contains:

1 series per size HSS taps M 3-4-5-6-8-10-12

1 pc. per size HSS dies - Ø 25x9 da M 3-4-5-6-8-10-12mm

1 extensible tap wrench Size 1 1/2

1 die holder Ø 25x9mm

1 ratchet tap wrench Size M 3 - 10.

In case.



M

**9408GH** Each **143,00**

**9408GP** **VÖLKEL**  
THREADING SOLUTIONS

**HSS**

Orig. Völkel - Art. 49205

Each set contains:

1 series per size HSS taps M 3-4-5-6-8-10-12-14-16-18-20

1 pc. per size HSS dies M 3-4-5-6-8-10-12-14-16-18-20

1 pc. per size extensible tap wrenches Size 1 and 3

1 pc. per size die holders Ø 20x5 - 20x7 - 25x9 - 30x11 - 38x14 - 45x18mm

In case.



M

**9408GP** Each **511,00**

**CHROME STEEL TAPS AND DIES**

**9410** **SCU**



M

Prod. SCU

HAND TAPS – CHROME steel. RIGHT-HAND USE.

M Coarse Metric Thread.

3pcs set.

For threads	mm	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
Pitch	mm	0,4	0,5	0,7	0,8	1	1	1,25	1,25
<b>9410</b>	<b>Per set</b>	<b>7,16</b>	<b>4,86</b>	<b>4,86</b>	<b>5,06</b>	<b>5,06</b>	<b>6,70</b>	<b>6,52</b>	<b>9,00</b>

For threads	mm	<b>10</b>	<b>11</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>18</b>	<b>20</b>
Pitch	mm	1,5	1,5	1,75	2	2	2,5	2,5
<b>9410</b>	<b>Per set</b>	<b>8,52</b>	<b>11,40</b>	<b>11,40</b>	<b>13,90</b>	<b>17,10</b>	<b>21,80</b>	<b>27,10</b>

**9412** **SCU**



M

Product description as Art. 9410

2pcs set.

For threads	mm	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
Pitch	mm	0,4	0,5	0,7	0,8	1	1	1,25
<b>9412</b>	<b>Per set</b>	<b>6,36</b>	<b>4,42</b>	<b>4,42</b>	<b>4,56</b>	<b>4,56</b>	<b>5,88</b>	<b>5,88</b>

For threads	mm	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>14</b>	<b>16</b>
Pitch	mm	1,25	1,5	1,5	1,75	2	2
<b>9412</b>	<b>Per set</b>	<b>7,76</b>	<b>7,76</b>	<b>10,40</b>	<b>10,10</b>	<b>11,60</b>	<b>15,10</b>

Product description as Art. 9410

Finishing tap only for Art. 9410 – 9412

For threads	mm	2	3	4	5	6	8	10
Pitch	mm	0,4	0,5	0,7	0,8	1	1,25	1,5
<b>9414</b>	<b>Each</b>	<b>2,74</b>	<b>1,88</b>	<b>1,88</b>	<b>1,96</b>	<b>1,96</b>	<b>2,50</b>	<b>3,24</b>

For threads	mm	12	14	16
Pitch	mm	1,75	2	2
<b>9414</b>	<b>Each</b>	<b>4,10</b>	<b>5,32</b>	<b>6,34</b>

SCU

9414

M



HAND TAPS – CHROME steel. RIGHT-HAND USE.

MF Fine Metric Thread.

2pcs set.

For threads	mm	6	8	10	10	12	12	14
Pitch	mm	0,75	1	1	1,25	1,25	1,5	1,25
<b>9416</b>	<b>Per set</b>	<b>4,56</b>	<b>5,88</b>	<b>7,76</b>	<b>7,76</b>	<b>10,10</b>	<b>10,10</b>	<b>12,50</b>

For threads	mm	14	16	18	20
Pitch	mm	1,5	1,5	1,5	1,5
<b>9416</b>	<b>Per set</b>	<b>12,50</b>	<b>15,10</b>	<b>18,10</b>	<b>27,30</b>

SCU

9416

MF



HAND TAPS – CHROME steel. RIGHT-HAND USE.

Cylindrical GAS thread for threading pipes

2pcs set.

For threads	inches	1/8	1/4	3/8	1/2	3/4	1
Threads per inch	No	28	19	19	14	14	11
<b>9424</b>	<b>Per set</b>	<b>7,38</b>	<b>9,80</b>	<b>12,30</b>	<b>18,70</b>	<b>30,60</b>	<b>50,60</b>

SCU

9424

GAS



ROUND DIES – CHROME steel. RIGHT-HAND USE.

M Coarse Metric Thread.

Type		2	3	4	5	6	7	8
For threads	mm	2	3	4	5	6	7	8
Pitch	mm	0,4	0,5	0,7	0,8	1	1	1,25
Threading die Ø	mm	25,4	25,4	25,4	25,4	25,4	25,4	25,4
<b>9430</b>	<b>Each</b>	<b>8,60</b>	<b>6,26</b>	<b>6,26</b>	<b>5,28</b>	<b>5,28</b>	<b>5,42</b>	<b>5,28</b>

Type		8A	9	10	10A	11	12	14
For threads	mm	8	9	10	10	11	12	14
Pitch	mm	1,25	1,25	1,5	1,5	1,5	1,75	2
Threading die Ø	mm	38,1	25,4	25,4	38,1	38,1	38,1	38,1
<b>9430</b>	<b>Each</b>	<b>7,50</b>	<b>5,36</b>	<b>5,28</b>	<b>7,58</b>	<b>8,70</b>	<b>7,50</b>	<b>7,50</b>

Type		16	16A	18	20
For threads	mm	16	16	18	20
Pitch	mm	2	2	2,5	2,5
Threading die Ø	mm	38,1	50,8	50,8	50,8
<b>9430</b>	<b>Each</b>	<b>7,50</b>	<b>14,20</b>	<b>14,20</b>	<b>14,70</b>

SCU

9430

M



Product description as Art. 9430

MF Fine Metric Thread.

For threads	mm	6	8	10	10	12	12	14
Pitch	mm	0,75	1	1	1,25	1,25	1,5	1,25
Threading die Ø	mm	25,4	25,4	38,1	38,1	38,1	38,1	38,1
<b>9432</b>	<b>Each</b>	<b>7,04</b>	<b>7,04</b>	<b>10,60</b>	<b>10,60</b>	<b>10,70</b>	<b>10,70</b>	<b>10,70</b>

For threads	mm	14	16	18	20
Pitch	mm	1,5	1,5	1,5	1,5
Threading die Ø	mm	38,1	38,1	38,1	50,8
<b>9432</b>	<b>Each</b>	<b>10,70</b>	<b>10,70</b>	<b>10,70</b>	<b>21,20</b>

SCU

9432

MF



Product description as Art. 9430

Cylindrical GAS Thread for threading pipes.

For threads	inches	1/8	1/4	3/8	1/2	3/4	1
Threads per inch	No	28	19	19	14	14	11
Threading die Ø	mm	38,1	38,1	38,1	50,8	50,8	63,5
<b>9436</b>	<b>Each</b>	<b>8,52</b>	<b>8,52</b>	<b>8,52</b>	<b>17,90</b>	<b>17,90</b>	<b>36,80</b>

SCU

9436

GAS





**NUT SCREWS IN WOODEN BOX**  
 The set contains:  
 CHROME taps, 1 pc for each size - Art. 9410 3-4-5-6-8-10-12mm  
 CHROME dies, 1 pc for each size - Art. 9430 type 3-4-5-6-8-10-12  
 1 extensible tap wrench Size 1.1/2  
 1 die-holder Ø 25.4mm

**9440** Each **219,00**



Product description as Art. 9440  
 The set contains: br>CHROME taps, 1 series for each size - Art. 9410 3-4-5-6-8-10-12-14-16-18mm  
 CHROME dies, 1 pc for each size - Art. 9430 type 3-4-5-6-8-10A-12-14-16-18  
 Extensible tap wrenches Size 1 and 3, 1pc for each size.  
 Die-holder, 1 pc for each size Ø 25.4 and 38.1mm.

**9448** Each **339,00**



Product description as Art. 9440  
 The set contains:  
 CHROME taps, 1 series for each size - Art. 9412 2-3-4-5-6-7-8-10-12-14-16mm  
 CHROME taps, 1 series for each size - Art. 9416 8x1 - 10x1 - 10x1.25 - 12x1.25 - 12x1.5 - 14x1.25 - 14x1.5 - 16x1.5 - 18x1.5mm  
 CHROME dies, 1 pc for each size - Art. 9430 type 2-3-4-5-6-7-8-10A-12-14-16  
 1 CHROME dies, 1 pc for each size - Art. 9432 8x1 - 10x1 - 10x1.25 - 12x1.25 - 12x1.5 - 14x1.25 - 14x1.5 - 16x1.5 - 18x1.5mm  
 Extensible tap wrench Size 1 and 3, 1 pc for each size.  
 1 pc "T" tap wrench - Size 1  
 Die-holder, 1 pc for each size Ø 25.4 e 38.1mm.

**9455** Each **360,00**

Taps and dies sets, Whitworth, UNC, UNF threads available on request. In box.

**UNIVERSAL ADJUSTABLE THREAD RESTORERS**



**Prod. SCU**  
 Universal type for EXTERNAL threads, automatically adjustable to any thread pitch.  
 Also for left-hand threads.  
 Die cast body, knurled screw and 2 steel blades, interchangeable (hardness 58 HRC).  
 For all 60° angle threads (Metric -UNC - UNF - NPT)

Capacity	mm	4 to 18
Capacity	inches	5/32 to 11/16
Weight	grams	225

**9457GA** Each **75,10**

Two spare blades for Art. 9457 GA.  
**09457GA** Per pair **23,90**

Product description as Art. 9457GA  
 For all 60° angle threads (Metric -UNC - UNF - NPT)

Capacity	mm	17 to 38
Capacity	inches	11/16 to 1.1/2
Weight	grams	545

**9457GB** Each **109,00**

Two spare blades for Art. 9457 GB.  
**09457GB** Per pair **35,20**

Universal type for OUTSIDE threads, suitable for any pitch.  
 To be used also on left-hand threads.  
 Sturdy steel body, knurled screw and 2 steel blades, interchangeable (hardness 58 HRC).  
 Additional handle for easier rotation.  
 Suitable for all threads with angle at 60° (Metric - UNC - UNF - NPT).

Capacity	mm	35 to 152
Capacity	inches	1.3/8 to 6
Weight	grams	1950

**9457GC** Each **280,00**

Couple of spare blades for Art. 9457 GC.  
**09457GC** Per pair **43,10**

Product description as Art. 9457GA

For all 55° angle threads (BSW – BSF – BSP)

 Capacity inches 5/32 to 11/16  
 Weight grams 225

<b>9457GE</b>	<b>Each</b>	<b>75,10</b>
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Two spare blades for Art. 9457 GE.

<b>O9457GE</b>	<b>Per pair</b>	<b>23,90</b>
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Product description as Art. 9457GA

For all 55° angle threads (BSW – BSF – BSP)

 Capacity inches 11/16 to 1.1/2  
 Weight grams 545

<b>9457GF</b>	<b>Each</b>	<b>109,00</b>
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Two spare blades for Art. 9457 GF.

<b>O9457GF</b>	<b>Per pair</b>	<b>32,50</b>
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**9457GE**  
**9457GF**


55°

Universal type for INSIDE threads, suitable for any pitch.

To be used also on left-hand threads.

Blade-holder body and steel knurled screw. Steel blade, interchangeable (hardness 58 HRC).

With lever to rotate the tool.

Suitable for all threads with angle at 60° (Metric - UNC - UNF - NPT).

 Capacity mm 8 to 11  
 Capacity inches 5/16 to 7/16  
 Weight grams 160

<b>9458GA</b>	<b>Each</b>	<b>82,70</b>
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Spare blade for Art. 9458 GA.

<b>O9458GA</b>	<b>Each</b>	<b>15,30</b>
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Product description as Art. 9458GA

Suitable for all threads with angle at 60° (Metric - UNC - UNF - NPT).

 Capacity mm 12 to 16  
 Capacity inches 1/2 to 5/8  
 Weight grams 170

<b>9458GB</b>	<b>Each</b>	<b>85,30</b>
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Spare blade for Art. 9458 GB.

<b>O9458GB</b>	<b>Each</b>	<b>15,60</b>
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**9458GA**  
**9458GB**


60°

Product description as Art. 9458GA

Suitable for all threads with angle at 60° (Metric - UNC - UNF - NPT).

 Capacity mm 16 to 20  
 Capacity inches 11/16 to 13/16  
 Weight grams 250

<b>9458GC</b>	<b>Each</b>	<b>89,80</b>
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Spare blade for Art. 9458 GC.

<b>O9458GC</b>	<b>Each</b>	<b>15,80</b>
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Product description as Art. 9458GA

Suitable for all threads with angle at 60° (Metric - UNC - UNF - NPT).

 Capacity mm 22 to 32  
 Capacity inches 7/8 to 1.1/4  
 Weight grams 450

<b>9458GE</b>	<b>Each</b>	<b>120,00</b>
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Spare blade for Art. 9458 GE.

<b>O9458GE</b>	<b>Each</b>	<b>16,60</b>
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**9458GC**  
**9458GE**


60°

Product description as Art. 9458GA

Suitable for all threads with angle at 60° (Metric - UNC - UNF - NPT).

 Capacity mm 32 to 54  
 Capacity inches 1.1/4 to 2.1/8  
 Weight grams 950

<b>9458GF</b>	<b>Each</b>	<b>210,00</b>
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Spare blade for Art. 9458 GF.

<b>O9458GF</b>	<b>Each</b>	<b>19,10</b>
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Blades for 55° threads and for articles 9458 GA-B-C-E-F available on request.


**9458GF**


60°

**13**

**ASSORTMENTS OF THREAD REPAIR TOOLS**
**9459GA****SCU****Prod. SCU**

Supplied in handy and sturdy plastic case.

Each set contains:

- 1 thread repair tool for outside threads Art. 9457 GA
- 1 thread repair tool for outside threads Art. 9457 GB
- 1 couple of spare knives Art. O9457 GA
- 1 couple of spare knives Art. O9457 GB

**9459GA** Each **193,00**
**9459GE****SCU**

Product description as Art. 9459GA

Each set contains:

- 1 thread repair tool for outside threads Art. 9457 GA
- 1 couple of spare knives Art. O9457 GA
- 1 thread repair tool for inside threads Art. 9458 GA
- 1 thread repair tool for inside threads Art. 9458 GB
- 1 thread repair tool for inside threads Art. 9458 GC
- 1 spare blade Art. O9458 GA
- 1 spare blade Art. O9458 GB
- 1 spare blade Art. O9458 GC

**9459GE** Each **318,00**
**9459GL****SCU**

Product description as Art. 9459GA

Each set contains:

- 1 thread repair tool for inside threads Art. 9458 GA
- 1 thread repair tool for inside threads Art. 9458 GB
- 1 thread repair tool for inside threads Art. 9458 GC
- 1 spare blade Art. O9458 GA
- 1 spare blade Art. O9458 GB
- 1 spare blade Art. O9458 GC

**9459GL** Each **243,00**
**9459GM****SCU**

Product description as Art. 9459GA

Each set contains:

- 1 thread repair tool for inside threads Art. 9458 GB
- 1 thread repair tool for inside threads Art. 9458 GC
- 1 thread repair tool for inside threads Art. 9458 GE
- 1 spare blade Art. O9458 GB
- 1 spare blade Art. O9458 GC
- 1 spare blade Art. O9458 GE

**9459GM** Each **323,00**

Product running out of stock.

**9459GP****SCU**

Product description as Art. 9459GA

Each set contains:

- 1 thread repair tool for inside threads Art. 9458 GB
- 1 thread repair tool for inside threads Art. 9458 GC
- 1 thread repair tool for inside threads Art. 9458 GE
- 1 thread repair tool for inside threads Art. 9458 GF
- 1 spare blade Art. O9458 GB
- 1 spare blade Art. O9458 GC
- 1 spare blade Art. O9458 GE
- 1 spare blade Art. O9458 GF

**9459GP** Each **541,00**

Product running out of stock.

**DIE HOLDERS**

**Prod. SCU**

Painted body with bars. With adjusting and fixing screws. UNI-DIN Standards.  
In high-resistance steel. Fine quality.



**9460**

Type		16	20	20A	20,6	25	25,4	30
For threading dies Ø UNI	mm	-	-	-	20,6	-	25,4	-
For threading dies Ø DIN	mm	16	20	20	-	25	-	30
For threading dies thickness	mm	5	7	5	-	9	-	11
<b>9460</b>	<b>Each</b>	<b>9,80</b>	<b>11,60</b>	<b>11,60</b>	<b>11,60</b>	<b>13,40</b>	<b>13,40</b>	<b>13,40</b>
Type		38	38A	38,1	45	45A	50,8	55
For threading dies Ø UNI	mm	-	-	38,1	-	-	50,8	-
For threading dies Ø DIN	mm	38	38	-	45	45	-	55
For threading dies thickness	mm	10	14	-	14	18	-	16
<b>9460</b>	<b>Each</b>	<b>15,20</b>	<b>15,20</b>	<b>15,20</b>	<b>20,50</b>	<b>20,50</b>	<b>25,10</b>	<b>25,10</b>
Type		55A	63,5	65	65A	75	75A	
For threading dies Ø UNI	mm	-	63,5	-	-	-	-	
For threading dies Ø DIN	mm	55	-	65	65	75	75	
For threading dies thickness	mm	22	-	18	25	20	30	
<b>9460</b>	<b>Each</b>	<b>25,10</b>	<b>35,60</b>	<b>44,50</b>	<b>44,50</b>	<b>59,70</b>	<b>59,70</b>	



**Orig. Völkel - Art. 150**

DIN 225 (DIN EN 22568). High-resistance die cast. Body with finely worked seat, lacquered. With adjusting and fixing screws Extra quality.



**9465G**

Ø and thickness	mm	16x5	20x5	20x7	25x9	30x11	38x10	38x14
<b>9465G</b>	<b>Each</b>	<b>3,86</b>	<b>4,00</b>	<b>4,00</b>	<b>4,50</b>	<b>7,34</b>	<b>11,50</b>	<b>11,50</b>
Ø and thickness	mm	45x14	45x18	55x16	55x22	65x18	65x25	
<b>9465G</b>	<b>Each</b>	<b>13,70</b>	<b>13,70</b>	<b>17,60</b>	<b>17,60</b>	<b>29,70</b>	<b>29,70</b>	



**Orig. Völkel - Art. 152**

DIN 225 (DIN EN 22568). High-resistance steel. Body with finely worked seat, lacquered with polished bars. With adjusting and fixing screws. Extra quality.



**9467G**

Ø and thickness	mm	45x18	55x22	65x25	75x20	75x30	90x22	90x36	105x22	105x36
<b>9467G</b>	<b>Each</b>	<b>22,40</b>	<b>32,10</b>	<b>40,10</b>	<b>67,10</b>	<b>67,10</b>	<b>82,80</b>	<b>82,80</b>	<b>127,00</b>	<b>127,00</b>



**PIPE DIE HOLDERS**

**Prod. SCU**

Made of steel.  
Both ends are arranged for mounting of two round dies with different diameter.

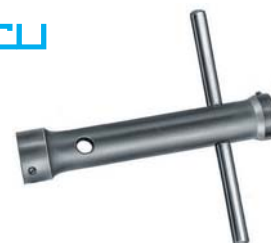


**9468**

**9469**

**9470**

Art.		9468	9469	9470
For dyes Ø	mm	20,6x25,4	25,4x38,1	38,1x50,8
<b>9468</b>	<b>Each</b>	<b>29,70</b>	<b>39,70</b>	<b>50,10</b>



**ADJUSTABLE TAP WRENCHES**

**Prod. SCU**

Painted body with levers.  
Hardened clamping wedges.  
In high-resistance steel. Fine quality.



**9472**

Size		0	1	2	3	4
For taps by Withworth	inches	1/16 to 1/4	1/16 to 3/8	1/32 to 1/2	7/32 to 3/4	7/16 to 1
For taps by	M.	1 to 8	1 to 10	4 to 12	5 to 20	9 to 27
Drive framework opening	mm	2,1 to 4,9	2,1 to 5,5	3,4 to 9	4,9 to 12	5,5 to 16
<b>9472</b>	<b>Each</b>	<b>16,10</b>	<b>16,10</b>	<b>23,20</b>	<b>33,10</b>	<b>44,50</b>
Size		5	6	7		
For taps by Withworth	inches	1/2 to 1 1/4	3/4 to 1 1/2	1-2 1/2		
For taps by	M.	13 to 33	19 to 39	27 to 64		
Drive framework opening	mm	7 to 20	11 to 24	16 to 40		
<b>9472</b>	<b>Each</b>	<b>57,90</b>	<b>90,80</b>	<b>90,80</b>		



**Orig. Völkel - Art. 130**

DIN 1814. High-resistance die cast. Lacquered body with polished levers.  
Hardened and ground clamping wedges. Extra quality.



**9476G**

Size		0	1	1 1/2	2	3
For taps by Withworth	inches	1/16 to 1/4	1/16 to 3/8	1/16 to 1/2	5/32 to 1/2	7/32 to 3/4
For taps by	M.	1 to 8	1 to 10	1 to 12	4 to 12	5 to 20
Drive framework opening	mm	2 to 5	2 to 6,3	2,1 to 8	3 to 9	4,9 to 12
<b>9476G</b>	<b>Each</b>	<b>4,80</b>	<b>5,22</b>	<b>5,22</b>	<b>8,42</b>	<b>15,10</b>
Size		4	5			
For taps by Withworth	inches	7/16 to 1	1/2 to 1 1/4			
For taps by	M.	11 to 27	13 to 32			
Drive framework opening	mm	5,5 to 16	7 to 20			
<b>9476G</b>	<b>Each</b>	<b>28,80</b>	<b>44,70</b>			



**9478G**

**VÖLKEL**  
THREADING SOLUTIONS
**Orig. Völkel - Art. 140**

DIN 1814. High-resistance die cast. Lacquered body with polished levers.

Hardened and ground clamping wedges. Extra quality.

Size		0	1	1 1/2	2	3
For taps by Withworth	inches	1/16 to 1/4	1/16 to 3/8	1/16 to 1/2	5/32 to 1/2	7/32 to 3/4
For taps by	M.	1 to 8	1 to 10	1 to 12	4 to 12	5 to 20
Drive framework opening	mm	2 to 5	2 to 6,3	2,1 to 8	3 to 9	4,9 to 12
<b>9478G</b>	<b>Each</b>	<b>7,12</b>	<b>7,98</b>	<b>7,98</b>	<b>12,80</b>	<b>23,10</b>
Size		4	5	6	7	
For taps by Withworth	inches	7/16 to 1	1/2 to 1 1/4	3/4 to 1 1/2	1 to 2 1/8	
For taps by	M.	11 to 27	13 to 32	18 to 42	25 to 52	
Drive framework opening	mm	5,5 to 16	7 to 20	11 to 24	16 to 32	
<b>9478G</b>	<b>Each</b>	<b>43,20</b>	<b>67,10</b>	<b>71,90</b>	<b>128,00</b>	

**ADJUSTABLE MINI TAP WRENCHES****9481G**

**Dürr**
**Orig. Dürr - Art. G 40**

With hardened steel jaws.

Cylindrical-shaped, light, high threading sensitivity with small taps, avoiding breakage.

Body dia. 40mm.

For taps Whitworth 1/16 to 3/32 inches / M 1 to 2.6.

Square drive max opening up to 2.4mm.

<b>9481G</b>	<b>Each</b>	<b>50,80</b>
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**TAP WRENCHES WITH JAW CHUCK****9482**

**SCU**
**Prod. SCU**

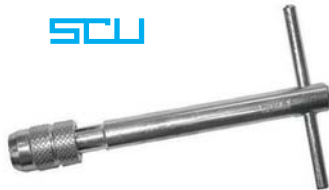
Made of steel. With 4 hardened jaws.

For threading in difficult to access positions.

Short type.

Size		0	1	2	3	4
For taps by	M.	1 to 2,5	3 to 4	4 to 8	9 to 11	12
Overall length	mm	60	80	90	90	100
Drive framework opening	mm	1,8 to 2,1	2,7 to 3,4	3,4 to 4,9	4,9 to 6,2	7 to 8
<b>9482</b>	<b>Each</b>	<b>4,82</b>	<b>9,80</b>	<b>9,80</b>	<b>11,60</b>	<b>20,50</b>

**9484**

**SCU**


Product description as Art. 9482

Long type.

Size		1	2	3	4
For taps by	M.	3 to 4	4 to 8	9 to 11	12
Overall length	mm	150	150	150	150
Drive framework opening	mm	2,7 to 3,4	3,4 to 4,9	4,9 to 6,2	7 to 8
<b>9484</b>	<b>Each</b>	<b>11,60</b>	<b>11,60</b>	<b>13,40</b>	<b>20,50</b>

**9486**

**SCU**


Product description as Art. 9482

Very long type.

Size		1	2	3	4
For taps by	M.	3 to 4	4 to 8	9 to 11	12
Overall length	mm	200	200	200	200
Drive framework opening	mm	2,7 to 3,4	3,4 to 4,9	4,9 to 6,2	7 to 8
<b>9486</b>	<b>Each</b>	<b>13,40</b>	<b>16,10</b>	<b>17,80</b>	<b>26,70</b>

**9490G**

**schröder**
**Orig. Schröder**

Short type, high quality.

Fully made of steel. Collet with 2 hardened jaws.

Burnished finish.

Size		1	2
For taps by	M.	3 to 8	5 to 12
Overall length	mm	109	112
Drive framework opening	mm	2 to 5	4,6 to 8
Supplier code		4.001.0	4.002.0.
<b>9490G</b>	<b>Each</b>	<b>10,70</b>	<b>14,10</b>

**9492G**

**schröder**


Short ratchet type, high quality.

For fixed, right and left-hand use. Collet with 2 hardened jaws.

Chrome-plated finish.

Size		0	1	2	3
For taps by	M.	1 to 2,6	3 to 8	5 to 12	13 to 20
Overall length	mm	85	85	110	117
Drive framework opening	mm	1 to 2,6	2 to 5	4,6 to 8	9 to 12,5
Supplier code		4.005.4	4.006.4	4.007.4	4.003.4
<b>9492G</b>	<b>Each</b>	<b>16,50</b>	<b>13,60</b>	<b>17,80</b>	<b>76,20</b>

Size 3 is equipped with additional hexagon 22mm.



**Orig. Völkel**

Short ratchet type.  
For fixed, right and left-hand use. Collet with 2 hardened jaws.  
Chrome-plated finish.

Size		1	2
For taps by	M.	3 to 10	5 to 12
Overall length	mm	85	100
Drive framework opening	mm	2,4 to 5,5	4,5 to 8
Supplier code		10001	10002
<b>9492GE</b>	<b>Each</b>	<b>11,20</b>	<b>13,50</b>



**9492GE**

**Orig. Schröder**

Long ratchet type, high quality.  
For fixed, right and left-hand use. Collet with 2 hardened jaws.  
Chrome-plated finish.

Size		1	2
For taps by	M.	3 to 8	5 to 12
Overall length	mm	250	300
Drive framework opening	mm	2 to 5	4,6 to 8
Supplier code		4.008.4	4.009.4
<b>9494G</b>	<b>Each</b>	<b>22,10</b>	<b>26,40</b>



**9494G**

**Orig. Völkel**

Long ratchet type.  
For fixed, right and left-hand use. Collet with 2 hardened jaws.  
Chrome-plated finish.

Size		1	2
For taps by	M.	3 to 10	5 to 12
Overall length	mm	250	300
Drive framework opening	mm	2,4 to 5,5	4,5 to 8
Supplier code		10010	10020
<b>9494GE</b>	<b>Each</b>	<b>18,30</b>	<b>22,40</b>



**9494GE**

**EXTENSIONS FOR TAP WRENCHES WITH JAW CHUCK**

**Orig. Schröder**

For extending tap wrenches Art. 9490 G / 9492 G / 9494 G Size 2 and reach particularly deep working areas. Fully made of steel. Collets with 2 hardened jaws and control panel. Burnished finish.

Size		1	2
For taps by	M.	3 to 8	5 to 12
Overall length	mm	175	250
Chuck opening	mm	2 to 5	4,6 to 8
Operating framework	mm	5,6	7
Supplier code		4.015.4	4.016.4
<b>9495G</b>	<b>Each</b>	<b>13,50</b>	<b>17,90</b>



**9495G**

**TAP WRENCHES WITH JAW CHUCK AND HEXAGONAL SHANK**

**Orig. Schröder**

Hex drive for use with screwdrivers, screwdrivers, drills and bits-holder handles.  
With screwdrivers and drills it is necessary to use the connections Art. 1995 GB or 1995 GBA.  
Fully made of steel. Collet with 2 hardened jaws.  
Chrome-plated finish.

Size		1	2
For taps by	M.	3 to 8	5 to 12
Drive framework opening	mm	2 to 5	4,6 to 8
Hexagonal drive	inches	1/4	5/16
Supplier code		4.018.4	4.019.4
<b>9496G</b>	<b>Each</b>	<b>8,56</b>	<b>11,60</b>



**9496G**

**Orig. Schröder - Art. 5.123.0**

With 1/4 DIN 3126 C 6.3 hexagonal connection for use with screwdrivers, electric or battery drills.  
Made of steel. Pliers with 3 hardened jaws.  
Burnished finish.

For taps by	M.	3 to 8
Drive framework opening	mm	2 to 5
<b>9496GE</b>	<b>Each</b>	<b>15,90</b>



**9496GE**  
*new*

**13**

**TAP WRENCHES WITH JAW CHUCK AND SQUARE SHANK 1/4**

9497GA



1/4"



Orig. Gedore - Art. 8553

Type with 1/4 female square drive to be used with ratchet heads, sliding bars, extensions, etc. Fully made of steel. Collet with 2 hardened jaws. Chrome-plated finish.

For taps M 3 to M 6, square drive opening 3.5 to 6mm.

9497GA Each 30,60

**DIE STOCKS WITH SQUARE SHANK 1/4**

9497GL



1/4"



Orig. Gedore - Art. 8553

Type with 1/4 female square drive to be used with ratchet heads, sliding bars, extensions, etc. Fully made of steel. With adjusting and fixing screws. Chrome-plated finish.

For dies Ø 20mm.

9497GL Each 34,80

**THREAD INSERTS IN STAINLESS STEEL**

9500G



INOX



M

MF

Orig. V-Coil

DIN 8140

Suitable for thread regeneration. In rhomboid-section stainless steel, spring-shaped, it creates two perfectly concentric threads, one external coupling with the threaded hole previously made, and one internal for screw coupling, etc. Drive shank for insertion in the hole, to be removed after installation by using a suitable cutting tool.

THREADED INSERTS ONLY

Packing units: 100pcs, not sold separately, up to Ø 12mm. From Ø 14mm up to 16mm packing units: 50pcs, Ø 18mm and 20mm packing units: 25pcs, Ø 22mm packing units: 10pcs.

Type	M	3 0.5	4 0.7	5 0.8	6 1	7 1	8 1	8 1.25	9 1.25	10 1	10 1.25	10 1.25A	10 1.5	12 1	12 1.25
Ø	mm	3	4	5	6	7	8	8	9	10	10	10	10	12	12
Pitch	mm	0,5	0,7	0,8	1	1	1	1,25	1,25	1	1,25	1,25	1,5	1	1,25
Thread length	mm	4,5	6	7,5	9	10,5	12	12	13,5	15	10	15	15	18	12
Supplier code		07305	07307	07308	07309	07310	07312	07311	07313	07317	07216	07316	07315	07324	07223
9500G	Each	0,22	0,22	0,20	0,20	0,34	0,30	0,26	0,50	0,36	0,34	0,36	0,36	0,58	0,50

Type	M	12 1.25A	12 1.5	12 1.75	14 1.25	14 1.25A	14 1.25B	14 1.25C	14 1.5	14 2	16 2	18 2.5	20 2.5	22 2.5
Ø	mm	12	12	12	14	14	14	14	14	14	16	18	20	22
Pitch	mm	1,25	1,5	1,75	1,25	1,25	1,25	1,25	1,5	2	2	2,5	2,5	2,5
Thread length	mm	18	18	18	21	8,4	12,4	16,4	21	21	24	27	30	33
Supplier code		07323	07322	07321	07327	07128	07228	07328	07326	07325	07334	07336	07339	07342
9500G	Each	0,58	0,58	0,58	0,80	0,80	0,80	0,80	0,80	0,80	1,00	1,60	2,04	2,18

Ø 14x1.25 A/B/C are suitable for sparks. Additional diameters available on request.

9500GA



INOX



UNC

Product description as Art. 9500G

SEPARATE THREADED INSERTS, LENGTH 1.5xØ

Packs of 100 pcs, not sold separately.

Thread Ø UNC	inches	No. 2	No. 4	No. 5	No. 6	No. 8	No. 10	No. 12
Threads per inch	No.	56	40	40	32	32	24	24
Supplier code		08300	08301	08302	08303	08304	08305	08306
9500GA	Each	0,80	0,26	0,30	0,24	0,24	0,26	0,30

Thread Ø UNC	inches	1/4	5/16	3/8	7/16	1/2
Threads per inch	No.	20	18	16	14	13
Supplier code		08307	08308	08309	08310	08311
9500GA	Each	0,30	0,44	0,58	0,76	0,76

9500GB



INOX



UNF

Product description as Art. 9500G

SEPARATE THREADED INSERTS, LENGTH 1.5xØ

Packs of 100 pcs, not sold separately.

Thread Ø UNF	inches.	No. 4	No. 6	No. 8	No. 10	1/4	5/16	3/8
Threads per inch	No.	48	40	36	32	28	24	24
Supplier code		08390	08391	08392	08393	08325	08326	08327
9500GB	Each	0,70	0,70	0,70	0,28	0,28	0,40	0,58

Thread Ø UNF	inches.	7/16	1/2
Threads per inch	No.	20	20
Supplier code		08328	08329
9500GB	Each	0,76	0,76

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Prices in EURO - VAT not included

Product description as Art. 9500G

SEPARATE THREADED INSERTS, LENGTH 1.5xØ

Packs of 100 pcs, not sold separately.

Thread Ø BSW	inches	1/8	3/16	1/4	5/16	3/8	7/16	1/2
Threads per inch	No.	40	24	20	18	16	14	12
Supplier code		08341	08342	08343	08344	08345	08346	08347
<b>9500GE</b>	<b>Each</b>	<b>0,94</b>	<b>0,94</b>	<b>0,38</b>	<b>0,46</b>	<b>0,78</b>	<b>0,96</b>	<b>0,96</b>



INOX 9500GE



BSW

Product description as Art. 9500G

SEPARATE THREADED INSERTS, LENGTH 1.5xØ

Packs of 100 pcs, not sold separately.

Thread Ø BSF	inches	3/16	1/4	5/16	3/8	7/16	1/2
Threads per inch	No.	32	26	22	20	18	16
Supplier code		08362	08363	08365	08366	08367	08368
<b>9500GF</b>	<b>Each</b>	<b>0,94</b>	<b>0,38</b>	<b>0,46</b>	<b>0,78</b>	<b>0,96</b>	<b>0,96</b>



INOX 9500GF



BSF

Product description as Art. 9500G

SEPARATE THREADED INSERTS, LENGTH 1.5xØ

Up to Ø 1/2" inch, packs of 50 pcs, not sold separately; from Ø 5/8" inch, packs of 5 pcs, not sold separately.

Thread Ø BSP (G)	inches	1/8	1/4	3/8	1/2	5/8	3/4	1
Threads per inch	No.	28	19	19	14	14	14	11
Supplier code		08380	08381	08382	08383	08384	08385	08387
<b>9500GL</b>	<b>Each</b>	<b>0,58</b>	<b>0,88</b>	<b>1,02</b>	<b>1,32</b>	<b>3,28</b>	<b>3,28</b>	<b>10,10</b>



INOX 9500GL



BSP

TAPS FOR THREADED INSERTS

Special type for housing threaded inserts Art. 9500 G.

For int Ø	mm	3	4	5	6	7	8	8	9
Pitch	mm	0,5	0,7	0,8	1	1	1	1,25	1,25
Pre-hole Ø	mm	3,2	4,2	5,2	6,3	7,3	8,3	8,3	9,3
Supplier code		03005	03007	03008	03009	03010	03012	03011	03013
<b>9501G</b>	<b>Each</b>	<b>8,42</b>	<b>8,42</b>	<b>8,42</b>	<b>8,42</b>	<b>10,50</b>	<b>10,50</b>	<b>10,50</b>	<b>12,80</b>

For int Ø	mm	10	10	10	12	12	12	12	14
Pitch	mm	1	1,25	1,5	1	1,25	1,5	1,75	1,25
Pre-hole Ø	mm	10,3	10,3	10,4	12,3	12,3	12,4	12,4	14,5
Supplier code		03017	03016	03015	03023	03022	03021	03020	03029
<b>9501G</b>	<b>Each</b>	<b>12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>17,80</b>	<b>17,80</b>	<b>17,80</b>	<b>14,60</b>	<b>20,20</b>

For int Ø	mm	14	14	16	18	20	22
Pitch	mm	1,5	2	2	2,5	2,5	2,5
Pre-hole Ø	mm	14,5	14,5	16,5	18,6	20,6	22,6
Supplier code		03028	03027	03033	03035	03038	03041
<b>9501G</b>	<b>Each</b>	<b>20,20</b>	<b>20,20</b>	<b>25,40</b>	<b>32,10</b>	<b>35,30</b>	<b>40,70</b>



9501G



M

MF

Special type for housing threaded inserts Art. 9500 GA.

For threads UNC	inches	No. 2	No. 4	No. 5	No. 6	No. 8	No. 10	No. 12
Pre-hole Ø	mm	2,4	3,0	3,4	3,7	4,4	5,1	5,7
Supplier code		03100	03101	03102	03103	03104	03105	03106
<b>9501GA</b>	<b>Each</b>	<b>12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>12,80</b>

For threads UNC	inches	1/4	5/16	3/8	7/16	1/2
Pre-hole Ø	mm	6,7	8,3	9,9	11,6	13,0
Supplier code		03107	03108	03109	03110	03111
<b>9501GA</b>	<b>Each</b>	<b>8,42</b>	<b>9,14</b>	<b>9,58</b>	<b>12,80</b>	<b>14,60</b>



9501GA



UNC/NC

Special type for housing threaded inserts Art. 9500 GB.

For threads UNF	inches	No. 4	No. 6	No. 8	No. 10	1/4	5/16	3/8
Pre-hole Ø	mm	3,0	3,7	4,4	5,1	6,6	8,2	9,8
Supplier code		03151	03152	03153	03154	03155	03156	03157
<b>9501GB</b>	<b>Each</b>	<b>12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>12,80</b>	<b>8,42</b>	<b>9,14</b>	<b>9,58</b>

For threads UNF	inches	7/16	1/2
Pre-hole Ø	mm	11,5	13,0
Supplier code		03158	03159
<b>9501GB</b>	<b>Each</b>	<b>12,80</b>	<b>14,60</b>



9501GB



UNF/NF



Special type for housing threaded inserts Art. 9500 GE.

For threads BSW	inches	<b>1/8</b>	<b>3/16</b>	<b>1/4</b>	<b>5/16</b>	<b>3/8</b>	<b>7/16</b>	<b>1/2</b>
Pre-hole Ø	mm	3,4	5,1	6,7	8,3	9,9	11,6	13,0
Supplier code		03201	03202	03203	03204	03205	03206	03207
<b>9501GE</b>	<b>Each</b>	<b>8,42</b>	<b>8,42</b>	<b>8,42</b>	<b>9,14</b>	<b>9,58</b>	<b>12,80</b>	<b>14,60</b>



Special type for housing threaded inserts Art. 9500 GF.

For threads BSF	inches	<b>3/16</b>	<b>1/4</b>	<b>5/16</b>	<b>3/8</b>	<b>7/16</b>	<b>1/2</b>
Pre-hole Ø	mm	5,0	6,6	8,3	9,9	11,6	13,0
Supplier code		03251	03253	03255	03256	03257	03258
<b>9501GF</b>	<b>Each</b>	<b>8,42</b>	<b>8,42</b>	<b>9,14</b>	<b>9,58</b>	<b>12,80</b>	<b>14,60</b>



Special type for housing threaded inserts Art. 9500 GL.

Thread BSB (G)		<b>1/8</b>	<b>1/4</b>	<b>3/8</b>	<b>1/2</b>	<b>5/8</b>	<b>3/4</b>	<b>1</b>
Pre-hole Ø	mm	10	13,60	17,10	21,50	23,40	27	33,70
Supplier code		03301	03302	03303	03304	03305	03306	03307
<b>9501GL</b>	<b>Each</b>	<b>12,10</b>	<b>15,30</b>	<b>19,80</b>	<b>32,30</b>	<b>47,40</b>	<b>47,40</b>	<b>75,50</b>



APPLICATION TOOLS  
For mounting threaded inserts Art. 9500 G to 9500 GF.

Size		<b>2</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
For metric inserts	M	2x0,4 e 2,2x0,45	3x0,5	3,5x0,6	4x0,7	-
For inserts with threads		UNC No. 2	UNC No. 5, UNC/UNF No. 4, BSW 1/8	UNC/UNF No. 6	UNC/UNF No. 8	UNC No. 10, BSW 3/16
Supplier code		08002	08004	08005	08006	08007
<b>9502GA</b>	<b>Each</b>	<b>8,28</b>	<b>8,28</b>	<b>8,28</b>	<b>8,28</b>	<b>8,28</b>
Size		<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
For metric inserts	M	5x0,8	6x1	7x1	8x1 e 8x1,25	9x1 e 9x1,25
For inserts with threads		UNF No. 10, UNC No. 12, BSF 3/16	UNC/UNF/BSW/BSF 1/4	UNC/BSW 5/16	UNF/BSF 5/16	UNC/BSW 3/8
Supplier code		08008	08009	08010	08011	08012
<b>9502GA</b>	<b>Each</b>	<b>8,28</b>	<b>8,28</b>	<b>9,44</b>	<b>9,44</b>	<b>10,20</b>
Size		<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>
For metric inserts	M	10x1, 10x1,25, 10x1,5	11x1,25 e 11x1,5	12x1, 12x1,25, 12x1,5, 12x1,75	14x1,5 e 14x2	14x1 e 14x1,25
For inserts with threads		UNF/BSF 3/8	UNC/UNF/BSW/BSF 7/16	UNC/UNF/BSW/BSF 1/2	UNC/UNF/BSW/BSF 9/16	-
Supplier code		08013	08014	08015	08016	08017
<b>9502GA</b>	<b>Each</b>	<b>10,20</b>	<b>11,90</b>	<b>11,90</b>	<b>14,30</b>	<b>14,30</b>
Size		<b>18</b>	<b>20</b>	<b>21</b>	<b>22</b>	
For metric inserts	M	16x1,5 e 16x2	18x1,5, 18x2, 18x2,5	20x1,5, 20x2, 20x2,5	22x1,5, 22x2, 22x2,5	
For inserts with threads		UNC/UNF/BSW/BSF 5/8	UNC/BSW/BSF 3/4	UNF 3/4	UNC/UNF/BSW/BSF 7/8	
Supplier code		08018	08020	08021	08022	
<b>9502GA</b>	<b>Each</b>	<b>15,70</b>	<b>15,70</b>	<b>15,70</b>	<b>19,80</b>	



APPLICATION TOOLS WITH HEXAGONAL JOINT 1/4 DIN 3126 C6,3  
Handy or machine application, to install threaded inserts Art. 9500 G as well as all inside threaded bushings from M 3 to M 12.

For metric inserts	M	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>
Hexagonal drive	inches	1/4	1/4	1/4	1/4	1/4	1/4	1/4
Supplier code		08091	08092	08093	08094	08095	08096	08097
<b>9502GAR</b>	<b>Each</b>	<b>8,28</b>	<b>8,28</b>	<b>8,28</b>	<b>8,28</b>	<b>9,44</b>	<b>10,20</b>	<b>11,90</b>



APPLICATION TOOLS WITH HEXAGONAL JOINT 1/4-1/2 DIN 3126 C6,3  
Handy or machine application, to install threaded inserts Art. 9500 GL as well as all inside threaded bushings from BSP (G) 1/8" to 1".

For BSP (G) inserts	inches	<b>1/8</b>	<b>1/4</b>	<b>3/8</b>	<b>1/2</b>	<b>5/8</b>	<b>3/4</b>	<b>1</b>
Threads per inch	No.	28	19	19	14	14	14	11
Hexagonal drive	inches	1/4	1/4	1/4	1/4	1/2	1/2	1/2
Supplier code		08080	08081	08082	08083	08084	08085	08087
<b>9502GAS</b>	<b>Each</b>	<b>13,50</b>	<b>13,50</b>	<b>15,70</b>	<b>18,00</b>	<b>22,50</b>	<b>22,50</b>	<b>31,40</b>

**APPLICATION TOOLS WITH HEXAGONAL JOINT 1/4 DIN 3126 E6,3**

Machine application, to install threaded inserts Art. 9500 G and all inside threaded bushings from M 3 to M 12. Turning depth adjustable by hex bushing.

For metric inserts	M	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>
Bush hexagonal wrench opening	mm	6	7	8	10	12	14	16
Overall length	mm	46	56	62	76	85	96	107
Supplier code		08070	08071	08072	08073	08074	08075	08076
<b>9502GAT</b>	Each	<b>11,70</b>	<b>11,70</b>	<b>11,70</b>	<b>11,70</b>	<b>14,30</b>	<b>15,70</b>	<b>17,50</b>



**9502GAT**



1/4"

**CUTTING TOOLS**

For removal of the drive shank of the inserts Art. 9500 G to 9500 GL (except for inserts with Ø 14mm.)

Size		<b>2</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>9</b>
For metric inserts Ø	M	2x0,4 e 2,2x0,45	3x0,5	3,5x0,6	4x0,7	5x0,8	6x1
For inserts with thread		UNC No. 2	UNC/UNF No. 4	UNC/UNF No. 6	UNC/UNF No. 8, UNC No. 10, BSF 3/16	UNF 10, UNC 12, BSW 3/16	UNC/UNF/BSW/BSF 1/4
Supplier code		07002	07004	07005	07006	07008	07009
<b>9502GB</b>	Each	<b>3,48</b>	<b>3,48</b>	<b>3,48</b>	<b>3,48</b>	<b>3,48</b>	<b>3,48</b>

Size		<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>
For metric inserts Ø	M	7x1, 8x1, 8x1,25	9x1 e 9x1,25	10x1, 10x1,25, 10x1,5	11x1,25 e 11x1,5	12x1, 12x1,25, 12x1,5, 12x1,75
For inserts with thread		UNC/UNF 5/16	UNC/BSW/BSF 3/8	UNF 3/8, BSP(G) 1/8	UNC/UNF/BSW/BSF 7/16	UNC/UNF/BSW/BSF 1/2
Supplier code		07011	07012	07013	07014	07015
<b>9502GB</b>	Each	<b>3,92</b>	<b>3,92</b>	<b>3,92</b>	<b>4,72</b>	<b>4,72</b>



**9502GB**



For inserts Ø from 14mm to 22mm tang removal may be carried out by means of a thin nose pliers

**PULLING TOOLS**

For extracting mounted threaded inserts.

Size		<b>2</b>	<b>3</b>
For metric inserts	M	3 to 10	11 to 24
For inserts with thread		UNC/UNF 4 to UNC/UNF 3/8, BSW 1/8 to BSW 3/8, BSF 3/16 to BSF 3/8	UNC/UNF 7/16 to UNC/UNF 1/2, BSW/BSF 7/16 to BSW/BSF 1/2
Supplier code		07052	07053
<b>9502GC</b>	Each	<b>17,50</b>	<b>21,20</b>



**9502GC**



Suitable for thread regeneration. In rhombodail-section stainless steel, spring-shaped, it creates two perfectly concentric threads, one external coupling with the threaded hole previously made, and one internal for screw coupling, etc. Drive shank for insertion in the hole, to be removed after installation by using a suitable cutting tool.

**SETS OF MONO-SIZE THREADED INSERTS LENGHT 1,5 x Ø**

Each set contains:

1 size of threaded inserts according to the indicated quantity, 1 HSS spotting drill (except for Ø 14mm and Ø 22mm), 1 threading tap, 1 tool for the application, 1 tool for cutting (except for Ø 14mm and Ø 22mm).

In box.



**9503G**



M

MF

Ø for male pitch	mm	<b>3x0,5</b>	<b>4x0,7</b>	<b>5x0,8</b>	<b>6x1</b>	<b>7x1</b>	<b>8x1</b>	<b>8x1,25</b>	<b>9x1,25</b>	<b>10x1</b>	<b>10x1,25</b>	<b>10x1,5</b>
Tip Ø	mm	3,2	4,2	5,2	6,3	7,3	8,3	8,3	9,3	10,3	10,3	10,4
Insert quantity	No	20	20	20	20	20	20	20	15	15	15	15
Applying tool	Gr	4	6	8	9	10	11	11	12	13	13	13
Cutting tool	Gr	4	6	8	9	11	11	11	12	13	13	13
Supplier code		04005	04007	04009	04010	04011	04013	04012	04014	04018	04017	04016
<b>9503G</b>	Each	<b>28,80</b>	<b>28,80</b>	<b>29,90</b>	<b>32,30</b>	<b>41,10</b>	<b>41,10</b>	<b>41,10</b>	<b>45,60</b>	<b>43,90</b>	<b>43,90</b>	<b>43,90</b>

Ø for male pitch	mm	<b>12x1</b>	<b>12x1,25</b>	<b>12x1,5</b>	<b>12x1,75</b>	<b>14x1,25</b>	<b>14x1,5</b>	<b>14x2</b>	<b>16x2</b>	<b>18x2,5</b>	<b>20x2,5</b>	<b>22x2,5</b>
Tip Ø	mm	12,3	12,3	12,4	12,4	-	-	-	-	-	-	-
Insert quantity	No	10	10	10	10	10	10	10	5	5	5	5
Applying tool	Gr	15	15	15	15	17	16	16	18	20	21	22
Cutting tool	Gr	15	15	15	15	-	-	-	-	-	-	-
Supplier code		04024	04023	04022	04021	04030	04029	04028	04032	04034	04037	04040
<b>9503G</b>	Each	<b>49,20</b>	<b>49,20</b>	<b>49,20</b>	<b>49,20</b>	<b>57,20</b>	<b>57,20</b>	<b>57,20</b>	<b>69,30</b>	<b>82,20</b>	<b>89,10</b>	<b>103,00</b>

Art. 9503 G 10x1.25 contains the insert with length 10mm.

Art. 9503 G 12x1.25 contains the insert with length 12mm.

Art. 9503 G 14x1.25 contains the insert with length 16.4mm.

Drills for inserts Ø 14-16-18-20-22mm (not included) must be Ø 14.5-16

**9503GA** 


UNC

Product description as Art. 9503G

SETS OF MONO-SIZE THREADED INSERTS LENGHT 1,5 x Ø

Each set contains:

No.1 size of threaded inserts according to the indicated quantity, No.1 HSS spotting drill, No.1 threading tap, No.1 tool for the application, No.1 tool for cutting.

Supplied in case.

Thread UNCxno. of threads		2x56	4x40	5x40	6x32	8x32	10x24
Tip Ø	mm	2,4	3,1	3,4	3,8	4,4	5,2
Insert quantity	No	20	20	20	20	20	20
Applying tool	Gr	2	4	4	5	6	7
Cutting tool	Gr	2	4	4	5	6	6
Supplier code		04100	04101	04106	04102	04103	04104
<b>9503GA</b>	<b>Each</b>	<b>43,60</b>	<b>39,40</b>	<b>39,40</b>	<b>39,40</b>	<b>39,40</b>	<b>39,40</b>

Thread UNCxno. of threads		12x24	1/4x20	5/16x18	3/8x16	7/16x14	1/2x13
Tip Ø	mm	5,8	6,7	8,3	9,9	11,6	13
Insert quantity	No	20	20	20	15	10	10
Applying tool	Gr	8	9	10	12	14	15
Cutting tool	Gr	8	9	10	12	14	15
Supplier code		04105	04107	04108	04109	04110	04111
<b>9503GA</b>	<b>Each</b>	<b>39,40</b>	<b>35,50</b>	<b>43,40</b>	<b>46,30</b>	<b>52,10</b>	<b>57,10</b>

**9503GB** 


UNF

Product description as Art. 9503G

SETS OF MONO-SIZE THREADED INSERTS LENGHT 1,5 x Ø

Each set contains:

No.1 size of threaded inserts according to the indicated quantity, No.1 HSS spotting drill, No.1 threading tap, No.1 tool for the application, No.1 tool for cutting.

Supplied in case.

Thread UNFxn. of threads		4x48	6x40	8x36	10x32	1/4x28	5/16x24	3/8x24	7/16x20	1/2x20
Tip Ø	mm	3	3,8	4,4	5,1	6,7	8,3	9,8	11,5	13
Insert quantity	No	20	20	20	20	20	20	15	10	10
Applying tool	Gr	4	5	6	8	9	11	13	14	15
Cutting tool	Gr	4	5	6	8	9	11	13	14	15
Supplier code		04120	04121	04122	04123	04125	04126	04127	04128	04129
<b>9503GB</b>	<b>Each</b>	<b>39,40</b>	<b>39,40</b>	<b>39,40</b>	<b>39,40</b>	<b>35,50</b>	<b>43,40</b>	<b>46,30</b>	<b>52,10</b>	<b>57,10</b>

**9503GE** 


BSW

Product description as Art. 9503G

SETS OF MONO-SIZE THREADED INSERTS LENGHT 1,5 x Ø

Each set contains:

No.1 size of threaded inserts according to the indicated quantity, No.1 HSS spotting drill, No.1 threading tap, No.1 tool for the application, No.1 tool for cutting.

Supplied in case.

Øxno. of threads	inchesxNo.	1/8x40	3/16x24	1/4x20	5/16x18	3/8x16	7/16x14	1/2x12
Tip Ø	mm	3,4	5	6,7	8,3	9,9	11,5	13
Insert quantity	No	20	20	20	20	15	10	10
Applying tool	Gr	4	8	9	10	12	14	15
Cutting tool	Gr	4	8	9	11	12	14	15
Supplier code		04141	04142	04143	04144	04145	04146	04147
<b>9503GE</b>	<b>Each</b>	<b>39,40</b>	<b>39,40</b>	<b>35,50</b>	<b>43,40</b>	<b>46,30</b>	<b>52,10</b>	<b>57,10</b>

**9503GF** 


BSF

Product description as Art. 9503G

SETS OF MONO-SIZE THREADED INSERTS LENGHT 1,5 x Ø

Each set contains:

No.1 size of threaded inserts according to the indicated quantity, No.1 HSS spotting drill, No.1 threading tap, No.1 tool for the application, No.1 tool for cutting.

Supplied in case.

Øxno. of threads	inchesxNo.	3/16x32	1/4x26	5/16x22	3/8x20	7/16x18	1/2x16
Tip Ø	mm	5	6,6	8,3	9,9	11,5	13
Insert quantity	No	20	20	20	15	10	10
Applying tool	Gr	8	9	11	13	14	15
Cutting tool	Gr	6	9	11	13	14	15
Supplier code		04162	04163	04165	04166	04167	04168
<b>9503GF</b>	<b>Each</b>	<b>39,40</b>	<b>35,50</b>	<b>43,40</b>	<b>46,30</b>	<b>52,10</b>	<b>57,10</b>

**Orig. V-Coil - Art. 04096**

Product description as Art. 9503G

ASSORTMENTS OF MULTI-DIMENSION THREADED INSERTS

The set contains:

No.5 pcs. for each size of inserts Art. 9500 G 14x1,25A/ 14x1,25B/ 14x1,25C

No.1 tap Art. 9501 G 14x1,25

No.1 tool for the application Art. 9502 GA 17

Supplied in case.

9504A	Each	67,80
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The insert drill 14x1,25 A/14x1,25 B/14x1,25 C (not included) must be Ø 14.4mm.



M

**9504A**

**Orig. V-Coil - Art. 04081**

Product description as Art. 9503G

Each set contains:

25 pcs. per size inserts Art. 9500 G 5x0.8/6x1/8x1.25/10x1.5

10 pcs. inserts Art. 9500 G 12x1.75

5 pcs. HSS drills 5.2/6.3/8.3/10.4/12.4mm

5 pcs. taps for Art. 9501 G 5x0.8/6x1/8x1.25/10x1.5/12x1.75

5 pcs. for application tools Art. 9502 GA Size 8/9/11/13/15

5 pcs. for cutting tools Art. 9502 GB Size 8/9/11/13/15

Supplied in case.

9504E	Each	209,00
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M

**9504E**

**Orig. V-Coil - Art. 04083**

Product description as Art. 9503G

The set contains:

inserts, 25 pcs for each size, Art. 9500 G 6x1/8x1.25/10x1.5

inserts, 10 pcs for each size, Art. 9500 G 12x1.75/14x1.25C

4 HSS drills 6.3/8.3/10.4/12.4

5 taps for Art. 9501 G 6x1/8x1.25/10x1.5/12x1.75/14x1.25

5 application tools Art. 9502 GA Size 9/11/13/15/17

4 cutting tools Art. 9502 GB Size 9/11/13/15

In case.

9504G	Each	238,00
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The insert drill 14x1.25C (not included) must be Ø 14.5mm.



M

**9504G**

**Orig. V-Coil - Art. 04385**

Product description as Art. 9503G

Contents:

10 pcs per size, inserts Art. 9500 G 6x1/8x1.25/10x1.5

3 HSS bits 6.3/8.3/10.4mm 1/4 hex drive (C 6.3)

3 HSSG taps M 6x1/8x1.25/10x1.5 1/4 hex drive (C 6.3)

3 applicator tools Art. 9502 GAR 6/8/10 g

3 cutters for inserts 6x1/8x1.25/10x1.5 1/4 hex drive (C 6.3)

1 chuck, with sliding ring nut, 1/4 hex drive (E 6.3) for tools with 1/4 hex shank (C 6.3)

Boxed.

9504P	Each	133,00
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M

**9504P**


**9504R**

**V-COIL**  
 THREAD INSERT SYSTEM
**M****Orig. V-Coil - Art. 04381**

Product description as Art. 9503G

Contents:

10 pcs per size, inserts Art. 9500 G 5x0.8/6x1/8x1.25/10x1.5/12x1.75  
 5 HSS bits 5.2/6.3/8.3/10.4/12.4mm 1/4 hex drive (C 6.3)  
 5 HSSG taps M 5x0.8/6x1/8x1.25/10x1.5/12x1.75 1/4 hex drive (C 6.3)  
 5 applicator tools Art. 9502 GAR 5/6/8/10/12 g  
 5 cutters for inserts 5x0.8/6x1/8x1.25/10x1.5/12x1.75 1/4 hex drive (C 6.3)  
 1 chuck, with sliding ring nut, 1/4 hex drive (E 6.3) for tools with 1/4 hex shank (C 6.3)  
 Boxed.

<b>9504R</b>	Each	<b>209,00</b>
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**9510G**

**V-COIL**  
 THREAD INSERT SYSTEM
**M****Orig. V-Coil - Art. VC 900**

Product description as Art. 9503G

SETS OF MONO-SIZE AND MULTI-SIZE ASSORTMENT THREADED INSERTS IN STAND

In sturdy sheet steel, to be placed on the selling bench. Dimensions: 515x265x460mm.

It contains:

No.5 kits x each Art. 9503 G 5x0,8/ 6x1/ 8x1,25/ 10x1,5/ 12x1,75

No.3 sets x each Art. 9504 A/ 9504 E.

<b>9510G</b>	Each	<b>1.820,00</b>
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**9515GA**

**V-COIL**  
 THREAD INSERT SYSTEM
**INOX****Orig. V-Coil - Art. 191**

Socket model, particularly suitable for regeneration of motor spark plug threads. STAINLESS steel.

Inseparable packages with 10 PCs.

Type	14 1,25	14 1,25A	14 1,25B	14 1,25C	
Ø	mm 14	14	14	14	
Pitch	mm 1,25	1,25	1,25	1,25	
Thread length	mm 9,5	11,2	12,7	17,5	
<b>9515GA</b>	Each	<b>4,36</b>	<b>4,50</b>	<b>4,50</b>	<b>4,80</b>

**9515GB**

**V-COIL**  
 THREAD INSERT SYSTEM
**Orig. V-Coil - Art. 19001**

TAPS FOR THREADED INSERTS ART. 9515 GA

Special type to house socket inserts M 14x1.25.

Ø	mm 16
Pitch	mm 1,25
Overall length	mm 70
Useful length	mm 41
Ext. Hesagon	mm 16
Int. hexagon	mm 4

<b>9515GB</b>	Each	<b>42,90</b>
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**9515GE**

**V-COIL**  
 THREAD INSERT SYSTEM
**Orig. V-Coil - Art. 19113**

ASSORTMENTS OF MULTIPLE-SIZE THREADED INSERTS ART. 9515 GA

Contents:

4 pcs. per size, inserts Art. 9515 GA 14x1.25/14x1.25A/ 14x1.25B/ 14x1.25C

1 tap Art. 9515 GB

Boxed.

<b>9515GE</b>	Each	<b>72,60</b>
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**Orig. V-Coil - Art. 19147**

Socket model, particularly suitable for reconfiguring LAMBDA M 18 x .5. STAINLESS steel.  
Inseparable packages with 10 PCs.

Ø	mm	18
Pitch	mm	1,5
Thread length	mm	9
<b>9516GA</b>	<b>Each</b>	<b>13,10</b>


**INOX 9516GA**

**Orig. V-Coil - Art. 19149**

Spring model, particularly suitable for reconfiguring LAMBDA M 18 x .5. X 750 stainless steel sensor threads.

Inseparable packages with 10 PCs.

Ø	mm	18
Pitch	mm	1,5
Thread length	mm	9
<b>9516GB</b>	<b>Each</b>	<b>11,70</b>


**9516GB**

**Orig. V-Coil - Art. 19007**

TAPS FOR THREADED INSERTS ART. 9516 GA-B

Special type to house socket and spring inserts M 18x1.5.

Ø	mm	20
Pitch	mm	1,5
Overall length	mm	50
Useful length	mm	21
Ext. Hexagon	mm	14
Int. Square	inches.	1/4
<b>9516GC</b>	<b>Each</b>	<b>36,30</b>


**9516GC**

**Orig. V-Coil - Art. 19008**

APPLICATOR TOOLS FOR THREADED INSERTS ART. 9516 GA-B

Special type to fit socket and spring inserts M 18x1.5.

Ø	mm	18
Pitch	mm	1,5
Overall length	mm	40
Useful length	mm	27
Ext. Hexagon	mm	14
Int. Square	inches.	1/4
<b>9516GE</b>	<b>Each</b>	<b>26,20</b>


**9516GE**

**Orig. V-Coil - Art. 19104**

ASSORTMENTS OF THREADED INSERTS ART. 9516 GA-B

Contents:

- 5 socket inserts Art. 9516 GA
  - 5 spring inserts Art. 9516 GB
  - 1 tap Art. 9516 GC
  - 1 applicator tool Art. 9516 GE
- Boxed.

<b>9516GF</b>	<b>Each</b>	<b>117,00</b>
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**9516GF**

**THREADED PLUGS**
**Orig. V-Coil**

Particularly suitable for tanks and engine oil sumps.

In galvanised steel. Pack contains 10 pcs. (Price per pack).

Ø	mm	<b>13</b>	<b>15</b>	<b>17</b>
Pitch	mm	1,5	1,5	1,5
Type		A	A	B
Ext. Hex.	mm	19	19	-
Int. Hex.	mm	-	-	8
Supplier code		19130	19131	19132
<b>9518GA</b>	<b>Per pack</b>	<b>37,80</b>	<b>37,80</b>	<b>37,80</b>


**9518GA AR**

**SEAL RINGS FOR THREADED PLUGS ART. 9518 GA**

In copper. Pack contains 25 pcs. (Price per pack).

Int Ø	mm	<b>15</b>	<b>17</b>
Ext. Ø x thickness	mm	19x1,5	21x1,5
For threaded screws	mm	13/15	17
Supplier code		19140	19141
<b>9518GB</b>	<b>Per pack</b>	<b>11,70</b>	<b>11,70</b>


**9518GB**


**9518GE** 


## TAPS FOR THREADED PLUGS ART. 9518 GA

Special type to regenerate the threads on threaded plugs for fuel tanks and engine oil sumps.

Ø	mm	<b>13</b>	<b>15</b>	<b>17</b>
Pitch	mm	1,5	1,5	1,5
Overall length	mm	50	50	50
Useful length	mm	21	21	21
Ext. Hex.	mm	16	16	16
Int. Hex.	mm	4	4	5
Supplier code		19002	19003	19004
<b>9518GE</b>	<b>Each</b>	<b>25,40</b>	<b>25,40</b>	<b>29,10</b>

**9518GR** 
**Orig. V-Coil - Art. 19120**

## ASSORTMENTS OF MULTIPLE-SIZE THREADED PLUGS

Contents:

5 pcs. per size, plugs Art. 9518 GA 13/15/17

20 rings Art. 9518 GB 15

10 rings Art. 9518 GB 17

1 pcs. per size, taps Art. 9518 GE 13/15/17

Boxed.

<b>9518GR</b>	<b>Each</b>	<b>94,40</b>
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**FRET SAWS**
**9538G** 
**Prod. SCU**

For cutting WOOD, normal tothing. Length 130mm.

Size		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>7</b>
<b>9538G</b>	<b>Per grossa</b>	<b>19,40</b>	<b>19,40</b>	<b>19,40</b>	<b>19,40</b>	<b>19,40</b>	<b>19,40</b>	<b>21,10</b>

Minimum order: 1 thick for size.

**9540G** 


For cutting WOOD, spaced tothing. Length 130mm.

Size		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>9540G</b>	<b>Per grossa</b>	<b>20,90</b>	<b>20,90</b>	<b>20,90</b>	<b>20,90</b>	<b>20,90</b>	<b>20,90</b>	<b>20,90</b>	<b>23,10</b>

Minimum order: 1 thick for size.

**9547G** 


For cutting METALS, fine tothing. Extra quality. Length 130mm.

Size		<b>4/0</b>	<b>3/0</b>	<b>2/0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>9547G</b>	<b>Per grossa</b>	<b>51,40</b>	<b>43,90</b>	<b>43,90</b>	<b>43,90</b>	<b>43,90</b>	<b>43,90</b>	<b>43,90</b>
Size		<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>9</b>		
<b>9547G</b>	<b>Per grossa</b>	<b>43,90</b>	<b>50,10</b>	<b>56,60</b>	<b>59,60</b>	<b>69,30</b>		

Minimum order: 1 thick for size.

**9549G** 


For cutting RUBBER, PLASTIC, WOOD, etc., kinked tothing. Length 130mm.

Size		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>9549G</b>	<b>Per grossa</b>	<b>32,90</b>	<b>32,90</b>	<b>32,90</b>	<b>36,10</b>	<b>40,90</b>

Minimum order: 1 thick for size.

**HAND BLADES HIGH SPEED STEEL**
**9563G** 
**Orig. Guhema-HSS flex - Art. ASA 0300 PZ**

Flexible type, subject to differentiated hardening treatment.

Waved tothing.

In ABC III steel (Material no. 1.3333).

Blade suitable for cutting material with resistance up to 60 kg/sqmm.

Bores int. length	inches	12
Bores int. length	mm	300
Width	mm	13
Thickness	mm	0.60
Teeth per inch	No	24
<b>9563G</b>	<b>Each</b>	<b>1,12</b>

Packing unit: 100 pieces.

When we run out of stock, all the Art. Orig. Guhema will be supplied in orange colour.

**Orig. Guhema-HSS flex-allhard - Art. ASA 0300 P**

Flexible type, completely hardened by vacuum treatment.

Waved toothing.

In ABC III steel (Material no. 1.3333).

Blade suitable for cutting material with high resistance up to 80 Kg/sqmm.

Bores int. length	inches	12
Bores int. length	mm	300
Width	mm	13
Thickness	mm	0.60
Teeth per inch	No	24

<b>9563GL</b>	Each	<b>1,42</b>
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Packing unit: 100 pieces.


**9563GL**

**Orig. Guhema-Super HSS flex-allhard - Art. AD 0300 P**

Flexible type, completely hardened by vacuum treatment.

Waved toothing. HSS Dmo 5 (Material no. 1.3343).

Blade suitable for cutting material with very high resistance up to 120 Kg/sqmm.

Bores int. length	inches	12
Bores int. length	mm	300
Width	mm	13
Thickness	mm	0.60
Teeth per inch	No	24

<b>9563GP</b>	Each	<b>1,56</b>
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Packing unit: 100 pieces.

Product running out of stock.


**9563GP**

**HSS**
**Orig. Guhema-trihard-Cobalt flex**

Flexible type, subject to differentiated hardening treatment.

In cobalt special steel (quality K945).

Blade suitable for cutting very hard material such as Nickel and Chrome high content austenitic steel.

Art.		<b>9564GA</b>	<b>9564GB</b>	<b>9564GE</b>
Bores int. length	inches	12	12	12
Bores int. length	mm	300	300	300
Width	mm	13	13	13
Thickness	mm	0.60	0.60	0.60
Teeth per inch	No	18	24	32
Toothing		straight-set	straight-set	ondulated
Supplier code		AK0300NZ	AK0300PRZ	AK0300QZ

Each	<b>1,34</b>	<b>1,34</b>	<b>1,34</b>
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Packing unit: 100 pieces.


**9564GA**  
**9564GB**  
**9564GE**

**Trihard**
**HSS-Co**
**Orig. Guhema-Bi-Lastic**

Bi-metal type, flexible and unbreakable.

Teeth and back hardened by vacuum treatment.

HSS steel toothing Dmo 5 (Material no. 1.3343).

Back-drive support in special steel for springs.

Blade suitable for multi-purpose use.

Art.		<b>9565GA</b>	<b>9565GB</b>	<b>9565GE</b>	<b>9565GF</b>
Bores int. length	inches	12	12	12	12
Bores int. length	mm	300	300	300	300
Width	mm	13	13	13	13
Thickness	mm	0.60	0.60	0.60	0.60
Teeth per inch	No	18	24	32	22/32 variabile
Toothing		ondulated	ondulated	ondulated	ondulated
Supplier code		ASF0300N	ASF0300P	ASF0300Q	ASF0300R

Each	<b>1,42</b>	<b>1,42</b>	<b>1,42</b>	<b>1,42</b>
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Packing unit: 100 pieces.


**9565GA**  
**9565GB**  
**9565GE**  
**9565GF**

**Bimetallic**
**HSS**
**Orig. Guhema-Bi-Lastic - Art. ASF 0302 P**

Waved DOUBLE-TOOTHING. Bi-metal type, flexible and unbreakable.

Teeth and support hardened by vacuum treatment.

HSS DMO 5 (Material no. 1.3343).

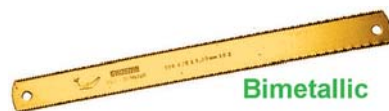
Drive support in special steel for springs.

Blade suitable for multi-purpose use.

Bores int. length	inches	12
Bores int. length	mm	300
Width	mm	25
Thickness	mm	0.60
Teeth per inch	No	24

<b>9565GT</b>	Each	<b>3,98</b>
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Packing unit: 100 pieces.


**9565GT**

**Bimetallic**
**HSS**

**MACHINE HACKSAW BLADES HSS**

**9568G**



**HSS**

**Orig. Guhema-Super HSS**  
 STANDARD tothing.  
 HSS Dmo 5. Flexible and shock-resistant.  
 For cutting steel with resistance up to 120 kg/sqmm.

Type		12A	12B	12E	12F	12H	14C	14D	14E	14F	14H	16C	16D	16E	16F	16G	16GA
Bores int. length	mm	300	300	300	300	300	350	350	350	350	350	400	400	400	400	400	400
Bores int. length	inches	12	12	12	12	12	14	14	14	14	14	16	16	16	16	16	16
Width	mm	25	25	25	25	25	25	25	25	30	30	25	25	25	30	30	30
Thickness	mm	1,25	1,25	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5
Teeth per inch	No	10	14	6	10	14	6	10	14	6	10	6	10	14	4	6	10
<b>9568G</b>	<b>Each</b>	<b>6,82</b>	<b>6,82</b>	<b>7,56</b>	<b>7,56</b>	<b>7,56</b>	<b>8,86</b>	<b>8,86</b>	<b>8,86</b>	<b>10,70</b>	<b>10,70</b>	<b>10,10</b>	<b>10,10</b>	<b>10,10</b>	<b>12,30</b>	<b>12,30</b>	<b>12,30</b>

Type		16H	16HA	16L	16M	16P	16R	18A	18B	18C	18D	18E	18H	18L	18LA	18P	18R
Bores int. length	mm	400	400	400	400	400	400	450	450	450	450	450	450	450	450	450	450
Bores int. length	inches	16	16	16	16	16	16	18	18	18	18	18	18	18	18	18	18
Width	mm	30	30	30	30	35	35	30	30	30	30	35	35	35	35	40	40
Thickness	mm	2	2	2	2	2	2	1,5	2	2	2	2	2	2	2	2	2
Teeth per inch	No	4	6	8	10	4	6	6	4	6	10	4	6	8	10	4	6
<b>9568G</b>	<b>Each</b>	<b>16,50</b>	<b>16,50</b>	<b>16,50</b>	<b>16,50</b>	<b>18,50</b>	<b>18,50</b>	<b>13,60</b>	<b>18,40</b>	<b>18,40</b>	<b>18,40</b>	<b>20,80</b>	<b>20,80</b>	<b>20,80</b>	<b>20,80</b>	<b>23,30</b>	<b>23,30</b>

Type		18S	20A	20B	22	22A	22B	22D	22E	24A	24B	26A	26B	28A	28B
Bores int. length	mm	450	500	500	550	550	550	550	550	600	600	650	650	700	700
Bores int. length	inches	18	20	20	22	22	22	22	22	24	24	26	26	28	28
Width	mm	40	40	40	40	45	45	50	50	50	50	50	50	50	50
Thickness	mm	2	2	2	2	2	2	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5
Teeth per inch	No	8	4	6	6	4	6	4	6	4	6	4	6	4	6
<b>9568G</b>	<b>Each</b>	<b>23,30</b>	<b>26,20</b>	<b>26,20</b>	<b>28,80</b>	<b>32,50</b>	<b>32,50</b>	<b>43,70</b>	<b>43,70</b>	<b>49,10</b>	<b>49,10</b>	<b>53,40</b>	<b>53,40</b>	<b>57,30</b>	<b>57,30</b>

Packing unit: 10 pieces.

**9569G**



**HSS-Co**

**Orig. Guhema-Brillant**  
 STANDARD tothing.  
 In HSS SUPER-RAPID, special Emo5Co5 Cobalt alloy steel. Flexible and shock-resistant. For cutting very hard materials such as Nickel and Chrome high content austenic steel.

Type		16C	16D	16H	16HA	16L	18D	18E	18H
Bores int. length	mm	400	400	400	400	400	450	450	450
Bores int. length	inches	16	16	16	16	16	18	18	18
Width	mm	25	25	30	30	30	30	35	35
Thickness	mm	1,5	1,5	2	2	2	2	2	2
Teeth per inch	No	6	10	4	6	8	10	4	6
<b>9569G</b>	<b>Each</b>	<b>12,30</b>	<b>12,30</b>	<b>20,10</b>	<b>20,10</b>	<b>20,10</b>	<b>22,40</b>	<b>25,40</b>	<b>25,40</b>

Type		20A	20B	22B	22E	24A	24B	26A	26B
Bores int. length	mm	500	500	550	550	600	600	650	650
Bores int. length	inches	20	20	22	22	24	24	26	26
Width	mm	40	40	45	50	50	50	50	50
Thickness	mm	2	2	2	2,5	2,5	2,5	2,5	2,5
Teeth per inch	No	4	6	6	4	4	6	4	6
<b>9569G</b>	<b>Each</b>	<b>31,90</b>	<b>31,90</b>	<b>39,50</b>	<b>53,10</b>	<b>59,80</b>	<b>59,80</b>	<b>65,10</b>	<b>65,10</b>

Packing unit: 10 pieces.

**9571G**



**HSS-Co**

**Orig. Guhema-Brillant Future**  
 VARIABLE positive tothing for reducing cutting times and vibrations and improving blade and machine life.  
 In HSS special Emo5Co5 Cobalt alloy steel. Flexible and shock-resistant.  
 For cutting very hard materials such as Nickel and Chrome high content austenic steel. Also suitable for cutting stainless steel.

Type		12B	14B	16B	16C	16E	18C	18E
Bores int. length	mm	300	350	400	400	400	450	450
Bores int. length	inches	12	14	16	16	16	18	18
Width	mm	25	25	30	30	35	35	40
Thickness	mm	1,5	1,5	2	2	2	2	2
Teeth per inch	No	8/10	6/8	6/8	8/10	4/6	4/6	3/4
<b>9571G</b>	<b>Each</b>	<b>9,74</b>	<b>11,50</b>	<b>21,40</b>	<b>21,40</b>	<b>24,10</b>	<b>26,90</b>	<b>30,10</b>

Type		20C	20E	22B	22E	24B	26B
Bores int. length	mm	500	500	550	550	600	650
Bores int. length	inches	20	20	22	22	24	26
Width	mm	40	45	45	50	50	50
Thickness	mm	2	2	2	2,5	2,5	2,5
Teeth per inch	No	4/6	3/4	4/6	3/4	3/4	3/4
<b>9571G</b>	<b>Each</b>	<b>33,80</b>	<b>37,40</b>	<b>41,90</b>	<b>56,30</b>	<b>63,40</b>	<b>69,10</b>

Pack of 10 pieces.

When we run out of stock, all the Art. Orig. Guhema will be supplied in orange colour.

Prices in EURO - VAT not included

**Orig. Guhema-Bi-lastic**

STANDARD toothing.

In bi-metal steel. DMO5 HSS steel toothing. Back-drive support in special steel for springs.

Flexible and unbreakable.

For multi-purpose use, also suitable for cutting high-resistance steel.

Type		12A	14D	16D	16E	16F	18D	18E
Bores int. length	mm	300	350	400	400	400	450	450
Bores int. length	inches	12	14	16	16	16	18	18
Width	mm	25	32	38	38	38	38	38
Thickness	mm	1,25	1,6	1,9	1,9	1,9	1,9	1,9
Teeth per inch	No	10	10	4	6	10	4	6
<b>9572G</b>	<b>Each</b>	<b>10,20</b>	<b>12,40</b>	<b>19,70</b>	<b>19,70</b>	<b>19,70</b>	<b>22,20</b>	<b>22,20</b>

Type		18F	20D	20E	22E	24E	26D	28D
Bores int. length	mm	450	500	500	550	600	650	700
Bores int. length	inches	18	20	20	22	24	26	28
Width	mm	38	50	50	50	50	50	50
Thickness	mm	1,9	2,5	2,5	2,5	2,5	2,5	2,5
Teeth per inch	No	10	4	6	6	6	4	4
<b>9572G</b>	<b>Each</b>	<b>22,20</b>	<b>37,10</b>	<b>37,10</b>	<b>40,70</b>	<b>44,40</b>	<b>47,90</b>	<b>51,80</b>

Packing unit: 10 pieces.



Bimetallic

HSS

9572G

VARIABLE positive toothing for reducing cutting times and vibrations and improving blade and machine life.

In bi-metal steel. DMO5 HSS steel toothing. Back-drive support in special steel for springs.

Flexible and unbreakable. For multi-purpose use, also suitable for cutting hard and stainless steel.

Type		14C	16D	16F	18D	18F	20D	22D
Bores int. length	mm	350	400	400	450	450	500	550
Bores int. length	inches	14	16	16	18	18	20	22
Width	mm	32	38	38	38	38	50	50
Thickness	mm	1,6	1,9	1,9	1,9	1,9	2,5	2,5
Teeth per inch	No	6/8	4/6	8/10	4/6	8/10	4/6	4/6
<b>9574G</b>	<b>Each</b>	<b>13,30</b>	<b>21,10</b>	<b>21,10</b>	<b>23,70</b>	<b>23,70</b>	<b>39,50</b>	<b>43,50</b>

Type		24D	26C	28C
Bores int. length	mm	600	650	700
Bores int. length	inches	24	26	28
Width	mm	50	50	50
Thickness	mm	2,5	2,5	2,5
Teeth per inch	No	4/6	3/4	3/4
<b>9574G</b>	<b>Each</b>	<b>47,50</b>	<b>51,40</b>	<b>55,30</b>

Packing unit: 10 pieces.



Bimetallic

HSS

INOX

9574G

**Orig. Guhema-Super HSS**

For KASTO sawing machines.

STANDARD toothing.

In DMO5 HSS steel. Flexible and shock-resistant.

For cutting steel with resistance up to 120Kg/sqmm

Type		14B	16A	16B	18A	18B	20A	20B
Bores int. length	mm	350	400	400	450	450	500	500
Bores int. length	inches	14	16	16	18	18	20	20
Width	mm	36	36	36	40	40	48	48
Thickness	mm	2	2	2	2	2	2,5	2,5
Teeth per inch	No	6	4	6	4	6	4	6
<b>9576G</b>	<b>Each</b>	<b>16,80</b>	<b>19,10</b>	<b>19,10</b>	<b>23,30</b>	<b>23,30</b>	<b>40,40</b>	<b>40,40</b>

Type		22A	22B	23A	23B	26A	28A
Bores int. length	mm	550	550	575	575	650	700
Bores int. length	inches	22	22	23	23	26	28
Width	mm	45	45	50	50	55	55
Thickness	mm	2	2	2,5	2,5	2,5	2,5
Teeth per inch	No	4	6	4	6	4	4
<b>9576G</b>	<b>Each</b>	<b>32,50</b>	<b>32,50</b>	<b>46,80</b>	<b>46,80</b>	<b>58,30</b>	<b>64,50</b>

Packing unit: 10 pieces.



KASTO

HSS

9576G

**METAL CUTTING CIRCULAR SAW BLADES**

9581A

SCU

HSS

Prod. SCU

Universal type. FINE tooting. DIN 1837-UNI 4013 (5° angle).  
In DMO5 HSS steel.



15° ANGLE

Type		50A	50C	50E	50F	63A	63C	63E
Ø	mm	50	50	50	50	63	63	63
Thickness	mm	0,3	0,5	0,8	1	0,3	0,5	0,8
Bore	mm	13	13	13	13	16	16	16
Teeth	No	128	100	80	80	128	128	100
<b>9581A</b>	<b>Each</b>	<b>20,80</b>	<b>18,70</b>	<b>18,70</b>	<b>18,70</b>	<b>23,40</b>	<b>21,60</b>	<b>21,60</b>
Type		63F	63L	80C	80E	80F	80L	80P
Ø	mm	63	63	80	80	80	80	80
Thickness	mm	1	1,2	0,5	0,8	1	1,2	1,5
Bore	mm	16	16	22	22	22	22	22
Teeth	No	100	80	128	128	100	100	100
<b>9581A</b>	<b>Each</b>	<b>21,60</b>	<b>22,10</b>	<b>25,10</b>	<b>25,10</b>	<b>25,10</b>	<b>26,00</b>	<b>27,70</b>
Type		100C	100E	100F	100L	100P	100R	125L
Ø	mm	100	100	100	100	100	100	125
Thickness	mm	0,5	0,8	1	1,2	1,6	2	1,2
Bore	mm	22	22	22	22	22	22	22
Teeth	No	160	128	128	128	100	100	128
<b>9581A</b>	<b>Each</b>	<b>29,10</b>	<b>29,10</b>	<b>29,10</b>	<b>29,80</b>	<b>35,90</b>	<b>40,20</b>	<b>43,80</b>
Type		125P	125R	150L	150P	150R	200L	200P
Ø	mm	125	125	150	150	150	200	200
Thickness	mm	1,6	2	1,2	1,6	2	1,2	1,6
Bore	mm	22	22	32	32	32	32	32
Teeth	No	128	128	160	160	128	200	160
<b>9581A</b>	<b>Each</b>	<b>45,90</b>	<b>48,50</b>	<b>95,40</b>	<b>101,00</b>	<b>106,00</b>	<b>90,10</b>	<b>93,60</b>
Type		200R	200S					
Ø	mm	200	200					
Thickness	mm	2	2,5					
Bore	mm	32	32					
Teeth	No	160	160					
<b>9581A</b>	<b>Each</b>	<b>101,00</b>	<b>109,00</b>					

9581B

SCU

HSS

Universal type. THICK tooting. DIN 1838-UNI 4014 (15° angle).  
In DMO5 HSS steel.



15° ANGLE

Type		80F	80P	80R	100F	100P	100R	100S
Ø	mm	80	80	80	100	100	100	100
Thickness	mm	1	1,6	2	1	1,6	2	2,5
Bore	mm	22	22	22	22	22	22	22
Teeth	No	48	48	40	64	48	48	48
<b>9581B</b>	<b>Each</b>	<b>25,10</b>	<b>27,70</b>	<b>30,20</b>	<b>29,10</b>	<b>35,90</b>	<b>40,20</b>	<b>45,40</b>
Type		125P	125R	150P	150R	200P	200R	200S
Ø	mm	125	125	150	150	200	200	200
Thickness	mm	1,6	2	1,6	2	1,6	2	2,5
Bore	mm	22	22	32	32	32	32	32
Teeth	No	64	64	80	80	80	80	80
<b>9581B</b>	<b>Each</b>	<b>45,90</b>	<b>48,50</b>	<b>101,00</b>	<b>106,00</b>	<b>93,60</b>	<b>101,00</b>	<b>109,00</b>

**METAL CUTTING CIRCULAR SAW BLADES FOR CUTTING-OFF MACHINES**

9590  
9591  
9592

SCU

HSS

Prod. SCU

Suitable for cutting steel, cast iron and metals.

In DMO5 HSS steel.

With universal dragging holes. Hole 32mm.

Tooting for full bars (5mm pitch)



Ø	mm	200	225	250	275	300	315	350
Thickness	mm	1,8	1,9	2	2,5	2,5	2,5	2,5
Teeth	No	130	140	160	180	180	200	220
<b>9590</b>	<b>Each</b>	<b>77,10</b>	<b>84,30</b>	<b>91,50</b>	<b>122,00</b>	<b>151,00</b>	<b>164,00</b>	<b>200,00</b>

Product description as Art. 9590

Tooting for L T Z profiles and for pipes (4mm pitch)

Ø	mm	200	225	250	275	300	315	350
Thickness	mm	1,8	1,9	2	2,5	2,5	2,5	2,5
Teeth	No	160	180	200	220	220	240	280
<b>9591</b>	<b>Each</b>	<b>77,10</b>	<b>84,30</b>	<b>91,50</b>	<b>122,00</b>	<b>151,00</b>	<b>164,00</b>	<b>200,00</b>

Product description as Art. 9590

Tooting for thin profiles and pipes (3mm pitch)

Ø	mm	200	225	250	275	300	315	350
Thickness	mm	1,8	1,9	2	2,5	2,5	2,5	2,5
Teeth	No	200	220	250	280	300	300	350
<b>9592</b>	<b>Each</b>	<b>77,10</b>	<b>84,30</b>	<b>91,50</b>	<b>122,00</b>	<b>151,00</b>	<b>164,00</b>	<b>200,00</b>

Prices in EURO - VAT not included

Suitable for cutting stainless steel.  
In Co5 HSS steel.  
Anti-seizure sprayed treatment.  
With universal dragging holes. Hole 32mm.  
Toothing for full bars (5mm pitch)

Ø	mm	200	225	250	275	300	315	350
Thickness	mm	1,8	1,9	2	2,5	2,5	2,5	2,5
Teeth	No	130	140	160	180	180	200	220
<b>9595E</b>	<b>Each</b>	<b>101,00</b>	<b>110,00</b>	<b>120,00</b>	<b>159,00</b>	<b>196,00</b>	<b>213,00</b>	<b>259,00</b>

Product description as Art. 9595E  
Toothing for L T Z profiles and for pipes (4mm pitch)

Ø	mm	200	225	250	275	300	315	350
Thickness	mm	1,8	1,9	2	2,5	2,5	2,5	2,5
Teeth	No	160	180	200	220	220	240	280
<b>9595F</b>	<b>Each</b>	<b>101,00</b>	<b>110,00</b>	<b>120,00</b>	<b>159,00</b>	<b>196,00</b>	<b>213,00</b>	<b>259,00</b>

Product description as Art. 9595E  
Toothing for thin profiles and pipes (3mm pitch)

Ø	mm	200	225	250	275	300	315	350
Thickness	mm	1,8	1,9	2	2,5	2,5	2,5	2,5
Teeth	No	200	220	250	280	300	300	350
<b>9595L</b>	<b>Each</b>	<b>101,00</b>	<b>110,00</b>	<b>120,00</b>	<b>159,00</b>	<b>196,00</b>	<b>213,00</b>	<b>259,00</b>

**SCU** **HSS-Co** **9595E**  
**9595F**  
**9595L**



**VAPORIZED INOX**

Suitable for cutting full bars, profiles, synthetic and plastic pipes.  
In Dmo5 HSS steel. Hole 32mm.

Ø	mm	200	250	300
Thickness	mm	1	1,5	2
Teeth	No	232	300	320
<b>9595P</b>	<b>Each</b>	<b>121,00</b>	<b>98,70</b>	<b>161,00</b>

**SCU** **HSS** **9595P**



**CARBIDE TIPPED CIRCULAR SAWS**

**Orig. Schumacher - Art. Combi-33**

For universal use.  
Alternate sharpened toothing for combined cutting of profiles and pipes in aluminium, brass, copper, plastic and wood, even coated.

Type		150 A*	150 B*	180 A*	180 B*	210
Ø	mm	150	150	180	180	210
Thickness	mm	2,8	2,8	2,8	2,8	2,8
Bore	mm	16	20	20	30	30
Teeth	No	42	42	48	48	54
<b>9596G</b>	<b>Each</b>	<b>127,00</b>	<b>122,00</b>	<b>147,00</b>	<b>147,00</b>	<b>109,00</b>

\* Sizes running out of stock.

*H.O. Schumacher & Sohn* **HARTMETALL** **9596G**



**Prod. SCU**

Negative flat trapezoidal toothing with alternate sharpening. For cutting profiles, even thin, in aluminium, light alloys, brass, copper and similar materials, plastic.  
With dragging holes.

Suitable for cutting-machines with vertical cut from top.

Type		250 A	250 E	250 F	300 A	300 E	300 F	350 E
Ø	mm	250	250	250	300	300	300	350
Thickness	mm	3,2	3,2	3,2	3,2	3,2	3,2	3,4
Bore	mm	30	32	32	30	30	32	32
Teeth	No	80	60	80	96	72	96	84
<b>9597G</b>	<b>Each</b>	<b>111,00</b>	<b>93,30</b>	<b>111,00</b>	<b>129,00</b>	<b>108,00</b>	<b>129,00</b>	<b>132,00</b>

Type		350 F	400 E
Ø	mm	350	400
Thickness	mm	3,4	3,6
Bore	mm	32	32
Teeth	No	108	96
<b>9597G</b>	<b>Each</b>	<b>153,00</b>	<b>167,00</b>

**SCU** **HARTMETALL** **9597G**



9597GR

SCU

HARTMETALL



Oblique profile toothing for dry-cutting iron profiles, pipes, steel plate, brass, copper, aluminium, PVC, thermal panels with steel plate surfacing, stratified and boarded wood, even with nails. Suitable for static cutting-off machines (saw blades with hole Ø 25.4mm suitable for Jepson, Ridgid, Makita, Flex cutting-off machines).

Type		250 A	300 A	300 B	305 A	305 B	355 B
Ø	mm	250	300	300	305	305	350
Thickness	mm	2,4	2,4	2,4	2,4	2,4	2,5
Bore	mm	30	30	30	25,4	25,4	25,4
Teeth	No	48	60	80	60	80	90
<b>9597GR</b>	<b>Each</b>	<b>98,70</b>	<b>115,00</b>	<b>133,00</b>	<b>117,00</b>	<b>135,00</b>	<b>181,00</b>

REDUCTIONS FOR ART. 9596 G TO 9597 GR.

Diameter 16mm to 13mm.

<b>O9597GA</b>	<b>Each</b>	<b>5,38</b>
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Diameter 20mm to 16mm.

<b>O9597GB</b>	<b>Each</b>	<b>5,38</b>
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Diameter 30mm to 20mm.

<b>O9597GE</b>	<b>Each</b>	<b>5,38</b>
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Diameter 30mm to 25mm.

<b>O9597GH</b>	<b>Each</b>	<b>5,38</b>
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Diameter 32mm to 30mm.

<b>O9597GM</b>	<b>Each</b>	<b>5,38</b>
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EASY CUT GREASE

9599G

SCU



Prod. SCU

Solid lubricant for max performance when working with: Machine saw blades - bandsaw blades - circular saw blades Drill bits - Milling cutters - various tools for cutting steel and metals of any hardness. Packing unit: 300g stick.

<b>9599G</b>	<b>Each</b>	<b>25,90</b>
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METAL CUTTING BANDSAW BLADES

9600G

SCU



Prod. SCU

In alloy steel. For unalloyed steel and iron up to R. 70Kg sqmm.

STANDARD toothing.

In 30m reels, non-cuttable.

Type		6E	6F	6L	6P	6R	8E	8F	8L
Width	mm	6	6	6	6	6	8	8	8
Thickness	mm	0,65	0,65	0,65	0,65	0,65	0,65	0,65	0,65
Teeth per inch	No	8	10	14	18	22	8	10	14
<b>9600G</b>	<b>Per meter</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,08</b>	<b>2,36</b>	<b>2,36</b>	<b>2,36</b>

Type		8P	8R	10B	10C	10E	10F	10L	10P
Width	mm	8	8	10	10	10	10	10	10
Thickness	mm	0,65	0,65	0,65	0,65	0,65	0,65	0,65	0,65
Teeth per inch	No	18	22	4	6	8	10	14	18
<b>9600G</b>	<b>Per meter</b>	<b>2,36</b>	<b>2,36</b>	<b>2,36</b>	<b>2,36</b>	<b>2,36</b>	<b>2,36</b>	<b>2,36</b>	<b>2,36</b>

Type		10R	13B	13C	13F	13L	16B	16C	16F
Width	mm	10	13	13	13	13	16	16	16
Thickness	mm	0,65	0,65	0,65	0,65	0,65	0,8	0,8	0,8
Teeth per inch	No	22	4	6	10	14	4	6	10
<b>9600G</b>	<b>Per meter</b>	<b>2,36</b>	<b>2,56</b>	<b>2,56</b>	<b>2,56</b>	<b>2,56</b>	<b>3,36</b>	<b>3,36</b>	<b>3,36</b>

Type		16L	20B	20C	20F	20L	25B	25C	25E
Width	mm	16	20	20	20	20	25	25	25
Thickness	mm	0,8	0,8	0,8	0,8	0,8	0,9	0,9	0,9
Teeth per inch	No	14	4	6	10	14	4	6	8
<b>9600G</b>	<b>Per meter</b>	<b>3,36</b>	<b>3,78</b>	<b>3,78</b>	<b>3,78</b>	<b>3,78</b>	<b>4,50</b>	<b>4,50</b>	<b>4,50</b>

Type		25F	25L
Width	mm	25	25
Thickness	mm	0,9	0,9
Teeth per inch	No	10	14
<b>9600G</b>	<b>Per meter</b>	<b>4,50</b>	<b>4,50</b>



**METAL CUTTING BI-METAL BANDSAW BLADES**

**Prod. SCU**

In M42 bi-metal steel, with high-cobalt HSS-Co8 steel tooling. For cutting high-resistance alloy steel and stainless steel. Suitable for all band saws. In 30m reels, non-cuttable. STANDARD tooling.

Type		6F	6L	10F	10L	12L	12P	13F
Width	mm	6	6	10	10	13	13	13
Thickness	mm	0,9	0,9	0,9	0,9	0,65	0,65	0,9
Teeth per inch	No	10	14	10	14	14	18	10
<b>9605G</b>	<b>Per meter</b>	<b>14,10</b>	<b>14,10</b>	<b>14,10</b>	<b>14,10</b>	<b>10,90</b>	<b>10,90</b>	<b>11,10</b>

Type		13L	20C	20F	27B	27C	27E	27F
Width	mm	13	20	20	27	27	27	27
Thickness	mm	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Teeth per inch	No	14	6	10	4	6	8	10
<b>9605G</b>	<b>Per meter</b>	<b>11,10</b>	<b>12,20</b>	<b>12,20</b>	<b>12,90</b>	<b>12,90</b>	<b>12,90</b>	<b>12,90</b>

Type		27L	34B	34C
Width	mm	27	34	34
Thickness	mm	0,9	1,1	1,1
Teeth per inch	No	14	4	6
<b>9605G</b>	<b>Per meter</b>	<b>12,90</b>	<b>18,20</b>	<b>18,20</b>



**VARIABLE tooling for reducing cutting times and vibrations.**

In M42 bi-metal steel, with high-cobalt HSS-Co8 steel tooling. For cutting high-resistance alloy steel and stainless steel. Suitable for all band saws. In 30m reels, non-cuttable.

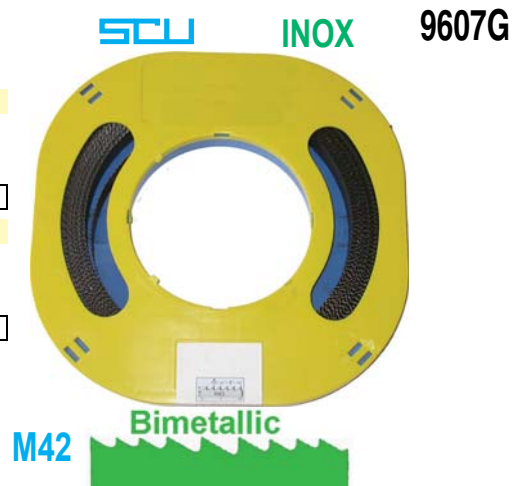
Type		10R	12P	12R	13L	13P	13R	20E
Width	mm	10	13	13	13	13	13	20
Thickness	mm	0,9	0,65	0,65	0,9	0,9	0,9	0,9
Teeth per inch	No	10/14	8/12	10/14	6/10	8/12	10/14	4/6
<b>9607G</b>	<b>Per meter</b>	<b>14,10</b>	<b>10,90</b>	<b>10,90</b>	<b>11,10</b>	<b>11,10</b>	<b>11,10</b>	<b>12,20</b>

Type		20F	20L	20P	20R	27B	27E	27F
Width	mm	20	20	20	20	27	27	27
Thickness	mm	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Teeth per inch	No	5/8	6/10	8/12	10/14	3/4	4/6	5/8
<b>9607G</b>	<b>Per meter</b>	<b>12,20</b>	<b>12,20</b>	<b>12,20</b>	<b>12,20</b>	<b>12,90</b>	<b>12,90</b>	<b>12,90</b>

Type		27L	27P	27R	34B	34E	34L
Width	mm	27	27	27	34	34	34
Thickness	mm	0,9	0,9	0,9	1,1	1,1	1,1
Teeth per inch	No	6/10	8/12	10/14	3/4	4/6	6/10
<b>9607G</b>	<b>Per meter</b>	<b>12,90</b>	<b>12,90</b>	<b>12,90</b>	<b>18,20</b>	<b>18,20</b>	<b>18,20</b>



**BI-METAL BAND SAW WELDED RINGS**

**Prod. SCU**

Quality Bi-M42. Corresponding to our Art. 9605 G (Standard tooling).



Art.		9612G	9615G	9615GE	9615GF	9615GL	9615GM	9615GN	9615GP	9615GQ	9615GR	9615GRA	9615GRB	9615GRC	9615GRE	9615GRF	9615GS
Overall length	mm	2450	2450	2450	2450	2450	2500	2500	2500	2500	2500	2550	2550	2550	2550	2550	2600
Thickness	mm	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Width	mm	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
Teeth	No	4	6	8	10	14	4	6	8	10	14	4	6	8	10	14	4
<b>Each</b>		<b>39,50</b>	<b>39,50</b>	<b>39,50</b>	<b>39,50</b>	<b>39,50</b>	<b>40,10</b>	<b>40,10</b>	<b>40,10</b>	<b>40,10</b>	<b>40,10</b>	<b>40,80</b>	<b>40,80</b>	<b>40,80</b>	<b>40,80</b>	<b>40,80</b>	<b>41,40</b>

Art.		9615GT	9615GV	9615GZ	9616GA	9616GB	9616GC	9616GD	9616GE	9616GF	9617GB	9617GC	9617GE	9617GF	9617GL	9618G	9621G
Overall length	mm	2600	2600	2600	2600	2700	2700	2700	2700	2750	2750	2750	2750	2750	2750	2825	2825
Thickness	mm	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Width	mm	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
Teeth	No	6	8	10	14	4	6	8	10	14	4	6	8	10	14	4	6
<b>Each</b>		<b>41,40</b>	<b>41,40</b>	<b>41,40</b>	<b>41,40</b>	<b>42,70</b>	<b>42,70</b>	<b>42,70</b>	<b>42,70</b>	<b>42,70</b>	<b>43,30</b>	<b>43,30</b>	<b>43,30</b>	<b>43,30</b>	<b>43,30</b>	<b>44,30</b>	<b>44,30</b>

Art.		9621GE	9621GF	9621GL	9622G	9623G	9623GE	9623GF	9623GL	9623GM	9623GN	9623GO	9623GP	9623GQ	9625GB	9625GC	9625GE
Overall length	mm	2825	2825	2825	2825	2845	2845	2845	2845	3010	3010	3010	3010	3010	3150	3150	3150
Thickness	mm	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Width	mm	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
Teeth	No	8	10	14	4	6	8	10	14	4	6	8	10	14	4	6	8
<b>Each</b>		<b>44,30</b>	<b>44,30</b>	<b>44,30</b>	<b>44,60</b>	<b>44,60</b>	<b>44,60</b>	<b>44,60</b>	<b>44,60</b>	<b>46,70</b>	<b>46,70</b>	<b>46,70</b>	<b>46,70</b>	<b>46,70</b>	<b>48,50</b>	<b>48,50</b>	<b>48,50</b>

Art.		9625GF	9625GL	9625GM	9625GN	9625GO	9625GP	9625GQ	9626G	9627G	9627GE	9627GF	9627GL
Overall length	mm	3150	3150	3180	3180	3180	3180	3180	3660	3660	3660	3660	
Thickness	mm	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	
Width	mm	27	27	27	27	27	27	27	27	27	27	27	
Teeth	No	10	14	4	6	8	10	14	4	6	8	10	
<b>Each</b>		<b>48,50</b>	<b>48,50</b>	<b>48,90</b>	<b>48,90</b>	<b>48,90</b>	<b>48,90</b>	<b>48,90</b>	<b>55,10</b>	<b>55,10</b>	<b>55,10</b>	<b>55,10</b>	

Other ring models and sizes available on request: minimum quantity 5 rings per type.

from 9629GA to 9660GR **SCU**

Quality Bi-M42. Correspondent to Art. 9607 G (Variable toothing).



M42 **Bimetallic** INOX

Art.	<b>9629GA</b>	<b>9629GB</b>	<b>9629GC</b>	<b>9629GE</b>	<b>9629GF</b>	<b>9629GH</b>	<b>9629GL</b>	<b>9631G</b>	<b>9634G</b>	<b>9641G</b>	<b>9641GL</b>	<b>9641GP</b>	<b>9641GR</b>	<b>9641GS</b>	<b>9641GT</b>	<b>9641GV</b>
Overall length	mm 1140	1325	1335	1435	1440	1735	1735	2450	2450	2450	2450	2450	2450	2500	2500	2500
Thickness	mm 0,65	0,65	0,65	0,65	0,65	0,65	0,90	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Width	mm 13	13	13	13	13	13	13	27	27	27	27	27	27	27	27	27
Teeth	No 8/12	8/12	8/12	8/12	8/12	8/12	8/12	3/4	4/6	5/8	6/10	8/12	10/14	3/4	4/6	5/8
Each	<b>18,10</b>	<b>20,10</b>	<b>20,20</b>	<b>21,30</b>	<b>21,40</b>	<b>24,60</b>	<b>24,90</b>	<b>39,50</b>	<b>39,50</b>	<b>39,50</b>	<b>39,50</b>	<b>39,50</b>	<b>39,50</b>	<b>40,10</b>	<b>40,10</b>	<b>40,10</b>
Art.	<b>9641GZ</b>	<b>9642GA</b>	<b>9642GB</b>	<b>9642GC</b>	<b>9642GD</b>	<b>9642GE</b>	<b>9642GF</b>	<b>9642GG</b>	<b>9642GH</b>	<b>9642GI</b>	<b>9642GL</b>	<b>9642GM</b>	<b>9642GN</b>	<b>9642GO</b>	<b>9642GP</b>	<b>9642GQ</b>
Overall length	mm 2500	2500	2500	2600	2600	2600	2600	2600	2600	2650	2650	2650	2650	2650	2650	2700
Thickness	mm 0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Width	mm 27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
Teeth	No 6/10	8/12	10/14	3/4	4/6	5/8	6/10	8/12	10/14	3/4	4/6	5/8	6/10	8/12	10/14	3/4
Each	<b>40,10</b>	<b>40,10</b>	<b>40,10</b>	<b>41,40</b>	<b>41,40</b>	<b>41,40</b>	<b>41,40</b>	<b>41,40</b>	<b>41,40</b>	<b>42,10</b>	<b>42,10</b>	<b>42,10</b>	<b>42,10</b>	<b>42,10</b>	<b>42,10</b>	<b>42,70</b>
Art.	<b>9642GR</b>	<b>9642GS</b>	<b>9642GT</b>	<b>9642GV</b>	<b>9642GZ</b>	<b>9643GB</b>	<b>9643GE</b>	<b>9643GF</b>	<b>9643GL</b>	<b>9643GP</b>	<b>9643GR</b>	<b>9645G</b>	<b>9645GE</b>	<b>9646G</b>	<b>9647G</b>	<b>9647GP</b>
Overall length	mm 2700	2700	2700	2700	2700	2750	2750	2750	2750	2750	2750	2825	2825	2825	2825	2825
Thickness	mm 0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Width	mm 27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
Teeth	No 4/6	5/8	6/10	8/12	10/14	3/4	4/6	5/8	6/10	8/12	10/14	3/4	4/6	5/8	6/10	8/12
Each	<b>42,70</b>	<b>42,70</b>	<b>42,70</b>	<b>42,70</b>	<b>42,70</b>	<b>43,30</b>	<b>43,30</b>	<b>43,30</b>	<b>43,30</b>	<b>43,30</b>	<b>43,30</b>	<b>44,30</b>	<b>44,30</b>	<b>44,30</b>	<b>44,30</b>	<b>44,30</b>
Art.	<b>9647GR</b>	<b>9648G</b>	<b>9648GE</b>	<b>9649G</b>	<b>9650G</b>	<b>9650GP</b>	<b>9650GR</b>	<b>9651GE</b>	<b>9651GF</b>	<b>9651GG</b>	<b>9651GH</b>	<b>9651GI</b>	<b>9651GL</b>	<b>9651GM</b>	<b>9651GN</b>	<b>9651GO</b>
Overall length	mm 2825	2845	2845	2845	2845	2845	2845	2945	2945	2945	2945	2945	2945	3010	3010	3010
Thickness	mm 0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Width	mm 27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
Teeth	No 10/14	3/4	4/6	5/8	6/10	8/12	10/14	3/4	4/6	5/8	6/10	8/12	10/14	3/4	4/6	5/8
Each	<b>44,30</b>	<b>44,60</b>	<b>44,60</b>	<b>44,60</b>	<b>44,60</b>	<b>44,60</b>	<b>44,60</b>	<b>45,90</b>	<b>45,90</b>	<b>45,90</b>	<b>45,90</b>	<b>45,90</b>	<b>45,90</b>	<b>46,70</b>	<b>46,70</b>	<b>46,70</b>
Art.	<b>9651GP</b>	<b>9651GQ</b>	<b>9651GR</b>	<b>9653GA</b>	<b>9653GB</b>	<b>9653GC</b>	<b>9653GE</b>	<b>9653GF</b>	<b>9653GH</b>	<b>9656GB</b>	<b>9656GE</b>	<b>9656GF</b>	<b>9656GL</b>	<b>9656GP</b>	<b>9656GR</b>	<b>9656GS</b>
Overall length	mm 3010	3010	3010	3100	3100	3100	3100	3100	3100	3150	3150	3150	3150	3150	3150	3180
Thickness	mm 0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Width	mm 27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
Teeth	No 6/10	8/12	10/14	3/4	4/6	5/8	6/10	8/12	10/14	3/4	4/6	5/8	6/10	8/12	10/14	3/4
Each	<b>46,70</b>	<b>46,70</b>	<b>46,70</b>	<b>47,80</b>	<b>47,80</b>	<b>47,80</b>	<b>47,80</b>	<b>47,80</b>	<b>47,80</b>	<b>48,50</b>	<b>48,50</b>	<b>48,50</b>	<b>48,50</b>	<b>48,50</b>	<b>48,50</b>	<b>48,90</b>
Art.	<b>9656GT</b>	<b>9656GV</b>	<b>9656GZ</b>	<b>9657GA</b>	<b>9657GB</b>	<b>9657GL</b>	<b>9657GM</b>	<b>9657GP</b>	<b>9657GR</b>	<b>9657GS</b>	<b>9657GT</b>	<b>9658G</b>	<b>9659G</b>	<b>9659GF</b>	<b>9660G</b>	<b>9660GP</b>
Overall length	mm 3180	3180	3180	3180	3180	3180	3580	3580	3580	3580	3580	3660	3660	3660	3660	3660
Thickness	mm 0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Width	mm 27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
Teeth	No 4/6	5/8	6/10	8/12	10/14	3/4	4/6	5/8	6/10	8/12	10/14	3/4	4/6	5/8	6/10	8/12
Each	<b>48,90</b>	<b>48,90</b>	<b>48,90</b>	<b>48,90</b>	<b>48,90</b>	<b>54,10</b>	<b>54,10</b>	<b>54,10</b>	<b>54,10</b>	<b>54,10</b>	<b>54,10</b>	<b>55,10</b>	<b>55,10</b>	<b>55,10</b>	<b>55,10</b>	<b>55,10</b>
Art.	<b>9660GR</b>															
Overall length	mm 3660															
Thickness	mm 0,9															
Width	mm 27															
Teeth	No 10/14															
Each	<b>55,10</b>															

Other ring models and sizes available on request: minimum quantity 5 rings per type.

**GROUND AND TREATED BARS**

9688



HSS-E

Prod. SCU  
HSS-E Cobalt 10%.  
SQUARE. Tolerance H 14 -DIN 4964B.

Dimensions	mm	<b>4x80</b>	<b>5x100</b>	<b>6x100</b>	<b>6x160</b>	<b>6x200</b>	<b>8x100</b>	<b>8x160</b>
<b>9688</b>	Each	<b>6,86</b>	<b>8,16</b>	<b>6,86</b>	<b>11,20</b>	<b>14,10</b>	<b>11,70</b>	<b>16,10</b>
Dimensions	mm	<b>8x200</b>	<b>10x100</b>	<b>10x125</b>	<b>10x160</b>	<b>10x200</b>	<b>12x100</b>	<b>12x125</b>
<b>9688</b>	Each	<b>18,50</b>	<b>16,10</b>	<b>17,70</b>	<b>22,70</b>	<b>27,90</b>	<b>19,90</b>	<b>24,10</b>
Dimensions	mm	<b>12x160</b>	<b>12x200</b>	<b>14x125</b>	<b>14x160</b>	<b>14x200</b>	<b>16x125</b>	<b>16x160</b>
<b>9688</b>	Each	<b>30,70</b>	<b>36,80</b>	<b>30,90</b>	<b>37,80</b>	<b>44,10</b>	<b>36,10</b>	<b>44,20</b>
Dimensions	mm	<b>16x200</b>	<b>18x200</b>	<b>20x160</b>	<b>20x200</b>	<b>25x160</b>	<b>25x200</b>	
<b>9688</b>	Each	<b>52,30</b>	<b>82,80</b>	<b>67,60</b>	<b>83,60</b>	<b>110,00</b>	<b>134,00</b>	

9689



HSS-E

Product description as Art. 9688  
RECTANGULAR. Tolerance h 13 – DIN 4964D.

Dimensions	mm	<b>4x8x100</b>	<b>4x10x100</b>	<b>4x10x160</b>	<b>4x16x200</b>	<b>4x20x160</b>	<b>4x20x200</b>
<b>9689</b>	Each	<b>9,74</b>	<b>9,74</b>	<b>17,50</b>	<b>29,30</b>	<b>26,50</b>	<b>32,50</b>
Dimensions	mm	<b>5x10x160</b>	<b>5x10x200</b>	<b>5x20x160</b>	<b>5x20x200</b>	<b>6x10x200</b>	<b>6x12x200</b>
<b>9689</b>	Each	<b>18,70</b>	<b>23,10</b>	<b>28,90</b>	<b>35,80</b>	<b>23,90</b>	<b>23,50</b>
Dimensions	mm	<b>6x16x200</b>	<b>6x20x200</b>	<b>8x12x200</b>	<b>8x20x200</b>	<b>8x25x200</b>	<b>10x16x200</b>
<b>9689</b>	Each	<b>37,80</b>	<b>38,80</b>	<b>27,30</b>	<b>55,70</b>	<b>56,90</b>	<b>43,80</b>
Dimensions	mm	<b>10x20x200</b>	<b>10x25x200</b>	<b>12x20x200</b>	<b>12x25x200</b>	<b>15x20x200</b>	<b>15x25x200</b>
<b>9689</b>	Each	<b>61,70</b>	<b>67,60</b>	<b>71,60</b>	<b>71,60</b>	<b>110,00</b>	<b>106,00</b>

Prices in EURO - VAT not included

Product description as Art. 9688

TRAPEZOIDAL. Tolerance h 12 – DIN 4964E.

Dimensions	mm	3x12x160	3x20x200	4x16x160	4x20x200	5x20x160
<b>9690</b>	Each	16,10	41,80	29,90	43,80	41,80

Dimensions	mm	5x20x200	5x25x200	6x25x200
<b>9690</b>	Each	51,70	93,10	87,50

Size mm 5x25x200 running out of stock.


**9690**

**HSS-E**

Product description as Art. 9688

ROUND. Tolerance h 8 – DIN 4964A.

Dimensions	mm	2x40	3x63	4x63	4x80	4x100	5x63	5x80
<b>9691</b>	Each	6,16	4,18	4,58	5,08	5,96	4,58	6,56

Dimensions	mm	5x100	6x63	6x80	6x100	6x160	6x200	8x63
<b>9691</b>	Each	6,56	5,96	6,56	7,56	11,40	14,60	7,16

Dimensions	mm	8x80	8x100	8x160	8x200	10x80	10x100	10x160
<b>9691</b>	Each	8,56	9,74	15,80	19,10	11,10	12,70	18,50

Dimensions	mm	10x200	12x125	12x160	12x200	14x125	14x160	14x200
<b>9691</b>	Each	23,50	21,10	25,70	30,90	25,90	33,80	43,80

Dimensions	mm	16x125	16x160	16x200	18x200	20x160	20x200
<b>9691</b>	Each	33,60	42,80	52,10	59,70	58,70	73,60


**9691**

**HSS-E**

### TURNING TOOL HOLDERS

**Orig. Hufnagel**

 Treated steel body. Heavy execution. Patented locking system.  
 HSS-E Cobalt 10% bars, square section, hardened and ground.  
 "Orkan-S" quality (W 9% - Co 10% - Mo 3.5).

Straight tool holder with bar.

Size K		6	8	12
Iron rest overall length	mm	125	165	240
Iron rest section	mm	18x12	25x17	35x25
Bar dimensions	mm	6x63	8x100	12x125
Height from base to cutting edge	mm	15	20	29
<b>9708G</b>	Each	<b>228,00</b>	<b>299,00</b>	<b>475,00</b>

Product running out of stock.


**9708G**


"Orkan-S" bars, hardness HRC 65-67. For Art. 9708 G.

Size K		6	8	10	12
Bar dimensions	mm	6x63	8x100	10x100	12x125
<b>9710G</b>	Each	<b>18,20</b>	<b>25,10</b>	<b>28,80</b>	<b>45,10</b>

Product running out of stock.


**9710G**

**HSS-E**

### CUTTING TOOL HOLDERS

**Orig. Hufnagel**

 Treated steel body.  
 Safe locking system.  
 HSS-E bars, trapezoidal section, hardened and ground.  
 "Orkan-S" quality (W 12% - Co 5% - Va 4%).

Tool holder with bar.

Size D		4
Bar dimensions	mm	160x18x5
Height from base to cutting edge	mm	27
Blades holder overall length	mm	160
Blades sections	mm	40x20
<b>9713G</b>	Each	<b>292,00</b>

Product running out of stock.


**9713G**


"Orkan-S" bars, hardness HRC 66. For Art. 9713 G.

Size D		2	3
Bar dimensions	mm	100x10x2,5	150x15x4
<b>9714G</b>	Each	<b>36,60</b>	<b>57,50</b>

Product running out of stock.


**9714G**

**HSS**

**TURNING OFF TOOL HOLDERS**
**9716G****Orig. Hufnagel**

Treated steel body.

Safe locking system.

HSS-E bars, trapezoidal section, hardened and ground.

"Orkan-S" quality (W 12% - Co 5% - Va 4%).

Tool holder with bar.

Size Da		1	2	3
Bar dimensions	mm	80x8x2	100x10x2,5	125x15x3,5
Height from base to cutting edge	mm	12	14	22
Blades holder overall length	mm	125	140	160
Blades sections	mm	17x12	22x15	30x17
<b>9716G</b>	<b>Each</b>	<b>147,00</b>	<b>161,00</b>	<b>244,00</b>

Product running out of stock.

**9717G****HSS**

"Orkan-S" bars, hardness HRC 66. For Art. 9716 G.

Size Da		1	2	4
Bar dimensions	mm	80x8x2	100x10x2,5	150x19x4,5
<b>9717G</b>	<b>Each</b>	<b>32,60</b>	<b>37,50</b>	<b>76,00</b>

Product running out of stock.

**TOOL HOLDERS AND BARS FOR INSIDE USE**
**9720G****Orig. Hufnagel**

Tool holder.

Treated steel, for bars Art. 9721 G to 9725 G.

Without bar.

Overall length	mm	<b>120</b>
For bars Gr.	BN	5-7-10-13-16
Section	mm	16x16
Cut height	mm	8
<b>9720G</b>	<b>Each</b>	<b>85,10</b>

Product running out of stock.

**9721G****HSS-E**

Bars for Art. 9720 G.

HSS-E Cobalt 10%, "Orkan-S" quality

(W 9% - Co 10% - Mo 3.5). Hardness HRC 65-67.

Particularly used on universal milling machines, revolver and automatic lathes.

Once the head is worn out, they may be used as normal round bars.

Bars for roughing

Size BN		5	10	16
Overall length	mm	60	65	100
Drive length	mm	35	45	78
Drive Ø	mm	8	8	10
For bore by Ø min	mm	5	10	16
<b>9721G</b>	<b>Each</b>	<b>48,70</b>	<b>56,60</b>	<b>93,50</b>

Product running out of stock.

**9722G****HSS-E**

Product description as Art. 9721G

Bars for finishing.

Size BN		13	16
Overall length	mm	75	100
Drive length	mm	52	78
Drive Ø	mm	10	10
For bore by Ø min	mm	13	16
<b>9722G</b>	<b>Each</b>	<b>68,90</b>	<b>93,50</b>

Product running out of stock.

**9724G****60° HSS-E**

Product description as Art. 9721G

Bars for 60° Metric thread.

Size BN		13	16
Overall length	mm	75	100
Drive length	mm	42	78
Drive Ø	mm	10	10
For bore by Ø min	mm	13	16
<b>9724G</b>	<b>Each</b>	<b>73,30</b>	<b>98,20</b>

Product running out of stock.

Product description as Art. 9721G

Bars for slots.

Size BN		7	13	16
Overall length	mm	65	75	100
Drive length	mm	35	42	78
Drive Ø	mm	8	10	10
For bore by Ø min	mm	7	13	16
Cutting edge thickness	mm	1,5	2,5	3
<b>9725G</b>	<b>Each</b>	<b>52,50</b>	<b>73,30</b>	<b>98,20</b>

Product running out of stock.


**9725G**

**HSS-E**
**TOOL HOLDERS FOR INSIDE USE**
**Orig. Hufnagel**

For internal turning and threading.

Treated steel body.

Ground hardened shank.

Ground and hardened blades, HSS-E Cobalt 10%.

"Orkan-S" quality (W 9% - Co 10% - Mo 3.5). Hardness HRC 65-67.

Also HARD METAL blades, universal quality.

Tool holder without shank and without blades.

Size PB		12	15	20	28
Iron rest overall length	mm	110	130	150	180
Iron rest section	mm	24x20	31x28	37x32	53x50
Stem length and Ø	mm	200x12	250x15	300x20	500x28
For bore by Ø min	mm	16	22	29	38
Blades length	mm	15	20	26	36
Height from base to cutting edge	mm	13,5/15,5	16,5/20,5	21/24	30/33
<b>9728G</b>	<b>Each</b>	<b>78,40</b>	<b>81,50</b>	<b>132,00</b>	<b>204,00</b>

Product running out of stock.


**9728G**


Product description as Art. 9728G

Straight shank without blades for Art. 9728 G.

Size PB		12	20	28
Iron rest overall length	mm	110	150	180
Iron rest section	mm	24x20	37x32	53x50
Stem length and Ø	mm	200x12	300x20	500x28
For bore by Ø min	mm	16	29	38
Blades length	mm	15	26	36
Height from base to cutting edge	mm	13,5/15,5	21/24	30/33
<b>9729G</b>	<b>Each</b>	<b>68,70</b>	<b>123,00</b>	<b>194,00</b>

Product running out of stock.


**9729G**


Product description as Art. 9728G

Oblique shank without blades for Art. 9728 G.

Size PB		15	28
Iron rest overall length	mm	130	180
Iron rest section	mm	31x28	53x50
Stem length and Ø	mm	250x15	500x28
For bore by Ø min	mm	22	38
Blades length	mm	20	36
Height from base to cutting edge	mm	16,5/20,5	30/33
<b>9730G</b>	<b>Each</b>	<b>82,90</b>	<b>194,00</b>

Product running out of stock.


**9730G**


Product description as Art. 9728G

HSS blades for turning for Art. 9729 G and 9730 G.

Size PB		12	15	20	28
Blades length	mm	15	20	26	36
<b>9731G</b>	<b>Each</b>	<b>15,80</b>	<b>18,30</b>	<b>27,80</b>	<b>41,80</b>

Product running out of stock.


**9731G**

**HSS-E**

Product description as Art. 9728G

HSS-E blades for 55° Whitworth thread, for Art. 9729 G and 9730 G.

Size PB		12	15	20	28
Blades length	mm	15	20	26	36
<b>9732G</b>	<b>Each</b>	<b>15,80</b>	<b>18,30</b>	<b>27,80</b>	<b>41,80</b>

Product running out of stock.


**9732G**

**55°**
**HSS-E**

Product description as Art. 9728G

HSS-E blades for 60° Metric thread, for Art. 9729 G and 9730 G.

Size PB		12	15	20	28
Blades length	mm	15	20	26	36
<b>9733G</b>	<b>Each</b>	<b>15,80</b>	<b>18,30</b>	<b>27,80</b>	<b>41,80</b>

Product running out of stock.


**9733G**

**60°**
**HSS-E**

**9734G****HARTMETALL**

Product description as Art. 9728G

Solid carbide blades for turning, for Art. 9729 G and 9730 G.

Size PB		15	20	28
Blades length	mm	20	26	36
<b>9734G</b>	<b>Each</b>	<b>45,60</b>	<b>67,30</b>	<b>124,00</b>

Product running out of stock.

**9735G****55°****HARTMETALL**

Product description as Art. 9728G

Solid carbide blades for 55° Whitworth thread, for Art. 9729 G and 9730 G.

Size PB		12	15	20	28
Blades length	mm	15	20	26	36
<b>9735G</b>	<b>Each</b>	<b>36,80</b>	<b>45,60</b>	<b>67,30</b>	<b>124,00</b>

Product running out of stock.

**9736G****60°****HARTMETALL**

Product description as Art. 9728G

Solid carbide blades for 60° Metric thread, for Art. 9729 G and 9730 G.

Size PB		12	15	20	28
Blades length	mm	15	20	26	36
<b>9736G</b>	<b>Each</b>	<b>36,80</b>	<b>45,60</b>	<b>67,30</b>	<b>124,00</b>

Product running out of stock.

**9748G****SCU****Prod. SCU**

For internal turning and threading.

Treated steel body.

Ground and hardened shank.

Ground and hardened blades, HSS-E Cobalt 10%.

Hardness HRC 62-64.

Tool holder without shank and without blades.

Size		10	13	20	28	32
Iron rest overall length	mm	110	150	180	210	210
Iron rest section	mm	20x20	23x28	30x40	42x47	47x55
Height from base to cutting edge	mm	10	14	20	23,5	27,5
<b>9748G</b>	<b>Each</b>	<b>46,90</b>	<b>62,10</b>	<b>114,00</b>	<b>149,00</b>	<b>185,00</b>

**9749G****SCU**

Product description as Art. 9748G

Shanks for tool holder Art. 9748 G.

Size		10	13	20	28	32
Length x shaft Ø	mm	165x10	245x13	325x20	385x28	450x32
<b>9749G</b>	<b>Each</b>	<b>21,10</b>	<b>27,30</b>	<b>37,10</b>	<b>63,10</b>	<b>74,30</b>

**9750G****SCU****HSS-E**

Product description as Art. 9748G

HSS blades for roughing for shanks Art. 9749 G.

Size		10	13	20	28	32
For bores by Ø min	mm	14	22	30	44	54
<b>9750G</b>	<b>Each</b>	<b>41,50</b>	<b>59,50</b>	<b>96,50</b>	<b>256,00</b>	<b>268,00</b>

**9751G****SCU****HSS-E**

Product description as Art. 9748G

HSS-E blades for finishing for shanks Art. 9749 G.

Size		10	13	20	28	32
For bores by Ø min	mm	14	22	30	44	54
<b>9751G</b>	<b>Each</b>	<b>41,50</b>	<b>59,50</b>	<b>96,50</b>	<b>256,00</b>	<b>268,00</b>

**9752G****SCU****55°****HSS-E**

Product description as Art. 9748G

HSS-E blades for 55° Whitworth thread for shanks Art. 9749 G.

Size		10	13	20	28	32
For bores by Ø min	mm	14	22	30	44	54
<b>9752G</b>	<b>Each</b>	<b>41,50</b>	<b>59,50</b>	<b>96,50</b>	<b>256,00</b>	<b>268,00</b>

**9753G****SCU****60°****HSS-E**

Product description as Art. 9748G

HSS-E blades for 60° metric thread for shanks Art. 9749 G.

Size		10	13	20	28	32
For bores by Ø min	mm	14	22	30	44	54
<b>9753G</b>	<b>Each</b>	<b>41,50</b>	<b>59,50</b>	<b>96,50</b>	<b>256,00</b>	<b>268,00</b>

**9754G****SCU****HSS-E**

Product description as Art. 9748G

HSS-E blades for slots for shanks Art. 9749 G.

Size		10	13	20	28	32
For bores by Ø min	mm	14	22	30	44	54
Blades thickness for grooves	mm	3	4	6	9	10
<b>9754G</b>	<b>Each</b>	<b>41,50</b>	<b>59,50</b>	<b>96,50</b>	<b>256,00</b>	<b>268,00</b>

**TAPPING HOLDERS**
**Prod. SCU**

The adjustable head with shock absorber effect avoids cutting edge breaking during threading process.

Possibility to adjust (right/left-hand) the threading angle. Uniform threading over all HSS blade length.

Tool holder only without blade.

Size		1	2	3
Drive section	mm	22x10	29x13	32x16
Overall length	mm	140	170	220
<b>9758G</b>	<b>Each</b>	<b>227,00</b>	<b>263,00</b>	<b>319,00</b>


**9758G**


Product description as Art. 9758G

Blades for 55° Whitworth threads, for Art. 9758 G.

Size		1	2	3
<b>9759G</b>	<b>Each</b>	<b>71,60</b>	<b>83,80</b>	<b>104,00</b>


**55°**

**HSS**
**9759G**

Product description as Art. 9758G

Blades for 60° Metric threads, for Art. 9758 G.

Size		1	2	3
<b>9760G</b>	<b>Each</b>	<b>71,60</b>	<b>83,80</b>	<b>104,00</b>


**60°**

**HSS**
**9760G**
**TURNING TOOL HOLDERS**
**Orig. Hufnagel**

Treated steel body. Patented locking system.

HSS-E Cobalt bars, ground.

Easy and rapid bar sharpening.

"Puma" quality (W 18% Co 10%).

"Orkan-200" quality (W 9%- Co 12% - Va 4% - Mo 3.5).

Tool holder without bar.

Size C		2	3
Iron holders length	mm	200	230
Drive length	mm	135	155
Drive section	mm	30x20	35x24
Bar dimensions	mm	90x16x8	95x18x10
<b>9762G</b>	<b>Each</b>	<b>175,00</b>	<b>216,00</b>


**9762G**


Product running out of stock.

Product description as Art. 9762G

"Puma" bars. Hardness HRC 66, for Art. 9762 G.

Size C		2	3
Bar dimensions	mm	90x16x8	95x18x10
<b>9763G</b>	<b>Each</b>	<b>83,60</b>	<b>112,00</b>


**HSS-E**
**9763G**

Product running out of stock.

Product description as Art. 9762G

"Orkan-200" bars. Hardness HRC 68, for Art. 9762 G.

Size C		2	3
Bar dimensions	mm	90x16x8	95x18x10
<b>9764G</b>	<b>Each</b>	<b>97,40</b>	<b>132,00</b>

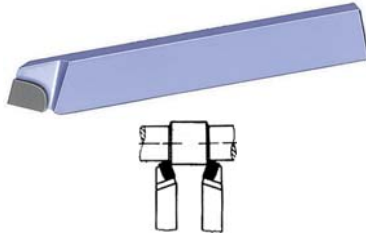

**HSS-E**
**9764G**

Product running out of stock.

## TURNING TOOLS

9770G  
9770GE  
9771G

SCU



HARTMETALL

## Prod. SCU

Treated steel shank. Carbide tool bit, abrasion and shock-proof. Tough welding, irremovable.

DIN 4971 (ISO 1 - UNI 4102)

Right-hand, as shown in the picture. P 30 quality, for steel.

Size	q.	8	10	12	16	20	25	32
Dimensions	mm	8x90	10x90	12x100	16x110	20x125	25x140	32x170
<b>9770G</b>	<b>Each</b>	<b>5,76</b>	<b>5,00</b>	<b>5,82</b>	<b>6,76</b>	<b>8,70</b>	<b>14,10</b>	<b>21,10</b>

Product description as Art. 9770G

DIN 4971 (ISO 1 - UNI 4102)

Right-hand, as shown in the picture. K 10 quality, for cast iron and non-ferrous steel.

Size	q.	8	10	12	16	20	25	32
Dimensions	mm	8x90	10x90	12x100	16x110	20x125	25x140	32x170
<b>9770GE</b>	<b>Each</b>	<b>5,76</b>	<b>5,00</b>	<b>5,82</b>	<b>6,76</b>	<b>8,70</b>	<b>14,10</b>	<b>21,10</b>

Product description as Art. 9770G

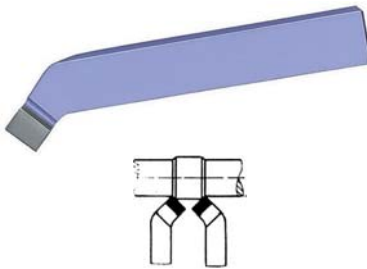
DIN 4971 (ISO 1 - UNI 4102)

Left-hand, opposite to the one shown in the picture. P 30 quality, for steel.

Size	q.	10	12	16	20	25	32
Dimensions	mm	10x90	12x100	16x110	20x125	25x140	32x170
<b>9771G</b>	<b>Each</b>	<b>5,00</b>	<b>5,82</b>	<b>6,76</b>	<b>8,70</b>	<b>14,10</b>	<b>21,10</b>

9772G  
9772GE  
9773G

SCU



HARTMETALL

Product description as Art. 9770G

DIN 4972 (ISO 2 - UNI 4103)

Right-hand, as shown in the picture. P 30 quality, for steel.

Size	q.	8	10	12	16	20	25	32
Dimensions	mm	8x80	10x90	12x100	16x110	20x125	25x140	32x170
<b>9772G</b>	<b>Each</b>	<b>5,44</b>	<b>5,28</b>	<b>6,10</b>	<b>7,04</b>	<b>8,98</b>	<b>14,20</b>	<b>21,20</b>

Product description as Art. 9770G

DIN 4972 (ISO 2 - UNI 4103)

Right-hand, as shown in the picture. K 10 quality, for cast iron and non-ferrous steel.

Size	q.	8	10	12	16	20	25	32
Dimensions	mm	8x80	10x90	12x100	16x110	20x125	25x140	32x170
<b>9772GE</b>	<b>Each</b>	<b>5,44</b>	<b>5,28</b>	<b>6,10</b>	<b>7,04</b>	<b>8,98</b>	<b>14,20</b>	<b>21,20</b>

Product description as Art. 9770G

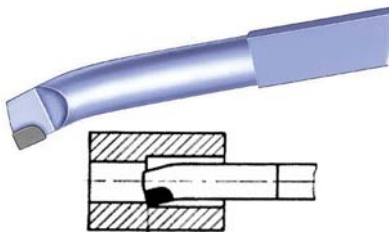
DIN 4972 (ISO 2 - UNI 4103)

Left-hand, opposite to the one shown in the picture. P 30 quality, for steel.

Size	q.	8	10	12	16	20	25	32
Dimensions	mm	8x80	10x90	12x100	16x110	20x125	25x140	32x170
<b>9773G</b>	<b>Each</b>	<b>5,44</b>	<b>5,28</b>	<b>6,10</b>	<b>7,04</b>	<b>8,98</b>	<b>14,20</b>	<b>21,20</b>

9774G  
9774GE

SCU



HARTMETALL

Product description as Art. 9770G

DIN 4973 (ISO 8 - UNI 4110)

P 30 quality, for steel.

Size	q.	8	10	12	16	20	25	32
Overall length	mm	125	150	180	210	250	300	355
<b>9774G</b>	<b>Each</b>	<b>5,18</b>	<b>5,74</b>	<b>7,12</b>	<b>8,70</b>	<b>10,60</b>	<b>16,30</b>	<b>24,40</b>

Product description as Art. 9770G

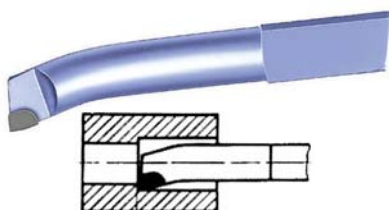
DIN 4973 (ISO 8 - UNI 4110)

K 10 quality, for cast iron and non-ferrous steel.

Size	q.	8	10	12	16	20	25	32
Overall length	mm	125	150	180	210	250	300	355
<b>9774GE</b>	<b>Each</b>	<b>5,18</b>	<b>5,74</b>	<b>7,12</b>	<b>8,70</b>	<b>10,60</b>	<b>16,30</b>	<b>24,40</b>

9775G  
9775GE

SCU



HARTMETALL

Product description as Art. 9770G

DIN 4974 (ISO 9 - UNI 4111)

P 30 quality, for steel.

Size	q.	8	10	12	16	20	25	32
Overall length	mm	125	150	180	210	250	300	355
<b>9775G</b>	<b>Each</b>	<b>5,18</b>	<b>5,46</b>	<b>7,12</b>	<b>8,70</b>	<b>10,60</b>	<b>16,30</b>	<b>24,40</b>

Product description as Art. 9770G

DIN 4974 (ISO 9 - UNI 4111)

K 10 quality, for cast iron and non-ferrous steel.

Size	q.	8	10	12	16	20	25	32
Overall length	mm	125	150	180	210	250	300	355
<b>9775GE</b>	<b>Each</b>	<b>5,18</b>	<b>5,46</b>	<b>7,12</b>	<b>8,70</b>	<b>10,60</b>	<b>16,30</b>	<b>24,40</b>



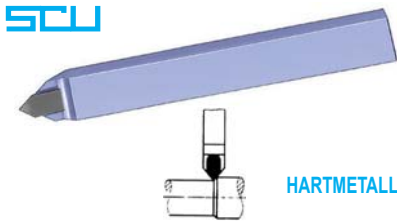
Product description as Art. 9770G

DIN 4975 (ISO 10 - UNI 4105)

P 30 quality, for steel.

Size	h.	8	10	12	16	16A
Dimensions	mm	8x8x80	10x10x100	12x12x110	16x10x110	16x16x110
<b>9776G</b>	<b>Each</b>	<b>6,08</b>	<b>5,46</b>	<b>6,76</b>	<b>6,02</b>	<b>8,24</b>

Size	h.	20	20A	25	25A
Dimensions	mm	20x12x125	20x20x125	25x16x140	25x25x140
<b>9776G</b>	<b>Each</b>	<b>6,56</b>	<b>11,10</b>	<b>8,88</b>	<b>18,70</b>

**9776G**


HARTMETALL

Product description as Art. 9770G

DIN 4976 (ISO 4 - UNI 4107)

P 30 quality, for steel.

Size	q.	8	10	12	16	20	25
Dimensions	mm	8x80	10x90	12x100	16x110	20x125	25x140
<b>9777G</b>	<b>Each</b>	<b>5,76</b>	<b>5,56</b>	<b>7,22</b>	<b>8,60</b>	<b>11,70</b>	<b>20,30</b>

Product description as Art. 9770G

DIN 4976 (ISO 4 - UNI 4107)

K 10 quality, for cast iron and non-ferrous steel.

Size	q.	8	10	12	16	20	25
Dimensions	mm	8x80	10x90	12x100	16x110	20x125	25x140
<b>9777GE</b>	<b>Each</b>	<b>5,76</b>	<b>5,56</b>	<b>7,22</b>	<b>8,60</b>	<b>11,70</b>	<b>20,30</b>

**9777G**  
**9777GE**


HARTMETALL

Product description as Art. 9770G

DIN 4977 (ISO 5 - UNI 4108)

Right-hand, as shown in the picture. P 30 quality, for steel.

Size	q.	8	10	12	16	20	25
Dimensions	mm	8x80	10x90	12x100	16x110	20x125	25x140
<b>9778G</b>	<b>Each</b>	<b>5,44</b>	<b>5,74</b>	<b>6,56</b>	<b>7,22</b>	<b>9,24</b>	<b>14,30</b>

Product description as Art. 9770G

DIN 4977 (ISO 5 - UNI 4108)

Right-hand, as shown in the picture. K 10 quality, for cast iron and non-ferrous steel.

Size	q.	8	10	12	16	20	25
Dimensions	mm	8x80	10x90	12x100	16x110	20x125	25x140
<b>9778GE</b>	<b>Each</b>	<b>5,44</b>	<b>5,74</b>	<b>6,56</b>	<b>7,22</b>	<b>9,24</b>	<b>14,30</b>

**9778G**  
**9778GE**  
**9779G**


HARTMETALL

Product description as Art. 9770G

DIN 4977 (ISO 5 - UNI 4108)

Left-hand, opposite to the one shown in the picture. P 30 quality, for steel.

Size	q.	8	10	12	16	20	25
Dimensions	mm	8x80	10x90	12x100	16x110	20x125	25x140
<b>9779G</b>	<b>Each</b>	<b>5,44</b>	<b>5,74</b>	<b>6,56</b>	<b>7,22</b>	<b>9,24</b>	<b>14,30</b>

Product description as Art. 9770G

DIN 4978 (ISO 3 - UNI 4106)

Right-hand, as shown in the picture. P 30 quality, for steel.

Size	h.	10	12	16	20	25
Dimensions	mm	10x10x90	12x12x100	16x10x110	20x12x125	25x16x130
<b>9780G</b>	<b>Each</b>	<b>6,30</b>	<b>7,40</b>	<b>6,38</b>	<b>7,22</b>	<b>8,88</b>

Product description as Art. 9770G

DIN 4978 (ISO 3 - UNI 4106)

Right-hand, as shown in the picture. K 10 quality, for cast iron and non-ferrous steel.

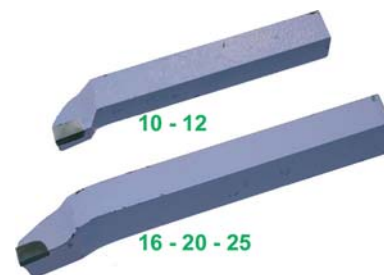
Size	h.	10	12	16	20	25
Dimensions	mm	10x10x90	12x12x100	16x10x110	20x12x125	25x16x130
<b>9780GE</b>	<b>Each</b>	<b>6,30</b>	<b>7,40</b>	<b>6,38</b>	<b>7,22</b>	<b>8,88</b>

Product description as Art. 9770G

DIN 4978 (ISO 3 - UNI 4106)

Left-hand, opposite to the one shown in the picture. P 30 quality, for steel.

Size	h.	10	12	16	20	25
Dimensions	mm	10x10x90	12x12x100	16x10x110	20x12x125	25x16x130
<b>9781G</b>	<b>Each</b>	<b>6,30</b>	<b>7,40</b>	<b>6,38</b>	<b>7,22</b>	<b>8,88</b>

**9780G**  
**9780GE**  
**9781G**


HARTMETALL

**9782G**  
**9782GE**  
**9783G**

**SCU**



**HARTMETALL**

Product description as Art. 9770G  
DIN 4980 ( ISO 6 - UNI 4104)  
Right-hand,as shown in the picture. P 30 quality, for steel.

Size	q.	8	10	12	16	20	25	32
Dimensions	mm	8x80	10x90	12x100	16x110	20x125	25x140	32x170
<b>9782G</b>	<b>Each</b>	<b>5,44</b>	<b>5,08</b>	<b>5,82</b>	<b>7,12</b>	<b>8,88</b>	<b>13,50</b>	<b>20,60</b>

Product description as Art. 9770G  
DIN 4980 ( ISO 6 - UNI 4104)  
Right-hand,as shown in the picture. K 10 quality, for cast iron and non-ferrous steel.

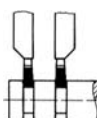
Size	q.	8	10	12	16	20	25	32
Dimensions	mm	8x80	10x90	12x100	16x110	20x125	25x140	32x170
<b>9782GE</b>	<b>Each</b>	<b>5,44</b>	<b>5,08</b>	<b>5,82</b>	<b>7,12</b>	<b>8,88</b>	<b>13,50</b>	<b>20,60</b>

Product description as Art. 9770G  
DIN 4980 (ISO 6 - UNI 4104)  
Left-hand, opposite to the one shown in the picture. P 30 quality, for steel.

Size	q.	8	10	12	16	20	25	32
Dimensions	mm	8x80	10x90	12x100	16x110	20x125	25x140	32x170
<b>9783G</b>	<b>Each</b>	<b>5,44</b>	<b>5,08</b>	<b>5,82</b>	<b>7,12</b>	<b>8,88</b>	<b>13,50</b>	<b>20,60</b>

**9784G**  
**9784GE**  
**9785G**

**SCU**



**HARTMETALL**

Product description as Art. 9770G  
DIN 4981 (ISO 7 - UNI 4109)  
Right-hand,as shown in the picture. P 30 quality, for steel.

Size	h.	10	12	16	20	25
Dimensions	mm	10x6x90	12x8x100	16x10x110	20x12x125	25x16x140
Cutting width	mm	3	3	4	5	6
<b>9784G</b>	<b>Each</b>	<b>7,36</b>	<b>5,28</b>	<b>5,74</b>	<b>6,94</b>	<b>9,90</b>

Product description as Art. 9770G  
DIN 4981 (ISO 7 - UNI 4109)  
Right-hand,as shown in the picture. K 10 quality, for cast iron and non-ferrous steel.

Size	h.	10	12	16	20	25
Dimensions	mm	10x6x90	12x8x100	16x10x110	20x12x125	25x16x140
Cutting width	mm	3	3	4	5	6
<b>9784GE</b>	<b>Each</b>	<b>7,36</b>	<b>5,28</b>	<b>5,74</b>	<b>6,94</b>	<b>9,90</b>

Product description as Art. 9770G  
DIN 4981 (ISO 7 - UNI 4109)  
Left-hand, opposite to the one shown in the picture. P 30 quality, for steel.

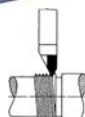
Size	h.	10	12	16	20	25
Dimensions	mm	10x6x90	12x8x100	16x10x110	20x12x125	25x16x140
Cutting width	mm	3	3	4	5	6
<b>9785G</b>	<b>Each</b>	<b>7,36</b>	<b>5,28</b>	<b>5,74</b>	<b>6,94</b>	<b>9,90</b>

**9786G**

**SCU**



**60°**



**HARTMETALL**

Product description as Art. 9770G  
DIN 282 – For 60° external threading.  
External right-hand use. P 30 quality, for steel.

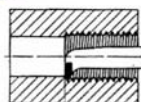
Size	q.	8	10	12	16	20	25
Dimensions	mm	8x80	10x90	12x100	16x115	20x125	25x140
<b>9786G</b>	<b>Each</b>	<b>8,00</b>	<b>8,00</b>	<b>7,64</b>	<b>9,30</b>	<b>12,30</b>	<b>18,60</b>

**9787G**

**SCU**



**60°**



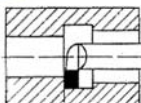
**HARTMETALL**

Product description as Art. 9770G  
DIN 283 – For 60° internal threading.  
Internal right-hand use. P 30 quality, for steel.

Size	q.	8	10	12	16	20	25
Dimensions	mm	8x120	10x140	12x160	16x180	20x210	25x250
Min. bore Ø	mm	18	20	25	33	40	50
<b>9787G</b>	<b>Each</b>	<b>9,60</b>	<b>8,96</b>	<b>11,20</b>	<b>13,60</b>	<b>17,30</b>	<b>24,10</b>

**9788G**

**SCU**



**HARTMETALL**

Product description as Art. 9770G  
DIN 263 - For making internal rebates  
Internal right-hand use. P 30 quality, for steel.

Size	q.	8	10	12	16	20	25
Dimensions	mm	8x120	10x140	12x160	16x180	20x210	25x250
Min. bore Ø	mm	20	25	30	40	50	60
Throat width	mm	3,3	3,6	4	5	6	8
<b>9788G</b>	<b>Each</b>	<b>8,96</b>	<b>11,80</b>	<b>12,60</b>	<b>14,10</b>	<b>17,30</b>	<b>24,60</b>

**TURNING TOOL HOLDERS**
**Prod. SCU**

Set of No. 9 turning tools, carbide tool bit, right-hand, P 30 quality, for steel.

Comprises:

1 item per type Art. 9770 G 10 - 9772 G 10 - 9774 G 10 - 9775 G 10 - 9776 G 10 - 9777 G 10 - 9780 G 10 - 9782 G 10 - 9784 G 10.

In cardboard box.

**9789G 10** Each **54,30**
 HARTMETALL

**9789G 10**


Product description as Art. 9789G 10

Comprises:

1 item per type Art. 9770 G 12 - 9772 G 12 - 9774 G 12 - 9775 G 12 - 9776 G 12 - 9777 G 12 - 9780 G 12 - 9782 G 12 - 9784 G 12.

In cardboard box.

**9789G 12** Each **61,70**
 HARTMETALL

**9789G 12**


Product description as Art. 9789G 10

Comprises:

1 item per type Art. 9770 G 16 - 9772 G 16 - 9774 G 16 - 9775 G 16 - 9776 G 16 - 9777 G 16 - 9780 G 16 - 9782 G 16 - 9784 G 16.

In cardboard box.

**9789G 16** Each **68,12**
 HARTMETALL

**9789G 16**

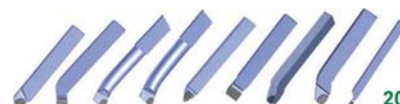

Product description as Art. 9789G 10

Comprises:

1 item per type Art. 9770 G 20 - 9772 G 20 - 9774 G 20 - 9775 G 20 - 9776 G 20 - 9777 G 20 - 9780 G 20 - 9782 G 20 - 9784 G 20.

In plastic case.

**9789G 20** Each **88,88**
 HARTMETALL

**9789G 20**


Product description as Art. 9789G 10

Comprises:

1 item per type Art. 9770 G 25 - 9772 G 25 - 9774 G 25 - 9775 G 25 - 9776 G 25 - 9777 G 25 - 9780 G 25 - 9782 G 25 - 9784 G 25.

In plastic case.

**9789G 25** Each **131,06**
 HARTMETALL

**9789G 25**

**TOOL BIT HOLDERS, MECHANICAL FIXING**
**Prod. SCU**

Made from treated steel, pin fixing system, suitable for turning and copying.

Excellent tool bit fixing, steady housing and preservation of chip breaker position. Bit holder only, without bits.

Right-hand, external use.

Square stem side	mm	20	25
Cutting angle	degrees	90	90
Overall length	mm	125	150
Head width and length	mm	25x22	32x22
<b>9800</b>	<b>Each</b>	<b>131,00</b>	<b>148,00</b>

For tool bits see Art. 9820 – 9822 – 9824.

Spare support plate (for size 20 and 25mm), for Art.9800.

**O9800A** Each **14,30**

Spare plate pin (for size 20 and 25mm), for Art. 9800.

**O9800B** Each **11,70**

**9800**


Product description as Art. 9800

Right-hand, external use.

Square stem side	mm	20	25
Cutting angle	degrees	90	90
Overall length	mm	125	150
Head width and length	mm	25x22	32x22
<b>9802</b>	<b>Each</b>	<b>131,00</b>	<b>148,00</b>

For tool bits see Art. 9820 – 9822 – 9824.

Spare support plate (for size 20 and 25mm), for Art.9802.

**O9802A** Each **14,30**

Spare plate pin (for size 20 and 25mm), for Art. 9802.

**O9802B** Each **11,70**

**9802**


**9804****SCU**

Product description as Art. 9800

Right-hand, external use.

Square stem side	mm	<b>20</b>	<b>25</b>
Cutting angle	degrees	75	75
Overall length	mm	125	150
Head width and length	mm	17x28	22x28
<b>9804</b>	<b>Each</b>	<b>131,00</b>	<b>148,00</b>

For tool bits see Art. 9820 – 9822 – 9824.

Spare support plate (for size 20 and 25mm), for Art.9804.

<b>O9804A</b>	<b>Each</b>	<b>14,30</b>
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Spare plate pin (for size 20 and 25mm), for Art. 9804.

<b>O9804B</b>	<b>Each</b>	<b>11,70</b>
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**9806****SCU**

Product description as Art. 9800

Right-hand, external use.

Square stem side	mm	<b>20</b>	<b>25</b>
Cutting angle	degrees	45	45
Overall length	mm	125	150
Head width and length	mm	22x25	28x32
<b>9806</b>	<b>Each</b>	<b>131,00</b>	<b>148,00</b>

For tool bits see Art. 9828 – 9830.

Spare support plate (for size 20 and 25mm), for Art.9806.

<b>O9806A</b>	<b>Each</b>	<b>19,00</b>
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Spare plate pin (for size 20 and 25mm), for Art. 9806.

<b>O9806B</b>	<b>Each</b>	<b>10,10</b>
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**9808****SCU**

Product description as Art. 9800

Right-hand, external use.

Square stem side	mm	<b>20</b>	<b>25</b>
Cutting angle	degrees	95	95
Overall length	mm	125	150
<b>9808</b>	<b>Each</b>	<b>63,30</b>	<b>71,60</b>

For plates see Art. 9832.

Brackets and spare screws can be supplied on request.

**9809****SCU**

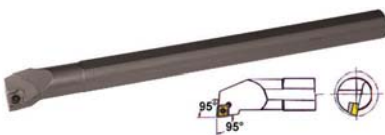
Steel, threaded screw fastening suitable for screw threads. Arms do not include padding.

Right-hand, external use. ISO THREAD.

Square stem side	mm	<b>20</b>	<b>25</b>
Pitch	mm	1,5	1,5
Overall length	mm	125	150
<b>9809</b>	<b>Each</b>	<b>83,70</b>	<b>101,00</b>

For plates see Art. 9833 L.

Underplates and spare screws can be supplied on request.

**9809E****SCU**

Steel, threaded screw fastening suitable for rotating and copying. Arms do not include padding.

Right-hand, internal use.

Flat/round stem Ø	mm	<b>8</b>	<b>10</b>	<b>12</b>	<b>16</b>
Cutting angle	degrees	95	95	95	95
Overall length	mm	125	140	160	180
Min. bore Ø	mm	11	15	17	22
<b>9809E</b>	<b>Each</b>	<b>72,60</b>	<b>72,60</b>	<b>72,60</b>	<b>81,30</b>

For plates see Art. 9833 P.

Spare screws can be supplied on request.

**9809F****SCU**

Assortment of 8 mechanical tool attachments.

Comprises:

1 pcs. per type Art. 9809 E 8 - 10 - 12 - 16

3 pcs. Art. 9833 P 8

1 pcs. Art. 9833 P 16

In cardboard box.

<b>9809F</b>	<b>Each</b>	<b>336,14</b>
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**13**

Made from treated steel. Disk fixing system with threaded screw, suitable for turning and copying.  
 Bit holder only, without bits.

Right-hand, internal use.

Flat/round stem Ø	mm	<b>20</b>	<b>25</b>
Cutting angle	degrees	92	92
Overall length	mm	250	300
Head width and length	mm	13x35	17x40
Min. bore Ø	mm	27	34

<b>9810</b>	Each	<b>214,00</b>	<b>256,00</b>
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For tool bits see Art. 9834 - 9836 - 9838.  
 Subplates and spare screws can be supplied on request.

**SCU**

**9810**



Steel, threaded screw fastening suitable for screw threads. Arms do not include padding.

Right-hand, internal use. ISO THREAD.

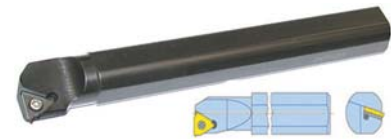
Flat/round stem Ø	mm	<b>20</b>	<b>25</b>
Pitch	mm	1,5	1,5
Overall length	mm	170	300
Min. bore Ø	mm	24	30

<b>9812</b>	Each	<b>92,10</b>	<b>107,00</b>
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For plates see Art. 9840.  
 Underplates and spare screws can be supplied on request.

**SCU**

**9812**



**TOOL BITS, MECHANICAL FIXING**

**Prod. SCU**

HARD METAL, TIN-coated. Universal quality.  
 Exceptional hardness. Maximum shock and abrasion-proof.  
 With fixing hole for central pin.  
 For tool bit holder Art. 9800 – 9802 – 9804 x 20 and 25mm.

TRIANGULAR SHAPE (TNMG)

For fine removal – radius 0.4.  
 Dimensions: 15.8x9.52x4.76mm.

<b>9820</b>	Each	<b>11,80</b>
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Product description as Art. 9820

TRIANGULAR SHAPE (TNMG)

For medium removal – radius 0.8.  
 Dimensions 15.4x9.52x4.76mm.

<b>9822</b>	Each	<b>11,80</b>
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Product description as Art. 9820

TRIANGULAR SHAPE (TNMG)

For thick removal – radius 1.2.  
 Dimensions 14.7x9.52x4.76mm.

<b>9824</b>	Each	<b>11,80</b>
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**SCU**

**9820**

**9822**

**9824**



**9820**

**9822**

**9824**

HARTMETALL **TIN**

HARD METAL, TIN-coated. Universal quality.  
 Exceptional hardness. Maximum shock and abrasion-proof.  
 With fixing hole for central pin.

For tool bit holder Art. 9806 x 20 and 25mm.

SQUARE SHAPE (SNMG)

For medium removal – radius 0.8.  
 Dimensions 12.7x4.76mm.

<b>9828</b>	Each	<b>13,10</b>
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Product description as Art. 9828

SQUARE SHAPE (SNMG)

For thick removal – radius 1.2.  
 Dimensions 12.7x4.76mm.

<b>9830</b>	Each	<b>13,10</b>
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**SCU**

**9828**

**9830**



**9828**

**9830**

HARTMETALL **TIN**

HARD METAL, TIN coated. Universal quality.  
 Exceptional hardness. Maximum resistance to impact and abrasion.  
 Includes mounting hole for screw.

RHOMBOID SHAPE (CNMG)

For tool bit holders Art. 9808 x 20 and 25mm.

For medium removal - radius 0.8.

Dimensions 12.7x4.76mm.

<b>9832</b>	Each	<b>11,10</b>
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**SCU**

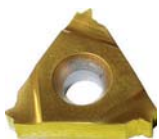
**9832**



HARTMETALL **TIN**

**9833L** **SCU**

HARTMETALL



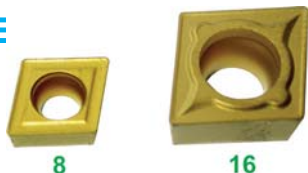
TIN

HARD METAL, TIN coated. Universal quality.  
 Exceptional hardness. Maximum resistance to impact and abrasion.  
 Includes mounting hole for screw.  
 TRIANGULAR SHAPE (16 ER 150 ISO 134), for external threads at 60°.  
 For tool bit holders Art. 9809 x 20 and 25mm.

Pitch	mm	1	1.25	1.5	1.75	2	2.5	3
<b>9833L</b>	Each	13,60	13,60	13,60	13,60	13,60	13,60	13,60

**9833P** **E**

HARTMETALL



TIN

Product description as Art. 9833L  
 RHOMBOID SHAPE (CCMT)  
 For tool bit holders Art. 9809 E x 8 - 10 - 12 - 16.

Size	mm	8	16
For pad arms	Art.	9809 E 8-10-12	9809 E 16
Radius	mm	0,4	0,4
CCMT shape		060204N	09T304N
<b>9833P</b>	Each	8,78	10,70

**9834**  
**9836**  
**9838**
**SCU**

HARTMETALL



TIN

HARD METAL, TIN-coated. Universal quality.  
 Exceptional hardness. Maximum shock and abrasion-proof.  
 For tool bit holder Art. 9810 x 20 and 25mm.  
 TRIANGULAR SHAPE (TPUN)  
 For fine removal – radius 0.4.  
 Dimensions: 15.8x9.52x3.18mm.

<b>9834</b>	Each	10,50
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Product description as Art. 9834  
 TRIANGULAR SHAPE (TPUN)  
 For medium removal – radius 0.8.  
 Dimensions: 15.1x9.52x3.18mm.

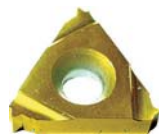
<b>9836</b>	Each	10,50
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Product description as Art. 9834  
 TRIANGULAR SHAPE (TPUN)  
 For thick removal – radius 1.2.  
 Dimensions: 14.5x9.52x3.18mm.

<b>9838</b>	Each	10,50
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**9840** **SCU**

HARTMETALL



TIN

HARD METAL, TIN coated. Universal quality.  
 Exceptional hardness. Maximum resistance to impact and abrasion.  
 Includes mounting hole for screw.  
 TRIANGULAR SHAPE (16 IR 150 ISO 134), for internal threads PITCH 1.5.  
 For tool bit holders Art. 9812 x 20 and 25mm.

<b>9840</b>	Each	13,40
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### TOOLS FOR EXTERNAL CUTTING

**9845A** **SCU**

Prod. SCU  
 Made from CHROME-VANADIUM steel.  
 BLADE HOLDER BODY with fixing screws.

Shank height	mm	20	25
Dimensions	mm	100x44x41 h	110x49x48 h
For insert holder blades	Art.	9845B 1	9845B 2
<b>9845A</b>	Each	55,70	68,50

**9845B** **SCU**

Product description as Art. 9845A  
 TOOLHOLDER BLADES

Size		1	2
Dimensions	mm	109x25,75 h	150x31,75 h
For base	Art.	9845A 20	9845A 25
For inserts	Art.	9845C 1	9845C 2
<b>9845B</b>	Each	41,90	41,90

**9845C** **SCU**

In hard metal.  
 INSERTS

Size		1	2
Thickness at the cutting edge	mm	3	4
For insert holder blades	Art.	9845B 1	9845B 2
<b>9845C</b>	Each	8,78	10,30

*All items are in sequence. It's very easy to find them!*

Special tools for O-Rings  
Punches and hooks for rings



From 9850  
To 9853B

Anti-corrosion tools  
NAUTIC COROSTOP



From 9855  
To 9885P

Anti-spark hand tools



From 9896  
To 9965

**ASSORTED O-RINGS**

9850


**Prod. SCU**

Nitride rubber (NBR) 70° shore hardness.  
Operating temperature between -30° C +130° C  
Case dimensions of 310x240x50 h mm.

Assortment of 805 pieces (36 sizes of ring):

30 rings per size, thickness 1.78mm, internal Ø 1.78 - 2.57 - 2.90 - 3.69 - 4.47 - 5.28 - 6.07 - 7.66  
- 9.25 - 10.82 - 12.42 - 14.00 - 15.60 - 17-16 - 18.77 - 20.35 - 21.95 - 23.52 - 25.12 - 26.70mm  
15 rings per size, thickness 2.62mm, internal Ø 9.13 - 10.78 - 12.37 - 13.95 - 15.54 - 17.13 - 18.72  
- 20.29 - 21.90mm CR10 rings per size, thickness 3.53mm, internal Ø 18.64 - 20.22 - 21.82 -  
23.40 - 24.99 - 28.17 - 29.74mm.

9850	Each	82,80
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**SET OF SPECIAL TOOLS FOR O-RINGS, FINE SERIES**

9850F


**Prod. SCU**

FINE series. In stainless steel, for installing and removing o-rings from fine mechanics parts.  
Suitable for installers or repairers of oleodynamic and pneumatic equipment and precision micro-mechanics.

Assortment of 5 tools:

- knurled jaw tweezers. Length 130mm;
- perforating tool with drill suitable for removing o-rings. Length 145mm;
- tool with angle lever suitable for removing o-rings from grooves or difficult-to-access areas by prising from the bottom of the groove. Length 140mm;
- tool with lever, flat face, suitable for installing or removing o-rings from grooves. Length 130mm;
- pressing/pulling tools, with straight flat tip tool, multi-purpose use, for hooking, positioning, pressing or pulling o-rings into the groove. Length 130mm.

Supplied in handy package complete with instructions for use.

9850F	Each	41,10
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**SET OF SPECIAL TOOLS FOR O-RINGS, HEAVY SERIES**

9852F


**Prod. SCU**

HEAVY series. In stainless steel, for installing or removing o-rings and seals, even if particularly thick. Suitable for installers and repairers of mechanical equipment.

Assortment of 5 tools:

- perforating tool with drill suitable for removing o-rings and gaskets. Length 160mm;
- tool with angle lever suitable for removing o-rings and gaskets from grooves or difficult-to-access areas by prising from the bottom of the groove. Length 145mm;
- tool with lever, flat face, suitable for installing or removing o-rings and gaskets from grooves. Length 160mm;
- pressing/pulling tool, multi-purpose use, suitable for hooking, positioning, pressing or pulling o-rings and gaskets into the groove. Length 150mm;
- straight flat tip tool suitable for installing or removing o-rings and gaskets placed near the surface. It can be used also as a support tool of other models when working with 2 tools at the same time. Length 135mm.

Supplied in handy package complete with instructions for use.

9852F	Each	56,50
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The tools in assortments Art. 9850 F - 9852 F cannot be supplied separately.

**CORROSION-RESISTANT PICKS AND HOOKS IN SETS**

9853A


**Prod. SCU**

Galvanised steel, corrosion-resistant, dual component material with handles.  
Particularly suitable for installing and removing rings, springs, gaskets etc. in the automotive industry.

Assortment of 4 tools:

- Straight pointed tool. Length 160mm.
- Pointed tool, bent at 90°. Length 160mm.
- Pointed tool, bent at 135°. Length 165mm.
- Narrow hook tool. Length 160mm.

In a bag.

9853A	Each	37,40
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Product description as Art. 9853A

Assortment of 7 tools:

- Straight pointed tool. Length 235mm.
  - Pointed tool, bent at 110°. Length 240mm.
  - Wide hook tool. Length 200mm.
  - Mini tool with straight point. Length 160mm.
  - Mini pointed tool, bent at 135°. Length 165mm.
  - Mini narrow hook tool. Length 160mm.
  - Mini pointed tool, bent at 90°. Length 160mm.
- In a practical pack.

**9853B** Each **69,10**

**SCU**

**9853B**



**NC ANTI-CORROSION TOOLS**

**Orig. Gedore - Art. NC 7**

Tools with COROSTOP coating, special treatment to protect them against corrosion. These tools are used in wet environments. The tool becomes resistant to corrosion after undergoing a special galvanic process. The anodic effect guarantees the protection against rust. The COROSTOP protective coating offers the tool a reliable protection also in case of slightly damaged surface. Thanks to this method, COROSTOP tools are perfectly suitable for different uses in the boating field (professional and pleasure boating), for works to be carried out on drilling platforms or mines, wherever works must be carried out in water and the use of sturdy and long lasting tools is required.

COMBINATION WRENCHES

According to DIN 3113A/3318.

CHROME-VANADIUM steel.

Bi-hexagonal head angled at 15°.

Opening	mm	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>12</b>	<b>14</b>	<b>15</b>
Overall length	mm	100	110	120	130	160	180	190
<b>9855</b>	<b>Each</b>	<b>8,46</b>	<b>8,46</b>	<b>8,80</b>	<b>9,20</b>	<b>10,60</b>	<b>11,40</b>	<b>12,20</b>
Opening	mm	<b>16</b>	<b>18</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>32</b>	
Overall length	mm	200	220	240	252	262	380	
<b>9855</b>	<b>Each</b>	<b>13,10</b>	<b>15,10</b>	<b>18,80</b>	<b>18,20</b>	<b>20,30</b>	<b>25,20</b>	
Opening	inches	<b>1/4</b>	<b>5/16</b>	<b>11/32</b>	<b>3/8</b>	<b>7/16</b>	<b>1/2</b>	<b>9/16</b>
Overall length	mm	100	120	130	140	150	170	180
<b>9855</b>	<b>Each</b>	<b>10,30</b>	<b>10,80</b>	<b>10,80</b>	<b>10,70</b>	<b>11,20</b>	<b>12,50</b>	<b>13,30</b>
Opening	inches	<b>5/8</b>	<b>11/16</b>	<b>3/4</b>	<b>7/8</b>	<b>1</b>		
Overall length	mm	200	220	230	262	302		
<b>9855</b>	<b>Each</b>	<b>15,30</b>	<b>17,30</b>	<b>18,10</b>	<b>25,60</b>	<b>25,70</b>		

**GEDORE**

**9855**



**UNIT DRIVE**

**NC**

Product running out of stock.

**Orig. Gedore - Art. NC 42**

Product description as Art. 9855

ALLEN HEAD WRENCHES

According to DIN ISO 2936.

CHROME-VANADIUM steel.

With chamfered head for easier insertion into screws.

Hexagon	mm	<b>2</b>	<b>2,5</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>5,5</b>	<b>6</b>	<b>8</b>	<b>10</b>
Overall length	mm	52	58	66	74	85	85	96	108	122
<b>9856</b>	<b>Each</b>	<b>1,04</b>	<b>1,08</b>	<b>1,44</b>	<b>1,74</b>	<b>1,92</b>	<b>2,60</b>	<b>2,30</b>	<b>3,70</b>	<b>5,74</b>
Hexagon	inches	<b>3/32</b>	<b>1/8</b>	<b>5/32</b>	<b>3/16</b>	<b>1/4</b>	<b>5/16</b>	<b>3/8</b>	<b>1/2</b>	<b>9/16</b>
Overall length	mm	59	66	74	80	96	108	122	145	154
<b>9856</b>	<b>Each</b>	<b>1,14</b>	<b>1,38</b>	<b>1,92</b>	<b>2,60</b>	<b>2,36</b>	<b>3,80</b>	<b>5,90</b>	<b>9,44</b>	<b>13,90</b>
Hexagon	inches	<b>5/8</b>	<b>3/4</b>							
Overall length	mm	168	199							
<b>9856</b>	<b>Each</b>	<b>16,10</b>	<b>20,90</b>							

**GEDORE**

**9856**



**NC**

**NC**

Product running out of stock.

**Orig. Gedore - Art. NC H 42-10**

Product description as Art. 9855

SET OF ALLEN HEAD WRENCHES

Set of 10 pcs. Art. 9856 1.3 - 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10mm.

Supplied in plastic support.

**9857** Per set **23,60**

**GEDORE**

**9857**



**NC**

**NC**

Product running out of stock.

9857P


**Orig. Gedore - Art. NC H 42-88 A**
 Product description as Art. 9855  
 SET OF ALLEN HEAD WRENCHES

 Set of 8 pcs. Art. 9856 5/64 inch. (2mm) - 3/32 - 1/8 - 5/32 - 3/16 - 7/32 (5.5mm) - 1/4 - 5/16.  
 Supplied in plastic support.

9857P	Per set	19,90
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Product running out of stock.

9858


**Orig. Gedore - Art. NC SCL 43TX80**
 Product description as Art. 9855  
 SET OF SOCKET HEAD SCREW WRENCHES

CHROME-VANADIUM steel blades with pocket support. Set of 8 blades T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40.

For TORX screws.

9858	Per set	43,90
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Product running out of stock.




9859


**Orig. Gedore - Art. NC 49D+NC 49R**
 Product description as Art. 9855  
 SPARK PLUG WRENCHES WITH LEVER

 CHROME-VANADIUM steel.  
 Tube-type, double opening 16 x 20.8.  
 With lever.

Overall length	mm	190
9859	Each	29,90

Product running out of stock.




9860A


**Orig. Gedore - Art. NC 53 - NC 52**
 Product description as Art. 9855  
 SOCKET SPARK PLUG WRENCHES

 CHROME-VANADIUM steel.  
 3/8" square drive with system for retaining the spring spark plug .

Opening	mm	16	20,8
Overall length	mm	63	63
9860A	Each	23,10	19,40

Product running out of stock.




3/8"

9860B


**Orig. Gedore - Art. NC 54 - NC 50**
 Product description as Art. 9855  
 SOCKET SPARK PLUG WRENCHES

 CHROME-VANADIUM steel.  
 1/2" square drive with system for retaining the spring spark plug .

Opening	mm	16	20,8
Overall length	mm	63	63
9860B	Each	24,30	19,70

Product running out of stock.




1/2"

9861


**Orig. Gedore - Art. NC 60P**
 Product description as Art. 9855  
 ADJUSTABLE WRENCHES

 According to DIN 3117A.  
 CHROME-VANADIUM steel.  
 Head angled at 15°.

Overall length	mm	200	300
Overall length	inches	8	12
Max opening	mm	25	35
9861	Each	47,10	87,70

Product running out of stock.



**Orig. Gedore - Art. NC 137**

Product description as Art. 9855

**"GRIP" PLIERS**

CHROME-VANADIUM knurled jaws, forged.

Adjustable jaw opening. Immediate lock and release.

Patented jaw shape.

Overall length	mm	250
Max opening	mm	32

<b>9862</b>	Each	<b>40,90</b>
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Product running out of stock.


**9862**


**Orig. Gedore - Art. NC 8132J**

Product description as Art. 9855

**HALF-ROUND, STRAIGHT NOSE PLIERS WITH CUTTER**

According to DIN ISO 5745A.

High-resistance special steel.

Straight long noses, fully oil-hardened and tempered.

Side cutter and insulated handles made of dual component material.

Overall length	mm	160
Jaws length	mm	50

<b>9864</b>	Each	<b>36,20</b>
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Product running out of stock.


**9864**


**Orig. Gedore - Art. NC 8210J**

Product description as Art. 9855

**UNIVERSAL PLIERS**

According to DIN ISO 5746.

High-resistance special steel, forged and oil tempered.

Induction hardened cutting edges for cutting hard wires.

Insulated dual-material handles.

Overall length	mm	180
For hard wires up to Ø	mm	2,2

<b>9865</b>	Each	<b>43,10</b>
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Product running out of stock.


**9865**


**Orig. Gedore - Art. NC 8316J**

Product description as Art. 9855

**SIDE CUTTERS**

According to DIN ISO 5749.

High-resistance special steel, forged and oil tempered.

Induction hardened cutting edges for cutting harmonic wire, hardness approx. 63 HRC also with tagli di punta. The particular position of the hinge creates a favourable leverage ratio with a 35% strength saving in relation to traditional cutters.

Insulated, dual-component handles.

Overall length	mm	160
For harmonic wire up to Ø	mm	1,6

<b>9866</b>	Each	<b>43,90</b>
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Product running out of stock.


**9866**


**Orig. Gedore - Art. NC 352 (NC 97)**

Product description as Art. 9855

**OCTAGONAL CHISELS**

CHROME-VANADIUM-MOLYBDENUM steel, 45 Cr Mo V7, high-resistant, self-hardening.

Hardened heads.

Overall length	mm	150
Cutting edge width	mm	16

<b>9867</b>	Each	<b>17,50</b>
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Product running out of stock.


**9867**


**Orig. Gedore - Art. NC 355 (NC 119)**

Product description as Art. 9855

**OCTAGONAL PIN PUNCHES**

CHROME-VANADIUM-MOLYBDENUM steel, 45 Cr Mo V7, high-resistant, self-hardening.

Hardened heads.

For pins Ø	mm	4
Overall length	mm	150

<b>9868</b>	Each	<b>10,60</b>
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Product running out of stock.


**9868**



9869


**Orig. Gedore - Art. NC 30**

Product description as Art. 9855

SOCKET WRENCHES - 3/8" DRIVE

According to DIN 3120 ISO 1174.

CHROME-VANADIUM steel.

With slots inside the square drive for ratchet balls and sliding bars.

Internal hex type. Length 28mm.

Opening	mm	8	10	12	13	14	15	16
9869	Each	9,30	9,30	9,30	9,30	9,68	9,68	9,68
Opening	mm	17	18	19	20	21	22	
9869	Each	9,68	9,68	9,68	10,80	10,80	10,80	
Opening	inches	1/4	5/16	11/32	3/8			
9869	Each	14,30	10,00	10,00	10,00			

Product running out of stock.

9870


**Orig. Gedore - Art. NC D30**

Product description as Art. 9855

SOCKET WRENCHES - 3/8" DRIVE

According to DIN 3120 ISO 1174.

CHROME-VANADIUM steel.

With slots inside the square drive for ratchet balls and sliding bars.

Internal bi-hex type. Length 28mm.

Opening	inches	7/16	1/2	9/16	5/8	11/16	3/4
9870	Each	10,00	10,00	10,00	10,80	10,80	12,20

Product running out of stock.

9871


**Orig. Gedore - Art. NC 3087**

Product description as Art. 9855

SLIDING LEVERS - 3/8" DRIVE

CHROME-VANADIUM steel.

Length 160mm.

9871	Each	17,90
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Product running out of stock.

9872


**Orig. Gedore - Art. NC 3090**

Product description as Art. 9855

EXTENSIONS - 3/8" DRIVE

CHROME-VANADIUM steel.

Length 125mm.

9872	Each	14,90
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Product running out of stock.

9873


**Orig. Gedore - Art. NC 3093U-10**

Product description as Art. 9855

RATCHET LEVERS - 3/8" DRIVE

CHROME-VANADIUM steel.

With small lever for RIGHT/LEFT and fixed movement.

Rubber handle. Rapid and safe release with button.

Fine toothing. Length 200mm.

9873	Each	95,40
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Product running out of stock.

9874


**Orig. Gedore - Art. NC 19**

Product description as Art. 9855

SOCKET WRENCHES - 1/2" DRIVE

According to DIN 3120 ISO 1174.

CHROME-VANADIUM steel.

With slots inside the square drive for ratchet balls and sliding bars.

Internal hex type. Length 40mm.

Opening	mm	10	12	13	14	16	17	18
9874	Each	8,52	9,14	8,52	9,38	9,38	9,98	10,80
Opening	mm	19	22	24	27	30	32	
9874	Each	9,98	11,10	12,20	15,30	16,40	16,40	

Product running out of stock.

**Orig. Gedore - Art. NC D19**

Product description as Art. 9855  
 SOCKET WRENCHES - 1/2" DRIVE  
 According to DIN 3120 ISO 1174.  
 CHROME-VANADIUM steel.  
 With slots inside the square drive for ratchet balls and sliding bars.  
 Internal bi-hex type. Length 28mm.

Opening	inches	5/16	11/32	3/8	13/32	7/16	1/2	9/16
<b>9875</b>	<b>Each</b>	14,40	18,90	10,40	10,40	10,40	10,40	10,90
Opening	inches	19/32	5/8	11/16	3/4			
<b>9875</b>	<b>Each</b>	10,90	10,90	11,60	11,60			

Product running out of stock.



**9875**



**Orig. Gedore - Art. NC 1987**

Product description as Art. 9855  
 SLIDING LEVERS - 1/2" DRIVE  
 CHROME-VANADIUM steel.  
 Length 290mm.

<b>9876</b>	<b>Each</b>	21,20
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Product running out of stock.



**9876**



**Orig. Gedore - Art. NC 1990**

Product description as Art. 9855  
 EXTENSIONS - 1/2" DRIVE  
 CHROME-VANADIUM steel.

Overall length	mm	125	250
<b>9877</b>	<b>Each</b>	14,70	20,20

Product running out of stock.



**9877**



**Orig. Gedore - Art. NC 1993U-10 T**

Product description as Art. 9855  
 RATCHET LEVERS - 1/2" DRIVE  
 CHROME-VANADIUM steel.  
 With small lever for RIGHT/LEFT and fixed movement.  
 Rubber handle. Rapid and safe release with button.  
 Fine toothing. Length 270mm.

<b>9878</b>	<b>Each</b>	104,00
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Product running out of stock.



**9878**



**Orig. Gedore - Art. NC 2150**

Product description as Art. 9855  
 FLAT-TIPPED SCREWDRIVERS  
 Ergonomic handles, strong, anti-slip, obtained by combining 3 different plastic materials.  
 Connection hole. Blades DIN 5265 - cutting edges DIN 5264A, MOLYBDENUM-VANADIUM steel (80 and 125mm) and CHROME-VANADIUM-SILICON steel (175mm).

Blade length	mm	125	175
Cutting edge width	mm	5,5	8
Cutting edge thickness	mm	1	1,2
Blade Ø	mm	5	7
Overall length	mm	225	295
<b>9879</b>	<b>Each</b>	9,06	13,60

Product running out of stock.



**9879**



**Orig. Gedore - Art. NC 2160**

Product description as Art. 9855  
 PHILLIPS CROSS-TIPPED SCREWDRIVERS  
 Ergonomic handles, strong, anti-slip, obtained by combining 3 different plastic materials.  
 Connection hole. Blades DIN ISO 8764 - tips DIN ISO 8764-1/PH, MOLYBDENUM-VANADIUM steel.

Size		1	2
Blade length	mm	80	100
For screws	M.	2-3	3,5-5
Blade Ø	mm	4,5	6
Overall length	mm	180	210
<b>9880</b>	<b>Each</b>	7,22	9,22

Product running out of stock.



**9880**



**9881E**

**Orig. Gedore - Art. NC 1.04**

Product description as Art. 9855

**UNIVERSAL DOUBLE GRIP PULLERS**

Forged, hardened steel. Rapid adjustment arms, interchangeable, sliding on ground guides, both inside/outside use.

Max opening	mm	<b>200</b>	<b>350</b>
Arms length	mm	150	200
Max. traction	t.	5	7,5
<b>9881E</b>	Each	<b>215,00</b>	<b>375,00</b>

Product running out of stock.

**9885A**

**OBJECT TRAY**

**Orig. Gedore - Art. NC 502M**

Product description as Art. 9855

**ASSORTMENT OF TOOLS**

Supplied in yellow-offshore water-proof cases made of special thermo-plastic material, resistant to temperatures ranging from -25 °C to +80 °C. Cases can float while offering help to any person that may have fallen into water. Their floating capacity can change according to their dimensions. The most part of the tools contained in these cases is protected by a special anti-corrosion coating.

The set is composed of 11 tools:

- 5 Allen head wrenches Art. 9856 2.5-4-5-6-8mm
- 1 flat-tipped screwdriver Art. 9879 125mm
- 1 PH cross-tipped screwdriver Art. 9880 Size 2
- 1 multi-purpose pliers Art. 9865 180mm
- 1 multi-purpose tool Art. 9881
- 1 medical first aid mini-set
- 1 plastic container.

Supplied in water-proof case, with empty object-holder tray, dimensions mm255x180x80h, weight 1.5Kg, floating capacity 20 N.

<b>9885A</b>	Each	<b>174,00</b>
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Product running out of stock.

**9885C**



**Orig. Gedore - Art. NC 503M**

Product description as Art. 9855

**ASSORTMENT OF TOOLS**

Supplied in yellow-offshore water-proof cases made of special thermo-plastic material, resistant to temperatures ranging from -25 °C to +80 °C. Cases can float while offering help to any person that may have fallen into water. Their floating capacity can change according to their dimensions. The most part of the tools contained in these cases is protected by a special anti-corrosion coating.

The set is composed of 22 tools:

- 10 Allen head wrenches in series Art. 9857 1.3-1.5-2-2.5-3-4-5-6-8-10mm
- 1 flat-tipped screwdriver Art. 9879 125mm
- 1 PH cross-tipped screwdriver Art. 9880 Size 2
- 1 phase detecting screwdriver 6 to 24 Volt, brass body
- 1 multi-purpose pliers Art. 9865 180mm
- 1 adjustable pliers Art. 9863 250mm
- 1 multi-purpose tool Art. 9881
- 1 spark plug spanner opening 16x20.8mm, with lever, Art. 9859
- 1 spark plug brush with brass wires
- 1 insulated tape
- 1 steel contact file
- 1 medical first aid mini-set

Supplied in water-proof case, dimensions mm255x180x80h, weight 2.4Kg, floating capacity 10 N.

<b>9885C</b>	Each	<b>277,00</b>
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Product running out of stock.

**Orig. Gedore - Art. NC 504M**

Product description as Art. 9855

**ASSORTMENT OF TOOLS**

Supplied in yellow-offshore water-proof cases made of special thermo-plastic material, resistant to temperatures ranging from -25 °C to +80 °C. Cases can float while offering help to any person that may have fallen into water. Their floating capacity can change according to their dimensions. The most part of the tools contained in these cases is protected by a special anti-corrosion coating.

The set is composed of 65 tools:

- 13 combination wrenches Art. 9855 mm 6-7-8-9-10-12-13-14-15-16-17-18-19
- 10 Allen head wrenches in series Art. 9857 mm 1,3-1,5-2-2,5-3-4-5-6-8-10
- 1 support Art. 9858 with 8 blades for TORX screws T9-T10-T15-T20-T25-T27-T30-T40
- 1 adjustable wrench Art. 9861 mm 200
- 1 socket wrench, 1/2" drive, for spark plugs Art. 9860 A opening mm 16
- 1 socket wrench, 3/8" drive, for spark plugs Art. 9860 A opening mm 20,8
- 13 socket wrenches, 3/8" drive, Art. 9869 mm 8-10-12-13-14-15-16-17-18-19-20-21-22
- 1 sliding lever 3/8" drive Art. 9871
- 1 lever 3/8" drive Art. 9872 mm 125
- 1 ratchet lever 3/8" drive Art. 9873
- 3 flat-tipped screwdrivers Art. 9879 mm 80-125-175
- 2 PH cross-tipped screwdrivers Art. 9880 Gr. 1-2
- 1 phase detecting screwdriver 6 to 24 Volt, brass body
- 1 half-round nose plier Art. 9864 mm 160
- 1 multi-purpose pliers Art. 9865 mm 180
- 1 grip plier Art. 9862 mm 250
- 1 side cutter Art. 9866 mm 160
- 1 recoilless hammer with one steel head and one nylon head, Art. 2789 GP Ø 30mm
- 1 octagonal chisel Art. 9867 150mm
- 1 octagonal pin punch Art. 9868 150x4mm
- 1 bow with steel hacksaw, total length 250mm
- 1 knife for electricians, blade length 90mm
- 1 fleximeter with button 3m
- 1 insulated tape.

Supplied in water-proof case, dimensions mm 420x305x170h, weight 10Kg, floating capacity 100 N.

**9885E** Each **1.120,00**

Product running out of stock.



**9885E**



**Orig. Gedore - Art. NC 505M**

Product description as Art. 9855

**ASSORTMENT OF TOOLS**

Supplied in yellow-offshore water-proof cases made of special thermo-plastic material, resistant to temperatures ranging from -25 °C to +80 °C. Cases can float while offering help to any person that may have fallen into water. Their floating capacity can change according to their dimensions. The most part of the tools contained in these cases is protected by a special anti-corrosion coating.

The set is composed of 73 tools:

- 17 combination wrenches Art. 9855 mm 6-7-8-9-10-12-13-14-16-17-18-19-22-24-27-30-32
- 10 Allen head wrenches in series Art. 9857 mm 1,3-1,5-2-2,5-3-4-5-6-8-10
- 1 support Art. 9858 with 8 blades for TORX screws T9-T10-T15-T20-T25-T27-T30-T40
- 1 adjustable wrench Art. 9861 mm 300
- 1 socket wrench, 1/2" drive, for spark plugs Art. 9860 B, opening 16mm
- 1 socket wrench, 1/2" drive, for spark plugs Art. 9860 B, opening 20.8mm
- 13 socket wrenches, 1/2" drive, bihexagonal Art. 9875 mm 10-12-13-14-16-17-18-19-22-24-27-30-32
- 1 sliding lever, 1/2" drive Art. 9876
- 1 extension, 1/2" drive Art. 9877 mm 125
- 1 extension, 1/2" drive Art. 9877 mm 250
- 1 ratchet lever, 1/2" drive Art. 9878
- 3 flat-tipped screwdrivers Art. 9879 mm 80-125-175
- 2 PH cross-tipped screwdriver Art. 9880 Size 1-2
- 1 phase detecting screwdriver 6 to 24 Volt, brass body
- 1 half-round nose pliers Art. 9864 mm 160
- 1 multi-purpose pliers Art. 9865 mm 180
- 1 grip pliers Art. 9862 mm 250
- 1 adjustable pliers Art. 9863 mm 250
- 1 side cutter Art. 9866 mm 160
- 1 recoilless hammer with one steel head and one nylon head Art. 2789 GP Ø mm 30
- 1 octagonal chisel Art. 9867 mm 150
- 1 octagonal pin punch Art. 9868 mm 150x4
- 1 bow with steel hacksaw, total length mm 250
- 1 knife for electricians, blade length mm 90
- 1 fleximeter with button 3m
- 1 insulated tape.

Supplied in water-proof case, dimensions mm 420x305x170h, weight 10Kg, floating capacity 100 N.

**9885L** Each **1.460,00**

Product running out of stock.



**9885L**



9885P


**Orig. Gedore - Art. NC 505 A**

Product description as Art. 9855

## ASSORTMENT OF TOOLS

Supplied in yellow-offshore water-proof cases made of special thermo-plastic material, resistant to temperatures ranging from -25 °C to +80 °C. Cases can float while offering help to any person that may have fallen into water. Their floating capacity can change according to their dimensions. The most part of the tools contained in these cases is protected by a special anti-corrosion coating.

The set is composed of 64 tools:

- 12 combination wrenches Art. 9855 1/4-5/16-11/32-3/8-7/16-1/2-9/16-5/8-11/16-3/4-7/8-1 inch
- 8 Allen head wrenches in series Art. 9857P 5/64-3/32-1/8-5/32-3/16-7/32-1/4-5/16 inch
- 1 support Art. 9858 with 8 blades for TORX screws T9-T10-T15-T20-T25-T27-T30-T40
- 1 adjustable wrench Art. 9861 300mm
- 1 socket wrench, 1/2" drive, for spark plugs Art. 9860 B, opening 16mm
- 1 socket wrench, 1/2" drive, for spark plugs Art. 9860 B, opening 20.8mm
- 11 socket wrenches, 1/2" drive, bihexagonal Art. 9875 5/16-11/32-3/8-13/32-7/16-1/2-9/16-19/32-5/8-11/16-3/4 inch
- 1 sliding lever, 1/2" drive, Art. 9876
- 1 extension, 1/2" drive, Art. 9877 125mm
- 1 extension, 1/2" drive, Art. 9877 250mm
- 1 ratchet lever, 1/2" drive, Art. 9878
- 3 flat-tipped screwdrivers Art. 9879 80-125-175mm
- 2 PH cross-tipped screwdrivers Art. 9880 Gr. 1-2
- 1 phase detecting screwdriver 6 to 24 Volt, brass body
- 1 half-round nose pliers Art. 9864 160mm
- 1 multi-purpose pliers Art. 9865 180mm
- 1 grip pliers Art. 9862 250mm
- 1 adjustable pliers Art. 9863 250mm
- 1 side cutter Art. 9866 160mm
- 1 recoilless hammer with one steel head and one nylon head, Art. 2789 GP Ø 30mm
- 1 octagonal chisel Art. 9867 150mm
- 1 octagonal pin punch Art. 9868 150x4mm
- 1 bow with steel hacksaw, total length 250mm
- 1 knife for electricians, blade length 90mm
- 1 fleximeter with button 3m
- 1 insulated tape.

Supplied in water-proof case,

dimensions mm 420x305x170h, weight 10Kg, floating capacity 100 N.

9885P	Each	1.350,00
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Product running out of stock.

**SPARK-PROOF SAFETY TOOLS**

9896


**Prod. SCU**

Safety tools, spark-proof, amagnetic, corrosion-proof, made of bronze-aluminium alloy and copper-beryllium alloy. This program is particularly suitable for petrochemical, chemical, pharmaceutical and nuclear industry, paints, paper mills, mines, oil wells, refineries, gas deposits, explosive manufacturers, electric companies, military arsenals, tank cleaning companies, etc. These tools must be ground and sharpened at room temperature and must not be heated above 200° C. The indicated dimensions are indicative.

## FLAT NOSE PLIERS

Bronze-aluminium alloy. Dual component insulated handles.

Overall length mm 160

9896	Each	218,00
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9898




Product description as Art. 9896

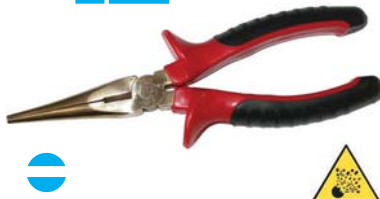
## ROUND NOSE PLIERS

Bronze-aluminium alloy. Dual component insulated handles.

Overall length mm 160

9898	Each	237,00
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9900

Product description as Art. 9896

## STRAIGHT HALF-ROUND NOSE PLIERS WITH CUTTERS

Bronze-aluminium alloy. Dual component insulated handles.

Overall length mm 195

9900	Each	205,00
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Product description as Art. 9896

**COMBINATION PLIERS**

Bronze-aluminium alloy. Dual component insulated handles.

Overall length	mm	200
<b>9902</b>	<b>Each</b>	<b>219,00</b>

SCU



9902



Product description as Art. 9896

**ADJUSTABLE PLIERS**

Bronze-aluminium alloy. Plastic-coated handles.

Overall length	mm	250
<b>9904</b>	<b>Each</b>	<b>218,00</b>

SCU



9904



Product description as Art. 9896

**GAS PIPES PLIERS**

Bronze-aluminium alloy. Dual component insulated handles.

Overall length	mm	215
<b>9905</b>	<b>Each</b>	<b>318,00</b>

SCU



9905



Product description as Art. 9896

**OBLIQUE CUTTERS**

Bronze-aluminium alloy. Dual component insulated handles.

Overall length	mm	160
<b>9906</b>	<b>Each</b>	<b>212,00</b>

SCU



9906



Product description as Art. 9896

**PINCERS**

Bronze-aluminium alloy. Plastic-coated handles.

Overall length	mm	200
<b>9907</b>	<b>Each</b>	<b>325,00</b>

SCU



9907



Product description as Art. 9896

**SCISSORS**

Bronze-aluminium alloy.

Dimensions: 150mm, plastic-coated handles.

Overall length	mm	150	225
<b>9907F</b>	<b>Each</b>	<b>152,00</b>	<b>235,00</b>

SCU



9907F



Product description as Art. 9896

**SHEARS**

Bronze-aluminium alloy.

Overall length	mm	300
<b>9908</b>	<b>Each</b>	<b>302,00</b>

SCU



9908



Product description as Art. 9896

**SHEARS**

Bronze-aluminium alloy.

Overall length	mm	270
<b>9908E</b>	<b>Each</b>	<b>213,00</b>

SCU



9908E



9909

SCU



Product description as Art. 9896  
KNIVES  
Bronze-aluminium alloy. Wooden handle.  
Overall length mm 250

9909	Each	55,90
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9910

SCU



Product description as Art. 9896  
ADJUSTABLE WRENCHES  
Bronze-aluminium alloy.  
Overall length mm

	200	250	300	380	
9910	Each	136,00	183,00	233,00	360,00



9910E

GEDORE



Orig. Gedore  
Product description as Art. 9896  
VALVE KEYS  
Bronze-aluminium alloy.  
Overall length mm

	330	420	510	
Ø	36x60	48x80	62x102	
Supplier code	GED 7013660S	GED 7014880S	GED 7014810S	
9910E	Each	348,00	501,00	654,00



9910V

SCU



Prod. SCU  
Product description as Art. 9896  
WRENCHES FOR VALVES  
Bronze-aluminium alloy.  
Ø mm 16  
Dimensions l1 - l2 mm 65 - 40  
Overall length mm 400

9910V	Each	145,00
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9911

SCU



Product description as Art. 9896  
HOOK FIXED SPANNERS  
Bronze-aluminium alloy.  
For rings and locking ring nuts mm

	34/36	40/42	45/50	52/55	58/62	68/75	80/90	
Overall length mm	168	170	205	205	235	255	280	
9911	Each	30,70	32,40	36,30	44,10	50,30	58,70	70,40

For rings and locking ring nuts mm

	95/100	110/115	
Overall length mm	315	330	
9911	Each	86,50	108,00



9912

SCU



Product description as Art. 9896  
HOOK VARIABLE SPANNERS  
Bronze-aluminium alloy.  
For rings and locking ring nuts mm

	32/75	50/120	115/170	
Overall length mm	205	280	310	
9912	Each	121,00	165,00	242,00



9913

SCU



Product description as Art. 9896  
SLUGGING WRENCHES  
Bronze-aluminium alloy.  
Opening mm

	24	27	30	32	36	41	46	
9913	Each	117,00	123,00	128,00	135,00	156,00	206,00	234,00

Opening mm

	50	55	60	65	70	75	80	
9913	Each	306,00	318,00	364,00	412,00	463,00	514,00	657,00

Opening mm

	85	90	95	100	
9913	Each	718,00	786,00	852,00	972,00



9914

SCU



Product description as Art. 9896  
SLUGGING WRENCHES  
Bronze-aluminium alloy. Bi-hexagonal openings.  
Opening mm

	19	22	24	27	30	32	36	
9914	Each	78,90	78,90	89,00	102,00	112,00	115,00	142,00

Opening mm

	41	46	50	55	60	65	70	
9914	Each	207,00	239,00	270,00	274,00	318,00	371,00	495,00

Opening mm

	75	80	85	90	
9914	Each	512,00	592,00	627,00	698,00



Product description as Art. 9896  
SINGLE OPEN-ENDED WRENCHES

Bronze-aluminium alloy.

Opening	mm	6	7	8	9	10	11	12	13
9915	Each	35,10	35,10	35,10	35,10	36,70	36,70	38,20	40,10
Opening	mm	14	15	17	19	22	24	27	30
9915	Each	40,10	43,10	49,40	55,70	63,60	69,10	76,30	101,00
Opening	mm	32	36	38	41	46	50	55	60
9915	Each	109,00	140,00	147,00	166,00	201,00	287,00	356,00	398,00

**SCU**

**9915**



Product description as Art. 9896  
DOUBLE ENDED OPEN JAW WRENCHES

Bronze-aluminium alloy.

Opening	mm	6x7	8x9	10x11	12x13	14x15	16x17	17x19
9916	Each	33,10	34,40	34,40	34,40	37,40	41,50	44,80
Opening	mm	18x19	19x22	20x22	21x23	22x24	24x26	24x27
9916	Each	48,10	51,40	54,10	56,50	59,10	61,60	64,10
Opening	mm	25x28	27x29	30x32	30x36	35x38	36x41	41x46
9916	Each	66,70	68,70	91,60	102,00	123,00	148,00	163,00
Opening	mm	46x50	50x55	55x60	60x65			
9916	Each	224,00	331,00	445,00	461,00			

**SCU**

**9916**



Product description as Art. 9896  
COMBINATION WRENCHES

Bronze-aluminium alloy.

Opening	mm	10	11	12	13	14	15	16
9918	Each	43,30	43,30	45,80	48,40	50,90	53,40	56,10
Opening	mm	17	19	21	22	23	24	27
9918	Each	56,10	61,10	66,20	68,70	71,20	76,30	99,20
Opening	mm	30	32	36	41	46		
9918	Each	117,00	125,00	184,00	255,00	270,00		

**SCU**

**9918**



**Orig. Gedore**

Product description as Art. 9896

COMBINATION WRENCHES

In Bronze-aluminum alloy.

Opening	inches	5/16	7/16	11/16	13/16	15/16
Supplier code		GED0137102S	GED0137104S	GED0137109S	GED0137111S	GED0137113S
9918A	Each	44,50	47,10	75,90	85,40	96,90
Opening	inches	1.1/8	1.5/16	1.3/8	1.7/16	1.3/4
Supplier code		GED0137116S	GED0137122S	GED0137123S	GED0137124S	GED0137129S
9918A	Each	144,00	236,00	236,00	236,00	336,00
Opening	inches	1.7/8	2	2.1/16	2.1/8	
Supplier code		GED0137131S	GED0137132S	GED0137133S	GED0137134S	
9918A	Each	390,00	390,00	440,00	440,00	

**GEDORE**

**9918A**  
*new*



**Prod. SCU**

Product description as Art. 9896

BIHEXAGONAL RING WRENCHES

Bronze-aluminium alloy.

Opening	mm	6x7	8x9	10x11	12x13	14x15	16x17	18x19
9920	Each	39,50	43,30	45,80	48,40	50,90	61,10	63,60
Opening	mm	20x22	21x23	24x27	25x28	30x32	32x36	36x41
9920	Each	68,70	73,80	91,60	96,70	130,00	138,00	161,00
Opening	mm	41x46	46x50	50x60				
9920	Each	234,00	306,00	382,00				

**SCU**

**9920**



Product description as Art. 9896

OFFSET SOCKET WRENCHES

Bronze-aluminium alloy. Bi-hexagonal openings.

Opening	mm	10	13	17	19	22	24	27
Overall length	mm	125	150	200	210	245	270	270
9921	Each	148,00	153,00	158,00	173,00	234,00	255,00	273,00
Opening	mm	30	32	36	41			
Overall length	mm	300	310	320	320			
9921	Each	290,00	301,00	323,00	362,00			

**SCU**

**9921**



9922

SCU



Product description as Art. 9896

ALLEN HEAD WRENCHES

Bronze-aluminium alloy.

Opening	mm	1,5	2	2,5	3	4	5	6	7
9922	Each	23,60	23,60	23,60	23,60	23,60	23,60	26,30	28,80
Opening	mm	8	9	10	12	13	14	17	19
9922	Each	34,10	39,30	44,50	58,50	68,70	81,40	107,00	140,00
Opening	mm	22	24	27	30	32	36		
9922	Each	151,00	163,00	194,00	262,00	339,00	463,00		

9924

SCU



1/2"



Product description as Art. 9896

HEXAGONAL SOCKET WRENCHES

Bronze-aluminium alloy. 1/2" drive.

Opening	mm	8	10	12	13	14	15	16
9924	Each	42,30	42,30	44,10	44,10	47,30	47,30	47,30
Opening	mm	17	18	19	20	21	22	23
9924	Each	49,10	49,10	49,10	55,70	55,70	55,70	65,90
Opening	mm	24	25	26	27	29	30	32
9924	Each	65,90	74,30	74,30	82,70	91,10	91,10	99,20

9924A

SCU



3/4"



Product description as Art. 9896

HEXAGONAL SOCKET WRENCHES

Bronze-aluminium alloy. 3/4" drive.

Opening	mm	19	22	24	27	30	32	34
9924A	Each	73,80	73,80	73,80	73,80	91,60	99,20	112,00
Opening	mm	36	38	41	46	50	55	60
9924A	Each	143,00	156,00	166,00	214,00	257,00	362,00	425,00

9925

SCU



1/2"



Product description as Art. 9896

ROD ENDS

Bronze-aluminium alloy - 1/2" shank.

Overall length	mm	275
9925	Each	224,00

9925A

SCU



3/4"



Product description as Art. 9896

ROD ENDS

Bronze-aluminium alloy - 3/4" shank.

Overall length	mm	375
9925A	Each	351,00

9926

SCU



1/2"



Product description as Art. 9896

RATCHETS

Bronze-aluminium alloy. 1/2" drive.

Overall length	mm	250
9926	Each	351,00

9926A

SCU



3/4"



Product description as Art. 9896

RATCHETS

Bronze-aluminium alloy. 3/4" drive.

Overall length	mm	320
9926A	Each	564,00

9928

SCU



1/2"



Product description as Art. 9896

SLIDING BARS

Bronze-aluminium alloy. 1/2" drive.

Overall length	mm	250
9928	Each	115,00

Product description as Art. 9896

**SLIDING BARS**

Bronze-aluminium alloy. 3/4" drive.

Overall length	mm	500
<b>9928A</b>	<b>Each</b>	<b>232,00</b>

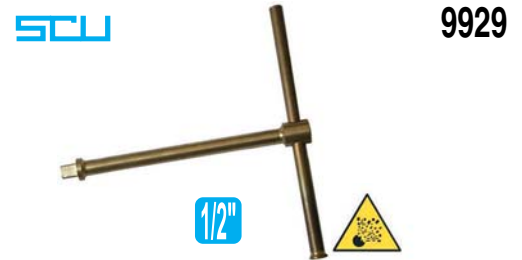


Product description as Art. 9896

**"T" HANDLES**

With sliding bar. Bronze-aluminium alloy – 1/2" drive.

Overall length	mm	245
<b>9929</b>	<b>Each</b>	<b>212,00</b>

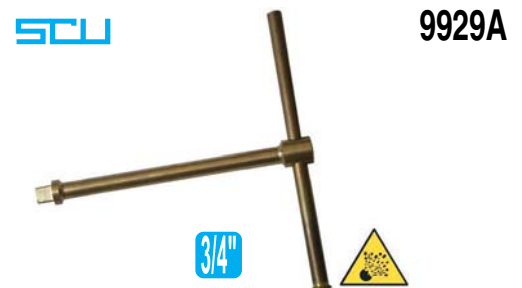


Product description as Art. 9896

**"T" HANDLES**

With sliding bar. Bronze-aluminium alloy – 3/4" drive.

Overall length	mm	260
<b>9929A</b>	<b>Each</b>	<b>273,00</b>



Product description as Art. 9896

**EXTENSIONS**

Bronze-aluminium alloy. 1/2" drive.

Overall length	mm	100	250
<b>9930</b>	<b>Each</b>	<b>137,00</b>	<b>165,00</b>



Product description as Art. 9896

**EXTENSIONS**

Bronze-aluminium alloy. 3/4" drive.

Overall length	mm	200	250
<b>9930A</b>	<b>Each</b>	<b>225,00</b>	<b>290,00</b>



Product description as Art. 9896

**FITTING BUSHES**

Bronze-aluminium alloy.

Overall length	mm	50
Female square drive.	inches	3/4
Male square drive.	inches	1/2
<b>9931</b>	<b>Each</b>	<b>76,30</b>



Product description as Art. 9896

**FITTING BUSHES**

Bronze-aluminium alloy.

Overall length	mm	44
Female square drive.	inches	1/2
Male square drive.	inches	3/4
<b>9931A</b>	<b>Each</b>	<b>73,80</b>



Product description as Art. 9896

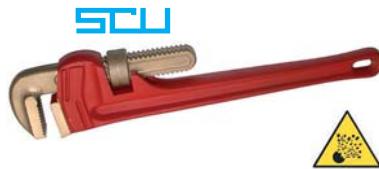
**PIPE WRENCH SWEDISH MOD.**

Bronze-aluminium alloy. Jaws bent at 45°.

For pipes up to Ø	inches	1.1/2	2
<b>9931T</b>	<b>Each</b>	<b>1.350,00</b>	<b>1.480,00</b>



9932



Product description as Art. 9896

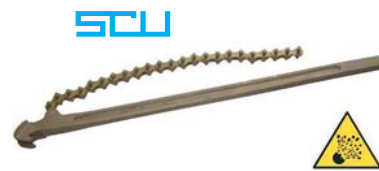
PIPE WRENCHES

Bronze-aluminium alloy.

Overall length	mm	350	450	600	900
Max opening	mm	60	75	80	100
<b>9932</b>	<b>Each</b>	<b>406,00</b>	<b>495,00</b>	<b>742,00</b>	<b>1.300,00</b>



9932E



Product description as Art. 9896

CHAIN PIPE WRENCH

Bronze-aluminium alloy.

For pipes up to inches	inches	2	4	6
Overall length	mm	600	600	600
<b>9932E</b>	<b>Each</b>	<b>1.190,00</b>	<b>1.230,00</b>	<b>1.660,00</b>



9933



Product description as Art. 9896

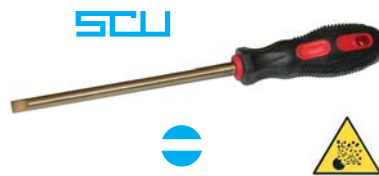
PIPE CUTTER

Bronze-aluminium alloy. With wheel for steel pipes and 2 guides.

For gas and water pipes Ø	inches	1/8-2
<b>9933</b>	<b>Each</b>	<b>1.550,00</b>



9934



Product description as Art. 9896

FLAT-TIP SCREWDRIVERS

Bronze-aluminium alloy. Dual component insulated handles.

Type		50	100	100A	150	200
Cutting edge width	mm	3	4	6	8	10
Blade length	mm	50	100	100	150	200
<b>9934</b>	<b>Each</b>	<b>24,50</b>	<b>27,10</b>	<b>36,70</b>	<b>71,30</b>	<b>83,60</b>



9936



Product description as Art. 9896

PHILLIPS CROSS-TIP SCREWDRIVER

Bronze-aluminium alloy. Dual component insulated handles.

Size		1	2	3	4
Blade length	mm	80	100	150	200
<b>9936</b>	<b>Each</b>	<b>24,30</b>	<b>28,70</b>	<b>48,50</b>	<b>71,60</b>



9936L



Product description as Art. 9896

FLAT FILES

Copper-beryllium alloy. Dual-material handle. Second cut.

File length	mm	200
<b>9936L</b>	<b>Each</b>	<b>210,00</b>



9936P



Product description as Art. 9896

HALF-ROUND FILES

Copper-beryllium alloy. Dual-material handle. Second cut.

File length	mm	200
<b>9936P</b>	<b>Each</b>	<b>210,00</b>



9936R



Product description as Art. 9896

ROUND FILES

Copper-beryllium alloy. Dual-material handle. Second cut.

File length	mm	200
<b>9936R</b>	<b>Each</b>	<b>192,00</b>



9937



Product description as Art. 9896

HAMMERS FOR SCRAPING

Bronze-aluminium alloy. Wooden handle.

Weight	grams	400
<b>9937</b>	<b>Each</b>	<b>96,70</b>



Product description as Art. 9896

LOCKSMITH'S HAMMERS, GERMAN PATTERN

Bronze-aluminium alloy. Fiber and rubber handle.

Weight	grams	300	500	800	1000	1500	2000
<b>9938</b>	<b>Each</b>	<b>75,90</b>	<b>95,40</b>	<b>124,00</b>	<b>151,00</b>	<b>205,00</b>	<b>246,00</b>



**9938**



Product description as Art. 9896

ENGINEERS' HAMMERS

Bronze-aluminium alloy. Fiber and rubber handle.

Weight	grams	500	800	1000
<b>9939</b>	<b>Each</b>	<b>70,70</b>	<b>84,60</b>	<b>110,00</b>



**9939**

SCU



Product description as Art. 9896

CLAW HAMMERS

Bronze-aluminium alloy. Fiber and rubber handle.

Weight	grams	500	700
<b>9939E</b>	<b>Each</b>	<b>97,10</b>	<b>115,00</b>



**9939E**

SCU



Product description as Art. 9896

BLACKSMITH HAMMERS

Bronze-aluminium alloy. Fiber and rubber handle.

Weight	grams	1000	1500	2000
<b>9940</b>	<b>Each</b>	<b>151,00</b>	<b>188,00</b>	<b>246,00</b>



**9940**

SCU



Product description as Art. 9896

SLEDGE HAMMERS

Bronze-aluminium alloy. Fiber and rubber handle.

Weight	Kg	3	4,5	5	6,8	8
<b>9940A</b>	<b>Each</b>	<b>354,00</b>	<b>452,00</b>	<b>583,00</b>	<b>707,00</b>	<b>883,00</b>



**9940A**

SCU



Product description as Art. 9896

AXES

Bronze-aluminium alloy. Wooden handle.

Weight	grams	1000
<b>9942</b>	<b>Each</b>	<b>161,00</b>



**9942**

SCU



Product description as Art. 9896

AXES

Bronze-aluminium alloy. Wooden handle.

Weight	grams	3000
Overall length	mm	900
<b>9942E</b>	<b>Each</b>	<b>364,00</b>



**9942E**

SCU



Product description as Art. 9896

PICK SCRAPERS

Bronze-aluminium alloy.

Overall length	mm	470
Blade width	mm	80
<b>9942R</b>	<b>Each</b>	<b>153,00</b>



**9942R**

SCU



Product description as Art. 9896

FLAT BLADE SCRAPERS

Bronze-aluminium alloy. Plastic-coated handle.

Overall length	mm	310
<b>9943A</b>	<b>Each</b>	<b>61,10</b>



**9943A**

SCU



**9943B****SCU**

Product description as Art. 9896  
**TRIANGULAR BLADE SCRAPERS**  
 Bronze-aluminium alloy. Plastic-coated handle.  
 Overall length mm 310  
**9943B** Each **71,20**

**9943E****SCU**

Product description as Art. 9896  
**FLOOR SCRAPERS WITHOUT HANDLE**  
 Bronze-aluminium alloy.  
 Blade width mm 100  
**9943E** Each **125,00**

**9943R****SCU**

Product description as Art. 9896  
**HAND SCRAPERS**  
 Bronze-aluminium alloy.  
 Overall length mm 225  
 Blade width mm 80  
**9943R** Each **72,50**

**9943T****SCU**

Product description as Art. 9896  
**DECK SCRAPERS**  
 Bronze-aluminium alloy.  
 Overall length mm 250  
 Cutting edges width mm 45  
**9943T** Each **73,80**

**9944****SCU**

Product description as Art. 9896  
**CUT CHISELS**  
 Bronze-aluminium alloy.  
 Overall length mm 150 200 250 300 350 400  
 Cutting edge width mm 20 23 23 28 32 32  
**9944** Each **37,20 47,60 62,90 87,50 96,70 125,00**

**9946****SCU**

Product description as Art. 9896  
**TIP CHISELS**  
 Bronze-aluminium alloy.  
 Overall length mm 150 200 250 300 350 400  
**9946** Each **37,20 47,60 62,90 87,50 96,70 125,00**

**9948****SCU**

Product description as Art. 9896  
**MARCHING TOOLS**  
 Bronze-aluminium alloy.  
 Overall length mm 150  
**9948** Each **65,10**

**9949****SCU**

Product description as Art. 9896  
**PUNCHES**  
 Bronze-aluminium alloy.  
 Tip Ø mm 2 3 4 5 6 8 10  
 Overall length mm 150 150 150 150 150 150 150  
**9949** Each **65,70 65,70 65,70 65,70 65,70 78,30 93,30**

**9950****SCU**

Product description as Art. 9896  
**PIN PUNCHES**  
 Bronze-aluminium alloy.  
 For pins Ø mm 3 4 5 6 8  
 Overall length mm 110 120 130 140 150  
**9950** Each **46,10 46,10 51,70 56,70 60,30**



Product description as Art. 9896

**BENT MARKING TOOLS**

Bronze-aluminium alloy.

Overall length	mm	<b>300</b>	<b>450</b>
<b>9951</b>	Each	<b>97,90</b>	<b>151,00</b>

SCU



**9951**

Product description as Art. 9896

**BENT SCRIBERS**

Bronze-aluminium alloy.

Overall length	mm	190
<b>9951P</b>	Each	<b>68,80</b>

SCU



**9951P**

Product description as Art. 9896

**STEEL BOWS FOR HACKSAWS**

Bronze-aluminium alloy. For saws length 300mm.

Overall length	mm	550
<b>9952</b>	Each	<b>285,00</b>

SCU



**9952**

Product description as Art. 9896

**HACKSAWS FOR METAL**

Copper-beryllium alloy.

Overall length	mm	300
Teeth per inch	No	24
<b>9954</b>	Each	<b>49,10</b>

SCU



**9954**

**Orig. Gedore - Art. GED 7240001S**

Product description as Art. 9896

**COMBINED HAMMER AND WRECKING BAR**

Bronze-aluminium alloy.

Overall length	mm	230
<b>9955</b>	Each	<b>134,00</b>

GEDORE



**9955**

**Prod. SCU**

Product description as Art. 9896

**NAIL PULLERS**

Bronze-aluminium alloy. Tipo a unghia and chisel.

Overall length	mm	<b>300</b>	<b>500</b>	<b>600</b>	<b>750</b>	<b>900</b>
<b>9956</b>	Each	<b>191,00</b>	<b>151,00</b>	<b>208,00</b>	<b>279,00</b>	<b>371,00</b>

SCU



**9956**

Product description as Art. 9896

**HEXAGONAL LEVERS**

Bronze-aluminium alloy.

Overall length	mm	<b>450</b>	<b>600</b>	<b>750</b>	<b>900</b>
Section	mm	17	19	22	22
<b>9957</b>	Each	<b>105,00</b>	<b>138,00</b>	<b>194,00</b>	<b>280,00</b>

SCU



**9957**

Product description as Art. 9896

**CROWBARS**

Bronze-aluminium alloy. Heavy type, with reinforced nail terminal.

Overall length	mm	<b>650</b>	<b>800</b>	<b>1000</b>	<b>1250</b>	<b>1500</b>
<b>9957E</b>	Each	<b>283,00</b>	<b>387,00</b>	<b>504,00</b>	<b>657,00</b>	<b>746,00</b>

SCU



**9957E**

Product description as Art. 9896

**WEDGES**

Bronze-aluminium alloy.

Type		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
Overall length	mm	100	150	150	150	180	200
Cutting width	mm	50	25	40	50	50	40
Max thickness	mm	10	13	8	13	19	40
<b>9957R</b>	Each	<b>35,30</b>	<b>31,80</b>	<b>35,30</b>	<b>60,10</b>	<b>90,10</b>	<b>168,00</b>

SCU



**9957R**



9958

SCU



Product description as Art. 9896

SPATULAS

Bronze-aluminium alloy. Semi-flexible type, with handle.

Blade width	mm	40	60	80	100
9958	Each	75,10	81,70	120,00	126,00



9958E

SCU



Product description as Art. 9896

SPATULAS

Bronze-aluminium alloy. Rigid type, with handle.

Blade width	mm	30	40	60	80	110
9958E	Each	53,40	56,10	63,60	76,30	84,10



9958F

new

SCU



Product description as Art. 9896

SPATULAS

In copper-beryllium alloy. Rigid type, with handle.

Blade width	mm	20	30	40	60	80	100
9958F	Each	32,60	35,50	39,40	51,20	75,50	80,90



9958L

SCU



Product description as Art. 9896

LONG BLADE SCRAPERS

Bronze-aluminium alloy.

Overall length	mm	370
9958L	Each	89,00



9959

SCU



Product description as Art. 9896

BRUSHES

With strong brass alloy wires, straight. 5 rows. Wire length 28mm. Dimensions 180x50mm.

9959	Each	90,10
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9959T

SCU



Product description as Art. 9896

BRUSHES WITH WOOD HANDLE

With bronze-aluminium alloy threads. 4 rankings. Threads: length 30mm.

Overall length	mm	285
9959T	Each	49,60



9960

SCU



Product description as Art. 9896

BRUSHES WITH WOOD HANDLE

With strong brass alloy wires, straight. 4 rows. Wire length 28mm.

Overall length	mm	350
9960	Each	41,30



9960E

SCU



Product description as Art. 9896

CIRCULAR BRUSHES

With bronze-aluminium wires, hole Ø 22.2mm.

Ø	mm	150
9960E	Each	248,00



9961

SCU



Product description as Art. 9896

PICKS

Bronze-aluminium alloy. Two tips, with wooden handle.

Overall length	mm	560
9961	Each	440,00
Weight	grams	2300



Product description as Art. 9896

**PICKS**

Bronze-aluminium alloy, tipped and cut, with wooden handle.

 Overall length mm 570  
 Weight grams 2400

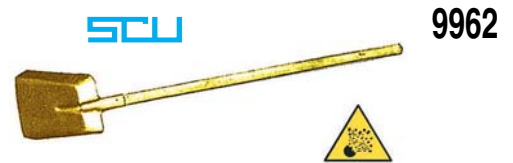
**9961E** Each **356,00**


Product description as Art. 9896

**SHOVELS**

Bronze-aluminium alloy, shovel dimensions 220x310mm, wooden handle.

Overall length mm 1300

**9962** Each **227,00**


Product description as Art. 9896

**SHOVELS**

Bronze-aluminium alloy, shovel dimensions 310x250mm, wooden handle.

Overall length mm 1450

**9962E** Each **227,00**


Product description as Art. 9896

**SMALL SHOVELS**

Bronze-aluminium alloy. Shovel dimensions 125x200mm, wooden handle.

Overall length mm 520

**9962P** Each **114,00**


Product description as Art. 9896

**UNIVERSAL BARREL OPENERS**

Bronze-aluminium alloy.

Overall length mm 380

**9963A** Each **168,00**


Product description as Art. 9896

**STANDARD BARREL OPENERS**

Bronze-aluminium alloy.

Overall length mm 370

**9963B** Each **382,00**


Product description as Art. 9896

**BARREL OPENERS, SQUARE DRIVE**

Bronze-aluminium alloy, with tap square.

Square side	mm	20	22	24	27	32
Overall length	mm	300	300	350	350	400

**9963C** Each **112,00** **133,00** **153,00** **184,00** **247,00**


Product description as Art. 9896

**BARREL CUTTERS**

Bronze-aluminium alloy.

Overall length mm 300

**9963E** Each **97,90**


Product description as Art. 9896

**DRUM HOOKS**

Bronze-aluminium alloy, load 600kg. Arms length 470mm.

**9963P** Each **414,00**


9964

SCU



Product description as Art. 9896

C-CLAMPS

Bronze-aluminium alloy. Opening 120mm.

Overall length mm 250

<b>9964</b>	Each	<b>433,00</b>
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9965

SCU



Product description as Art. 9896

BENCH ANVILS

Bronze-aluminium alloy.

Weight	Kg	<b>14</b>	<b>25</b>
	Each	<b>1.230,00</b>	<b>1.970,00</b>

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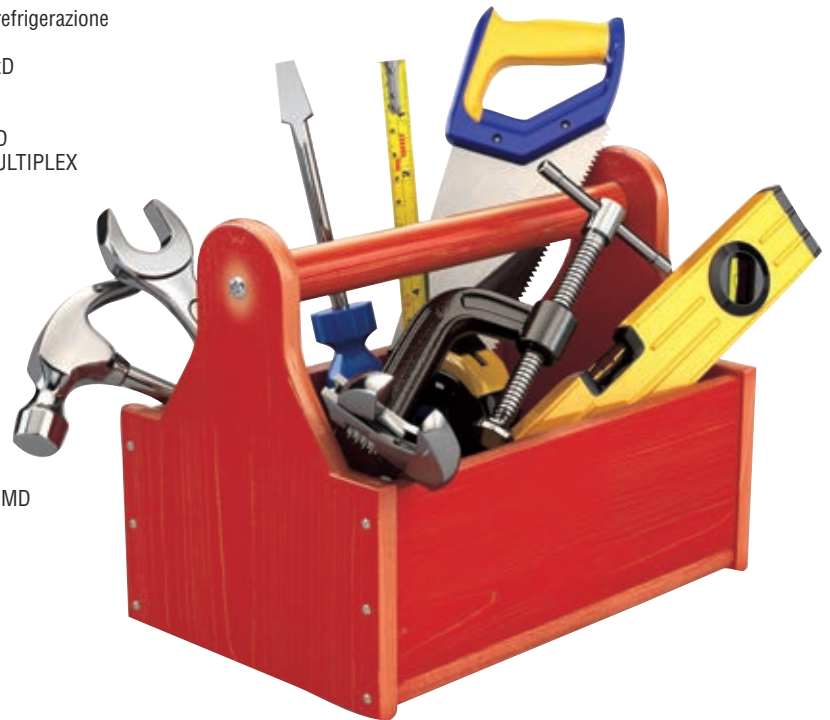
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## A cura del servizio tecnico di Sicutool

- Nr. 1 Durezza degli acciai
- Nr. 2 Conversione pollici in millimetri
- Nr. 3/a Forze di precarico e valori di serraggio (DIN 13)
- Nr. 3/b Forze di precarico, valori di serraggio (UNC-UNF) e tabelle di conversione
- Nr. 4 Viti a esagono interno
- Nr. 5 Viti a impronta TORX
- Nr. 6 Viti a taglio
- Nr. 7 Viti con impronta PHILLIPS e POZIDRIV
- Nr. 8/a Scheda di accoppiamento tra Art. 1417A - 1417F per cuscinetti a sfere Tipo 6000
- Nr. 8/b Scheda di accoppiamento tra Art. 1417G - 1417GB per cuscinetti a sfere Tipo 6000
- Nr. 9 Tabella sulla precisione delle pinze elastiche ER secondo DIN 6499-B
- Nr. 10 Valori per contropunte rotanti
- Nr. 11 Tabella attacchi per mandrini
- Nr. 12 Tabella attacchi Cono Morse
- Nr. 13/a Tenditori Art. 2150 - 2151 - 2151E - 2151T - 2152- 2153
- Nr. 13/b Redance Art. 2155 - 2158A
- Nr. 13/c Morsetti Art. 2156 - 2158B
- Nr. 13/d Grilli Art. 2157 - 2158E - 2158F
- Nr. 13/e Golfari maschi Art. 2159T - 2160 - 2160F; Golfari femmina Art. 2160T - 2161 - 2161F
- Nr. 14 Caratteristiche dei magneti di sollevamento Art. 2815Z
- Nr. 15 Giri orientativi delle seghe a tazza in acciaio HSS - bimetalliche Art. 3078GS
- Nr. 16 Giri orientativi delle seghe a tazza in HSS integrale o con inserto in MD
- Nr. 17 Spessimetri calibrati Sicutool
- Nr. 18 Seghe circolari con denti riportati in MD
- Nr. 19 Dati tecnici delle spazzole abrasive rotative
- Nr. 20 Abrasivi flessibili
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- Nr. 28 Consigli per l'impiego di punte elicoidali  $\leq 5xD$
- Nr. 29 Consigli per l'impiego di punte elicoidali  $\leq 5xD$
- Nr. 30 Consigli per l'impiego di punte elicoidali  $\leq 5xD$
- Nr. 31 Consigli per l'impiego di punte elicoidali  $\leq 10xD$
- Nr. 32 Consigli per l'impiego di punte elicoidali  $\leq 10xD$  e con fori di refrigerazione
- Nr. 33 Consigli per l'impiego di punte elicoidali  $> 10xD$
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- Nr. 36 Consigli per l'impiego di TS-Drills  $\leq 5xD$
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**DUREZZA DEGLI ACCIAI**
**Tabella N. 1**

Equivalenza fra resistenza alla trazione «R Kg/mm<sup>2</sup>»  
Durezza Brinell «HB», Rockwell «HRB» e «HRC», Vickers «HV», Shore «HS».

R Kg/mm <sup>2</sup>	HB Brinell	HRB Rockwell B	HRC Rockwell C	HV Vickers	HS Shore	R Kg/mm <sup>2</sup>	HB Brinell	HRB Rockwell B	HRC Rockwell C	HV Vickers	HS Shore
52	145	77	- 6	145	23	101	294	106	31	296	46
53	148	79	- 4	148	24	104	301	107	32	304	48
54	150	80	- 3	150	24	106	309	108	33	314	49
55	152	81	- 2	152	25	110	318	108	34	323	50
56	154	83	- 1	154	25	112	327	109	35	332	51
57	158	85	1	158	26	115	337	109	36	345	52
58	160	86	2	160	26	119	347	110	37	357	53
59	162	86	3	162	26	123	357	111	38	371	54
60	168	88	5	168	27	126	367	111	39	381	55
61	171	88	6	171	28	130	377	112	40	391	56
62	177	90	8	177	29	132	387	112	41	404	58
63	183	91	10	183	30	136	398	113	42	416	59
64	186	92	11	186	30	140	408	114	43	427	60
65	190	93	12	190	31	144	419	114	44	440	63
66	193	94	13	193	31	148	430	115	45	453	64
67	197	94	14	197	32	152	442	115	46	468	65
69	201	95	15	201	32	156	453	116	47	482	67
71	206	96	16	206	33	159	464	117	48	497	68
72	210	96	17	210	33	164	476	117	49	513	69
74	215	97	18	215	34	168	488	118	50	528	70
75	220	98	19	220	35	173	500	118	51	549	72
77	225	99	20	225	35	178	512	119	52	567	74
79	230	99	21	230	36	181	524	119	53	585	75
81	235	100	22	235	37	185	536	120	54	604	76
83	241	101	23	241	38	189	548	120	55	623	78
85	247	102	24	247	39	193	561	120	56	646	79
87	253	102	25	253	40	197	574	121	57	666	80
89	259	103	26	259	41	201	587	121	58	693	81
91	265	103	27	266	42	205	600	122	59	720	83
94	272	104	28	273	43	210	613	122	60	746	84
96	279	104	29	280	44	214	627	122	61	772	86
98	286	105	30	288	45	219	635	123	62	797	88
						224	650	123,5	63	826	90

**CONVERSIONE POLLICI IN MILLIMETRI**
**Tabella N. 2**



Pollici	0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	Pollici
<b>Millimetri</b>												
0	0	25,40	50,80	76,20	101,60	127,00	152,41	177,81	203,21	228,61	254,01	
1/32	0,79	26,19	51,59	77,00	102,40	127,80	153,20	178,60	204,00	229,40	254,80	1/32
1/16	1,59	26,99	52,39	77,79	103,19	128,59	153,99	179,39	204,79	230,20	255,60	1/16
3/32	2,38	27,78	53,18	78,58	103,98	129,39	154,79	180,19	205,59	230,99	256,39	3/32
1/8	3,17	28,58	53,98	79,38	104,78	130,18	155,58	180,98	206,38	231,78	257,18	1/8
5/32	3,97	29,37	54,77	80,17	105,57	130,97	156,37	181,77	207,18	232,58	257,98	5/32
3/16	4,76	30,16	55,56	80,96	106,37	131,77	157,17	182,57	207,97	233,37	258,77	3/16
7/32	5,55	30,96	56,36	81,76	107,16	132,56	157,96	183,36	208,76	234,16	259,56	7/32
1/4	6,35	31,75	57,15	82,55	107,95	133,35	158,75	184,16	209,56	234,96	260,36	1/4
9/32	7,14	32,54	57,95	83,35	108,75	134,15	159,55	184,95	210,35	235,75	261,15	9/32
5/16	7,94	33,34	58,74	84,14	109,54	134,94	160,34	185,74	211,14	236,55	261,95	5/16
11/32	8,73	34,13	59,53	84,93	110,33	135,74	161,14	186,54	211,94	237,34	262,74	11/32
3/8	9,52	34,93	60,33	85,73	111,13	136,53	161,93	187,33	212,73	238,13	263,53	3/8
13/32	10,32	35,72	61,12	86,52	111,92	137,32	162,72	188,13	213,53	238,93	264,33	13/32
7/16	11,11	36,51	61,91	87,32	112,72	138,12	163,52	188,92	214,32	239,72	265,12	7/16
15/32	11,91	37,31	62,71	88,11	113,51	138,91	164,31	189,71	215,11	240,51	265,91	15/32
1/2	12,70	38,10	63,50	88,90	114,30	139,70	165,11	190,51	215,91	241,31	266,71	1/2
17/32	13,49	38,89	64,30	89,70	115,10	140,50	165,90	191,30	216,70	242,10	267,50	17/32
9/16	14,29	39,69	65,09	90,49	115,89	141,29	166,69	192,09	217,50	242,90	268,30	9/16
19/32	15,08	40,48	65,88	91,28	116,68	142,09	167,49	192,89	218,29	243,69	269,09	19/32
5/8	15,87	41,28	66,68	92,08	117,48	142,88	168,28	193,68	219,08	244,48	269,88	5/8
21/32	16,67	42,07	67,47	92,87	118,27	143,67	169,07	194,48	219,88	245,28	270,68	21/32
11/16	17,46	42,86	68,26	93,67	119,07	144,47	169,87	195,27	220,67	246,07	271,47	11/16
23/32	18,26	43,66	69,06	94,56	119,86	145,26	170,66	196,06	221,46	246,86	272,26	23/32
3/4	19,05	44,45	69,85	95,25	120,65	146,05	171,46	196,86	222,26	247,66	273,06	3/4
25/32	19,84	45,24	70,65	96,05	121,45	146,85	172,25	197,65	223,05	248,45	273,85	25/32
13/16	20,64	46,04	71,44	96,84	122,24	147,64	173,04	198,44	223,85	249,25	274,65	13/16
27/32	21,43	46,83	72,23	97,63	123,04	148,44	173,84	199,24	224,64	250,04	275,44	27/32
7/8	22,23	47,63	73,03	98,43	123,83	149,23	174,63	200,03	225,43	250,83	276,23	7/8
29/32	23,02	48,42	73,82	98,22	124,62	150,02	175,42	200,83	226,23	251,63	277,03	29/32
15/16	23,81	49,21	74,61	100,02	125,42	150,82	176,22	201,62	227,02	252,42	277,82	15/16
31/32	24,61	50,01	75,41	100,81	126,21	151,61	177,01	202,41	227,81	253,22	278,62	31/32

## FORZE DI PRECARICO E VALORI DI SERRAGGIO

### Tabella N. 3/a

Le forze di precarico ( $P_V$ ) qui sotto indicate ed i momenti torcenti proposti ( $M_A$ ) sono valori puramente orientativi, applicabili a filetti metrici normali e fini conformi DIN 13, nonché a superfici d'appoggio teste conformi DIN 912, 931, 934, 6912, 7984 e 7990, come pure ai filetti in pollici UNC (grosso) ed UNF (fine). Con gli stessi si ottiene uno sfruttamento al 90% dello snervamento delle viti. Per la loro determinazione è stato supposto un coefficiente d'attrito pari a 0,14 (vite nuova, non trattata, non lubrificata).

**IMPORTANTE:** Servirsi di questa tabella solo in mancanza di prescrizioni fornite dalle case produttrici e semprechè questo alto grado di sfruttamento non pregiudichi altri elementi costruttivi quali, per esempio, le flange, le guarnizioni ecc. Ove appena possibile, si raccomanda vivamente una determinazione individuale del momento torcente partendo dalla forza di preserraggio prescelta e tenendo conto dei valori d'attrito che potrebbero anche presentare notevoli scarti (vedi tabella in calce). L'uso del  $MOS_z$ , per esempio, richiede una riduzione del 20% circa del momento torcente!

	VITI A GAMBO, filettatura normale metrica DIN 13, foglio 13 $\mu_{\text{posto}} = 0,14$													Fattore X [m] per la determinazione del valore $M_A$ (momento torcente)
	3,6		5,6		6,9		8,8		10,9		12,9			
	forza preserraggio = $P_V$ ( $F_M$ )						momento torcente = $M_A$							
	$P_V$ N	$M_A$ Nm	$P_V$ N	$M_A$ Nm	$P_V$ N	$M_A$ Nm	$P_V$ N	$M_A$ Nm	$P_V$ N	$M_A$ Nm	$P_V$ N	$M_A$ Nm		
M 2	284	0,123	378	0,162	731	0,314	863	0,373	1216	0,520	1461	0,628	4	0,00043
M 2,3	407	0,196	544	0,265	1049	0,510	1245	0,598	1755	0,843	2099	1,010	4,5	0,00048
M 2,6	525	0,284	701	0,373	1353	0,726	1598	0,863	2246	1,206	2697	1,451	5	0,00054
M 3	726	0,441	966	0,588	1863	1,128	2206	1,344	3109	1,883	3727	2,256	5,5	0,00061
M 3,5	971	0,677	1294	0,902	2501	1,736	2962	2,060	4168	2,893	5001	3,481	6	0,00070
M 4	1255	1,000	1677	1,344	3226	2,599	3825	3,040	5374	4,315	6453	5,148	7	0,00080
M 5	2059	1,961	2736	2,648	5286	5,099	6257	6,031	8806	8,483	10591	10,200	8-9	0,00096
M 6	2903	3,432	3864	4,511	7453	8,728	8836	10,300	12405	14,710	14906	17,652	10	0,00118
M 7	4236	5,590	5649	7,453	10885	14,220	12945	17,162	18191	24,517	21771	28,439	11-12	0,00131
M 8	5315	8,238	7090	10,787	13680	21,575	16230	25,497	22751	35,304	27360	42,168	13-14	0,00155
M 10	8473	16,67	11278	21,575	21771	42,168	25791	50,014	36284	70,608	43541	85,317	15-17	0,00195
M 12	12356	28,44	16475	38,246	31773	73,550	37657	87,279	52956	122,600	63547	147,10	19-21	0,00232
M 14	16965	45,11	22653	60,801	43639	116,70	51681	138,30	72667	194,20	87279	235,40	22-23	0,00270
M 16	23340	69,63	31087	93,163	60016	178,50	71196	210,80	100027	299,10	120131	357,90	24-26	0,00300
M 18	28341	95,12	37853	127,50	72961	245,20	86494	289,30	121602	411,90	146118	490,30	27	0,00335
M 20	36481	135,3	48641	180,45	93849	384,10	111305	411,90	156415	578,60	187796	696,30	30	0,00370
M 22	45601	182,4	60801	245,16	117189	470,70	139254	559,00	195642	784,50	234378	941,40	32	0,00400
M 24	52563	230,5	70019	308,91	135331	598,20	160338	711,00	225552	1000	270662	1196	36	0,00440
M 27	69235	343,2	92280	460,90	177990	887,50	210842	1049	296159	1481	355980	1775	41	0,00497
M 30	84043	465,8	112286	622,72	215745	1206	255952	1422	359902	2010	432471	2403	46	0,00550
M 33	104931	632,5	139744	848,30	269682	1628	319695	1932	449142	2716	539363	3266	50	0,00605
M 36	123073	814,0	164261	1089	316753	2099	374612	2481	527595	3491	632526	4197	55	0,00664
M 39	148080	1059	197113	1412	380496	2716	451104	3226	633506	4531	760992	5443	60	0,00715
M 42	169164	1304	225552	1746	435413	3364	515827	3991	725688	5609	870826	6727	65	0,00771
M 45	198093	1638	264778	2177	509943	4207	604087	4992	850232	7012	1019886	8414	70	0,00836
M 48	222610	1981	297140	2638	573686	5080	679597	6021	956144	8473	1147372	10150	75	0,00895
M 52	267720	2540	356960	3393	688423	6541	815909	7747	1147372	10885	1377827	13092	80	0,00961
M 56	308908	3168	411877	4227	793354	8149	940453	9650	1323891	13582	1588669	16279	85	0,01032
M 60	360883	3932	481504	5247	927704	10101	1098339	11964	1544540	16867	1853447	20202	90	0,01098
M 64	407955	4737	544266	6306	1049306	12160	1245438	14416	1750478	20300	2098612	24320	95	0,01169
M 68	467836	5780	668338	8257	1203008	14863	1425787	17615	2005013	24771	2406016	29725	100	0,01235
M 72	531574	6917	759392	9882	1366905	17787	1620036	21081	2278175	29645	2733810	35575	105	0,01301
M 76	599377	8194	856253	11706	1541255	21071	1826672	24973	2568758	35118	3082510	42141	110	0,01367
M 80	671244	9618	958921	13741	1726057	24733	2045697	29314	2876762	41222	3452115	49467	115	0,01432
M 90	868696	13953	1240994	19934	2233789	35880	2647453	42525	3722982	59801	4467578	71761	130	0,01606
M 100	1091549	19425	1559355	27750	2806839	49950	3326624	59200	4678066	83250	5613679	99900	145	0,01779

### VITI A GAMBO, filettatura fine metrica DIN 13, foglio 13 $\mu_{\text{posto}} = 0,14$

M 8 x 1				15004	22,5	17750	26,63	25007	37,51	30008	45,01	13	0,00150
M 10 x 1,25				23438	43,13	27753	51,07	39030	71,82	46777	86,07	17	0,00184
M 12 x 1,25				35794	78,39	42463	92,99	59820	131,0	71588	156,78	19	0,00219
M 12 x 1,5				33637	74,00	39913	87,81	55898	122,98	67175	147,79	19	0,00220
M 14 x 1,5				48543	123,78	57369	146,29	80904	206,30	97085	247,57	22	0,00255
M 16 x 1,5				65214	186,51	77472	221,57	108853	311,31	130428	373,02	24	0,00286
M 18 x 1,5				85317	269,6	101008	319,19	142196	449,39	170635	539,21	27	0,00316
M 20 x 1,5				107873	381,87	127486	451,30	179461	635,29	215745	763,74	30	0,00354
M 22 x 1,5				133370	505,47	157886	598,39	231629	877,87	265759	1007,23	32	0,00379
M 24 x 2				151022	640,33	179461	760,91	252030	1068,01	303024	1284,82	36	0,00424
M 27 x 2				197113	954,03	233397	1129,64	328521	1590,04	394225	1908,05	41	0,00484
M 30 x 2				248107	1324,89	294198	1571,02	413839	2209,90	496214	2649,78	46	0,00534

Le qui indicate forze di precarico  $P_V$  rappresentano valori puramente orientativi per filetti metrici normali DIN 13, foglio 13 e per quelli fini. Essi portano ad uno sfruttamento al 90% delle possibilità di snervamento. Il fattore X tiene conto di tutti i valori della geometria della filettatura delle dimensioni della superficie d'appoggio delle teste conformi DIN 912, 931, 934, 6912, 7984 e 7990. Per la sua determinazione si è supposto un coefficiente di attrito pari a

$$\mu_{\text{posto}} = 0,14$$

La formula per il calcolo del fattore X è la seguente:

$$X = 0,001 \left[ 0,159 \cdot P + \mu_{\text{posto}} \left( 0,578 \cdot d^2 + \frac{d_m}{2} \right) \right]$$

In presenza di coefficienti d'attrito di altra entità occorre ovviamente inserire il corrispondente valore a posto di quello presunto. Tenere presente, comunque, che coefficienti d'attrito estremi potrebbero richiedere variazioni del 20% dei momenti torcenti.

Quale è il momento torcente necessario per ottenere una determinata forza di precarico?

Con l'ausilio del fattore X è possibile calcolare il momento torcente  $[M_A]$  per una data forza di precarico  $[P_V]$ , seguendo la formula seguente:

$$M_A = P_V \cdot X$$

Esempio: È richiesta una forza di precarico pari a = 60.000 N. Dalla tabella si sceglie una vite M 16, classe 6,9. Il corrispondente fattore X risulta così essere 0,003 m.

$$\text{Pertanto avremo: } M_A = 60.000 \cdot 0,003 \\ M_A = 180 \text{ Nm}$$

Quale è la forza di precarico ottenibile con un dato momento torcente per una determinata vite?

Il ricorso al fattore X permette di risolvere anche questo problema impiegando la seguente formula:

$$P_V = \frac{M_A}{X}$$



Esempio: La vite M 16 è da preserrare con valore 135 Nm

$$P_V = \frac{135}{0,003} = 45.000 \text{ N}$$



FORZE DI PRECARICO E VALORI DI SERRAGGIO

Tabella N. 3/b

 -3- UNC	VITI A GAMBO, filettatura normale UNC													Fattore X [m] per la determinazione del valore M <sub>A</sub> (momento torcente)
	P				S				T					
	forza precarico = P <sub>V</sub> (F <sub>M</sub> )						momento torcente = M <sub>A</sub>							
	P <sub>V</sub> N	M <sub>A</sub> Nm	P <sub>V</sub> lbf.	M <sub>A</sub> lbf.ft.	P <sub>V</sub> N	M <sub>A</sub> Nm	P <sub>V</sub> lbf.	M <sub>A</sub> lbf.ft.	P <sub>V</sub> N	M <sub>A</sub> Nm	P <sub>V</sub> lbf.	M <sub>A</sub> lbf.ft.		
1/4"	4379	5,43	984	4,00	8320	10,3	1870	7,60	8980	11,1	2018	8,19	7/16"	0,00124
5/16"	7344	11,2	1650	8,26	13954	21,3	3136	15,71	15061	23,0	3385	16,96	1/2"	0,00153
3/8"	10951	19,9	2461	14,68	20807	37,9	5161	27,95	22458	40,9	5048	30,17	9/16"	0,00182
7/16"	15065	31,9	3386	23,53	28623	60,7	6434	44,77	30894	65,5	6945	48,31	5/8"	0,00212
1/2"	20244	48,8	4551	36,00	38463	92,7	8646	68,37	41516	100	9333	73,76	3/4"	0,00241
9/16"	26075	70,4	5861	51,92	49542	134	11137	98,83	53474	144	12021	106	7/8"	0,00270
5/8"	32452	97,4	7295	71,84	61658	185	13861	136,45	66552	200	14961	147,5	15/16"	0,00300
3/4"	49781	178	11191	131,3	94584	338	21263	249,3	102091	364	22950	268,5	1.1/8"	0,00357
7/8"	67157	279	15097	205,8	127599	530	28685	391	137725	572	30961	422	1.5/16"	0,00415
1"	88221	418	19832	303,3	167620	795	37682	586	180923	858	40673	633	1.1/2"	0,00474
1.1/8"	111007	593	24955	437,4	210913	1126	47415	830	227652	1216	51178	897	1.11/16"	0,00534
1.1/4"	142135	837	31953	617,3	270091	1591	60718	1173	291527	1717	65537	1266	1.7/8"	0,00589
1.3/8"	168641	1096	37911	808,4	320417	2083	72032	1536	345847	2248	77749	1658	2.1/16"	0,00650
1.1/2"	206578	1456	46440	1074	392498	2767	88237	2041	423648	2987	95239	2203	2.1/4"	0,00705

UNF

VITI A GAMBO, filettatura fine UNF

	P <sub>V</sub> N	M <sub>A</sub> Nm	P <sub>V</sub> lbf.	M <sub>A</sub> lbf.ft.	P <sub>V</sub> N	M <sub>A</sub> Nm	P <sub>V</sub> lbf.	M <sub>A</sub> lbf.ft.	P <sub>V</sub> N	M <sub>A</sub> Nm	P <sub>V</sub> lbf.	M <sub>A</sub> lbf.ft.		
1/4"	5232	6,28	1176	4,63	9941	11,9	2234	8,78	10730	12,9	2412	9,51	7/16"	0,00120
5/16"	8410	12,5	1891	9,22	15979	23,8	3592	17,55	17247	25,7	3877	18,96	1/2"	0,00149
3/8"	12911	22,7	2903	16,74	24531	43,2	5514	31,9	26478	46,6	5952	34,4	9/16"	0,00176
7/16"	17416	35,9	3915	26,5	33091	68,2	7439	50,3	35717	73,6	8029	54,3	5/8"	0,00206
1/2"	23685	55,4	5325	40,9	45002	105	10116	77,4	48574	114	10919	84,0	3/4"	0,00234
9/16"	30075	79,0	6761	58,3	57143	150	12846	111	61678	162	13865	119	7/8"	0,00263
5/8"	38156	111	8578	81,9	72496	210	16297	155	78250	227	17591	167	15/16"	0,00290
3/4"	56078	195	12607	144	106549	370	23953	273	115005	399	25854	294	1.1/8"	0,00347
7/8"	76297	309	17152	228	144965	587	32589	433	156470	634	35175	468	1.5/16"	0,00405
1"	99200	459	22301	339	188480	873	42371	644	203439	942	45734	695	1.1/2"	0,00463
1.1/8"	128738	667	28941	492	244602	1267	54988	934	264015	1368	59352	1009	1.11/16"	0,00518
1.1/4"	161358	925	36275	682	306580	1757	68921	1296	330911	1896	74391	1398	1.7/8"	0,00573
1.3/8"	199331	1252	44811	923	378728	2378	85141	1754	408786	2567	91898	1893	2.1/16"	0,00628
1.1/2"	240377	1642	54039	1211	456717	3119	102673	2300	492965	3367	110822	2482	2.1/4"	0,00683

CONVERSIONE NEWTON\*METRO Nm IN KILOPOUND\*METRO kpm  
(1 Nm = 0,102 kpm)

Nm	0	10	20	30	40	50	60	70	80	90
0	0,00	1,02	2,04	3,06	4,08	5,10	6,12	7,14	8,16	9,18
100	10,20	11,22	12,24	13,26	14,28	15,30	16,31	17,33	18,35	19,37
200	20,39	21,41	22,43	23,45	24,47	25,49	26,51	27,53	28,55	29,57
300	30,59	31,61	32,63	33,65	34,67	35,69	36,71	37,73	38,75	39,77
400	40,79	41,81	42,83	43,85	44,87	45,89	46,91	47,93	48,95	49,97
500	50,99	52,00	53,02	54,04	55,06	56,08	57,10	58,12	59,14	60,16
600	61,18	62,20	63,22	64,24	65,26	66,28	67,30	68,32	69,34	70,36
700	71,38	72,40	73,42	74,44	75,46	76,48	77,50	78,52	79,54	80,56
800	81,58	82,60	83,62	84,64	85,66	86,68	87,70	88,71	89,73	90,75
900	91,77	92,79	93,81	94,83	95,85	96,87	97,89	98,91	99,93	100,95
1000	101,97	102,99	104,01	105,03	106,05	107,07	108,09	109,11	110,13	111,15

CONVERSIONE NEWTON\*METRO Nm IN POUNDS\*FOOT lbf.ft.  
(1 Nm = 0,738 lbf.ft.)

Nm	0	1	2	3	4	5	6	7	8	9
0	0	0,74	1,48	2,21	2,95	3,69	4,43	5,17	5,90	6,64
10	7,38	8,12	8,86	9,59	10,33	11,07	11,81	12,54	13,28	14,02
20	14,76	15,50	16,24	16,97	17,71	18,45	19,19	19,93	20,66	21,40
30	22,14	22,88	23,62	24,35	25,10	25,83	26,57	27,31	28,04	28,78
40	29,52	30,26	31,00	31,73	32,47	33,21	33,95	34,69	35,42	36,16
50	36,90	37,64	38,38	39,11	39,85	40,59	41,33	42,07	42,80	43,54
60	44,28	45,02	45,76	46,49	47,23	47,97	48,71	49,45	50,18	50,92
70	51,66	52,40	53,14	53,87	54,61	55,35	56,09	56,83	57,56	58,30
80	59,04	59,78	60,52	61,25	62,00	62,73	63,47	64,21	64,94	65,68
90	66,42	67,16	67,90	68,63	69,37	70,11	70,85	71,59	72,32	73,06
100	73,80	74,54	75,28	76,01	76,75	77,49	78,23	78,97	79,70	80,44

CONVERSIONE POUNDS\*FOOT lbf.ft. IN NEWTON\*METRO Nm  
(1 lbf.ft. = 1,356 Nm)

lbf.ft.	0	1	2	3	4	5	6	7	8	9
0	0	1,36	2,71	4,07	5,42	6,78	8,14	9,49	10,85	12,20
10	13,56	14,92	16,27	17,63	18,98	20,34	21,70	23,05	24,41	25,76
20	27,12	28,48	29,83	31,19	32,54	33,90	35,26	36,61	37,97	39,32
30	40,68	42,04	43,39	44,75	46,10	47,46	48,82	50,17	51,53	52,88
40	54,24	55,60	56,95	58,31	59,66	61,02	62,38	63,73	65,09	66,44
50	67,80	69,16	70,51	71,87	73,22	74,58	75,94	77,29	78,65	80,00
60	81,36	82,72	84,07	85,43	86,78	88,14	89,50	90,85	92,21	93,56
70	94,92	96,28	97,63	98,99	100,34	101,70	103,06	104,41	105,77	107,12
80	108,48	109,84	111,19	112,55	113,90	115,26	116,62	117,97	119,33	120,68
90	122,04	123,40	124,75	126,11	127,46	128,82	130,18	131,53	132,89	134,24
100	135,60	136,96	138,31	139,67	141,02	142,38	143,74	145,09	146,45	147,80

(1 lbf.ft. = 12 lbf.in.)

FATTORI DI CONVERSIONE DEL MOMENTO TORCENTE  
UNITÀ DATA X FATTORE=UNITÀ RICHIESTA

unità data	Unità richiesta					
	= Ncm	= Nm	= kpcm	= kpm	= lbf.in.	= lbf.ft.
Ncm	1	0,01	0,10197	0,00102	0,0885	0,00738
Nm	100	1	10,197	0,10197	8,851	0,7376
kpcm	9,807	0,09807	1	0,01	0,868	0,0723
kpm	980,7	9,807	100	1	86,796	7,233
lbf.in.	11,298	0,11298	1,152	0,01152	1	0,0833
lbf.ft.	135,58	1,3558	13,825	0,13825	12	1

TABELLA PER COEFFICIENTI DI ATTRITO CON μ<sub>posto</sub>






Vite	Condizioni della superficie		μ <sub>posto</sub> allo stato di lubrificazione		MOS <sub>2</sub>
	dado		non lubrificato	oleato	
fosfatizzata al mn	non trattato		0,14 - 0,18	0,14 - 0,15	0,10 - 0,12
non trattata	non trattato		0,14 - 0,18	0,14 - 0,17	
fosfatizzata allo Zn	non trattato		0,14 - 0,21	0,14 - 0,17	
galv. zincato ca. 8 μm	non trattato		0,125 - 0,18	0,125 - 0,17	
galv. cadmiato ca. 7 μm	non trattato		0,08 - 0,12	0,08 - 0,11	
galv. zincato ca. 8 μm	galv. zincato ca. 5 μm		0,125 - 0,17	0,14 - 0,19	
galv. cadmiato ca. 7 μm	galv. cadmiato ca. 6 μm		0,08 - 0,12	0,10 - 0,15	

## VITI A ESAGONO INTERNO






### Tabella N. 4

Diametro viti corrispondente all'inserto esagonale

#### Misure metriche

 Ø Viti mm	 mm		
	 Viti a testa cilindrica	 Viti a testa fresata	 Viti senza testa ISO 4026
	1,6	1,5	
2	1,5		0,9
2,5	2		1,3
3	2,5	2	1,5
4	3	2,5	2
5	4	3	2,5
6	5	4	3
8	6	5	4
10	8	6	5
12	10	8	6
14	12	10	
16	14	10	8
18	14		
20	17	12	10
22	17		
24	19		12
27	19		
30	22		
33	24		
36	27		
42	32		

#### Misure in pollici / millimetri







 Ø Viti	 "						
	 Viti a testa cilindrica		 Viti a testa fresata		 Viti senza testa ISO 4026		
	"	mm	"	mm	"	mm	
n° 0	1,52	0,50	1,27	,035	0,89	,028	0,711
n° 1	1,85	1/16	1,59	,050	1,27	,035	0,89
n° 2	2,18	5/64	1,98	,050	1,27	,035	0,89
n° 3	2,51	5/64	1,98	1/16	1,59	,050	1,27
n° 4	2,84	3/32	2,38	1/16	1,59	,050	1,27
n° 5	3,17	3/32	2,38	5/64	1,98	1/16	1,59
n° 6	3,5	7/64	2,78	5/64	1,98	1/16	1,59
n° 7	3,5	1/8	3,17				
n° 8	4,16	9/64	3,57	3/32	2,38	5/64	1,98
n° 10	4,82	5/32	3,97	7/64	2,78	3/32	2,38
n° 10	4,82			1/8	3,17		
1/4	6,35	3/16	4,75	9/64	3,57	7/64	2,78
1/4	6,35	7/32	5,55	5/32	3,97	1/8	3,17
5/16	7,94	1/4	6,35	3/16	4,75	9/64	3,57
5/16	7,94					5/32	3,97
3/8	9,52	5/16	7,94	7/32	5,55	3/16	4,75
7/16	11,11	3/8	9,52	1/4	6,35	7/32	5,55
1/2	12,7	3/8	9,52	5/16	7,94	1/4	6,35
5/8	15,87	1/2	12,7	3/8	9,52	5/16	7,94
3/4	19,05	5/8	15,88	1/2	12,7	3/8	9,52
7/8	22,2	3/4	19,05	9/16	14,29	1/2	12,7
1	25,4	3/4	19,05	5/8	15,88	9/16	14,29
1"1/8	28,57	7/8	22,2	3/4	19,05	9/16	14,29
1"1/4	31,75	7/8	22,2	7/8	22,2	5/8	15,88
1"3/8	34,92	1"	25,4	7/8	22,2	5/8	15,88
1"1/2	38,10	1"	25,4	1"	25,4	3/4	19,05

## VITI CON IMPRONTA TORX

### Tabella N. 5

Diametro viti corrispondente all'impronta TORX

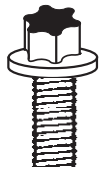



Corrispondenza diametro della vite e chiave maschio TORX®

 Ø Viti mm	 Torx			
	 Testa cilindrica	 Testa bombata	 Testa fresata	 Senza testa
	2		T6	T6
2,5	T8	T8	T8	
3	T10	T10	T10	T6
3,5		T10	T10	
4	T25	T20	T20	T8
5	T25	T20	T20	T10
6	T30	T30	T30	T20
8	T40	T40	T40	T27
10	T50	T50	T50	T30
12	T55	T55	T55	T45
16	T60	T60	T60	T50

Identificazione dell'impronta maschio






Torx	mm
T6	1,70
T8	2,31
T10	2,74
T15	3,27
T20	3,86
T25	4,43
T27	4,99
T30	5,52
T40	6,66
T45	7,82
T50	8,83
T55	11,22
T60	13,25





Corrispondenza diametro delle viti e bussole TORX®





 Ø Viti mm		
	 ISO 4014 ISO 4017	 Collarino largo
3	E4	
4	E5	E6
5	E6	E8
6	E8	E10
8	E10	E12
10	E12	E14
12	E14	E18
14	E18	E20
16	E20	

**VITI A TAGLIO**
**Tabella N. 6**

Diametro viti corrispondente al taglio dei giraviti






 Ø Viti mm	PER METALLO			
				
	Testa piana	Testa bombata	Testa cilindrica	Testa larga cilindrica
	e x A	e x A	e x A	e x A
1,6	0,4x2,5	0,4x2,5	0,4x2	0,4x2
2	0,5x3	0,5x3	0,4x2,5	0,4x2,5
2,5	0,6x3,5	0,6x3,5	0,5x3	0,5x3
3	0,8x4	0,8x4	0,6x3,5	0,6x3,5
3,5	1,0x5,5	1,0x5,5	0,8x4	0,8x4
4	1,2x6,5	1,2x6,5	1,0x5,5	1,0x5,5
5	1,2x8	1,2x8	1,2x6,5	1,2x6,5
6	1,6x10	1,6x10	1,2x8	1,2x8
8	2,0x12	2,0x12	1,6x8	1,6x10
10	2,5x14	2,5x14	2,0x12	2,0x12





 Ø Viti	PER LAMIERA		
			
	Testa piana	Testa bombata	Testa larga cilindrica
	e x A	e x A	e x A
ST.2,2	0,5x3	0,5x3	0,5x3
ST.2,9	0,8x4	0,8x4	0,8x4
ST.3,5	1x5,5	1x5,5	1x5,5
ST.4,2	1,2x6,5	1,2x6,5	1,2x6,5
ST.4,8	1,2x8	1,2x8	1,2x8
ST.5,5	1,6x10	1,6x10	1,6x10
ST.6,3	1,6x10	1,6x10	1,6x10
ST.8	2x12	2x12	2x12
ST.9,5	2,5x14	2,5x14	2,5x14

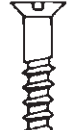



 Ø Viti mm	PER LEGNO		
			
	Testa piana	Testa bombata	Testa tonda
	e x A	e x A	e x A
1,6	0,4x2,5		0,4x2
2	0,5x3	0,5x3	0,5x3
2,5	0,6x3,5	0,6x3,5	0,6x3,5
3	0,8x4	0,8x4	0,8x4
3,5	1,0x5,5	1,0x5,5	1,0x5,5
4	1,2x6,5	1,2x6,5	1,2x6,5
4,5	1,2x8	1,2x8	1,2x6,5
5	1,2x8	1,2x8	1,2x8
6	1,6x10	1,6x10	1,6x10
7	2,0x12		2,0x12
8	2,0x12		2,0x12

**VITI CON IMPRONTA PHILLIPS E POZIDRIV**
**Tabella N. 7**

Diametro viti corrispondente all'impronta dei giraviti

 Ø Viti mm	PER METALLO			
				
	Testa piana ISO 7046	Testa bombata ISO 7047	Testa cilindrica bombata ISO 7045	Testa bombata larga
	N°	N°	N°	N°
1,6	0	0	0	—
2	0	0	0	—
2,5	1	1	1	—
3	1	1	1	1
3,5	2	2	2	2
4	2	2	2	2
4,5	2	2	2	—
5	2	2	2	2
6	3	3	3	3
8	4	4	4	4
10	4	4	4	—

 Ø Viti	PER LAMIERA		
			
	Testa bombata ISO 7050	Testa cilindrica ISO 7049	Testa bombata larga
	ISO 7051		
	N°	N°	N°
ST.2,2	0	0	0
ST.2,9	1	1	1
ST.3,5	2	2	2
ST.4,2	2	2	2
ST.4,8	2	2	2
ST.5,5	3	3	3
ST.6,3	3	3	3
ST.8	4	4	4
ST.9,5	4	4	4

 Ø Viti mm	PER LEGNO		
			
	Testa piana	Testa bombata	Testa tonda
	N°	N°	N°
2,2	0	0	0
2,5	1	1	1
3	1	1	1
3,5	2	2	2
4	2	2	2
4,5	2	2	2
5	2	2	2
6	3	3	3
8	4	4	4
10	4	4	4

**SCHEDA DI ACCOPPIAMENTO TRA ART. 1417A - 1417F per cuscinetti a sfere Tipo 6000**
**Tabella N. 8/a**

BRACCI grand. N°	11	12	13	14	15	16	17	18
Estrattori grand. N° 1	6000/1/2	6003/4/5 6200/1/2						
Estrattori grand. N° 2			6006 6203	6007/8/9/10 6204/5 6300/1/2	6303/4			
Estrattori grand. N° 3					6011/12	6206/7/8 6305		
Estrattori grand. N° 4						6209/10	6211/12 6308* 6404/5	
Estrattori grand. N° 5							6309*/10*/11* 6406*	

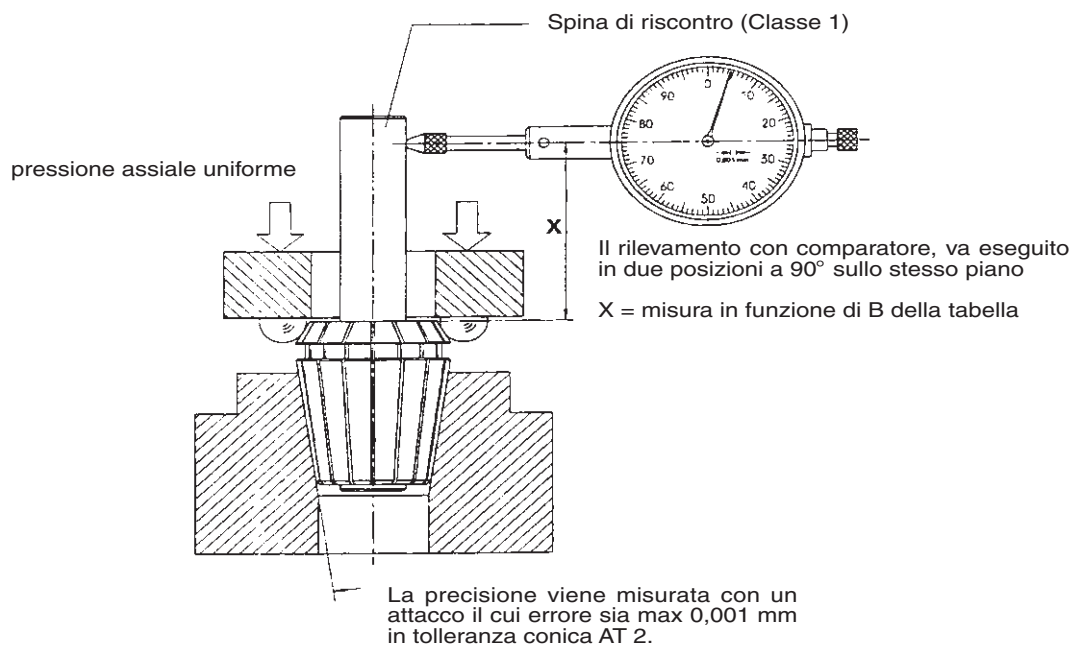
\* Per l'estrazione di questi cuscinetti si utilizzano anelli di ancoraggio.

**SCHEDA DI ACCOPPIAMENTO TRA ART. 1417G - 1417GB per cuscinetti a sfere Tipo 6000**
**Tabella N. 8/b**

BRACCI grand. N°	11	12	13	14	15	16	17	18
Estrattori grand. N° 1	6000/1/2/3 6200	6004/5 6201/2						
Estrattori grand. N° 2			6006-6203 6300	6007-6204 6301/2	6303/4			
Estrattori grand. N° 3				6008 6205	6206	6207-6305		
Estrattori grand. N° 4					6009		6208-6306	6403/4/5
Estrattori grand. N° 5					6010	6011/12/13		6209/10/11/12 6307/8/9/10/11 6406/7/8

**TABELLA SULLA PRECISIONE DELLE PINZE ELASTICHE ER  
Secondo DIN 6499-B**
**Tabella N. 9**

B = spine Ø mm	x mm	DIN 6499-B		FAHRION	
		Classe 1	Classe 2	Prod. Standard	Prod. Super
oltre 1 fino a 1,6	2-3	0,015	0,01	0,006	0,003
oltre 1,6 fino a 3,0	10				
oltre 3,0 fino a 7,0	16				
oltre 7,0 fino a 10,0	25				
oltre 10,0 fino a 18,0	40	0,020	0,015		
oltre 18,0 fino a 24,0	50			0,015	
oltre 24,0 fino a 34,0	60	0,025	0,020		



La valutazione corretta della precisione di rotazione degli utensili, va ricercata nel complesso degli accoppiamenti presenti sul centro di lavoro costituiti da: montante della macchina, attacco mandrino, mandrino, pinze elastiche, utensili.

**VALORI PER CONTROPUNTE ROTANTI TRA VELOCITA' DI ROTAZIONE (N° GIRI AL MINUTO) E PORTATA MASSIMA IN KG IN RAPPORTO ALLA PRESSIONE RADIALE E ASSIALE**

Tabella N. 10

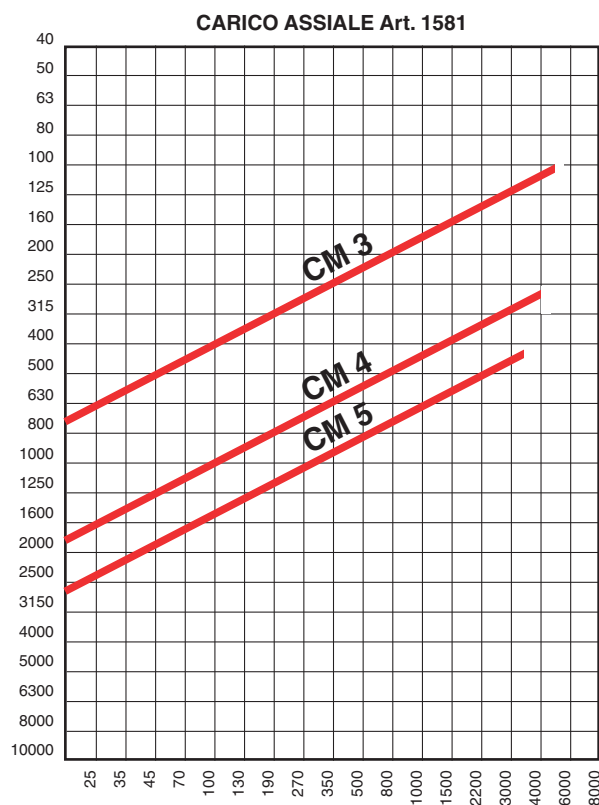
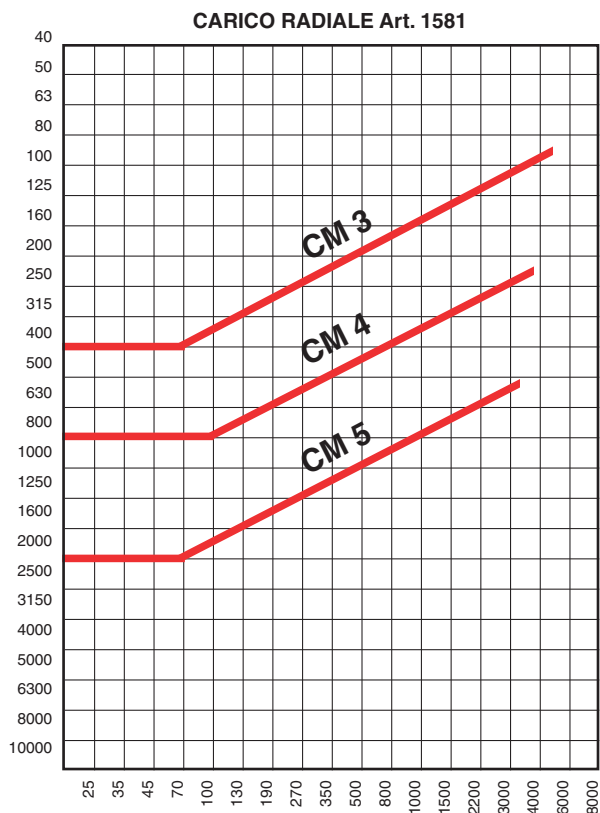


Tabella N. 11

TABELLA ATTACCHI PER MANDRINI					
Mandrino		Cono DIN 238/1		Cono JACOBS - UNI 5887/66	
Tipo	Ø mm	D	L	D	L
B 10 e J 1	0-6,5	10,094	18	9,754	20,2
B 12 e J 2G	0-8	12,065	22	13,940	22,5
B 16 e J 2	0-10	15,733	29	14,199	25,7
B 16 e J 6	1-13	15,733	29	17,170	30,4
B 18 e J 6	3-16	17,780	37	17,170	30,4
B 22	5-20	21,793	45,5	—	—
B 24	6-26	23,825	55,5	—	—

Tabella N. 12

TABELLA ATTACCHI CONO MORSE											
DIMENSIONE ATTACCHI CONO MORSE											
Gr.	Conicità	A	B (max)	C (max)	D (max)	E (max)	F	G	H	J	K
0	19.212:1	9.045	56.5	59.5	10.5	6	4	1	3	3.9	1° 29' 27"
1	20.047:1	12.065	62	65.5	13.5	8.7	5	1.2	3.5	5.2	1° 25' 43"
2	20.020:1	17.780	75	80	16	13.5	6	1.6	5	6.3	1° 25' 50"
3	19.922:1	23.825	94	99	20	18.5	7	2	5	7.9	1° 26' 16"
4	19.254:1	31.267	117.5	124	24	24.5	8	2.5	6.5	11.9	1° 29' 15"
5	19.002:1	44.399	149.5	156	29	35.7	10	3	6.5	15.9	1° 30' 26"
6	19.180:1	63.348	210	218	40	51	13	4	8	19	1° 29' 36"
7	19.231:1	83.058	285.75	294.1	34.9	-	-	19.05	-	19	1° 29' 22"

**TENDITORI Art. 2150 - 2151 - 2151E - 2151T - 2152- 2153**
**Tabella N. 13/a**
**ISTRUZIONI PER IL CORRETTO UTILIZZO DEI TENDITORI**

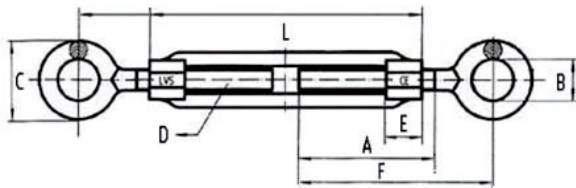
1. I tenditori devono essere usati solo per tiro diritto od allineato, prestando particolare attenzione per prevenire sovraccarichi.
2. In caso di deformazione ridurre immediatamente la tensione e sostituire le parti deformate.
3. I carichi indicati in tabella devono essere applicati in modo stabile affinché i valori riportati siano validi.
4. Nel caso in cui i tenditori vengano sottoposti a sollecitazioni di tipo dinamico i valori dei carichi di lavoro riportati in tabella (WLL) non sono applicabili.
5. L' utilizzo ideale prevede l' applicazione di funi od altri componenti in modo tale da evitare i cosiddetti fenomeni di intaglio.
6. Durante l' utilizzo applicare i carichi in modo graduale.
7. I tenditori non sono predisposti per il sollevamento.
8. Non utilizzare pezzi che presentino segni evidenti di usura, deformazioni o cricche.
9. Controllare attentamente il prodotto prima di ogni utilizzo.
10. L' utilizzo con temperature inferiori a -20°C e superiori a + 80° C può risultare compromesso.
11. Ogni modifica, trattamento o lavorazione successiva alla vendita esonerano Sicutool da ogni responsabilità.
12. Le misure sono espresse in millimetri (mm).

**LEGENDA**

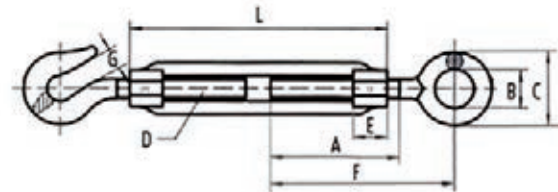
**WLL = (working load limit) carico di lavoro massimo in tons**

**BL = coefficiente di sicurezza;** il valore del **BL** è soltanto un' indicazione per la sicurezza del prodotto.

I carichi (WLL) indicati in tabella **non devono essere mai superati in alcun caso.**

**TENDITORI FORGIATI A DUE OCCHI ZINCATI  
ART. 2150**


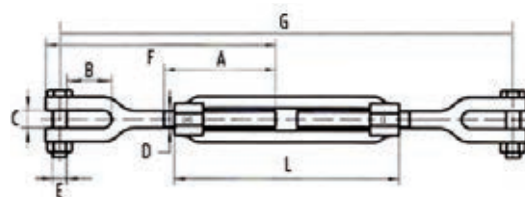
D	D''	A	B	C	E	F	L	WLL	BL	Peso Cad. g
5	3/16	35	8	16	9	49	70	0,10	4	52
6	1/4	44	11	19	10	59,5	90	0,15	4	97
8	5/16	52	11	22	13	71	110	0,30	4	155
10	3/8	62	14	28	14	90	125	0,47	4	282
11	7/16	68	15	33	18	90	125	0,58	4	331
12	1/2	70	16	33	18	91,5	140	0,65	4	402
14	9/16	85	18	36	20	113	170	0,80	4	586
16	5/8	90	23,5	48	22	132	190	1,25	4	912
18	11/16	98	25	51	27	135,5	200	1,50	4	1242
20	3/4	105	26	57	27	156,5	220	1,80	4	1572
22	7/8	118	28	60	28	160	240	2,25	4	1993
24	1	130	28	65	30	179,5	260	2,80	4	2765
27	1.1/8	135	31	71	49	188,5	300	3,50	4	3800
30	1.3/16	135	31	71	56	188,5	310	4	4	4250
33	1.1/4	148	36	88	56	201	310	4,50	4	5550
36	1.3/8	158	38	94	55	230	295	5	4	8650
39	1.1/2	170	42	104	58	238	330	6	4	9670
42	1.5/8	170	50	110	66	245	340	7	4	11200
45	1.3/4	170	50	110	66	245	340	8	4	13000

**TENDITORI FORGIATI AD OCCHIO  
E GANCIO ZINCATI  
ART. 2151**


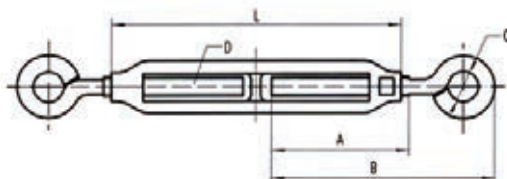
D	D''	A	B	C	E	G	F	L	WLL	BL	Peso Cad. g
5	3/16	35	8	16	9	7	49	70	0,025	4	50
6	1/4	44	11	19	10	8	59,5	90	0,045	4	94
8	5/16	52	11	22	13	10	71	110	0,075	4	158
10	3/8	62	14	28	14	12	90	125	0,115	4	286
11	7/16	68	15	33	18	15	90	125	0,14	4	336
12	1/2	70	16	33	18	15	91,5	140	0,15	4	415
14	9/16	85	18	36	20	17	113	170	0,21	4	600
16	5/8	90	23,5	48	22	19	132	190	0,34	4	930
18	11/16	98	25	51	27	20	135,5	200	0,45	4	1280
20	3/4	105	26	57	27	20	156,5	220	0,65	4	1630
22	7/8	118	28	60	28	23	160	240	0,90	4	2215
24	1	130	28	65	30	25	179,5	260	1,20	4	3030
27	1.1/8	135	31	71	49	31	188,5	300	1,40	4	4200
30	1.3/16	135	31	71	56	31	188,5	310	1,50	4	4420
33	1.1/4	148	36	88	56	34	201	310	1,80	4	5965
36	1.3/8	158	42	94	55	44	230	295	2	4	8555
39	1.1/2	170	49	104	58	44	238	330	2,50	4	9670

**TENDITORI FORGIATI A DUE GANCI ZINCATI  
ART. 2151E**

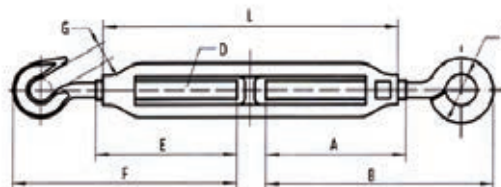

D	D''	A	B	C	E	L	WLL	BL	Peso Cad. g
5	3/16	35	63	7	9	70	0,025	4	49
6	1/4	44	75	8	10	90	0,045	4	91
8	5/16	52	94	10	13	110	0,075	4	162
10	3/8	62	117	12	14	125	0,115	4	282
11	7/16	68	122	15	18	125	0,14	4	330
12	1/2	70	125	15	18	140	0,15	4	426
14	9/16	85	152	17	20	170	0,21	4	615
16	5/8	90	154	19	22	190	0,34	4	950
18	11/16	98	185	20	27	200	0,45	4	1200
20	3/4	105	198	20	27	220	0,65	4	1680
22	7/8	118	228	23	28	240	0,90	4	2440
24	1	130	250	25	30	260	1,20	4	3290
27	1.1/8	135	270	31	49	300	1,40	4	4610
30	1.3/16	135	270	31	56	310	1,50	4	4790
33	1.1/4	148	300	34	56	310	1,80	4	6380
36	1.3/8	158	275	158	55	295	2	4	6380
39	1.1/2	170	286	170	58	330	2,50	4	9475

**TENDITORI FORGIATI A DUE FORCELLE ZINCATI  
ART. 2151T**


D	D''	A	B	C	E	F	G	L	WLL	BL	Peso Cad. g
10	3/8	65	26	10,5	M8	132	248	125	0,45	4	342
12	1/2	70	33	14	M10	157	294	140	0,65	4	550
14	9/16	85	38	18	M12	185	342	170	0,75	4	720
16	5/8	95	38	18	M14	185	362	190	1	4	1220
20	3/4	110	42	22	M16	205	378	220	1,40	4	2000
22	7/8	120	47	23,5	M18	230	420	240	1,80	4	2890
24	1	130	47	23,5	M20	230	440	260	2	4	4050
27	1.1/8	150	50	28	M24	270	492	300	2,25	4	5680
30	1.3/16	155	70	38	M27	310	564	310	2,80	4	7790
33	1.1/4	220	70	38	M30	378	566	310	3,20	4	8140

**TENDITORI A DUE OCCHI ACCIAIO INOX 316  
Art. 2152**


D	D''	A	B	C	L	Peso Cad. g
4	5/32	31	49	7	60	30
5	3/16	35	58	8	70	46
6	1/4	44	71	10	90	83
8	5/16	59	95	14	120	162
10	3/8	73	116	16	150	293
12	1/2	95	146	18	200	560
16	5/8	116	187	22	250	1180
20	3/4	145	230	28	300	2265

**TENDITORI AD OCCHIO E GANCIO ACCIAIO INOX 316  
ART. 2153**


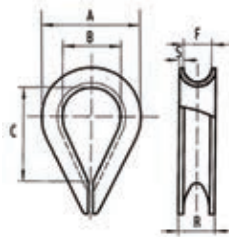
D	D''	A	B	C	E	F	G	L	Peso Cad. g
4	5/32	31	49	7	31	51	8	60	30
5	3/16	35	58	8	35	61	9	70	45
6	1/4	44	71	10	44	73	9	90	81
8	5/16	59	95	14	59	100	11	120	160
10	3/8	73	116	16	73	120	13	150	288
12	1/2	95	146	18	95	156	15	200	555
16	5/8	116	187	22	116	187	16,5	250	1165
20	3/4	145	230	28	145	215	22	300	2250

**REDANCE Art. 2155 - 2158A**

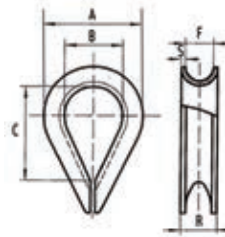
Tabella N. 13/b

**ISTRUZIONI PER IL CORRETTO UTILIZZO DELLE REDANCE PER FUNE METALLICA**

1. La fune metallica deve aderire perfettamente alla gola delle redance.
2. Per funi metalliche di diametro pari a misure intermedie delle redance utilizzare sempre la misura successiva (Esempio: per funi di diametro mm. 11 utilizzare redance mm. 12).
3. Non utilizzare redance che presentino segni evidenti di usura o cricche.
4. Controllare attentamente il prodotto prima di ogni utilizzo.
5. L' utilizzo con temperature inferiori a -20°C e superiori a + 80° C può risultare compromesso.
6. Ogni modifica, trattamento o lavorazione successiva alla vendita esonerano Sicutool da ogni responsabilità.
7. Le misure sono espresse in millimetri (mm).

**REDANCE ZINCATE**  
**Art. 2155**


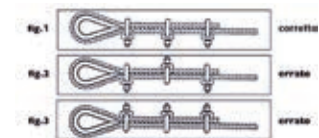
F	A	B	C	R	S	Peso Cad. g
2/3	16	9	15	5,2	0,6	2,4
4	17,5	11	19,2	6	0,8	3,2
5	20	14	22	6,8	0,9	4
6	24	16	27,8	8	1	7
8	28,5	18,5	33,8	11,4	1,4	14
10	38	24	38	14	1,5	26
12	46	30	44	15,6	1,8	44
14	50	33	49	18,0	2,0	61
16	59	40	57	20,0	2,0	83
18	69	46	68	23,0	2,5	135
20	77	51	78	26,0	3,0	215
22	84	56	88	28,0	3,0	225
24/25	91	60	92	32,0	3,5	330
28	115	75	109	36,0	4,0	575

**REDANCE TIPO LEGGERO A316**  
**Art. 2158A**


F	A	B	C	R	S	Peso Cad. g
2	14	9	15	4	1,0	2
2,5	15,5	9,5	15,2	4,5	1,0	2,3
3	16	10	16	5	1,0	2,8
4	18	11	17	6	1,1	3,8
5	20	13	20	7	1,1	5
6	25	16	25	9	1,2	9
7	28	18	28	10	1,5	14
8	32	20	32	11	1,6	18
10	40	26	40	14	1,8	35
12	45	28	45	17	2,0	49,7
14	50	34	56	19	2,5	86,5
16	54	37	62	22	2,8	124,5
18	65	42	65	25	3,0	151
20	70	45	78	27	3,0	189

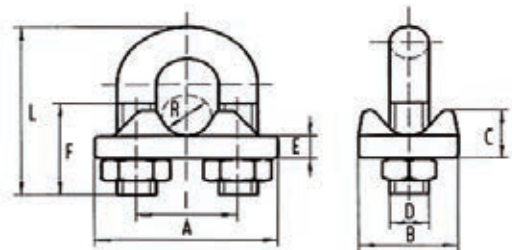
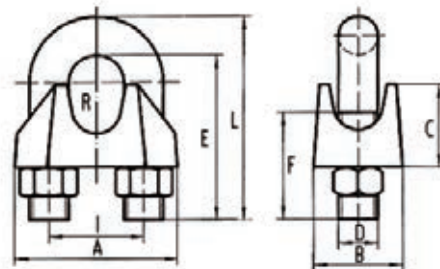
**MORSETTI Art. 2156 - 2158B**
**Tabella N. 13/c**
**ISTRUZIONI PER IL CORRETTO UTILIZZO DEI MORSETTI PER FUNE METALLICA**

1. Nel montaggio con funi metalliche posizionare i morsetti come in figura 1, poiché negli altri casi rappresentati (figura 2 e figura 3) l'efficienza dell'attacco diminuisce del 60% rispetto al carico di rottura della fune utilizzata.
2. Montare i morsetti in modo che il primo sia posto vicino all'asola dove alloggia la redancia ed i successivi ad una distanza tra loro pari a 6/8 volte il diametro della fune.
3. Dopo l'applicazione del carico sulla fune i dadi vanno di nuovo serrati.
4. Rispetto al diametro della fune si raccomanda di montare un numero di morsetti non inferiore a quello indicato in tabella.
5. L'utilizzo con temperature inferiori a -20°C e superiori a +80°C può risultare compromesso.
6. Non utilizzare morsetti che presentino segni evidenti di usura.
7. Controllare attentamente il prodotto prima di ogni utilizzo.
8. Ogni modifica, trattamento o lavorazione successiva alla vendita esonerano Sicutool da ogni responsabilità.
9. Le misure sono espresse in millimetri (mm).


**LEGENDA**

**S** = coppia di serraggio in Nm calcolata con coefficiente di attrito pari a 0,10 in condizioni ottimali  
**T** = n° minimo di morsetti da utilizzare secondo il diametro della fune.



**MORSETTI FORGIATI ZINCATI  
ART. 2156**

**MORSETTI COMMERCIALI TIPO DIN 741  
ACCIAIO INOX 316 ART. 2158B**


Ø R	Ø R"	A	B	C	D	E	I	F	L	S		T	Peso Cad. g
										Min	Max		
2-3	1/8	21	12	9	M4	5	9	12	20	1,6	1,9	3	14
4-5	3/16	25	18	9	M5	5	11	14	25	3,1	3,8	3	28
6	1/4	30	19	10	M6	6	15	19	33	5,3	6,5	4	43
8	5/16	33	20	10,5	M6	6	16	22	35	5,3	6,5	4	47
10	3/8	38	22	11	M8	6	19	22	43	13	16	4	80
11	7/16	40	22,5	13	M8	6	21	23	43	13	16	4	82
12	1/2	43	25	13	M10	6	23	30	55	25	31	5	131
14	9/16	46	27	17	M10	7,5	25	30	55	25	31	5	154
16	5/8	53	31	18	M10	8	28	32	63	25	31	5	197
18	11/16	59	33	20	M12	8	30	38	78	43	53	5	271
20	3/4	60	34	22	M12	9	33	38	78	43	53	5	321
22	7/8	64	34	23	M12	9,5	37	42	80	43	53	6	382
24-25	1	70	40	24	M12	10	40	46	88	43	53	6	410
26-28	1.1/8	80	43	30	M14	12	42	50	97	68	84	7	640
30-32	1.1/4	92	45	34	M16	14	49	70	130	106	132	8	857
36-38	1.1/2	95	51	39	M16	16	57	75	135	106	132	8	1100
42-45	1.3/4	115	58	43	M20	16	70	83	158	208	258	10	1660
48-50	2	116	59	46	M20	16	70	83	178	208	258	10	1800

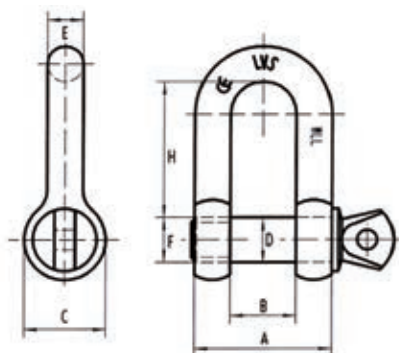
Ø R	Ø R"	A	B	C	D	E	F	I	L	T	Peso Cad. g
3	1/8	21	10	10	M4	16	12	9	19,5	3	10,5
4	5/32	21	10	10	M4	18,5	12	9	22	3	12
5	3/16	23	11	10	M5	19	13	11	23,5	3	15,5
6	1/4	26	12	11	M5	23	15	13	27,5	4	19
8	5/16	30	14	15	M6	28	19	16	33	4	33
10	3/8	34	18	17	M8	34	22	19	41	4	63
11	7/16	36	19	18	M8	36	22	20	43	4	74
13	1/2	42	23	21	M10	45	30	24	54	5	130
14	9/16	44	23	22	M10	47	30	25	56	5	136
16	5/8	50	26	26	M12	51	33	29	62	5	205
19	3/4	54	29	30	M12	63	38	32	74	5	263
22	7/8	61	33	34	M14	71	44	37	83,5	6	397
26	1	65	35	37	M14	81	45	41	93,5	6	463
30	1.1/8	74	37	43	M16	94	50	48	108,5	7	678

**GRILLI Art. 2157 - 2158E - 2158F**
**Tabella N. 13/d**
**ISTRUZIONI PER IL CORRETTO UTILIZZO DEI MANIGLIONI NAVALI DETTI GRILLI**

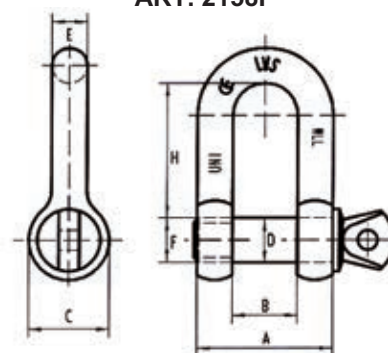
1. Prima di operare il sollevamento verificare che il perno sia avvitato completamente.
2. I carichi indicati in tabella devono essere applicati in modo stabile affinché i valori riportati siano validi.
3. Nel caso in cui i grilli vengano sottoposti a sollecitazioni di tipo dinamico i valori dei carichi di lavoro riportati in tabella (WLL) non sono applicabili.
4. L' utilizzo ideale si ottiene quando il carico è in asse perpendicolare rispetto al perno: ha quindi un angolo di carico pari a 0°.
5. I carichi laterali sono sconsigliati. In caso non si possano evitare ricordiamo che:
  - con un angolo di carico pari a 45° si avrà una riduzione del WLL pari al 30%
  - con un angolo di carico pari a 90° si avrà una riduzione del WLL pari al 50%
6. Non utilizzare pezzi che presentino segni evidenti di usura, deformazioni o cricche.
7. Controllare attentamente il prodotto prima di ogni utilizzo.
8. L' utilizzo con temperature inferiori a -20°C e superiori a + 80° C può risultare compromesso.
9. Ogni modifica, trattamento o lavorazione successiva alla vendita esonerano Sicutool da ogni responsabilità.
10. Le misure sono espresse in millimetri (mm)..

**LEGENDA**
**WLL = (working load limit) carico di lavoro massimo in tons**
**BL = coefficiente di sicurezza;** il valore del BL è soltanto un' indicazione per la sicurezza del prodotto.

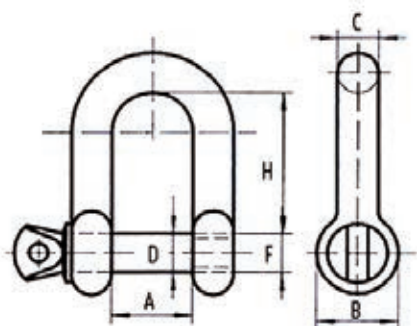
 I carichi (WLL) indicati in tabella **non devono essere mai superati in alcun caso.**

**GRILLI DIRITTI ZINCATI  
ART. 2157**


D	A	B	C	E	F	H	WLL	BL	Peso Cad. g
5	19	10	10	5	M5	19	0,10	5	14
6	24	12	12	6	M6	24	0,16	5	25
8	30	17	15,5	7	M8	29	0,25	5	47
10	34,5	18	20	8	M10	42	0,40	5	98
11	38,5	21	22	9	M11	46	0,50	5	138
12	41	22	24	10	M12	50	0,63	5	180
14	48	25	28	11	M14	57	0,80	5	254
16	52	27	32	13	M16	61	1	5	375
18	63	31	35	16	M18	65	1,30	5	616
20	66	34	40	16	M20	70	1,60	5	725
22	74,5	38	44	18	M22	74	2	5	975
25	82	42	48	20	M24	80	2,50	5	1385

**GRILLI DIRITTI EX UNI 1947  
IN ACCIAIO INOX 316  
ART. 2158F**


D	A	B	C	E	F	H	WLL	BL	Peso Cad. g
8	24	12	15,5	6	M8	26	0,25	5	38
10	32	16	18,5	8	M10	33	0,40	5	75
11	38	18	20	10	M11	37,5	0,50	5	120
12	40	20	24	10	M12	42	0,63	5	154
14	44	22	28	11	M14	46	0,80	5	217
16	48	24	31	12	M16	50	1	5	303
18	54	26	32	14	M18	54	1,30	5	419
20	60	28	38	16	M20	60	1,60	5	675
22	70	32	44	21	M22	70	2	5	1020
25	82	36	49	22	M24	82	2,50	5	1405
28	90	40	56	25	M27	90	3,15	5	2090
32	103	45	64	28	M30	100	4	5	3125
36	114	50	72	32	M36	110	5	5	4355
40	123	55	80	34	M39	120	6,30	5	5590
42	136	60	85	38	M42	131	8	5	6500
45	149	65	90	42	M45	143	10	5	9000
50	164	70	100	47	M52	155	12,50	5	10500

**GRILLI DIRITTI ACCIAIO INOX 316  
ART. 2158E**


D	A	B	C	F	H	Peso Cad. g
4	8	7,8	5	M4	16	8
5	10	10	6	M5	19	16,3
6	12	12	8	M6	24	26,3
8	16	16	10	M8	32	62,2
10	20	19	11	M10	40	116
12	25	24	12	M12	48	210
14	28	27	14	M14	56	322
16	32	31	16	M16	64	482
18	36	35	18	M18	71	700
20	38	38	19	M20	76	825
22	44	43	22	M22	85	1300
25	50	49	25	M24	95	1690

**GOLFARI MASCHI Art. 2159T - 2160 - 2160F**  
**GOLFARI FEMMINA Art. 2160T - 2161 - 2161F**

Tabella N. 13/e

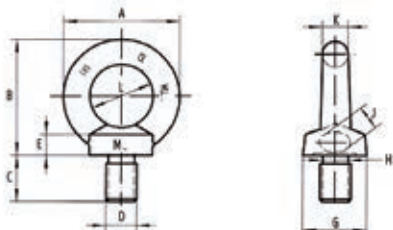
**ISTRUZIONI PER IL CORRETTO UTILIZZO DEI GOLFARI MASCHI E FEMMINA**

Prima di operare il sollevamento verificare che i golfari siano avvitati completamente in modo da portarli a diretto contatto con la superficie del corpo da sollevare. I carichi indicati in tabella devono essere applicati in modo stabile affinché i valori riportati siano validi. Nel caso in cui i golfari vengano sottoposti a sollecitazioni di tipo dinamico i valori dei carichi di lavoro (WLL) riportati in tabella non sono applicabili. Le portate indicate in tabella valgono pur utilizzo con tiro diritto a 90° od inclinato a 45°, con l' utilizzo di due golfari. Non utilizzare angoli di inclinazione superiori a 45° o tiri laterali. Non utilizzare pezzi che presentino segni evidenti di usura, deformazioni o cricche. Controllare attentamente il prodotto prima di ogni utilizzo. L' utilizzo con temperature inferiori a -10°C e superiori a + 80° C può risultare compromesso. Ogni modifica, trattamento o lavorazione successiva alla vendita esonerano Sicutool da ogni responsabilità. Le misure sono espresse in millimetri (mm).

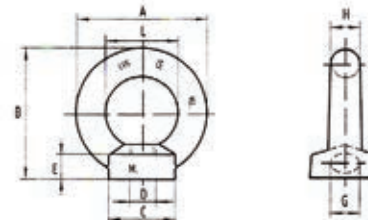
**LEGENDA**

**WLL** = (*working load limit*) carico di lavoro massimo in tons **WLL\***: (*working load limit*) carico di lavoro massimo in tons per tiro a 45°  
**BL** = coefficiente di sicurezza; il valore del BL è soltanto un' indicazione per la sicurezza del prodotto. I carichi (WLL) indicati in tabella non devono essere mai superati in alcun caso.  
**P**: passo filetto; **PF**: passo fine

**GOLFARI MASCHI ART. 2159T - 2160 - 2160F**



**GOLFARI FEMMINA ART. 2160T - 2161 - 2161F**

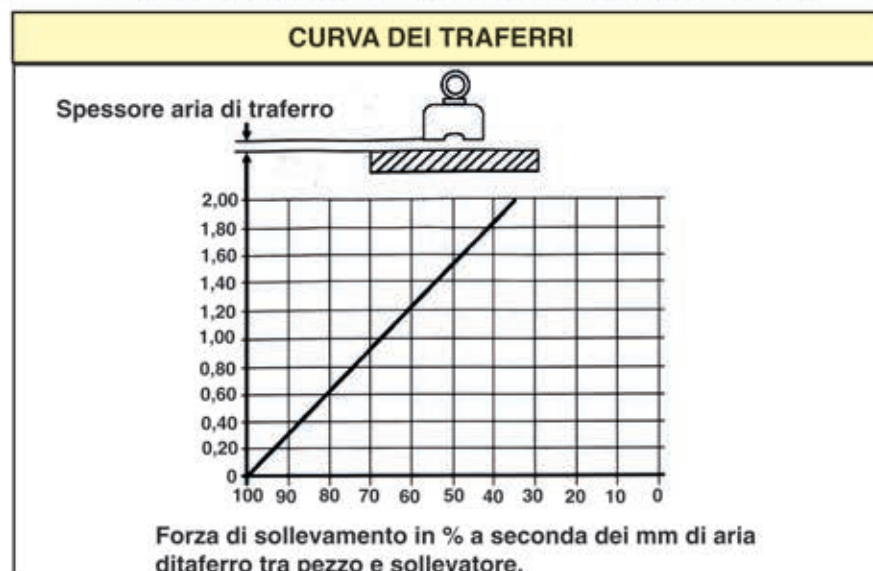
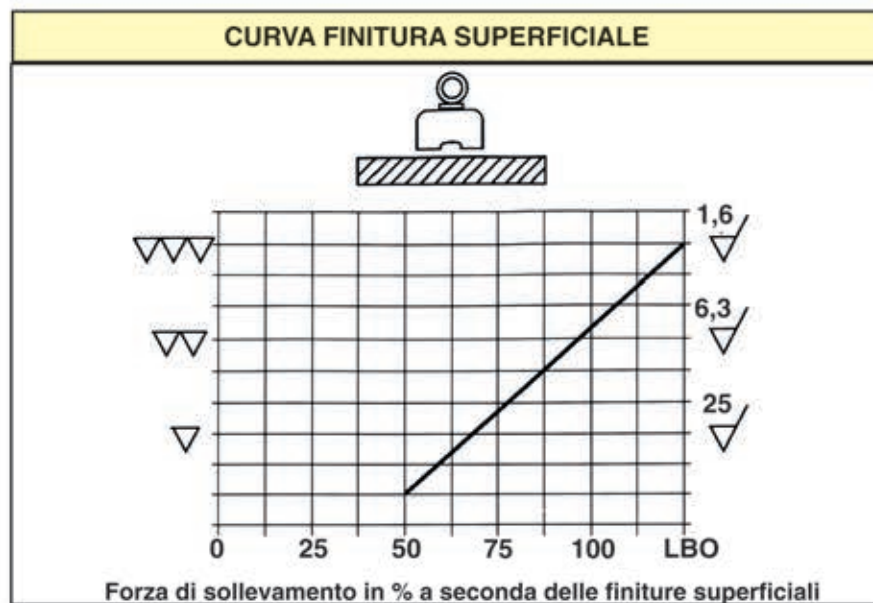
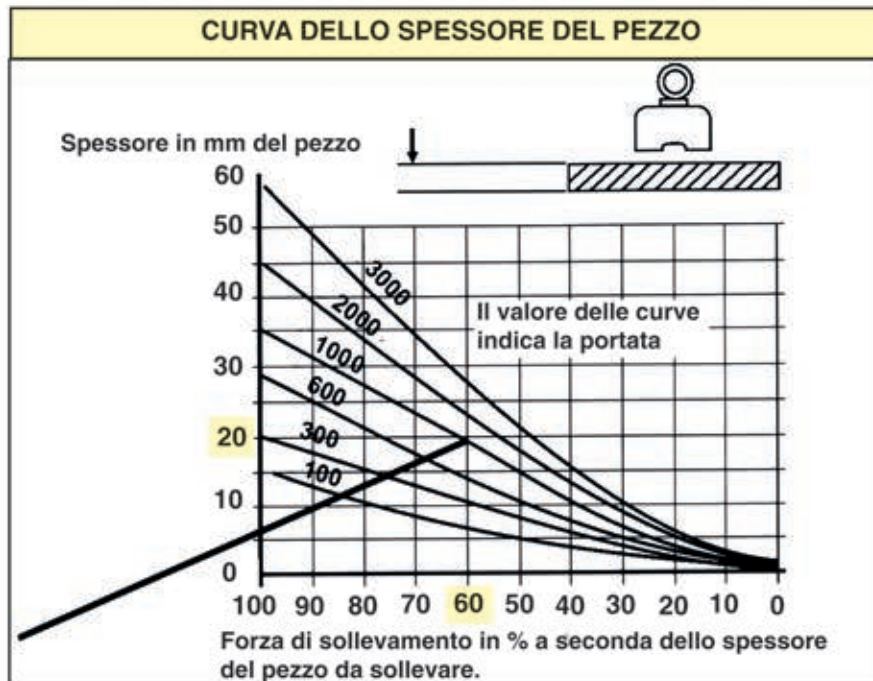


D	P	PF	A	B	C	E	G	H	K	J	L	WLL	WLL*	BL	Peso Cad. g
6	1	-	36	36	13	6	20	4,6	8	10	20	0,075	0,05	6	56
8	1,25	-	36	36	13	6	20	6	8	10	20	0,14	0,10	6	58
10	1,5	-	45	45	17	8	25	7,7	10	12	25	0,23	0,17	6	108
12	1,75	1,25	54	53	20,5	10	30	9,4	12	14	30	0,34	0,24	6	177
14	2	1,5	63	62	27	12	35	11,3	14	16	35	0,50	0,35	6	289
16	2	1,5	63	62	27	12	35	13	14	16	35	0,70	0,50	6	314
18	2,5	1,5	72	71	30	14	40	15	16	19	40	0,93	0,65	6	420
20	2,5	1,5	72	71	30	14	40	16,5	16	19	40	1,20	0,86	6	430
22	2,5	1,5	81	80,5	35	14	45	18,5	18	21	45	1,45	1	6	610
24	3	2	90	90	36	18	50	19,6	20	24	50	1,80	1,29	6	884
27	3	2	96	97	39	19,5	55	22,6	21,5	25	53	2,70	1,80	6	1154
30	3,5	2	108	109	45	22	65	25	24	28	60	3,20	2,30	6	1595
33	3,5	2	108	109	45	22	65	28	24	28	60	4,30	2,80	6	1620
36	4	3	126	128	54	26	75	30,3	28	32	70	4,60	3,30	6	2593
39	4	3	144	147	63	30	85	33,3	32	38	80	5	3,50	6	2618
42	4,5	3	144	147	63	30	85	35,6	32	38	80	6,30	4,50	6	3900
45	4,5	3	166	168	68	35	100	38,6	38	46	90	7,60	5	6	6060
48	5	3	166	168	68	35	100	41	38	46	90	8,60	6,10	6	6115

D	P	PF	A	B	C	E	G	H	L	WLL	WLL*	BL	Peso Cad. g
6	1	-	36	36	20	8,5	10	8	20	0,075	0,05	6	48
8	1,25	-	36	36	20	8,5	10	8	20	0,14	0,10	6	50
10	1,5	-	45	45	25	10	12	10	25	0,23	0,17	6	90
12	1,75	1,25	54	53	30	11	14	12	30	0,34	0,24	6	160
14	2	1,5	63	62	35	13	16	14	35	0,50	0,35	6	240
16	2	1,5	63	62	35	13	16	14	35	0,70	0,50	6	240
18	2,5	1,5	72	71	40	16	19	16	40	0,93	0,65	6	360
20	2,5	1,5	72	71	40	16	19	16	40	1,20	0,86	6	360
22	2,5	1,5	81	80,5	45	18	21	18	45	1,45	1	6	720
24	3	2	90	90	50	20	24	20	50	1,80	1,29	6	720
27	3	2	96	97	55	21,5	25	21,5	53	2,70	1,85	6	1000
30	3,5	2	108	109	65	24	28	24	60	3,20	2,30	6	1320
33	3,5	2	108	109	65	24	28	24	60	4,30	2,80	6	1320
36	4	3	126	128	75	28	32	28	70	4,60	3,30	6	2100
39	4	3	144	147	85	32	38	32	80	5	3,50	6	3100
42	4,5	3	144	147	85	32	38	32	80	6,30	4,50	6	3150
45	4,5	3	166	168	100	38	46	38	90	7,60	5	6	5020
48	5	3	166	168	100	38	46	38	90	8,60	6,10	6	5100
52	5	3	184	187	110	42	50	42	100	9,80	6,50	6	6690
56	5,5	4	184	187	110	42	50	42	100	11,50	8,20	6	6750
64	6	4	206	208	120	48	58	48	110	16	11	6	9300
72	6	4	260	260	150	60	72	60	140	20	14	6	18500
80	6	4	296	296	170	70	80	68	160	28	20	6	27300
100	6	4	330	330	190	80	88	75	180	40	29	6	36400

**CARATTERISTICHE DEI MAGNETI DI SOLLEVAMENTO 2815Z**

Tabella N. 14



**GIRI ORIENTATIVI PER SEGHE A TAZZA IN ACCIAIO HSS - BIMETALLICHE ART. 3078GS - 3078GSA**
**Tabella N. 15**

Ø mm	Ø poll.	Acciaio	Acciaio INOX	Ghisa	Ottone	Alluminio	Legno
14	9/16	580	300	400	790	900	3000
16	5/8	550	275	365	730	825	3000
17	11/16	500	250	330	665	750	3000
19	3/4	460	230	300	600	690	3000
20	25/32	435	240	290	580	660	3000
21	13/16	425	210	280	560	635	3000
22	7/8	390	195	260	520	585	3000
24	15/16	370	185	245	495	555	3000
25	1	350	175	235	470	525	2700
27	1 1/16	325	160	215	435	480	2700
29	1 1/8	300	150	200	400	450	2700
30	1 3/16	285	145	190	380	425	2400
32	1 1/4	275	140	180	360	410	2400
33	1 5/16	260	135	175	345	390	2400
35	1 3/8	250	125	165	330	375	2400
37	1 7/16	240	120	160	315	360	2400
38	1 1/2	230	115	150	300	345	2400
40	1 9/16	220	110	145	290	330	2100
41	1 5/8	210	105	140	280	315	2100
43	1 11/16	205	100	135	270	305	2100
44	1 3/4	195	95	130	260	295	2100
46	1 13/16	190	95	125	250	285	2100
48	1 7/8	180	90	120	240	270	2100
51	2	170	75	115	230	255	2000
52	2 1/16	165	80	110	220	245	2000
54	2 1/8	160	80	105	210	240	2000
57	2 1/4	150	75	100	200	225	2000
59	2 5/16	145	75	100	195	225	2000
60	2 3/8	140	70	95	190	220	2000
64	2 1/2	135	65	90	180	205	1800
65	2 9/16	130	65	85	175	200	1800
67	2 5/8	130	65	85	170	195	1800
70	2 3/4	125	60	80	160	185	1800
73	2 7/8	120	60	80	160	180	1800
76	3	115	55	75	150	170	1500
79	3 1/8	110	55	70	140	165	1500
83	3 1/4	105	50	70	140	155	1500
86	3 3/8	100	50	65	130	150	1200
89	3 1/2	95	45	65	130	145	1200
92	3 5/8	95	45	60	120	140	1200
95	3 3/4	90	45	60	120	135	1200
98	3 7/8	90	45	60	120	135	1200
102	4	85	40	55	110	130	1000
105	4 1/8	80	40	55	110	120	1000
108	4 1/4	80	40	55	110	120	900
111	4 3/8	80	40	50	100	120	900
114	4 1/2	75	35	50	100	105	900
121	4 3/4	70	35	45	95	95	900
127	5	65	30	45	90	90	800
133	5 1/4	65	30	45	90	90	800
140	5 1/2	60	25	40	85	85	800
146	5 3/4	60	25	40	85	85	800
152	6	55	25	35	75	75	800

**GIRI ORIENTATIVI DELLE SEGHE A TAZZA IN HSS INTEGRALE O CON INSERTO IN MD**

Tabella N. 16

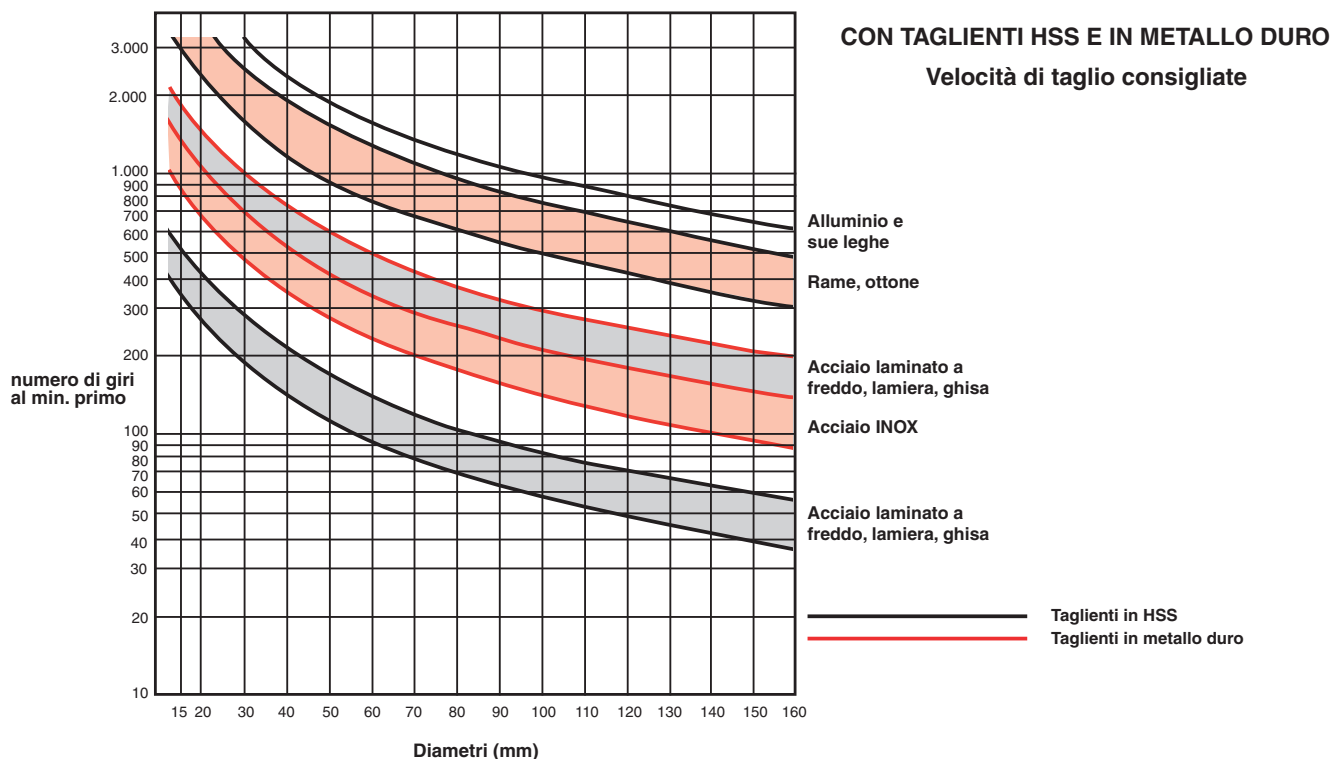

**SPESSEMETRI CALIBRATI SICUTOOL**

Tabella N. 17

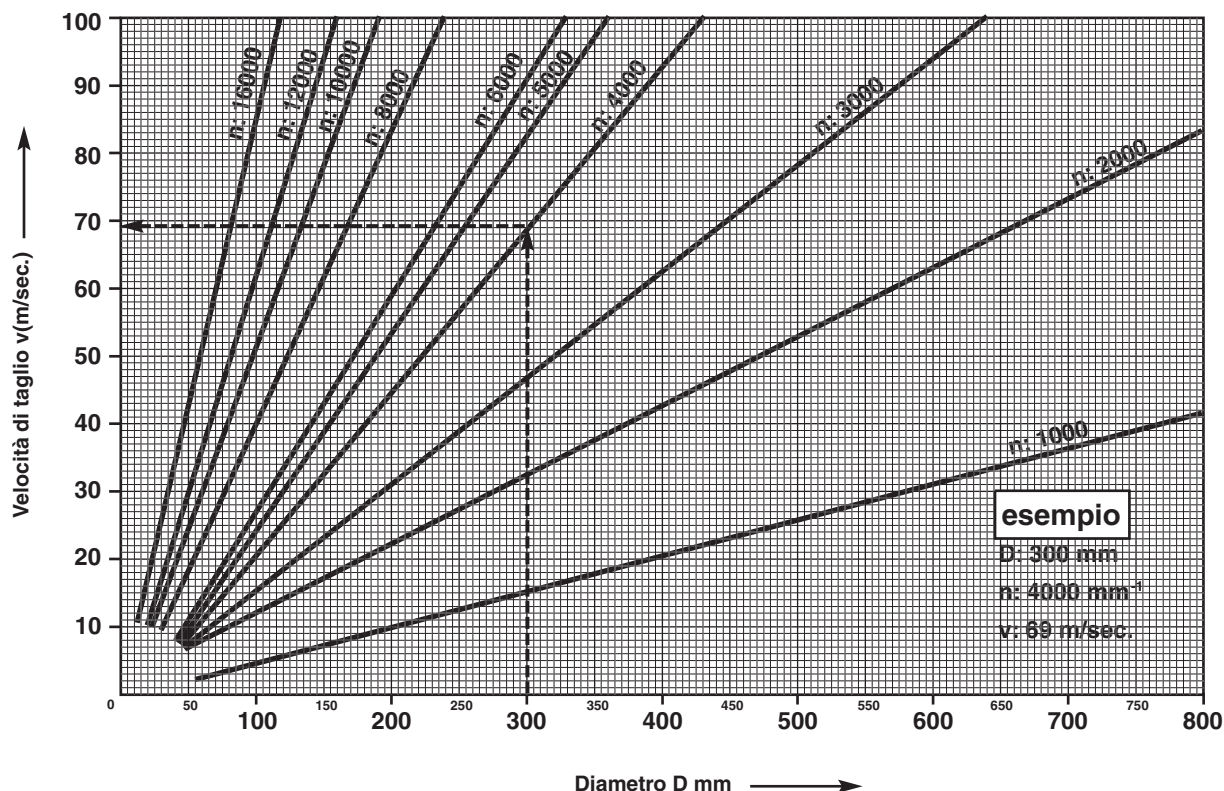
Spessore mm	Tolleranza T 3 +/- mm	Resistenza a trazione		
		Acciaio al carbonio C 100	Acciaio INOX AISI 301	Ottone CuZn37
		N / mm <sup>2</sup>	N / mm <sup>2</sup>	N / mm <sup>2</sup>
0,01	0,002	2000-2200	2000-2200	540-610
0,02	0,002	2000-2200	1850-2100	-
0,03	0,002	2000-2200	1600-1800	-
0,04	0,003	2000-2200	1600-1800	-
0,05	0,003	2000-2200	1600-1800	540-610
0,06	0,003	2000-2200	1600-1800	-
0,07	0,004	2000-2200	1600-1800	-
0,08	0,004	2000-2200	1600-1800	-
0,09	0,004	2000-2200	1600-1800	-
0,10	0,004	2000-2200	1600-1800	540-610
0,12	0,004	2000-2200	1600-1800	-
0,15	0,005	2000-2200	1600-1800	450-600
0,18	0,005	2000-2200	1600-1800	-
0,20	0,006	1800-2000	1600-1800	450-600
0,25	0,007	1800-2000	1600-1800	450-600
0,30	0,007	1800-2000	1600-1800	450-600
0,35	0,008	1800-2000	1600-1800	-
0,40	0,009	1600-1800	1600-1800	450-600
0,45	0,009	1600-1800	1600-1800	-
0,50	0,010	1600-1800	1600-1800	450-600
0,60	0,010	1600-1800	1600-1800	> 610
0,70	0,012	1400-1600	1600-1800	> 610
0,80	0,013	1400-1600	1600-1800	> 610
0,90	0,013	1400-1600	1600-1800	> 610
1,00	0,013	1400-1600	1600-1800	> 610

Tolleranze degli spessori dei nastri Art. 3995 GA - 3995 GL - 4000 G - 4001 G - 4002 G

Spessore mm	0,01 — 0,03	0,04 — 0,06	0,07 — 0,12	0,15 + 0,18	0,20	0,25 + 0,30	0,35	0,40 + 0,45	0,50 + 0,60	0,70	0,80 — 1,00
Toll. sullo spessore mm	±0,002	±0,003	±0,004	±0,005	±0,006	±0,007	±0,008	±0,009	±0,010	±0,012	±0,013

**SEGHE CIRCOLARI CON DENTI RIPORTATI IN METALLO DURO PER LEGNO  
MATERIALI COMPOSITI - SINTETICI - ALLUMINIO**
**Tabella N. 18**
**DIAGRAMMA PER LA DETERMINAZIONE DEL NUMERO DI GIRI AL MINUTO  
PER ART. 4840G/4843G A 4850G E ART. 9596G/9597G/9597GR**
**MEDIA DEI DATI DI TAGLIO**  
 Valori orientativi delle velocità di taglio (m/sec.)

Legno dolce (pino, abete, ecc.)	60-100 m/sec.
Legno duro (faggio, quercia, teak, ecc)	50-80 m/sec.
Legno stratificato ( compensato, pannello di legno compensato)	50-90 m/sec.
Laminato/pannello stratificato (paniforte, pannello a listelli)	50-80 m/sec.
Masonite // pannello di masonite (media durezza, duro, plastificato)	50-80 m/sec.
Pannello di masonite (trucioli di legno, lastra di materiale da costruzione leggero, sezione di pannello pressato, plastificato)	60-80 m/sec.
Laminati plastici (resopal, duropal, homopal, ecc.)	50/100 m/sec.
Pannelli in gesso	50-70 m/sec.
Pannelli da costruzione (cementificati, fibrocemento)	10-40 m/sec.
Plastiche dure, cartoni	30-60 m/sec.
Materiali teneri	30-90 m/sec.

**Diagramma delle velocità di taglio**

**ALLUMINIO:**

Su profilati di ALLUMINIO occorre una velocità di taglio non inferiore ai 50 m/secondo.

**DATI TECNICI DELLE SPAZZOLE ABRASIVE ROTATIVE**
**Tabella N. 19**

Velocità m/s	Tabella velocità ottimale spazzole Art. 7932 G/7933 G/7934/7934 E/7934 P	Velocità m/s	Tabella velocità ottimale spazzole Art. 7935 G a 7937 G/7943 G a 7945 G	Velocità m/s	Tabella velocità ottimale spazzole Art. 7949
25 - 40	Per acciai e ghise	10 - 25	Per leghe al Cr-Ni e leggere	10 - 25	Per alluminio e sue leghe
30 - 40	Per fusioni in lega	8 - 16	Per metalli dolci	8 - 16	Per leghe di Titanio e argento
15 - 25	Per legni senza resina	5 - 12	Per legni senza resina	5 - 12	Per plastica

**ABRASIVI FLESSIBILI**
**Tabella N. 20**
**Qualità e campi d'impiego**

qualità	utilizzo per	vantaggi	campi d'impiego
tela di corindone normale	spazzole lamellari, anelli, dischi abrasivi, capsule, dischi lamellari	abrasivo ad alta tenacità, grande resistenza	acciaio fucinato, ghisa malleabile, ghisa, acciaio carbone, acciaio per imbutitura, nastro d'acciaio, metalli non ferrosi, legno
tela di corindone normale con legante speciale	spazzole lamellari, anelli	abrasivo ad alta tenacità, grande resistenza	acciai pregiati (Cr-Ni), acciaio per imbutitura, Titanio, leghe di titanio, acciai ad alta resistenza ed al calore
tela di zirconio	spazzole lamellari, anelli, dischi abrasivi, dischi lamellari	granuli abrasivi ad alta resistenza, su pressione elevata	acciaio fucinato, metalli ad asportazione difficile a superficie molto dure, titanio e leghe di titanio, acciai ad alta resistenza ed al calore
tela di carburo di silicio	spazzole lamellari, spazzole rotative con foro, anelli, dischi abrasivi, dischi lamellari	durezza di grana elevata	alluminio e leghe d'alluminio, titanio e leghe d'alluminio, resine, acciai ad alta resistenza ed al calore
tessuto abrasivo di fibro sintetico (vlies), corindone normale	spazzole lamellari, spazzole rotative con foro, dischi abrasivi, tamponi abrasivi (fogli)	effetto lucidando tramite la struttura del tessuto, resi costanti per causa di granuli costantemente attivati	acciai pregiati (Cr-Ni), zinco pressofusione di ghisa, metalli non ferrosi, legno
tessuto abrasivo di fibro sintetico (vlies), carburo di silicio	spazzole lamellari, spazzole rotative con foro, dischi abrasivi, tamponi abrasivi (fogli e rotoli), dischi lamellari	effetto lucidando tramite la struttura del tessuto, resi costanti per causa di granuli costantemente attivati	titanio e leghe di titanio, argento e scoperti di argento, alluminio e leghe d'alluminio, resine
combinazione di tela e vlies, corindone normale	spazzole lamellari, spazzole rotative con foro, dischi lamellari	rinforzamento del effetto del vlies tramite la tela	acciai pregiati (Cr-Ni), zinco pressofusione di ghisa, metalli non ferrosi, legno
combinazione di tela e vlies, carburo di silicio	spazzole lamellari, spazzole rotative, dischi lamellari	rinforzamento del effetto del vlies tramite la tela	titanio/ leghe di titanio, argento/ scoperti d'argento, alluminio/ leghe d'alluminio, resine

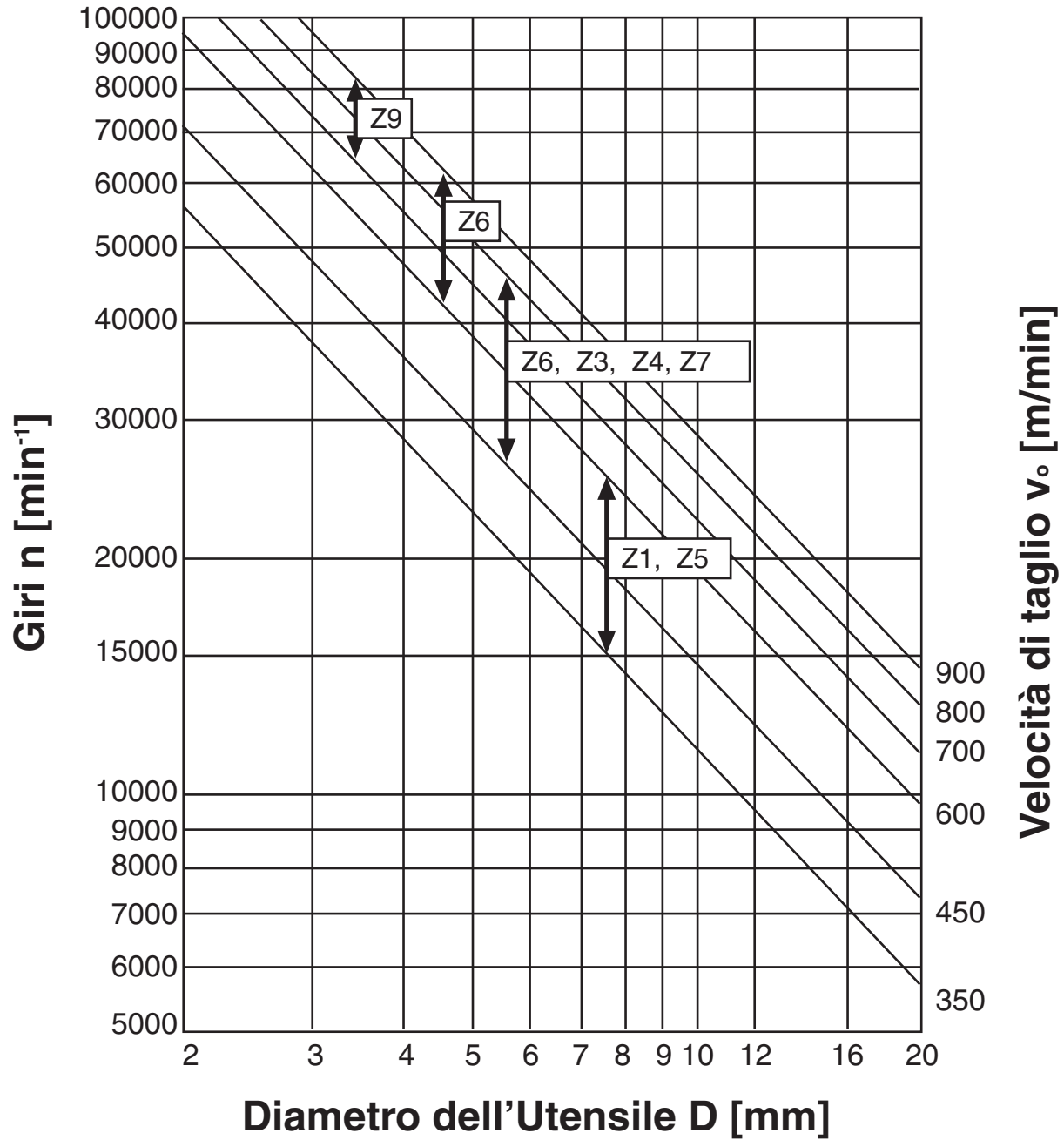


**DATI GENERALI SULLA SCELTA DELLE MOLE ABRASIVE E TRONCATRICI**
**Tabella N. 21**

MATERIALE	Tipo di lavorazione	Velocità periferica m/sec.	Abrasivo	Grana	Durezza	Legante
ACCIAI FUSI	- Molatura a mano	50-55	Corindone	16-24	Q-S	Bakelite
	- o con supporto fisso	25-30	»	16-24	P-R	Ceramica
	- Rettifica cilind. est.	25-30	»	46-80	M-N	»
	- Spianare c/mole a tazza	25-30	»	36-46	J-L	»
ACCIAI LAMINATI E FUCINATI	- Rettifica cilind. est.	25-30	»	46-60	M-N	»
	- Rettifica cilind. int.	10-20	»	46-60	K-M	»
	- Spianare c/mole a tazza	25-30	»	36-46	J-L	»
ACCIAI INOSSIDABILI	- Molatura a mano	50-55	»	16-24	P-R	Bakelite
	- o con supporto fisso	25-30	»	16-24	P-Q	Ceramica
	- Rettifica cilind. est.	25-30	»	46-60	L-N	»
	- Spianare c/mole a tazza	25-30	»	30-36	I-K	»
ACCIAI TEMPERATI	- Rettifica cilind. est.	25-30	»	46-60	K-M	»
	- Rettifica cilind. int.	15-20	»	60-80	J-K	»
	- Spianare c/mole a tazza	25-30	»	30-46	G-H	»
ACCIAI LEGATI	- Rettifica cilind. est.	25-30	»	60-80	N-O	»
ALLUMINIO	- Sbavatura a mano	35-45	Carburo-Silicio	24-30	O	Bakelite
	- o con supporto fisso	25-30	»	20-24	N-O	Ceramica
	- Spianare c/mole a tazza	25-30	»	24	J	»
BACHELITI E SIMILI	- Rettifica	25-30	»	46-60	J-K	»
	- Troncatura	45	»	40	N	Bakelite
BRONZO E OTTONE	- Sgrossare	25-30	»	36	J	»
	- Finire	25	»	46-60	J	»
GHISE	- Sbavatura a mano	35-45	»	20-24	Q-R	Bakelite
	- o con supporto fisso	35-45	»	14-16	P-Q	»
	- Rettifica esterna	25-30	»	36	I-K	Ceramica
	- Rettifica interna	25-30	»	46-60	I-J	»
	- Spianare c/mole a tazza	25-30	»	24-26	J-K	»
Acciaio temprato	Troncare	80	Corindone	50	N-P	Bakelite
Acciaio legato	»	80	»	30	O-P	»
Acciaio tubi	»	80	»	70	Q	»
Acciaio S. R.	»	80	»	46	P	»
Acciaio Inox	»	80	»	50	N-P	»
Bachelite e simili	»	80	Carburo-Silicio	40	N	»
Bronzo	»	80	»	40	N	»
Ghisa	»	80	»	24	Q	»
Ottone-Rame barre	»	80	»	36	N	»
Ottone-Rame tubi	»	80	»	80	M	»
Pietre	»	80	»	30	N-Q	»
Mattonelle	»	80	»	30	N-O	»

**VELOCITA' DI TAGLIO CONSIGLIATE PER FRESE ROTATIVE IN METALLO DURO**

Tabella N. 22



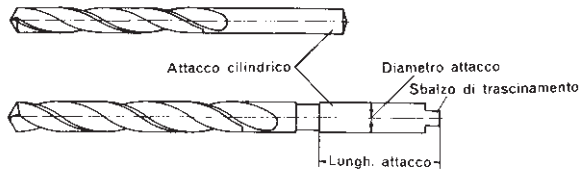
**PUNTE ELICOIDALI - CARATTERISTICHE ED ELEMENTI COSTRUTTIVI**

**Tabella N. 23**

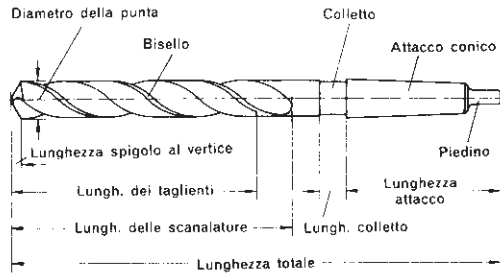


**Nomenclatura conforme DIN 1412**

**Punte elicoidale con attacco cilindrico**



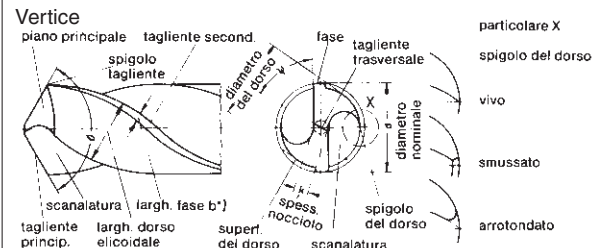
**Punte elicoidali con attacco Cono Morse**



**Punte con canali di lubrificazione**



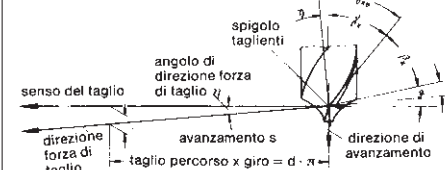
Estratto da DIN 1412, edito il 12/66



$\sigma$  = Angolo del vertice (sigma)       $\xi$  = Angolo del tagliente trasversale (Psi)  
 \*) La larghezza della fase b, secondo le norme di taglio con asportazione di truciolo, è proporzionale alla larghezza del dorso della punta e viene indicata con  $b_{pr}$ , ved. DIN 6581.

**Gli angoli dei taglienti**

Come punto di riferimento è stato scelto il piano dei taglienti.



$\alpha x$  Angolo di spoglia inferiore nominale (Alpha)       $\gamma x$  Angolo di spoglia superiore nominale (Gamma)  
 $\alpha x e$  Angolo di spoglia inferiore effettivo       $\gamma x e$  Angolo di spoglia superiore effettivo  
 $\beta x$  Angolo di taglio inferiore (Beta)       $\eta$  Angolo di direzione della forza di taglio (Eta)

La misurazione degli angoli  $\alpha$  (= angolo di spoglia inferiore nominale),  $\beta$  (= angolo di taglio inferiore) e  $\gamma$  (angolo di spoglia superiore), si effettua sul piano del cuneo. Per dettagli ved. DIN 6581, concetti della tecnica di asportazione del truciolo e geometria dei taglienti degli utensili.

**Tipi, impieghi, caratteristiche costruttive**

	Tipo	Impiego	Angolo di spoglia sup.	Angolo del vert.	Tipo di affilatura
	N	per materiali a truciolabilità normale (p. es. acciaio, ghisa, ghisa grigia)	20° - 30°	118°	normale
	H	per materiali duri, a trucioli corti (p. es. ottone, bronzo, elektron)	12° - 16°	118°	normale
	W	per materiali teneri, a trucioli lunghi (p. es. alluminio, leghe d'alluminio, rame)	35° - 40°	130° 118°	normale
	FN	per materiali a truciolatura normale da sottoporre a perforazioni molto profonde	35°	130°	normale, tagliente trasversale assottigliato
	FW	per materiali teneri a trucioli lunghi da sottoporre a perforazioni molto profonde	35° - 40°	130°	idem
	S	per materiali di difficile truciolatura (p. es. acciaio INOX ed acciai resistenti al calore)	20°-30°	130°	idem
	V	per materiali duri e di difficile truciolabilità (p. es. acciai per molle)	35°	130°	idem
	EN	per materiali a truciolabilità normale da sottoporre a perforazioni estremamente corte	20° - 30°	130°	idem

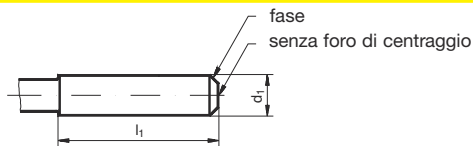
**Analisi orientativi sui tipi d'acciaio**

	Denominazione acciaio	Materiale N.	Denom. USA	Analisi orientative (valori medi) in %							
				C	Si	Mn	Cr	Mo	V	W	Co
HSS	S-6-5-2 (DMO5)	1.3343	M 2	0,88	0,4	0,4	4,15	3,95	1,85	6,35	-
HSS-E	S-6-5-2-5 (EMO5CO5)	1.3243	M 35	0,92	0,4	0,4	4,15	4,95	1,85	6,35	4,75
HSS-E	S-12-1-4-5 (EV4CO)	1.3202	-	1,37	0,4	0,4	4,15	0,85	3,75	12,0	4,75
HSS-E	S-10-4-3-10 (EW9CO10)	1.3207	-	1,27	0,4	0,4	4,15	3,75	3,25	10,2	10,5
WS	115CrV3	1.2210	-	1,15	0,2	0,3	0,7	-	0,1	-	-
Mat. per il codolo	C60	1.0601	-	0,6	0,3	0,8	-	-	-	-	-

**DIMENSIONI DEGLI ATTACCHI CILINDRICI IN METALLO DURO SECONDO DIN 6535**
**Tabella N. 24**
**Forma HA, liscio**

**HARTNER**

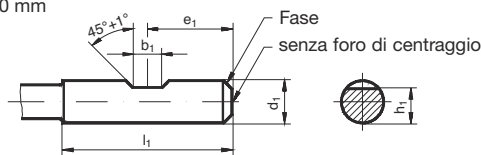
Misure in mm



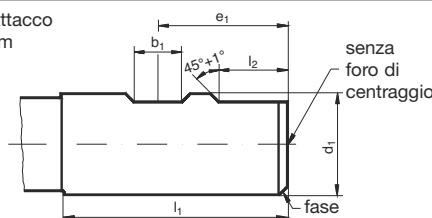
d <sub>1</sub>	l <sub>1</sub>	d <sub>1</sub>	l <sub>1</sub>	d <sub>1</sub>	l <sub>1</sub>
h6	<sup>+2</sup> / <sub>0</sub>	h6	<sup>+2</sup> / <sub>0</sub>	h6	<sup>+2</sup> / <sub>0</sub>
2	28	8	36	18	48
3	28	10	40	20	50
4	28	12	45	25	56
5	28	14	45	32	60
6	36	16	48		

**Forma HB, con piano di attacco laterale**

Misure in mm



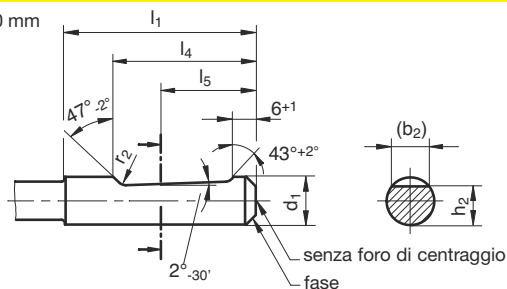
d <sub>1</sub>	b <sub>1</sub>	e <sub>1</sub>	h <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>
h6	<sup>+0,05</sup> / <sub>0</sub>	<sub>0</sub> <sup>-1</sup>	h11	<sup>+2</sup> / <sub>0</sub>	<sup>+1</sup> / <sub>0</sub>
6	4,2	18	5,1	36	-
8	5,5	18	6,9	36	-
10	7	20	8,5	40	-
12	8	22,5	10,4	45	-
14	8	22,5	12,7	45	-
16	10	24	14,2	48	-
18	10	24	16,2	48	-
20	11	25	18,2	50	-

 con 2 piani di attacco  
 d<sub>1</sub> = 25 e 32 mm


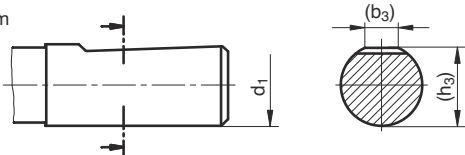
25	12	32	23	56	17
32	14	36	30	60	19

**Forma HE, con piano di attacco inclinato, senza fori di refrigerazione\***

\*Esecuzione: codoli cilindrici a DIN 6535 sono eseguiti senza o con fori di refrigerazione. L'impiego dell'esecuzione per differenti utensili come pure dati dimensionali e designazione per la posizione dei fori di refrigerazione sono contenute nelle corrispondenti norme.



d <sub>1</sub>	(b <sub>2</sub> )	(b <sub>3</sub> )	h <sub>2</sub>	(h <sub>3</sub> )	l <sub>1</sub>	l <sub>4</sub>	l <sub>5</sub>	r <sub>2</sub>
h6	≈		h13		<sup>+2</sup> / <sub>0</sub>	<sub>0</sub> <sup>-1</sup>	misura nom.	min.
6	4,3	-	5,1	-	36	25	18	1,2
8	5,5	-	6,9	-	36	25	18	1,2
10	7,1	-	8,5	-	40	28	20	1,2
12	8,2	-	10,4	-	45	33	22,5	1,2
14	8,1	-	12,7	-	45	33	22,5	1,2
16	10,1	-	14,2	-	48	36	24	1,6
18	10,8	-	16,2	-	48	36	24	1,6
20	11,4	-	18,2	-	50	38	25	1,6

 per d<sub>1</sub> = 25 e 32 mm


25	13,6	9,3	23,0	24,1	56	44	32	1,6
32	15,5	9,9	30,0	31,2	60	48	35	1,6

**TRATTAMENTI**
**Tabella N. 25**

**HARTNER**
**Descrizione breve**

	T	A	A	C	F	M	Y
	rivestimento TiN	rivestimento TiAlN	rivestimento AlTiN	rivestimento TiCN	rivestimento FIRE	rivestim. MolyGlide	rivestim. TiAlSiN
Processo	PVD	PVD	PVD	PVD	PVD	PVD	PVD
Temperatura di ricopertura max. (°C)	450°...500°	350°	450°	450°...500°	450°...500°	150°	450°...500°
Substrato	HSS, metallo duro, Cermet	HSS, metallo duro, Cermet	HSS, metallo duro	HSS, metallo duro, Cermet	HSS, metallo duro, Cermet	HSS, metallo duro, Cermet	HSS, metallo duro, Cermet
Layer (substrato)	1	1	1	1	6	1	nanokomposit
Colore	oro	nero-violetto	nero-violetto	grigio-violetto	nero-violetto	grigio	bronzo-rosso
Spessore (µm)	secondo il campo di impiego						
Durezza (HV 0,05)	2300	3300	3500	3000	3300	20-50	5500
Trasmissione di calore (kW/mK)	0,07	0,05	0,05	0,1	0,05	< 0,1	0,03
Temperatura di impiego max. (°C)	< 600°	< 800°	< 900°	< 400°	< 800°	< 800°	< 800°
Lavorazione tipiche	universale	tornire, forare	universale	fresare, forare, maschiare	universale	forare maschiare alesare, fresare	forare, fresare
Materiali lavorabili di preferenza	universale	ghisa , GGG, AISI	materiali di difficile truciolabilità come leghe al titanio, GGV, Inconel ed acciai legati	per acciai molto resistenti, Inconel, Monel	universale	Al, AISI, acciaio, leghe di speciale	ghise, acciai legati, acciai molto resistenti, CFK
Particolarità	conveniente	lavorazione a secco	lav. di materiali duri (> 52 HRC, MD), lavorazioni HSC	lavorazione a secco, insensibile a carichi d'urto, taglio interrotto	largo campo di impiego	lavorazione a secco, insensibile a carichi d'urto	largo campo di impiego

**CONSIGLI PER L'IMPIEGO DI PUNTE ELICOIDALI CONVENZIONALI**
**Tabella N. 26**

 Articolo nr. **R**

 Articolo nr. **L**

Norma/DIN

Materiale tagliente

Tratt. di superficie

Tipo

I numeri in grassetto della colonna avanzamento indicano gli utensili da preferire.

Ø utensile mm	Num. colonna avanzamento								
	1	2	3	4	5	6	7	8	9
	f (mm/giro)								
<b>0,50</b>	0,004	0,006	0,007	0,008	0,010	0,012	0,014	0,016	0,019
<b>1,00</b>	0,006	0,008	0,012	0,014	0,016	0,018	0,020	0,023	0,025
<b>2,00</b>	0,020	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125
<b>2,50</b>	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160
<b>3,15</b>	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,160
<b>4,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,200
<b>5,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250
<b>6,30</b>	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315
<b>8,00</b>	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,315
<b>10,00</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,400
<b>12,50</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500
<b>16,00</b>	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630
<b>20,00</b>	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,630
<b>25,00</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	0,800
<b>31,50</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000
<b>40,00</b>	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000	1,250
<b>50,00</b>	0,250	0,310	0,400	0,500	0,630	0,800	1,000	1,250	1,250
<b>63,00</b>	0,315	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600
<b>80,00</b>	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600	2,000

Refrigerante:

○ Aria

● Olio

● Emulsione

Direzione di taglio:

R destre

L sinistre


**HARTNER**

Materiali	Esempi di materiale Numeri in grassetto = nr. materiale a DIN EN 10 027	Resistenza N/mm <sup>2</sup>	Durezza	Refrigerante
Acciai da costruzione	<b>1.0035</b> S185(S133), <b>1.0486</b> P275N(STE285), <b>1.0345</b> P235GH(H1), <b>1.0425</b> P265GH(H2) <b>1.0050</b> E295 (St50-2), <b>1.0070</b> E360 (St70-2), <b>1.8937</b> P500NH (WStE500)	≤500 ≤1000		●
Acciai automatici	<b>1.0718</b> 11SMnPb30 (9SMnPb28), <b>1.0736</b> 11SMn37 (9SMn36) <b>1.0727</b> 46S20 (45S20), <b>1.0728</b> (60S20), <b>1.0757</b> 46SPb20 (45SPb20)	≤850 ≤1000		●
Acciai da bonifica non legati	<b>1.0402</b> C22, <b>1.1178</b> C30E (Ck30) <b>1.0503</b> C45, <b>1.1191</b> C45E (Ck45) <b>1.0601</b> C60, <b>1.1221</b> C60E (Ck60)	≤700 ≤850 ≤1000		●
Acciai da bonifica legati	<b>1.5131</b> 50MnSi4, <b>1.7003</b> 38Cr2, <b>1.7030</b> 28Cr4 <b>1.5710</b> 36NiCr6, <b>1.7035</b> 41Cr4, <b>1.7225</b> 42CrMo4	≤1000 ≤1400		●
Acciai da cementazione non legati	<b>1.0301</b> (C10), <b>1.1121</b> C10E (Ck10)	≤850		●
Acciai da cementazione legati	<b>1.7276</b> 10CrMo11, <b>1.5125</b> 11MnSi6 <b>1.5752</b> 15NiCr13, <b>1.7131</b> 16MnCr5, <b>1.7264</b> 20CrMo5	≤1000 ≤1400		●
Acciai nitrurati	<b>1.8504</b> 34CrAl6 <b>1.8519</b> 31CrMoV9, <b>1.8550</b> 34CrAlNi7	≤1000 ≤1400		●
Acciai utensili	<b>1.1750</b> C75W, <b>1.2067</b> 102Cr6, <b>1.2307</b> 29CrMoV9 <b>1.2080</b> X210Cr12, <b>1.2083</b> X42Cr13, <b>1.2419</b> 105WCr6, <b>1.2767</b> X45NiCrMo4	≤850 ≤1400		●
Acciai super rapidi	<b>1.3243</b> S 6-5-2-5, <b>1.3343</b> S 6-5-2, <b>1.3344</b> S 6-5-3	≤1400		●
Acciai per molle	<b>1.5026</b> 55Si7, <b>1.7176</b> 55Cr3, <b>1.8159</b> 51CrV4 (51CrV4)		≤350 HB	●
Acciai inossidabili, allo zolfo	<b>1.4005</b> X12CrS13, <b>1.4104</b> X14CrMoS17, <b>1.4105</b> X6CrMoS17, <b>1.4305</b> X8CrNiS18-9 <b>1.4301</b> X5CrNi18-10 (V2A), <b>1.4541</b> X6CrNiTi18-10, <b>1.4571</b> X6CrNiMoTi 17-12-2 (V4A) <b>1.4057</b> X20CrNi172 (X17CrNi16-2), <b>1.4122</b> X39CrMo17-1, <b>1.4521</b> X2CrMoTi18-2	≤900 ≤1100 ≤1500		●
Acciai temprati	-		≤48 HRC ≤66 HRC	●
Leghe speciali	Nimonic, Inconel, Monel, Hastelloy	≤2000		●
Ghise	<b>0.6010</b> EN-GJL-100 (GG10), <b>0.6020</b> EN-GJL-200 (GG20) <b>0.6025</b> EN-GJL-250 (GG25), <b>0.6035</b> EN-GJL-350 (GG35)		≤240 HB ≤350 HB	●○
Ghise sferoidali, ghise temperate	<b>0.7050</b> EN-GJS-500-7 (GGG50), <b>0.8035</b> EN-GJMW-350-4 (GTW35) <b>0.7070</b> EN-GJS-700-2 (GGG70), <b>0.8170</b> EN-GJMB-700-2 (GTS70)		≤240 HB ≤350 HB	●○
Ghisa in conchiglia	-		≤350 HB	●
Titanio e leghe di titanio	<b>3.7024</b> Ti99,5, <b>3.7114</b> TiAl5Sn2,5, <b>3.7124</b> TiCu2 <b>3.7154</b> TiAl6Zr5, <b>3.7165</b> TiAl6V4, <b>3.7184</b> TiAl4Mo4Sn2,5, - TiAl8Mo1V1	≤850 ≤1400		●
Alluminio e leghe di alu	<b>3.0255</b> Al99,5, <b>3.2315</b> AlMgSi1, <b>3.3515</b> AlMg1	≤400		●
Leghe di alu per lav. plastiche	<b>3.0615</b> AlMgSiPb, <b>3.1325</b> AlCuMg1, <b>3.3245</b> AlMg3Si, <b>3.4365</b> AlZnMgCu1,5	≤650		●
Leghe di alu-ghisa ≤ 10 % Si	<b>3.2131</b> G-AlSi5Cu1, <b>3.2153</b> G-AlSi7Cu3, <b>3.2573</b> G-AlSi9	≤600		●
> 10 % Si	<b>3.2581</b> G-AlSi12, <b>3.2583</b> G-AlSi12Cu, - G-AlSi12CuNiMg	≤600		●
Leghe di magnesio	<b>3.5200</b> MgMn2, <b>3.5812.05</b> G-MgAl8Zn1, <b>3.5612.05</b> G-MgAl6Zn1	≤400		○
Rame legato in bassa %	<b>2.0070</b> SE-Cu, <b>2.1020</b> CuSn6, <b>2.1096</b> G-CuSn5ZnPb	≤500		●
Ottone, a truciolo corto	<b>2.0380</b> CuZn39Pb2, <b>2.0401</b> CuZn39Pb3, <b>2.0410</b> CuZn43Pb2	≤600		●
a truciolo lungo	<b>2.0250</b> CuZn20, <b>2.0280</b> CuZn33, <b>2.0332</b> CuZn37Pb0,5	≤600		●
Bronzi a truciolo corto	<b>2.1090</b> CuSn7ZnPb, <b>2.1170</b> CuPb5Sn5, <b>2.1176</b> CuPb10Sn <b>2.0790</b> CuNi18Zn19Pb	≤600 ≤850		●●
Bronzi a truciolo lungo	<b>2.0916</b> CuAl5, <b>2.0960</b> CuAl9Mn, <b>2.1050</b> CuSn10 <b>2.0980</b> CuAl11Ni, <b>2.1247</b> CuBe2	≤850 ≤1000		●
Mat. plastiche termoidruranti	Resina epossidica, Resopal, Pertinax, Moltopren	≤150		○
Materie termoplastiche	Plexiglas, Hostalen, Novodur, Makralon	≤100		○
Nuove ghise GGv	<b>EN-GJV250</b> (GGV25), <b>EN-GJV350</b> (GGV35) <b>EN-GJV400</b> (GGV40), <b>EN-GJV500</b> (GGV50), SiMo 6		≤220 HB ≤300 HB	●○
Nuove ghise ADI	<b>EN-GJS-800-8</b> (ADI800), <b>EN-GJS-1000-5</b> (ADI1000) <b>EN-GJS-1200-2</b> (ADI1200), <b>EN-GJS-1400-1</b> (ADI1400)	≤1000 ≤1400		●○
Mat. plast. a fibre aramidiche	Kevlar	≤1000		○
a fibre di vetro/C rinforzate	GFK/CFK	≤1000		○

○ lucide





● trattati a vapore


● fasi nitrurate


● bruno-dorate





M MolyGlide


**≤3xD**

81110	81120	81130	81140
81115			81145
1897	1897	1897	1897
<b>HSS</b>			
			
N	H	W	FN

84400
1897
<b>HSS</b>

N

84501
1897
<b>HSS</b>

N

81171	82971	81173	82972
1897	N.d.F.	1897	N.d.F.
<b>HSS-E</b>			
			
V	V	IS	IS

84803
1897
<b>HSS-E</b>

V

84503
1897
<b>HSS-E</b>

V



V <sub>c</sub> m/min	Num. col. avanzam.	
27	6	6
22	5	5
30	6	6
30	5	5
25	5	5
25	5	5
30	6	6
16	4	4
30	6	6
30	6	6
25	6	6
20	6	6
70	7	7
70	7	7
50	7	7
50	6	6
70	6	6
60	5	5
40	5	5
30	4	4
25	4	4
15	4	4
18	4	4
28	5	5

V <sub>c</sub> m/min	Num. col. avanzam.	
30	6	6
24	5	5
33	6	6
33	5	5
28	5	5
28	5	5
25	4	4
22	4	4
33	6	6
20	4	4
14	4	4
18	4	4
33	6	6
33	6	6
28	6	6
22	6	6
85	8	8
85	8	8
60	8	8
60	7	7
90	6	6
70	6	6
80	6	6
50	6	6
33	4	4
27	4	4
16	4	4
15	4	4
22	4	4
36	5	5

V <sub>c</sub> m/min	Num. col. avanzam.			
35	5	5	5	5
30	5	5	5	5
40	5	5	5	5
40	5	5	5	5
40	5	5	5	5
35	4	4	4	4
20	4	4	4	4
16	3	3	3	3
36	6	6	6	6
20	4	4	4	4
15	3	3	3	3
16	4	4	4	4
12	3	3	3	3
15	4	4	4	4
12	3	3	3	3
15	3	3	3	3
8	2	2	2	2
18	4	4	4	4
14	3	3	3	3
16	3	3	3	3
4	1	1	1	1
8	1	1	1	1
35	6	6	6	6
30	6	6	6	6
30	6	6	6	6
25	6	6	6	6
10	3	3	3	3
10	2	2	2	2
6	2	2	2	2
90	7	7	7	7
90	7	7	7	7
80	7	7	7	7
70	6	6	6	6
70	6	6	6	6
40	5	5	5	5
60	5	5	5	5
40	5	5	5	5
45	4	4	4	4
30	4	4	4	4
20	4	4	4	4
15	4	4	4	4
4	4	4	4	4
30	4	4	4	4

V <sub>c</sub> m/min	Num. col. avanzam.	
38	5	5
33	4	4
44	5	5
38	5	5
44	5	5
44	5	5
38	4	4
27	4	4
22	3	3
44	4	4
22	4	4
18	3	3
22	4	4
18	3	3
19	4	4
14	3	3
14	3	3
9	2	2
20	4	4
15	3	3
18	3	3
4	1	1
6	2	2
40	6	6
35	6	6
33	6	6
27	6	6
12	3	3
11	2	2
7	2	2
45	5	5
40	4	4
23	4	4
17	4	4
50	6	6
45	5	5
26	5	5
20	5	5

**A** TiAIN

**a** nanoA

**A** SuperA

**C** TiCN

**F** FIRE

**T** TiN

**Y** TiAlSiN

**CONSIGLI PER L'IMPIEGO DI PUNTE ELICOIDALI CONVENZIONALI**
**Tabella N. 27**
**Articolo nr. R**
**Articolo nr. L**
**Norma/DIN**
**Materiale tagliente**
**Tratt. di superficie**
**Tipo**

I numeri in grassetto della colonna avanzamento indicano gli utensili da preferire.

Ø utensile mm	Num. colonna avanzamento								
	1	2	3	4	5	6	7	8	9
	f (mm/U)								
<b>0,50</b>	0,004	0,006	0,007	0,008	0,010	0,012	0,014	0,016	0,019
<b>1,00</b>	0,006	0,008	0,012	0,014	0,016	0,018	0,020	0,023	0,025
<b>2,00</b>	0,020	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125
<b>2,50</b>	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160
<b>3,15</b>	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,160
<b>4,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,200
<b>5,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250
<b>6,30</b>	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315
<b>8,00</b>	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,315
<b>10,00</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,400
<b>12,50</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500
<b>16,00</b>	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630
<b>20,00</b>	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,630
<b>25,00</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	0,800
<b>31,50</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000
<b>40,00</b>	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000	1,250
<b>50,00</b>	0,250	0,310	0,400	0,500	0,630	0,800	1,000	1,250	1,250
<b>63,00</b>	0,315	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600
<b>80,00</b>	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600	2,000

Refrigerante:

○ Aria

● Olio

● Emulsione

Direzione di taglio:

R destre

L sinistre


**HARTNER**

Materiali	Esempi di materiale Numeri in grassetto = nr. materiale a DIN EN 10 027	Resistenza N/mm <sup>2</sup>	Durezza	Refrigerante
Acciai da costruzione	<b>1.0035</b> S185(S133), <b>1.0486</b> P275N(STE285), <b>1.0345</b> P235GH(H1), <b>1.0425</b> P265GH(H2) <b>1.0050</b> E295 (St50-2), <b>1.0070</b> E360 (St70-2), <b>1.8937</b> P500NH (WStE500)	≤500 ≤1000		●
Acciai automatici	<b>1.0718</b> 11SMnPb30 (9SMnPb28), <b>1.0736</b> 11SMn37 (9SMn36) <b>1.0727</b> 46S20 (45S20), <b>1.0728</b> (60S20), <b>1.0757</b> 46SPb20 (45SPb20)	≤850 ≤1000		●
Acciai da bonifica non legati	<b>1.0402</b> C22, <b>1.1178</b> C30E (Ck30) <b>1.0503</b> C45, <b>1.1191</b> C45E (Ck45) <b>1.0601</b> C60, <b>1.1221</b> C60E (Ck60)	≤700 ≤850 ≤1000		●
Acciai da bonifica legati	<b>1.5131</b> 50MnSi4, <b>1.7003</b> 38Cr2, <b>1.7030</b> 28Cr4 <b>1.5710</b> 36NiCr6, <b>1.7035</b> 41Cr4, <b>1.7225</b> 42CrMo4	≤1000 ≤1400		●
Acciai da cementazione non legati	<b>1.0301</b> (C10), <b>1.1121</b> C10E (Ck10)	≤850		●
Acciai da cementazione legati	<b>1.7276</b> 10CrMo11, <b>1.5125</b> 11MnSi6 <b>1.5752</b> 15NiCr13, <b>1.7131</b> 16MnCr5, <b>1.7264</b> 20CrMo5	≤1000 ≤1400		●
Acciai nitrurati	<b>1.8504</b> 34CrAl6 <b>1.8519</b> 31CrMoV9, <b>1.8550</b> 34CrAlNi7	≤1000 ≤1400		●
Acciai utensili	<b>1.1750</b> C75W, <b>1.2067</b> 102Cr6, <b>1.2307</b> 29CrMoV9 <b>1.2080</b> X210Cr12, <b>1.2083</b> X42Cr13, <b>1.2419</b> 105WCr6, <b>1.2767</b> X45NiCrMo4	≤850 ≤1400		●
Acciai super rapidi	<b>1.3243</b> S 6-5-2-5, <b>1.3343</b> S 6-5-2, <b>1.3344</b> S 6-5-3	≤1400		●
Acciai per molle	<b>1.5026</b> 55Si7, <b>1.7176</b> 55Cr3, <b>1.8159</b> 51CrV4 (51CrV4)		≤350 HB	●
Acciai inossidabili, allo zolfo	<b>1.4005</b> X12CrS13, <b>1.4104</b> X14CrMoS17, <b>1.4105</b> X6CrMoS17, <b>1.4305</b> X8CrNiS18-9 <b>1.4301</b> X5CrNi18-10 (V2A), <b>1.4541</b> X6CrNiTi18-10, <b>1.4571</b> X6CrNiMoTi 17-12-2 (V4A) <b>1.4057</b> X20CrNi172 (X17CrNi16-2), <b>1.4122</b> X39CrMo17-1, <b>1.4521</b> X2CrMoTi18-2	≤900 ≤1100 ≤1500		●
Acciai temprati	-		≤48 HRC ≤66 HRC	●
Leghe speciali	Nimonic, Inconel, Monel, Hastelloy	≤2000		●
Ghise	<b>0.6010</b> EN-GJL-100 (GG10), <b>0.6020</b> EN-GJL-200 (GG20) <b>0.6025</b> EN-GJL-250 (GG25), <b>0.6035</b> EN-GJL-350 (GG35)		≤240 HB ≤350 HB	●○
Ghise sferoidali, ghise temperate	<b>0.7050</b> EN-GJS-500-7 (GGG50), <b>0.8035</b> EN-GJMW-350-4 (GTW35) <b>0.7070</b> EN-GJS-700-2 (GGG70), <b>0.8170</b> EN-GJMB-700-2 (GTS70)		≤240 HB ≤350 HB	●○
Ghisa in conchiglia	-		≤350 HB	●
Titanio e leghe di titanio	<b>3.7024</b> Ti99,5, <b>3.7114</b> TiAl5Sn2,5, <b>3.7124</b> TiCu2 <b>3.7154</b> TiAl6Zr5, <b>3.7165</b> TiAl6V4, <b>3.7184</b> TiAl4Mo4Sn2,5, - TiAl8Mo1V1	≤850 ≤1400		●
Alluminio e leghe di alu	<b>3.0255</b> Al99,5, <b>3.2315</b> AlMgSi1, <b>3.3515</b> AlMg1	≤400		●
Leghe di alu per lav. plastiche	<b>3.0615</b> AlMgSiPb, <b>3.1325</b> AlCuMg1, <b>3.3245</b> AlMg3Si, <b>3.4365</b> AlZnMgCu1,5	≤650		●
Leghe di alu-ghisa ≤ 10 % Si	<b>3.2131</b> G-AlSi5Cu1, <b>3.2153</b> G-AlSi7Cu3, <b>3.2573</b> G-AlSi9	≤600		●
> 10 % Si	<b>3.2581</b> G-AlSi12, <b>3.2583</b> G-AlSi12Cu, - G-AlSi12CuNiMg	≤600		●
Leghe di magnesio	<b>3.5200</b> MgMn2, <b>3.5812.05</b> G-MgAl8Zn1, <b>3.5612.05</b> G-MgAl6Zn1	≤400		○
Rame legato in bassa %	<b>2.0070</b> SE-Cu, <b>2.1020</b> CuSn6, <b>2.1096</b> G-CuSn5ZnPb	≤500		●
Ottone, a truciolo corto	<b>2.0380</b> CuZn39Pb2, <b>2.0401</b> CuZn39Pb3, <b>2.0410</b> CuZn43Pb2	≤600		●
a truciolo lungo	<b>2.0250</b> CuZn20, <b>2.0280</b> CuZn33, <b>2.0332</b> CuZn37Pb0,5	≤600		●
Bronzi a truciolo corto	<b>2.1090</b> CuSn7ZnPb, <b>2.1170</b> CuPb5Sn5, <b>2.1176</b> CuPb10Sn <b>2.0790</b> CuNi18Zn19Pb	≤600 ≤850		●●
Bronzi a truciolo lungo	<b>2.0916</b> CuAl5, <b>2.0960</b> CuAl9Mn, <b>2.1050</b> CuSn10 <b>2.0980</b> CuAl11Ni, <b>2.1247</b> CuBe2	≤850 ≤1000		●
Mat. plastiche termoidruranti	Resina epossidica, Resopal, Pertinax, Moltopren	≤150		○
Materie termoplastiche	Plexiglas, Hostalen, Novodur, Makralon	≤100		○
Nuove ghise GGv	<b>EN-GJV250</b> (GGV25), <b>EN-GJV350</b> (GGV35) <b>EN-GJV400</b> (GGV40), <b>EN-GJV500</b> (GGV50), SiMo 6		≤220 HB ≤300 HB	●○
Nuove ghise ADI	<b>EN-GJS-800-8</b> (ADI800), <b>EN-GJS-1000-5</b> (ADI1000) <b>EN-GJS-1200-2</b> (ADI1200), <b>EN-GJS-1400-1</b> (ADI1400)	≤1000 ≤1400		●○
Mat. plast. a fibre aramidiche	Kevlar	≤1000		○
a fibre di vetro/C rinforzate	GFK/CFK	≤1000		○

○ lucide

● trattati a vapore

● fasi nitrurate

● bruno-dorate

M MolyGlide





**CONSIGLI PER L'IMPIEGO DI PUNTE ELICOIDALI CONVENZIONALI**
**Tabella N. 28**

 Articolo nr. **R**

 Articolo nr. **L**

Norma/DIN

Materiale tagliente

Tratt. di superficie

Tipo

I numeri in grassetto della colonna avanzamento indicano gli utensili da preferire.

Ø utensile mm	Num. colonna avanzamento								
	1	2	3	4	5	6	7	8	9
	f (mm/U)								
<b>0,50</b>	0,004	0,006	0,007	0,008	0,010	0,012	0,014	0,016	0,019
<b>1,00</b>	0,006	0,008	0,012	0,014	0,016	0,018	0,020	0,023	0,025
<b>2,00</b>	0,020	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125
<b>2,50</b>	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160
<b>3,15</b>	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,160
<b>4,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,200
<b>5,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250
<b>6,30</b>	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315
<b>8,00</b>	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,315
<b>10,00</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,400
<b>12,50</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500
<b>16,00</b>	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630
<b>20,00</b>	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,630
<b>25,00</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	0,800
<b>31,50</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000
<b>40,00</b>	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000	1,250
<b>50,00</b>	0,250	0,310	0,400	0,500	0,630	0,800	1,000	1,250	1,250
<b>63,00</b>	0,315	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600
<b>80,00</b>	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600	2,000

Refrigerante:

● Aria

● Olio

● Emulsione

Direzione di taglio:

**R** destre

**L** sinistre

**HARTNER**

Materiali	Esempi di materiale Numeri in grassetto = nr. materiale a DIN EN 10 027	Resistenza N/mm <sup>2</sup>	Durezza	Refrigerante
Acciai da costruzione	<b>1.0035</b> S185(S133), <b>1.0486</b> P275N(STE285), <b>1.0345</b> P235GH(H1), <b>1.0425</b> P265GH(H2) <b>1.0050</b> E295 (St50-2), <b>1.0070</b> E360 (St70-2), <b>1.8937</b> P500NH (WStE500)	≤500 ≤1000		●
Acciai automatici	<b>1.0718</b> 11SMnPb30 (9SMnPb28), <b>1.0736</b> 11SMn37 (9SMn36) <b>1.0727</b> 46S20 (45S20), <b>1.0728</b> (60S20), <b>1.0757</b> 46SPb20 (45SPb20)	≤850 ≤1000		●
Acciai da bonifica non legati	<b>1.0402</b> C22, <b>1.1178</b> C30E (Ck30) <b>1.0503</b> C45, <b>1.1191</b> C45E (Ck45) <b>1.0601</b> C60, <b>1.1221</b> C60E (Ck60)	≤700 ≤850 ≤1000		●
Acciai da bonifica legati	<b>1.5131</b> 50MnSi4, <b>1.7003</b> 38Cr2, <b>1.7030</b> 28Cr4 <b>1.5710</b> 36NiCr6, <b>1.7035</b> 41Cr4, <b>1.7225</b> 42CrMo4	≤1000 ≤1400		●
Acciai da cementazione non legati	<b>1.0301</b> (C10), <b>1.1121</b> C10E (Ck10)	≤850		●
Acciai da cementazione legati	<b>1.7276</b> 10CrMo11, <b>1.5125</b> 11MnSi6 <b>1.5752</b> 15NiCr13, <b>1.7131</b> 16MnCr5, <b>1.7264</b> 20CrMo5	≤1000 ≤1400		●
Acciai nitrurati	<b>1.8504</b> 34CrAl6 <b>1.8519</b> 31CrMoV9, <b>1.8550</b> 34CrAlNi7	≤1000 ≤1400		●
Acciai utensili	<b>1.1750</b> C75W, <b>1.2067</b> 102Cr6, <b>1.2307</b> 29CrMoV9 <b>1.2080</b> X210Cr12, <b>1.2083</b> X42Cr13, <b>1.2419</b> 105WCr6, <b>1.2767</b> X45NiCrMo4	≤850 ≤1400		●
Acciai super rapidi	<b>1.3243</b> S 6-5-2-5, <b>1.3343</b> S 6-5-2, <b>1.3344</b> S 6-5-3	≤1400		●
Acciai per molle	<b>1.5026</b> 55Si7, <b>1.7176</b> 55Cr3, <b>1.8159</b> 51CrV4 (51CrV4)		≤350 HB	●
Acciai inossidabili, allo zolfo	<b>1.4005</b> X12CrS13, <b>1.4104</b> X14CrMoS17, <b>1.4105</b> X6CrMoS17, <b>1.4305</b> X8CrNiS18-9 austenitici <b>1.4301</b> X5CrNi18-10 (V2A), <b>1.4541</b> X6CrNiTi18-10, <b>1.4571</b> X6CrNiMoTi 17-12-2 (V4A) martensitici <b>1.4057</b> X20CrNi172 (X17CrNi16-2), <b>1.4122</b> X39CrMo17-1, <b>1.4521</b> X2CrMoTi18-2	≤900 ≤1100 ≤1500		●
Acciai temprati	-		≤48 HRC ≤66 HRC	●
Leghe speciali	Nimonic, Inconel, Monel, Hastelloy	≤2000		●
Ghise	<b>0.6010</b> EN-GJL-100 (GG10), <b>0.6020</b> EN-GJL-200 (GG20) <b>0.6025</b> EN-GJL-250 (GG25), <b>0.6035</b> EN-GJL-350 (GG35)		≤240 HB ≤350 HB	●
Ghise sferoidali, ghise temperate	<b>0.7050</b> EN-GJS-500-7 (GGG50), <b>0.8035</b> EN-GJMW-350-4 (GTW35) <b>0.7070</b> EN-GJS-700-2 (GGG70), <b>0.8170</b> EN-GJMB-700-2 (GTS70)		≤240 HB ≤350 HB	●
Ghisa in conchiglia	-		≤350 HB	●
Titanio e leghe di titanio	<b>3.7024</b> Ti99,5, <b>3.7114</b> TiAl5Sn2,5, <b>3.7124</b> TiCu2 <b>3.7154</b> TiAl6Zr5, <b>3.7165</b> TiAl6V4, <b>3.7184</b> TiAl4Mo4Sn2,5, - TiAl8Mo1V1	≤850 ≤1400		●
Alluminio e leghe di alu	<b>3.0255</b> Al99,5, <b>3.2315</b> AlMgSi1, <b>3.3515</b> AlMg1	≤400		●
Leghe di alu per lav. plastiche	<b>3.0615</b> AlMgSiPb, <b>3.1325</b> AlCuMg1, <b>3.3245</b> AlMg3Si, <b>3.4365</b> AlZnMgCu1,5	≤650		●
Leghe di alu-ghisa ≤ 10 % Si	<b>3.2131</b> G-AlSi5Cu1, <b>3.2153</b> G-AlSi7Cu3, <b>3.2573</b> G-AlSi9	≤600		●
> 10 % Si	<b>3.2581</b> G-AlSi12, <b>3.2583</b> G-AlSi12Cu, - G-AlSi12CuNiMg	≤600		●
Leghe di magnesio	<b>3.5200</b> MgMn2, <b>3.5812.05</b> G-MgAl8Zn1, <b>3.5612.05</b> G-MgAl6Zn1	≤400		●
Rame legato in bassa %	<b>2.0070</b> SE-Cu, <b>2.1020</b> CuSn6, <b>2.1096</b> G-CuSn5ZnPb	≤500		●
Ottone, a truciolo corto	<b>2.0380</b> CuZn39Pb2, <b>2.0401</b> CuZn39Pb3, <b>2.0410</b> CuZn43Pb2	≤600		●
a truciolo lungo	<b>2.0250</b> CuZn20, <b>2.0280</b> CuZn33, <b>2.0332</b> CuZn37Pb0,5	≤600		●
Bronzi a truciolo corto	<b>2.1090</b> CuSn7ZnPb, <b>2.1170</b> CuPb5Sn5, <b>2.1176</b> CuPb10Sn <b>2.0790</b> CuNi18Zn19Pb	≤600 ≤850		●
Bronzi a truciolo lungo	<b>2.0916</b> CuAl5, <b>2.0960</b> CuAl9Mn, <b>2.1050</b> CuSn10 <b>2.0980</b> CuAl11Ni, <b>2.1247</b> CuBe2	≤850 ≤1000		●
Mat. plastiche termodurenti	Resina epossidica, Resopal, Pertinax, Moltopren	≤150		○
Materie termoplastiche	Plexiglas, Hostalen, Novodur, Makralon	≤100		○
Nuove ghise GGV	<b>EN-GJV250</b> (GGV25), <b>EN-GJV350</b> (GGV35) <b>EN-GJV400</b> (GGV40), <b>EN-GJV500</b> (GGV50), SiMo 6		≤220 HB ≤300 HB	●
Nuove ghise ADI	<b>EN-GJS-800-8</b> (ADI800), <b>EN-GJS-1000-5</b> (ADI1000) <b>EN-GJS-1200-2</b> (ADI1200), <b>EN-GJS-1400-1</b> (ADI1400)	≤1000 ≤1400		●
Mat. plast. a fibre aramidiche	Kevlar	≤1000		○
a fibre di vetro/C rinforzate	GFK/CFK	≤1000		○

○ lucide











● trattati a vapore





● fasi nitrurate

● bruno-dorate

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**≤5xD**

81010	81017	81586	81587	81588	82010	81020	81030	82030	81040
81015						81025	81035		81045
338	338	N.d.F.	N.d.F.	N.d.F.	345	338	338	345	338
<b>HSS</b>									
									
N	N	N	N	N	N	H	W	W	FN

84405	84460	84415	84502
338	345	338	338
<b>HSS</b>			<b>HSS</b>
			
N	N	FN	FN



Vc m/min	Num. col. avanzam.								
27	6	6	6	6	6	6	5		6
22	5	5	5	5	5	5			5
30	6	6	6	6	6	6	6		6
30	5	5	5	5	5	5			5
25	5	5	5	5	5	5			5
25	5	5	5	5	5	5			5
30	6	6	6	6	6	6			6
16	4	4	4	4	4	4			4
30	6	6	6	6	6	6			6
30	6	6	6	6	6	6			6
25	6	6	6	6	6	6			6
25	6	6	6	6	6	6			6
70	7	7	7	7	7	7		7	7
70	6	6	6	6	6	6			6
50	6	6	6	6	6	6	6		6
50	5	5	5	5	5	5		5	5
70						6		5	5
40	5	5	5	5	5	5			5
30	4	4	4	4	4	4	4		
25	4	4	4	4	4	4			
15	4	4	4	4	4	4			4
18	4	4	4	4	4	4	4		4
28	5	5	5	5	5	5	5	5	5

Vc m/min	Num. col. avanzam.			Num. col. avanzam.
30	6	6	6	7
24	5	5	5	6
33	6	6	6	7
33	5	5	5	6
28	5	5	5	6
28	5	5	5	6
25	4	4	4	5
22	4	4	4	5
33	6	6	6	7
20	4	4	4	5
14	4	4	4	5
18	4	4	4	5
33	6	6	6	7
33	6	6	6	7
28	6	6	6	7
22	6	6	6	7
85				8
85				8
60				8
60				7
80	6	6		7
65	5	5	5	6
75	5	5	5	6
45	5	5	5	6
33	4	4		
27	4	4		
16	4	4	4	5
15	4	4	4	5
22	4	4	4	5
30	5	5		

**A** TiAIN

**a** nanoA

**A** SuperA

**C** TiCN

**F** FIRE

**T** TiN

**Y** TiAISiN

**CONSIGLI PER L'IMPIEGO DI PUNTE ELICOIDALI CONVENZIONALI**
**Tabella N. 29**
**Articolo nr. R**
**Articolo nr. L**
**Norma/DIN**
**Materiale tagliente**
**Tratt. di superficie**
**Tipo**

I numeri in grassetto della colonna avanzamento indicano gli utensili da preferire.

Ø utensile mm	Num. colonna avanzamento								
	1	2	3	4	5	6	7	8	9
	f (mm/U)								
<b>0,50</b>	0,004	0,006	0,007	0,008	0,010	0,012	0,014	0,016	0,019
<b>1,00</b>	0,006	0,008	0,012	0,014	0,016	0,018	0,020	0,023	0,025
<b>2,00</b>	0,020	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125
<b>2,50</b>	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160
<b>3,15</b>	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,160
<b>4,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,200
<b>5,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250
<b>6,30</b>	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315
<b>8,00</b>	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,315
<b>10,00</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,400
<b>12,50</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500
<b>16,00</b>	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630
<b>20,00</b>	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,630
<b>25,00</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	0,800
<b>31,50</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000
<b>40,00</b>	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000	1,250
<b>50,00</b>	0,250	0,310	0,400	0,500	0,630	0,800	1,000	1,250	1,250
<b>63,00</b>	0,315	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600
<b>80,00</b>	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600	2,000

Refrigerante:

○ Aria

● Olio

● Emulsione

Direzione di taglio:

R destre

L sinistre

Materiali	Esempi di materiale Numeri in grassetto = nr. materiale a DIN EN 10 027	Resistenza N/mm <sup>2</sup>	Durezza	Refrigerante
Acciai da costruzione	<b>1.0035</b> S185(S133), <b>1.0486</b> P275N(STE285), <b>1.0345</b> P235GH(H1), <b>1.0425</b> P265GH(H2) <b>1.0050</b> E295 (St50-2), <b>1.0070</b> E360 (St70-2), <b>1.8937</b> P500NH (WStE500)	≤500 ≤1000		●
Acciai automatici	<b>1.0718</b> 11SMnPb30 (9SMnPb28), <b>1.0736</b> 11SMn37 (9SMn36) <b>1.0727</b> 46S20 (45S20), <b>1.0728</b> (60S20), <b>1.0757</b> 46SPb20 (45SPb20)	≤850 ≤1000		●
Acciai da bonifica non legati	<b>1.0402</b> C22, <b>1.1178</b> C30E (Ck30) <b>1.0503</b> C45, <b>1.1191</b> C45E (Ck45) <b>1.0601</b> C60, <b>1.1221</b> C60E (Ck60)	≤700 ≤850 ≤1000		●
Acciai da bonifica legati	<b>1.5131</b> 50MnSi4, <b>1.7003</b> 38Cr2, <b>1.7030</b> 28Cr4 <b>1.5710</b> 36NiCr6, <b>1.7035</b> 41Cr4, <b>1.7225</b> 42CrMo4	≤1000 ≤1400		●
Acciai da cementazione non legati	<b>1.0301</b> (C10), <b>1.1121</b> C10E (Ck10)	≤850		●
Acciai da cementazione legati	<b>1.7276</b> 10CrMo11, <b>1.5125</b> 11MnSi6 <b>1.5752</b> 15NiCr13, <b>1.7131</b> 16MnCr5, <b>1.7264</b> 20CrMo5	≤1000 ≤1400		●
Acciai nitrurati	<b>1.8504</b> 34CrAl6 <b>1.8519</b> 31CrMoV9, <b>1.8550</b> 34CrAlNi7	≤1000 ≤1400		●
Acciai utensili	<b>1.1750</b> C75W, <b>1.2067</b> 102Cr6, <b>1.2307</b> 29CrMoV9 <b>1.2080</b> X210Cr12, <b>1.2083</b> X42Cr13, <b>1.2419</b> 105WCr6, <b>1.2767</b> X45NiCrMo4	≤850 ≤1400		●
Acciai super rapidi	<b>1.3243</b> S 6-5-2-5, <b>1.3343</b> S 6-5-2, <b>1.3344</b> S 6-5-3	≤1400		●
Acciai per molle	<b>1.5026</b> 55Si7, <b>1.7176</b> 55Cr3, <b>1.8159</b> 51CrV4 (51CrV4)		≤350 HB	●
Acciai inossidabili, allo zolfo	<b>1.4005</b> X12CrS13, <b>1.4104</b> X14CrMoS17, <b>1.4105</b> X6CrMoS17, <b>1.4305</b> X8CrNiS18-9 <b>1.4301</b> X5CrNi18-10 (V2A), <b>1.4541</b> X6CrNiTi18-10, <b>1.4571</b> X6CrNiMoTi 17-12-2 (V4A) <b>1.4057</b> X20CrNi172 (X17CrNi16-2), <b>1.4122</b> X39CrMo17-1, <b>1.4521</b> X2CrMoTi18-2	≤900 ≤1100 ≤1500		●
Acciai temprati	-		≤48 HRC ≤66 HRC	●
Leghe speciali	Nimonic, Inconel, Monel, Hastelloy	≤2000		●
Ghise	<b>0.6010</b> EN-GJL-100 (GG10), <b>0.6020</b> EN-GJL-200 (GG20) <b>0.6025</b> EN-GJL-250 (GG25), <b>0.6035</b> EN-GJL-350 (GG35)		≤240 HB ≤350 HB	●○
Ghise sferoidali, ghise temperate	<b>0.7050</b> EN-GJS-500-7 (GGG50), <b>0.8035</b> EN-GJMW-350-4 (GTW35) <b>0.7070</b> EN-GJS-700-2 (GGG70), <b>0.8170</b> EN-GJMB-700-2 (GTS70)		≤240 HB ≤350 HB	●○
Ghisa in conchiglia	-		≤350 HB	●
Titanio e leghe di titanio	<b>3.7024</b> Ti99,5, <b>3.7114</b> TiAl5Sn2,5, <b>3.7124</b> TiCu2 <b>3.7154</b> TiAl6Zr5, <b>3.7165</b> TiAl6V4, <b>3.7184</b> TiAl4Mo4Sn2,5, - TiAl8Mo1V1	≤850 ≤1400		●
Alluminio e leghe di alu	<b>3.0255</b> Al99,5, <b>3.2315</b> AlMgSi1, <b>3.3515</b> AlMg1	≤400		●
Leghe di alu per lav. plastiche	<b>3.0615</b> AlMgSiPb, <b>3.1325</b> AlCuMg1, <b>3.3245</b> AlMg3Si, <b>3.4365</b> AlZnMgCu1,5	≤650		●
Leghe di alu-ghisa ≤ 10 % Si	<b>3.2131</b> G-AlSi5Cu1, <b>3.2153</b> G-AlSi7Cu3, <b>3.2573</b> G-AlSi9	≤600		●
> 10 % Si	<b>3.2581</b> G-AlSi12, <b>3.2583</b> G-AlSi12Cu, - G-AlSi12CuNiMg	≤600		●
Leghe di magnesio	<b>3.5200</b> MgMn2, <b>3.5812.05</b> G-MgAl8Zn1, <b>3.5612.05</b> G-MgAl6Zn1	≤400		○
Rame legato in bassa %	<b>2.0070</b> SE-Cu, <b>2.1020</b> CuSn6, <b>2.1096</b> G-CuSn5ZnPb	≤500		●
Ottone, a truciolo corto	<b>2.0380</b> CuZn39Pb2, <b>2.0401</b> CuZn39Pb3, <b>2.0410</b> CuZn43Pb2	≤600		●
a truciolo lungo	<b>2.0250</b> CuZn20, <b>2.0280</b> CuZn33, <b>2.0332</b> CuZn37Pb0,5	≤600		●
Bronzi a truciolo corto	<b>2.1090</b> CuSn7ZnPb, <b>2.1170</b> CuPb5Sn5, <b>2.1176</b> CuPb10Sn <b>2.0790</b> CuNi18Zn19Pb	≤600 ≤850		●●
Bronzi a truciolo lungo	<b>2.0916</b> CuAl5, <b>2.0960</b> CuAl9Mn, <b>2.1050</b> CuSn10 <b>2.0980</b> CuAl11Ni, <b>2.1247</b> CuBe2	≤850 ≤1000		●
Mat. plastiche termoindurenti	Resina epossidica, Resopal, Pertinax, Moltopren	≤150		○
Materie termoplastiche	Plexiglas, Hostalen, Novodur, Makralon	≤100		○
Nuove ghise GGv	<b>EN-GJV250</b> (GGV25), <b>EN-GJV350</b> (GGV35) <b>EN-GJV400</b> (GGV40), <b>EN-GJV500</b> (GGV50), SiMo 6		≤220 HB ≤300 HB	●○
Nuove ghise ADI	<b>EN-GJS-800-8</b> (ADI800), <b>EN-GJS-1000-5</b> (ADI1000) <b>EN-GJS-1200-2</b> (ADI1200), <b>EN-GJS-1400-1</b> (ADI1400)	≤1000 ≤1400		●○
Mat. plast. a fibre aramidiche	Kevlar	≤1000		○
a fibre di vetro/C rinforzate	GFK/CFK	≤1000		○

○ lucide








● trattati a vapore



● fasi nitrurate



● bruno-dorate


M MolyGlide

≤5xD

81011	82011	81041	81061	81013	82012	81012
338	345	338	338	338	345	338
HSS-E						M42
						

84800	84807
338	338
HSS-E	
	
FN	S

84504	84505
338	338
HSS-E	
	
FN	S

84715
338
HSS-E

FN



Vc m/min	Num. col. avanzam.					
35	5	5	5	5	5	5
30	5	5	5	5	5	5
40	5	5	5	5	5	5
40	5	5	5	5	5	5
40	5	5	5	5	5	5
40	5	5	5	5	5	5
35	4	4	4	5	5	5
20	4	4	4	4	4	4
16	3	3	3	3	3	3
36	6	6	6	6	6	6
20	4	4	4	3	3	3
15	3	3	3	3	3	3
16	4	4	4	3	3	3
12	3	3	3	3	3	3
15	4	4	4	3	3	3
12	3	3	3	3	3	3
15	3	3	3	3	3	3
8	2	2	2	2	2	2
18	4	4	4	4	4	3
14	3	3	3	3	3	3
16	3	3	3	3	3	3
4						1
8			1			1
35	6	6	6			5
30	6	6	6			5
30	6	6	6			5
28	6	6	6			5
10	3	3	3	3		3
10			2	2	2	2
6			2	2	2	2
90				7	7	7
90				7	7	7
80			7	7	7	7
70			6	6	6	6
70				6	6	6
40	5	5	5	5	5	5
60				5	5	5
40	5	5	4	5	5	5
35	4	4		4	4	4
33	4	4		4	4	4
20	4	4	4	4	4	4
15	4	4	4	1	1	4
20	4	4	4			

Vc m/min	Num. col. avanzam.	
38	6	
33	5	
44	5	
38	5	
44	5	
38	4	
27	4	
22	3	3
44	4	
22	4	
18	3	
22	4	
18	3	
19	4	
14	3	
14	3	3
9	2	
20	4	4
15	3	
18	3	3
6		2
40	6	
35	6	
33	6	
27	6	
12		3
11		2
7		2
88	5	
22	4	
17	4	4
22	4	

Vc m/min	Num. col. avanzam.	
42	6	
36	5	
48	6	
42	6	
48	6	
42	5	
30	5	
34	4	4
48	6	
24	5	
20	4	
24	5	
20	4	
21	5	
16	4	
17	4	4
11	3	2
22	5	5
17	4	3
20	4	4
6	1	
7		2
45	7	
40	7	
36	7	
29	7	
14	4	3
12		2
8		2
85	8	
72	7	
96	6	
25	5	
20	5	4
24	5	

Vc m/min	Num. col. avanzam.
42	6
36	6
48	6
42	6
42	5
30	5
34	4
48	7
24	5
20	4
20	5
15	4
21	5
16	4
17	4
11	3
22	5
18	4

 TiAIN

 nanoA

 SuperA

 TiCN

 FIRE

 TiN

 TiAISiN

**CONSIGLI PER L'IMPIEGO DI PUNTE ELICOIDALI CONVENZIONALI**
**Tabella N. 30**
**Articolo nr. R**
**Articolo nr. L**
**Norma/DIN**
**Materiale tagliente**
**Tratt. di superficie**
**Tipo**

I numeri in grassetto della colonna avanzamento indicano gli utensili da preferire.

Ø utensile mm	Num. colonna avanzamento								
	1	2	3	4	5	6	7	8	9
	f (mm/U)								
<b>0,50</b>	0,004	0,006	0,007	0,008	0,010	0,012	0,014	0,016	0,019
<b>1,00</b>	0,006	0,008	0,012	0,014	0,016	0,018	0,020	0,023	0,025
<b>2,00</b>	0,020	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125
<b>2,50</b>	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160
<b>3,15</b>	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,160
<b>4,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,200
<b>5,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250
<b>6,30</b>	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315
<b>8,00</b>	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,315
<b>10,00</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,400
<b>12,50</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500
<b>16,00</b>	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630
<b>20,00</b>	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,630
<b>25,00</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	0,800
<b>31,50</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000
<b>40,00</b>	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000	1,250
<b>50,00</b>	0,250	0,310	0,400	0,500	0,630	0,800	1,000	1,250	1,250
<b>63,00</b>	0,315	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600
<b>80,00</b>	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600	2,000

Refrigerante:

○ Aria

● Olio

● Emulsione

Direzione di taglio:

R destre

L sinistre


**HARTNER**

Materiali	Esempi di materiale Numeri in grassetto = nr. materiale a DIN EN 10 027	Resistenza N/mm <sup>2</sup>	Durezza	Refrigerante
Acciai da costruzione	<b>1.0035</b> S185(S133), <b>1.0486</b> P275N(STE285), <b>1.0345</b> P235GH(H1), <b>1.0425</b> P265GH(H2) <b>1.0050</b> E295 (St50-2), <b>1.0070</b> E360 (St70-2), <b>1.8937</b> P500NH (WStE500)	≤500 ≤1000		●
Acciai automatici	<b>1.0718</b> 11SMnPb30 (9SMnPb28), <b>1.0736</b> 11SMn37 (9SMn36) <b>1.0727</b> 46S20 (45S20), <b>1.0728</b> (60S20), <b>1.0757</b> 46SPb20 (45SPb20)	≤850 ≤1000		●
Acciai da bonifica non legati	<b>1.0402</b> C22, <b>1.1178</b> C30E (Ck30) <b>1.0503</b> C45, <b>1.1191</b> C45E (Ck45) <b>1.0601</b> C60, <b>1.1221</b> C60E (Ck60)	≤700 ≤850 ≤1000		●
Acciai da bonifica legati	<b>1.5131</b> 50MnSi4, <b>1.7003</b> 38Cr2, <b>1.7030</b> 28Cr4 <b>1.5710</b> 36NiCr6, <b>1.7035</b> 41Cr4, <b>1.7225</b> 42CrMo4	≤1000 ≤1400		●
Acciai da cementazione non legati	<b>1.0301</b> (C10), <b>1.1121</b> C10E (Ck10)	≤850		●
Acciai da cementazione legati	<b>1.7276</b> 10CrMo11, <b>1.5125</b> 11MnSi6 <b>1.5752</b> 15NiCr13, <b>1.7131</b> 16MnCr5, <b>1.7264</b> 20CrMo5	≤1000 ≤1400		●
Acciai nitrurati	<b>1.8504</b> 34CrAl6 <b>1.8519</b> 31CrMoV9, <b>1.8550</b> 34CrAlNi7	≤1000 ≤1400		●
Acciai utensili	<b>1.1750</b> C75W, <b>1.2067</b> 102Cr6, <b>1.2307</b> 29CrMoV9 <b>1.2080</b> X210Cr12, <b>1.2083</b> X42Cr13, <b>1.2419</b> 105WCr6, <b>1.2767</b> X45NiCrMo4	≤850 ≤1400		●
Acciai super rapidi	<b>1.3243</b> S 6-5-2-5, <b>1.3343</b> S 6-5-2, <b>1.3344</b> S 6-5-3	≤1400		●
Acciai per molle	<b>1.5026</b> 55Si7, <b>1.7176</b> 55Cr3, <b>1.8159</b> 51CrV4 (51CrV4)		≤350 HB	●
Acciai inossidabili, allo zolfo	<b>1.4005</b> X12CrS13, <b>1.4104</b> X14CrMoS17, <b>1.4105</b> X6CrMoS17, <b>1.4305</b> X8CrNiS18-9 <b>1.4301</b> X5CrNi18-10 (V2A), <b>1.4541</b> X6CrNiTi18-10, <b>1.4571</b> X6CrNiMoTi 17-12-2 (V4A) <b>1.4057</b> X20CrNi172 (X17CrNi16-2), <b>1.4122</b> X39CrMo17-1, <b>1.4521</b> X2CrMoTi18-2	≤900 ≤1100 ≤1500		●
Acciai temprati	-		≤48 HRC ≤66 HRC	●
Leghe speciali	Nimonic, Inconel, Monel, Hastelloy	≤2000		●
Ghise	<b>0.6010</b> EN-GJL-100 (GG10), <b>0.6020</b> EN-GJL-200 (GG20) <b>0.6025</b> EN-GJL-250 (GG25), <b>0.6035</b> EN-GJL-350 (GG35)		≤240 HB ≤350 HB	●○
Ghise sferoidali, ghise temperate	<b>0.7050</b> EN-GJS-500-7 (GGG50), <b>0.8035</b> EN-GJMW-350-4 (GTW35) <b>0.7070</b> EN-GJS-700-2 (GGG70), <b>0.8170</b> EN-GJMB-700-2 (GTS70)		≤240 HB ≤350 HB	●○
Ghisa in conchiglia	-		≤350 HB	●
Titanio e leghe di titanio	<b>3.7024</b> Ti99,5, <b>3.7114</b> TiAl5Sn2,5, <b>3.7124</b> TiCu2 <b>3.7154</b> TiAl6Zr5, <b>3.7165</b> TiAl6V4, <b>3.7184</b> TiAl4Mo4Sn2,5, - TiAl8Mo1V1	≤850 ≤1400		●
Alluminio e leghe di alu	<b>3.0255</b> Al99,5, <b>3.2315</b> AlMgSi1, <b>3.3515</b> AlMg1	≤400		●
Leghe di alu per lav. plastiche	<b>3.0615</b> AlMgSiPb, <b>3.1325</b> AlCuMg1, <b>3.3245</b> AlMg3Si, <b>3.4365</b> AlZnMgCu1,5	≤650		●
Leghe di alu-ghisa ≤ 10 % Si	<b>3.2131</b> G-AlSi5Cu1, <b>3.2153</b> G-AlSi7Cu3, <b>3.2573</b> G-AlSi9	≤600		●
> 10 % Si	<b>3.2581</b> G-AlSi12, <b>3.2583</b> G-AlSi12Cu, - G-AlSi12CuNiMg	≤600		●
Leghe di magnesio	<b>3.5200</b> MgMn2, <b>3.5812.05</b> G-MgAl8Zn1, <b>3.5612.05</b> G-MgAl6Zn1	≤400		○
Rame legato in bassa %	<b>2.0070</b> SE-Cu, <b>2.1020</b> CuSn6, <b>2.1096</b> G-CuSn5ZnPb	≤500		●
Ottone, a truciolo corto	<b>2.0380</b> CuZn39Pb2, <b>2.0401</b> CuZn39Pb3, <b>2.0410</b> CuZn43Pb2	≤600		●
a truciolo lungo	<b>2.0250</b> CuZn20, <b>2.0280</b> CuZn33, <b>2.0332</b> CuZn37Pb0,5	≤600		●
Bronzi a truciolo corto	<b>2.1090</b> CuSn7ZnPb, <b>2.1170</b> CuPb5Sn5, <b>2.1176</b> CuPb10Sn <b>2.0790</b> CuNi18Zn19Pb	≤600 ≤850		●●
Bronzi a truciolo lungo	<b>2.0916</b> CuAl5, <b>2.0960</b> CuAl9Mn, <b>2.1050</b> CuSn10 <b>2.0980</b> CuAl11Ni, <b>2.1247</b> CuBe2	≤850 ≤1000		●
Mat. plastiche termoidruranti	Resina epossidica, Resopal, Pertinax, Moltopren	≤150		○
Materie termoplastiche	Plexiglas, Hostalen, Novodur, Makralon	≤100		○
Nuove ghise GGv	<b>EN-GJV250</b> (GGV25), <b>EN-GJV350</b> (GGV35) <b>EN-GJV400</b> (GGV40), <b>EN-GJV500</b> (GGV50), SiMo 6		≤220 HB ≤300 HB	●○
Nuove ghise ADI	<b>EN-GJS-800-8</b> (ADI800), <b>EN-GJS-1000-5</b> (ADI1000) <b>EN-GJS-1200-2</b> (ADI1200), <b>EN-GJS-1400-1</b> (ADI1400)	≤1000 ≤1400		●○
Mat. plast. a fibre aramidiche	Kevlar	≤1000		○
a fibre di vetro/C rinforzate	GFK/CFK	≤1000		○

○ lucide

● trattati a vapore

● fasi nitrurate

● bruno-dorate

M MolyGlide



**CONSIGLI PER L'IMPIEGO DI PUNTE ELICOIDALI CONVENZIONALI**
**Tabella N. 31**
**Articolo nr. R**
**Articolo nr. L**
**Norma/DIN**
**Materiale tagliente**
**Tratt. di superficie**
**Tipo**

I numeri in grassetto della colonna avanzamento indicano gli utensili da preferire.

Ø utensile mm	Num. colonna avanzamento								
	1	2	3	4	5	6	7	8	9
	f (mm/U)								
<b>0,50</b>	0,004	0,006	0,007	0,008	0,010	0,012	0,014	0,016	0,019
<b>1,00</b>	0,006	0,008	0,012	0,014	0,016	0,018	0,020	0,023	0,025
<b>2,00</b>	0,020	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125
<b>2,50</b>	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160
<b>3,15</b>	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,160
<b>4,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,200
<b>5,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250
<b>6,30</b>	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315
<b>8,00</b>	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,315
<b>10,00</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,400
<b>12,50</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500
<b>16,00</b>	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630
<b>20,00</b>	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,630
<b>25,00</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	0,800
<b>31,50</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000
<b>40,00</b>	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000	1,250
<b>50,00</b>	0,250	0,310	0,400	0,500	0,630	0,800	1,000	1,250	1,250
<b>63,00</b>	0,315	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600
<b>80,00</b>	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600	2,000

Refrigerante:

○ Aria

● Olio

● Emulsione

Direzione di taglio:

R destre

L sinistre


**HARTNER**

Materiali	Esempi di materiale Numeri in grassetto = nr. materiale a DIN EN 10 027	Resistenza N/mm <sup>2</sup>	Durezza	Refrigerante
Acciai da costruzione	<b>1.0035</b> S185(S133), <b>1.0486</b> P275N(STE285), <b>1.0345</b> P235GH(H1), <b>1.0425</b> P265GH(H2) <b>1.0050</b> E295 (St50-2), <b>1.0070</b> E360 (St70-2), <b>1.8937</b> P500NH (WStE500)	≤500 ≤1000		●
Acciai automatici	<b>1.0718</b> 11SMnPb30 (9SMnPb28), <b>1.0736</b> 11SMn37 (9SMn36) <b>1.0727</b> 46S20 (45S20), <b>1.0728</b> (60S20), <b>1.0757</b> 46SPb20 (45SPb20)	≤850 ≤1000		●
Acciai da bonifica non legati	<b>1.0402</b> C22, <b>1.1178</b> C30E (Ck30) <b>1.0503</b> C45, <b>1.1191</b> C45E (Ck45) <b>1.0601</b> C60, <b>1.1221</b> C60E (Ck60)	≤700 ≤850 ≤1000		●
Acciai da bonifica legati	<b>1.5131</b> 50MnSi4, <b>1.7003</b> 38Cr2, <b>1.7030</b> 28Cr4 <b>1.5710</b> 36NiCr6, <b>1.7035</b> 41Cr4, <b>1.7225</b> 42CrMo4	≤1000 ≤1400		●
Acciai da cementazione non legati	<b>1.0301</b> (C10), <b>1.1121</b> C10E (Ck10)	≤850		●
Acciai da cementazione legati	<b>1.7276</b> 10CrMo11, <b>1.5125</b> 11MnSi6 <b>1.5752</b> 15NiCr13, <b>1.7131</b> 16MnCr5, <b>1.7264</b> 20CrMo5	≤1000 ≤1400		●
Acciai nitrurati	<b>1.8504</b> 34CrAl6 <b>1.8519</b> 31CrMoV9, <b>1.8550</b> 34CrAlNi7	≤1000 ≤1400		●
Acciai utensili	<b>1.1750</b> C75W, <b>1.2067</b> 102Cr6, <b>1.2307</b> 29CrMoV9 <b>1.2080</b> X210Cr12, <b>1.2083</b> X42Cr13, <b>1.2419</b> 105WCr6, <b>1.2767</b> X45NiCrMo4	≤850 ≤1400		●
Acciai super rapidi	<b>1.3243</b> S 6-5-2-5, <b>1.3343</b> S 6-5-2, <b>1.3344</b> S 6-5-3	≤1400		●
Acciai per molle	<b>1.5026</b> 55Si7, <b>1.7176</b> 55Cr3, <b>1.8159</b> 51CrV4 (51CrV4)		≤350 HB	●
Acciai inossidabili, allo zolfo	<b>1.4005</b> X12CrS13, <b>1.4104</b> X14CrMoS17, <b>1.4105</b> X6CrMoS17, <b>1.4305</b> X8CrNiS18-9 <b>1.4301</b> X5CrNi18-10 (V2A), <b>1.4541</b> X6CrNiTi18-10, <b>1.4571</b> X6CrNiMoTi 17-12-2 (V4A) <b>1.4057</b> X20CrNi172 (X17CrNi16-2), <b>1.4122</b> X39CrMo17-1, <b>1.4521</b> X2CrMoTi18-2	≤900 ≤1100 ≤1500		●
Acciai temprati	-		≤48 HRC ≤66 HRC	●
Leghe speciali	Nimonic, Inconel, Monel, Hastelloy	≤2000		●
Ghise	<b>0.6010</b> EN-GJL-100 (GG10), <b>0.6020</b> EN-GJL-200 (GG20) <b>0.6025</b> EN-GJL-250 (GG25), <b>0.6035</b> EN-GJL-350 (GG35)		≤240 HB ≤350 HB	●○
Ghise sferoidali, ghise temperate	<b>0.7050</b> EN-GJS-500-7 (GGG50), <b>0.8035</b> EN-GJMW-350-4 (GTW35) <b>0.7070</b> EN-GJS-700-2 (GGG70), <b>0.8170</b> EN-GJMB-700-2 (GTS70)		≤240 HB ≤350 HB	●○
Ghisa in conchiglia	-		≤350 HB	●
Titanio e leghe di titanio	<b>3.7024</b> Ti99,5, <b>3.7114</b> TiAl5Sn2,5, <b>3.7124</b> TiCu2 <b>3.7154</b> TiAl6Zr5, <b>3.7165</b> TiAl6V4, <b>3.7184</b> TiAl4Mo4Sn2,5, - TiAl8Mo1V1	≤850 ≤1400		●
Alluminio e leghe di alu	<b>3.0255</b> Al99,5, <b>3.2315</b> AlMgSi1, <b>3.3515</b> AlMg1	≤400		●
Leghe di alu per lav. plastiche	<b>3.0615</b> AlMgSiPb, <b>3.1325</b> AlCuMg1, <b>3.3245</b> AlMg3Si, <b>3.4365</b> AlZnMgCu1,5	≤650		●
Leghe di alu-ghisa ≤ 10 % Si	<b>3.2131</b> G-AlSi5Cu1, <b>3.2153</b> G-AlSi7Cu3, <b>3.2573</b> G-AlSi9	≤600		●
> 10 % Si	<b>3.2581</b> G-AlSi12, <b>3.2583</b> G-AlSi12Cu, - G-AlSi12CuNiMg	≤600		●
Leghe di magnesio	<b>3.5200</b> MgMn2, <b>3.5812.05</b> G-MgAl8Zn1, <b>3.5612.05</b> G-MgAl6Zn1	≤400		○
Rame legato in bassa %	<b>2.0070</b> SE-Cu, <b>2.1020</b> CuSn6, <b>2.1096</b> G-CuSn5ZnPb	≤500		●
Ottone, a truciolo corto	<b>2.0380</b> CuZn39Pb2, <b>2.0401</b> CuZn39Pb3, <b>2.0410</b> CuZn43Pb2	≤600		●
a truciolo lungo	<b>2.0250</b> CuZn20, <b>2.0280</b> CuZn33, <b>2.0332</b> CuZn37Pb0,5	≤600		●
Bronzi a truciolo corto	<b>2.1090</b> CuSn7ZnPb, <b>2.1170</b> CuPb5Sn5, <b>2.1176</b> CuPb10Sn <b>2.0790</b> CuNi18Zn19Pb	≤600 ≤850		●●
Bronzi a truciolo lungo	<b>2.0916</b> CuAl5, <b>2.0960</b> CuAl9Mn, <b>2.1050</b> CuSn10 <b>2.0980</b> CuAl11Ni, <b>2.1247</b> CuBe2	≤850 ≤1000		●
Mat. plastiche termoidruranti	Resina epossidica, Resopal, Pertinax, Moltopren	≤150		○
Materie termoplastiche	Plexiglas, Hostalen, Novodur, Makralon	≤100		○
Nuove ghise GGv	<b>EN-GJV250</b> (GGV25), <b>EN-GJV350</b> (GGV35) <b>EN-GJV400</b> (GGV40), <b>EN-GJV500</b> (GGV50), SiMo 6		≤220 HB ≤300 HB	●○
Nuove ghise ADI	<b>EN-GJS-800-8</b> (ADI800), <b>EN-GJS-1000-5</b> (ADI1000) <b>EN-GJS-1200-2</b> (ADI1200), <b>EN-GJS-1400-1</b> (ADI1400)	≤1000 ≤1400		●○
Mat. plast. a fibre aramidiche	Kevlar	≤1000		○
a fibre di vetro/C rinforzate	GFK/CFK	≤1000		○

○ lucide

● trattati a vapore









● fasi nitrurate



● bruno-dorate



M MolyGlide




≤10xD

81210	81317	81310	82210	81320	81330	81350	81340
339	340	340	341	340	340	340	340
<b>HSS</b>							
							
N	N	N	N	H	W	FW	FN

84814	84812
340	340
<b>HSS-E</b>	
	
FU500DZ	

84418	84423
340	340
<b>HSS</b>	
	
N	FN

84506
340
<b>HSS</b>

FN



V <sub>c</sub> m/min	Num. col. avanzam.							
24	6	6	6	6				6
20	5	5	5	5				5
27	6	6	6	6				6
27	5	5	5	5				5
22	5	5	5	5				5
22	5	5	5	5				5
27	6	6	6	6				6
14	4	4	4	4				4
27	6	6	6	6				6
27	6	6	6	6				6
22	6	6	6	6				6
18	6	6	6	6				6
65					7			7
65					7			7
45	7	7	7	7				7
45	6	6	6	6				6
63	6	6	6	6	6			6
54	5	5	5	5		5		5
63					6			6
36	5	5	5	5				5
28	4	4	4	4	4			4
22	4	4	4	4				4
22	4	4	4	4				4
14	4	4	4	4	4			4
22	5	5	5	5	5	5	5	5

V <sub>c</sub> m/min	Num. col. avanzam.	
32	6	6
25	5	5
35	6	6
28	6	6
28	6	6
25	6	6
15	5	5
13	4	4
12	3	3
28	6	6
14	4	4
12	3	3
13	4	4
8	3	3
13	4	4
10	3	3
10	3	3
13	4	4
8	4	4
12	4	4
32	6	6
26	6	6
28	6	6
20	6	6
50	7	7
50	7	7
60	7	7
50	6	6
50	6	6
24	5	5
50	5	5
28	5	5
35	4	4
25	4	4
24	4	4
20	4	4
18	4	4
12	4	4

V <sub>c</sub> m/min	Num. col. avanzam.	
28	6	6
22	5	5
30	6	6
30	5	5
25	5	5
25	5	5
22	4	4
18	4	4
30	6	6
14	4	4
12	4	4
16	4	4
10	3	3
30	6	6
30	6	6
24	6	6
20	6	6
50	7	7
50	6	6
70	6	6
60	5	5
40	5	5
30	4	4
25	4	4
14	4	4
12	4	4
18	4	4
32	5	5

V <sub>c</sub> m/min	Num. col. avanzam.
30	7
24	6
33	7
33	6
28	6
28	6
24	5
23	5
33	7
18	5
15	5
19	5
13	4
33	7
33	7
26	7
22	7
55	8
55	7
65	6
44	6
16	5
14	5
23	5

**CONSIGLI PER L'IMPIEGO DI PUNTE ELICOIDALI CONVENZIONALI**
**Tabella N. 32**
**Articolo nr. R**
**Norma/DIN**
**Materiale tagliente**
**Tratt. di superficie**
**Tipo**
**Refrigerante**

I numeri in grassetto della colonna avanzamento indicano gli utensili da preferire.

Ø utensile mm	Num. colonna avanzamento								
	1	2	3	4	5	6	7	8	9
	f (mm/U)								
<b>0,50</b>	0,004	0,006	0,007	0,008	0,010	0,012	0,014	0,016	0,019
<b>1,00</b>	0,006	0,008	0,012	0,014	0,016	0,018	0,020	0,023	0,025
<b>2,00</b>	0,020	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125
<b>2,50</b>	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160
<b>3,15</b>	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,160
<b>4,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,200
<b>5,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250
<b>6,30</b>	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315
<b>8,00</b>	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,315
<b>10,00</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,400
<b>12,50</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500
<b>16,00</b>	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630
<b>20,00</b>	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,630
<b>25,00</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	0,800
<b>31,50</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000
<b>40,00</b>	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000	1,250
<b>50,00</b>	0,250	0,310	0,400	0,500	0,630	0,800	1,000	1,250	1,250
<b>63,00</b>	0,315	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600
<b>80,00</b>	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600	2,000

Refrigerante:

○ Aria

● Olio

● Emulsione

Direzione di taglio:

R destre

L sinistre



Materiali	Esempi di materiale Numeri in grassetto = nr. materiale a DIN EN 10 027	Resistenza N/mm <sup>2</sup>	Durezza	Refrigerante
Acciai da costruzione	<b>1.0035</b> S185(S133), <b>1.0486</b> P275N(STE285), <b>1.0345</b> P235GH(H1), <b>1.0425</b> P265GH(H2) <b>1.0050</b> E295 (St50-2), <b>1.0070</b> E360 (St70-2), <b>1.8937</b> P500NH (WStE500)	≤500 ≤1000		●
Acciai automatici	<b>1.0718</b> 11SMnPb30 (9SMnPb28), <b>1.0736</b> 11SMn37 (9SMn36) <b>1.0727</b> 46S20 (45S20), <b>1.0728</b> (60S20), <b>1.0757</b> 46SPb20 (45SPb20)	≤850 ≤1000		●
Acciai da bonifica non legati	<b>1.0402</b> C22, <b>1.1178</b> C30E (Ck30) <b>1.0503</b> C45, <b>1.1191</b> C45E (Ck45) <b>1.0601</b> C60, <b>1.1221</b> C60E (Ck60)	≤700 ≤850 ≤1000		●
Acciai da bonifica legati	<b>1.5131</b> 50MnSi4, <b>1.7003</b> 38Cr2, <b>1.7030</b> 28Cr4 <b>1.5710</b> 36NiCr6, <b>1.7035</b> 41Cr4, <b>1.7225</b> 42CrMo4	≤1000 ≤1400		●
Acciai da cementazione non legati	<b>1.0301</b> (C10), <b>1.1121</b> C10E (Ck10)	≤850		●
Acciai da cementazione legati	<b>1.7276</b> 10CrMo11, <b>1.5125</b> 11MnSi6 <b>1.5752</b> 15NiCr13, <b>1.7131</b> 16MnCr5, <b>1.7264</b> 20CrMo5	≤1000 ≤1400		●
Acciai nitrurati	<b>1.8504</b> 34CrAl6 <b>1.8519</b> 31CrMoV9, <b>1.8550</b> 34CrAlNi7	≤1000 ≤1400		●
Acciai utensili	<b>1.1750</b> C75W, <b>1.2067</b> 102Cr6, <b>1.2307</b> 29CrMoV9 <b>1.2080</b> X210Cr12, <b>1.2083</b> X42Cr13, <b>1.2419</b> 105WCr6, <b>1.2767</b> X45NiCrMo4	≤850 ≤1400		●
Acciai super rapidi	<b>1.3243</b> S 6-5-2-5, <b>1.3343</b> S 6-5-2, <b>1.3344</b> S 6-5-3	≤1400		●
Acciai per molle	<b>1.5026</b> 55Si7, <b>1.7176</b> 55Cr3, <b>1.8159</b> 51CrV4 (51CrV4)		≤350 HB	●
Acciai inossidabili, allo zolfo	<b>1.4005</b> X12CrS13, <b>1.4104</b> X14CrMoS17, <b>1.4105</b> X6CrMoS17, <b>1.4305</b> X8CrNiS18-9 austenitici <b>1.4301</b> X5CrNi18-10 (V2A), <b>1.4541</b> X6CrNiTi18-10, <b>1.4571</b> X6CrNiMoTi 17-12-2 (V4A) martensitici <b>1.4057</b> X20CrNi172 (X17CrNi16-2), <b>1.4122</b> X39CrMo17-1, <b>1.4521</b> X2CrMoTi18-2	≤900 ≤1100 ≤1500		●
Acciai temprati	-		≤48 HRC ≤66 HRC	●
Leghe speciali	Nimonic, Inconel, Monel, Hastelloy	≤2000		●
Ghise	<b>0.6010</b> EN-GJL-100 (GG10), <b>0.6020</b> EN-GJL-200 (GG20) <b>0.6025</b> EN-GJL-250 (GG25), <b>0.6035</b> EN-GJL-350 (GG35)		≤240 HB ≤350 HB	●○
Ghise sferoidali, ghise temperate	<b>0.7050</b> EN-GJS-500-7 (GGG50), <b>0.8035</b> EN-GJMW-350-4 (GTW35) <b>0.7070</b> EN-GJS-700-2 (GGG70), <b>0.8170</b> EN-GJMB-700-2 (GTS70)		≤240 HB ≤350 HB	●○
Ghisa in conchiglia	-		≤350 HB	●
Titanio e leghe di titanio	<b>3.7024</b> Ti99,5, <b>3.7114</b> TiAl5Sn2,5, <b>3.7124</b> TiCu2 <b>3.7154</b> TiAl6Zr5, <b>3.7165</b> TiAl6V4, <b>3.7184</b> TiAl4Mo4Sn2,5, - TiAl8Mo1V1	≤850 ≤1400		●
Alluminio e leghe di alu	<b>3.0255</b> Al99,5, <b>3.2315</b> AlMgSi1, <b>3.3515</b> AlMg1	≤400		●
Leghe di alu per lav. plastiche	<b>3.0615</b> AlMgSiPb, <b>3.1325</b> AlCuMg1, <b>3.3245</b> AlMg3Si, <b>3.4365</b> AlZnMgCu1,5	≤650		●
Leghe di alu-ghisa ≤ 10 % Si	<b>3.2131</b> G-AlSi5Cu1, <b>3.2153</b> G-AlSi7Cu3, <b>3.2573</b> G-AlSi9	≤600		●
> 10 % Si	<b>3.2581</b> G-AlSi12, <b>3.2583</b> G-AlSi12Cu, - G-AlSi12CuNiMg	≤600		●
Leghe di magnesio	<b>3.5200</b> MgMn2, <b>3.5812.05</b> G-MgAl8Zn1, <b>3.5612.05</b> G-MgAl6Zn1	≤400		○
Rame legato in bassa %	<b>2.0070</b> SE-Cu, <b>2.1020</b> CuSn6, <b>2.1096</b> G-CuSn5ZnPb	≤500		●
Ottone, a truciolo corto	<b>2.0380</b> CuZn39Pb2, <b>2.0401</b> CuZn39Pb3, <b>2.0410</b> CuZn43Pb2	≤600		●
a truciolo lungo	<b>2.0250</b> CuZn20, <b>2.0280</b> CuZn33, <b>2.0332</b> CuZn37Pb0,5	≤600		●
Bronzi a truciolo corto	<b>2.1090</b> CuSn7ZnPb, <b>2.1170</b> CuPb5Sn5, <b>2.1176</b> CuPb10Sn <b>2.0790</b> CuNi18Zn19Pb	≤600 ≤850		●●
Bronzi a truciolo lungo	<b>2.0916</b> CuAl5, <b>2.0960</b> CuAl9Mn, <b>2.1050</b> CuSn10 <b>2.0980</b> CuAl11Ni, <b>2.1247</b> CuBe2	≤850 ≤1000		●
Mat. plastiche termoidruranti	Resina epossidica, Resopal, Pertinax, Moltopren	≤150		○
Materie termoplastiche	Plexiglas, Hostalen, Novodur, Makralon	≤100		○
Nuove ghise GGv	<b>EN-GJV250</b> (GGV25), <b>EN-GJV350</b> (GGV35) <b>EN-GJV400</b> (GGV40), <b>EN-GJV500</b> (GGV50), SiMo 6		≤220 HB ≤300 HB	●○
Nuove ghise ADI	<b>EN-GJS-800-8</b> (ADI800), <b>EN-GJS-1000-5</b> (ADI1000) <b>EN-GJS-1200-2</b> (ADI1200), <b>EN-GJS-1400-1</b> (ADI1400)	≤1000 ≤1400		●○
Mat. plast. a fibre aramidiche	Kevlar	≤1000		○
a fibre di vetro/C rinforzate	GFK/CFK	≤1000		○

○ lucide





● trattati a vapore


● fasi nitrurate

● bruno-dorate

M MolyGlide

≤10xD




81311	82211	81341	81361
340	341	340	340
HSS-E			
			
N	N	FN	S


81362
340
HSS-E

S


89286
N.d.F.
int. in MD

N

Punte con fori di refrigerazione

82710	82521	82535
N.d.F.	N.d.F.	N.d.F.
HSS		
		
FN	N	FN
assiale	assiale	assiale

82525
N.d.F.
HSS-E

FN
assiale

82515
N.d.F.
HSS-E

FN
assiale



V <sub>c</sub> m/min	Num. col. avanzam.			
33	5	5	5	
27	5	5	5	
36	5	5	5	
32	5	5	5	
36	5	5	5	
36	5	5	5	
22	4	4	4	
18	4	4	4	
14	3	3	3	3
32	5	5	5	
18	4	4	4	
13	3	3	3	
14	4	4	4	
10	3	3	3	
13	4	4	4	
10	3	3	3	
12	3	3	3	
6	2	2	2	
12	4	4	4	4
8	3	3	2	3
10	3	3	3	3
4			1	
5	1	1		1
32	6	6	6	
27	6	6	6	
26	6	6	6	
24	6	6	6	
6	3	3	3	3
8			2	
5			2	
70		7		
60		6		
60			5	
36	5	5	5	
54		5		
36	5	5	5	
30	4	4	5	
24	4	4	5	
18	4	4	4	
13	4	4	4	4
16	4	4	4	
26			4	

V <sub>c</sub> m/min	Num. col. avanzam.
15	3
13	3
10	3
10	3
10	3
8	2
15	4
10	3
13	3
6	1
6	3
10	2
6	2
25	4

V <sub>c</sub> m/min	Num. col. avanzam.
50	4
40	3
80	3

V <sub>c</sub> m/min	Num. col. avanzam.		
26	6	6	6
22	5	5	5
30	6	6	6
30	5	5	5
24	5	5	5
24	5	5	5
22	4	4	4
20	4	4	4
14	3	3	3
30	6	6	6
17	4	4	4
12	3	3	3
14	4	4	4
10	3	3	3
15	4	4	4
10	3	3	3
10	3	3	3
7	2	2	2
30	6	6	6
30	6	6	6
24	6	6	6
20	6	6	6
7	3	3	3
80	6		
50	7	7	7
50	6	6	6
60	5	5	5
40	5	5	5
24	4	4	4
24	4	4	4
22	4	4	4
24	5	5	5

V <sub>c</sub> m/min	Num. col. avanzam.	V <sub>c</sub> m/min	Num. col. avanzam.
35	6	30	5
30	5	25	4
30	6	30	5
30	5	25	4
35	5	30	4
29	5	25	4
22	4	18	3
18	4	16	3
14	3	12	2
35	6	30	5
18	4	16	3
14	3	12	2
14	4	12	3
12	3	10	2
15	4	13	3
11	3	9	2
11	3	9	2
8	2	6	2
14	4	12	3
10	3	8	2
12	3	12	2
4	2	4	1
8	1	6	1
30	6	28	5
24	6	22	5
24	6	22	5
20	6	18	5
8	3	6	2
10	2	8	2
8	2	6	2
60	7	55	6
50	6	44	5
38	5	35	4
55	5	50	4
36	5	33	4
24	4	22	4
20	4	18	4
14	4	12	4
25	5	25	4

**A** TiAIN

**a** nanoA

**A** SuperA

**C** TiCN

**F** FIRE

**T** TiN

**Y** TiAISiN

**CONSIGLI PER L'IMPIEGO DI PUNTE ELICOIDALI CONVENZIONALI**
**Tabella N. 33**

 Articolo nr. **R**

Norma/DIN

Materiale tagliente

Tratt. di superficie

Tipo

I numeri in grassetto della colonna avanzamento indicano gli utensili da preferire.

Ø utensile mm	Num. colonna avanzamento								
	1	2	3	4	5	6	7	8	9
	f (mm/U)								
0,50	0,004	0,006	0,007	0,008	0,010	0,012	0,014	0,016	0,019
1,00	0,006	0,008	0,012	0,014	0,016	0,018	0,020	0,023	0,025
2,00	0,020	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125
2,50	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160
3,15	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,160
4,00	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,200
5,00	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250
6,30	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315
8,00	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,315
10,00	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,400
12,50	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500
16,00	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630
20,00	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,630
25,00	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	0,800
31,50	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000
40,00	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000	1,250
50,00	0,250	0,310	0,400	0,500	0,630	0,800	1,000	1,250	1,250
63,00	0,315	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600
80,00	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600	2,000

Refrigerante:

- Aria
- Olio
- Emulsione

Direzione di taglio:

- R** destre
- L** sinistre


**HARTNER**

Materiali	Esempi di materiale Numeri in grassetto = nr. materiale a DIN EN 10 027	Resistenza N/mm <sup>2</sup>	Durezza	Refrigerante
Acciai da costruzione	<b>1.0035</b> S185(S133), <b>1.0486</b> P275N(StE285), <b>1.0345</b> P235GH(H1), <b>1.0425</b> P265GH(H2)	≤500		●
	<b>1.0050</b> E295 (St50-2), <b>1.0070</b> E360 (St70-2), <b>1.8937</b> P500NH (WStE500)	≤1000		●
Acciai automatici	<b>1.0718</b> 11SMnPb30 (9SMnPb28), <b>1.0736</b> 11SMn37 (9SMn36)	≤850		●
	<b>1.0727</b> 46S20 (45S20), <b>1.0728</b> (60S20), <b>1.0757</b> 46SPb20 (45SPb20)	≤1000		●
Acciai da bonifica non legati	<b>1.0402</b> C22, <b>1.1178</b> C30E (Ck30)	≤700		●
	<b>1.0503</b> C45, <b>1.1191</b> C45E (Ck45)	≤850		●
	<b>1.0601</b> C60, <b>1.1221</b> C60E (Ck60)	≤1000		●
Acciai da bonifica legati	<b>1.5131</b> 50MnSi4, <b>1.7003</b> 38Cr2, <b>1.7030</b> 28Cr4	≤1000		●
	<b>1.5710</b> 36NiCr6, <b>1.7035</b> 41Cr4, <b>1.7225</b> 42CrMo4	≤1400		●
Acciai da cementazione non legati	<b>1.0301</b> (C10), <b>1.1121</b> C10E (Ck10)	≤850		●
Acciai da cementazione legati	<b>1.7276</b> 10CrMo11, <b>1.5125</b> 11MnSi6	≤1000		●
	<b>1.5752</b> 15NiCr13, <b>1.7131</b> 16MnCr5, <b>1.7264</b> 20CrMo5	≤1400		●
Acciai nitruati	<b>1.8504</b> 34CrAl6	≤1000		●
	<b>1.8519</b> 31CrMoV9, <b>1.8550</b> 34CrAlNi7	≤1400		●
Acciai utensili	<b>1.1750</b> C75W, <b>1.2067</b> 102Cr6, <b>1.2307</b> 29CrMoV9	≤850		●
	<b>1.2080</b> X210Cr12, <b>1.2083</b> X42Cr13, <b>1.2419</b> 105WCr6, <b>1.2767</b> X45NiCrMo4	≤1400		●
Acciai super rapidi	<b>1.3243</b> S 6-5-2-5, <b>1.3343</b> S 6-5-2, <b>1.3344</b> S 6-5-3	≤1400		●
Acciai per molle	<b>1.5026</b> 55Si7, <b>1.7176</b> 55Cr3, <b>1.8159</b> 51CrV4 (51CrV4)		≤350 HB	●
Acciai inossidabili, allo zolfo	<b>1.4005</b> X12CrS13, <b>1.4104</b> X14CrMoS17, <b>1.4105</b> X6CrMoS17, <b>1.4305</b> X8CrNiS18-9	≤900		●
austenitici	<b>1.4301</b> X5CrNi18-10 (V2A), <b>1.4541</b> X6CrNiTi18-10, <b>1.4571</b> X6CrNiMoTi 17-12-2 (V4A)	≤1100		●
martensitici	<b>1.4057</b> X20CrNi172 (X17CrNi16-2), <b>1.4122</b> X39CrMo17-1, <b>1.4521</b> X2CrMoTi18-2	≤1500		●
Acciai temprati	-		≤48 HRC ≤66 HRC	●
Leghe speciali	Nimonic, Inconel, Monel, Hastelloy	≤2000		●
Ghise	<b>0.6010</b> EN-GJL-100 (GG10), <b>0.6020</b> EN-GJL-200 (GG20)		≤240 HB	●○
	<b>0.6025</b> EN-GJL-250 (GG25), <b>0.6035</b> EN-GJL-350 (GG35)		≤350 HB	●○
Ghise sferoidali,	<b>0.7050</b> EN-GJS-500-7 (GGG50), <b>0.8035</b> EN-GJMW-350-4 (GTW35)		≤240 HB	●○
ghise temperate	<b>0.7070</b> EN-GJS-700-2 (GGG70), <b>0.8170</b> EN-GJMB-700-2 (GTS70)		≤350 HB	●○
Ghisa in conchiglia	-		≤350 HB	●○
Titanio e leghe di titanio	<b>3.7024</b> Ti99,5, <b>3.7114</b> TiAl5Sn2,5, <b>3.7124</b> TiCu2	≤850		●
	<b>3.7154</b> TiAl6Zr5, <b>3.7165</b> TiAl6V4, <b>3.7184</b> TiAl4Mo4Sn2,5, - TiAl8Mo1V1	≤1400		●
Alluminio e leghe di alu	<b>3.0255</b> Al99,5, <b>3.2315</b> AlMgSi1, <b>3.3515</b> AlMg1	≤400		●
Leghe di alu per lav. plastiche	<b>3.0615</b> AlMgSiPb, <b>3.1325</b> AlCuMg1, <b>3.3245</b> AlMg3Si, <b>3.4365</b> AlZnMgCu1,5	≤650		●
Leghe di alu-ghisa ≤ 10 % Si	<b>3.2131</b> G-AlSi5Cu1, <b>3.2153</b> G-AlSi7Cu3, <b>3.2573</b> G-AlSi9	≤600		●
> 10 % Si	<b>3.2581</b> G-AlSi12, <b>3.2583</b> G-AlSi12Cu, - G-AlSi12CuNiMg	≤600		●
Leghe di magnesio	<b>3.5200</b> MgMn2, <b>3.5812.05</b> G-MgAl8Zn1, <b>3.5612.05</b> G-MgAl6Zn1	≤400		○
Rame legato in bassa %	<b>2.0070</b> SE-Cu, <b>2.1020</b> CuSn6, <b>2.1096</b> G-CuSn5ZnPb	≤500		●
Ottone, a truciolo corto	<b>2.0380</b> CuZn39Pb2, <b>2.0401</b> CuZn39Pb3, <b>2.0410</b> CuZn43Pb2	≤600		●
a truciolo lungo	<b>2.0250</b> CuZn20, <b>2.0280</b> CuZn33, <b>2.0332</b> CuZn37Pb0,5	≤600		●
Bronzi a truciolo corto	<b>2.1090</b> CuSn7ZnPb, <b>2.1170</b> CuPb5Sn5, <b>2.1176</b> CuPb10Sn	≤600		●
	<b>2.0790</b> CuNi18Zn19Pb	≤850		●
Bronzi a truciolo lungo	<b>2.0916</b> CuAl5, <b>2.0960</b> CuAl9Mn, <b>2.1050</b> CuSn10	≤850		●
	<b>2.0980</b> CuAl11Ni, <b>2.1247</b> CuBe2	≤1000		●
Mat. plastiche termoindurenti	Resina epossidica, Resopal, Pertinax, Moltopren	≤150		○
Materie termoplastiche	Plexiglas, Hostalen, Novodur, Makralon	≤100		○
Nuove ghise GGV	<b>EN-GJV250</b> (GGV25), <b>EN-GJV350</b> (GGV35)		≤220 HB	●○
	<b>EN-GJV400</b> (GGV40), <b>EN-GJV500</b> (GGV50), SiMo 6		≤300 HB	●○
Nuove ghise ADI	<b>EN-GJS-800-8</b> (ADI800), <b>EN-GJS-1000-5</b> (ADI1000)	≤1000		●○
	<b>EN-GJS-1200-2</b> (ADI1200), <b>EN-GJS-1400-1</b> (ADI1400)	≤1400		●○
Mat. plast. a fibre aramidiche	Kevlar	≤1000		○
a fibre di vetro/C rinforzate	GFK/CFK	≤1000		○

○ lucide

● trattati a vapore

● fasi nitrate

● bruno-dorate



**>10xD**

81410	82310	81450	81440	81740	82340	82466
81510	82410		81540	81750	82440	82467
81610			81640	81760		82468
						82469

1869	1870	1869	1869	N.d.F.	1870	N.d.F.
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HSS						
						

84425
84426

1869
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HSS

GT 100

81441
81541

1869
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HSS-E




V <sub>c</sub> m/min	Num. col. avanzam.					
22	5	5	5	5	5	5
18	4	4	4	4	4	4
22	5	5	5	5	5	5
18	4	4	4	4	4	4
22	4	4	4	4	4	4
18	4	4	4	4	4	4
12	3	3				
22	5	5	5	5	5	5
10	3	3				
8	3	3				
12	3	3	3	3	3	3
6	2	2	2	2	2	2
6	2	2				
22	5	5	5	5	5	5
18	5	5	5	5	5	5
20	5	5	5	5	5	5
14	5	5	5	5	5	5
55		6				
55		6				
45	6	6	6	6	6	6
36	5	5	5	5	5	5
55	5	5	5	5	5	5
22	4	4	4	4	4	4
45	4	4				
28	4	4	4	4	4	4
22	3	3	3	3	3	3
20	3	3	3	3	3	3
18	3	3	3	3	3	3
12	3	3	3	3	3	3
18	4	4	4	4	4	4

V <sub>c</sub> m/min	Num. col. avanzam.	V <sub>c</sub> m/min	Num. col. avanzam.
28	5	30	4
22	4	25	4
28	5	33	4
22	4	30	4
28	4	33	4
22	4	33	4
16	3	20	3
		14	3
		10	2
28	5	29	4
		14	3
		10	2
		10	3
		8	2
12	3	11	3
8	2	8	2
		8	2
		5	1
		10	3
		8	2
		10	2
		3	1
6	1	5	1
28	5		
22	5	20	5
25	5		
18	5	16	5
		5	2
		6	1
		5	1
70	6		
70	6		
55	6	50	6
45	5	40	5
70	5		
28	4	30	4
		45	4
36	4	30	4
28	3	25	4
25	3	20	4
22	3	16	3
18	3	10	3
15	3	14	3
22	4	20	3

## CONSIGLI PER L'IMPIEGO DI MICROPUNTE

### Tabella N. 34

Articolo nr. **R**

Articolo nr. **L**

Norma/DIN

Materiale tagliente

Tipo di metallo duro

Tratt. di superficie

Tipo

Refrigerante

Ø utensile mm	Num. colonna avanzamento								
	101	102	103	104	105	106	107	108	109
	f (mm/riv.)								
0,10	0,002	0,003	0,003	0,004	0,006	0,007	0,010	0,013	0,016
0,16	0,002	0,003	0,004	0,005	0,007	0,009	0,012	0,016	0,022
0,25	0,003	0,004	0,005	0,007	0,009	0,011	0,014	0,019	0,024
0,30	0,004	0,005	0,007	0,009	0,011	0,015	0,019	0,025	0,033
0,50	0,005	0,007	0,008	0,011	0,014	0,019	0,024	0,031	0,041
0,63	0,007	0,009	0,012	0,015	0,020	0,026	0,034	0,044	0,057
0,80	0,010	0,013	0,016	0,020	0,024	0,031	0,038	0,048	0,060
1,00	0,020	0,024	0,029	0,035	0,041	0,050	0,060	0,072	0,086
1,50	0,030	0,035	0,040	0,046	0,052	0,060	0,069	0,080	0,092
2,00	0,040	0,046	0,053	0,061	0,070	0,080	0,093	0,106	0,122

Ø utensile mm	Num. colonna avanzamento articolo no. 6400/6401/6408/6412												
	56	57	58	59	60	61	62	63	64	65	66	67	68
	f (mm/riv.)												
0,80	0,008	0,016	0,024	0,032	0,04	0,05	0,06	0,07	0,08	0,08	0,08	0,09	0,09
1,00	0,012	0,022	0,032	0,042	0,06	0,07	0,08	0,09	0,10	0,10	0,11	0,11	0,12
1,50	0,021	0,036	0,051	0,066	0,09	0,10	0,12	0,13	0,15	0,15	0,16	0,17	0,18
2,00	0,032	0,052	0,072	0,092	0,12	0,14	0,16	0,18	0,20	0,21	0,22	0,23	0,24
2,50	0,045	0,070	0,095	0,120	0,15	0,17	0,20	0,22	0,25	0,26	0,27	0,28	0,30
3,00	0,060	0,090	0,120	0,150	0,18	0,21	0,24	0,27	0,30	0,31	0,33	0,34	0,36

Refrigerante:

○ Aria

● Olio

● Emulsione

Direzione di taglio:

**R** destre

**L** sinistre

Materiali	Esempi di materiale Numeri in grassetto = nr. materiale a DIN EN 10 027	Resistenza N/mm <sup>2</sup>	Durezza	Refrigerante
Acciai da costruzione	<b>1.0035</b> S185(St33), <b>1.0486</b> P275N(StE285), <b>1.0345</b> P235GH(H1), <b>1.0425</b> P265GH(H2) <b>1.0050</b> E295 (St50-2), <b>1.0070</b> E360 (St70-2), <b>1.8937</b> P500NH (WStE500)	≤500 ≤1000		●
Acciai automatici	<b>1.0718</b> 11SMnPb30 (9SMnPb28), <b>1.0736</b> 11SMn37 (9SMn36) <b>1.0727</b> 46S20 (45S20), <b>1.0728</b> (60S20), <b>1.0757</b> 46SPb20 (45SPb20)	≤850 ≤1000		●
Acciai da bonifica non legati	<b>1.0402</b> C22, <b>1.1178</b> C30E (Ck30) <b>1.0503</b> C45, <b>1.1191</b> C45E (Ck45) <b>1.0601</b> C60, <b>1.1221</b> C60E (Ck60)	≤700 ≤850 ≤1000		●
Acciai da bonifica legati	<b>1.5131</b> 50MnSi4, <b>1.7003</b> 38Cr2, <b>1.7030</b> 28Cr4 <b>1.5710</b> 36NiCr6, <b>1.7035</b> 41Cr4, <b>1.7225</b> 42CrMo4	≤1000 ≤1400		●
Acciai da cementazione non legati	<b>1.0301</b> (C10), <b>1.1121</b> C10E (Ck10)	≤850		●
Acciai da cementazione legati	<b>1.7276</b> 10CrMo11, <b>1.5125</b> 11MnSi6 <b>1.5752</b> 15NiCr13, <b>1.7131</b> 16MnCr5, <b>1.7264</b> 20CrMo5	≤1000 ≤1400		●
Acciai nitruati	<b>1.8504</b> 34CrAl6 <b>1.8519</b> 31CrMoV9, <b>1.8550</b> 34CrAlNi7	≤1000 ≤1400		●
Acciai utensili	<b>1.1750</b> C75W, <b>1.2067</b> 102Cr6, <b>1.2307</b> 29CrMoV9 <b>1.2080</b> X210Cr12, <b>1.2083</b> X42Cr13, <b>1.2419</b> 105WCr6, <b>1.2767</b> X45NiCrMo4	≤850 ≤1400		●
Acciai super rapidi	<b>1.3243</b> S 6-5-2-5, <b>1.3343</b> S 6-5-2, <b>1.3344</b> S 6-5-3	≤1400		●
Acciai per molle	<b>1.5026</b> 55Si7, <b>1.7176</b> 55Cr3, <b>1.8159</b> 51CrV4 (51CrV4)		≤350 HB	●
Acciai inossidabili, allo zolfo austenitici	<b>1.4005</b> X12CrS13, <b>1.4104</b> X14CrMoS17, <b>1.4105</b> X6CrMoS17, <b>1.4305</b> X8CrNiS18-9 <b>1.4301</b> X5CrNi18-10 (V2A), <b>1.4541</b> X6CrNiTi18-10, <b>1.4571</b> X6CrNiMoTi 17-12-2 (V4A)	≤900 ≤1100		●
Acciai inossidabili, allo zolfo martensitici	<b>1.4057</b> X20CrNi172 (X17CrNi16-2), <b>1.4122</b> X39CrMo17-1, <b>1.4521</b> X2CrMoTi18-2	≤1500		●
Acciai temprati	-		≤48 HRC ≤66 HRC	●
Leghe speciali	Nimonic, Inconel, Monel, Hastelloy	≤2000		●
Ghise	<b>0.6010</b> EN-GJL-100 (GG10), <b>0.6020</b> EN-GJL-200 (GG20) <b>0.6025</b> EN-GJL-250 (GG25), <b>0.6035</b> EN-GJL-350 (GG35)		≤240 HB ≤350 HB	●○
Ghise sferoidali, ghise temperate	<b>0.7050</b> EN-GJS-500-7 (GGG50), <b>0.8035</b> EN-GJMW-350-4 (GTW35) <b>0.7070</b> EN-GJS-700-2 (GGG70), <b>0.8170</b> EN-GJMB-700-2 (GTS70)		≤240 HB ≤350 HB	●○
Ghisa in conchiglia	-		≤350 HB	●○
Titanio e leghe di titanio	<b>3.7024</b> Ti99,5, <b>3.7114</b> TiAl5Sn2,5, <b>3.7124</b> TiCu2 <b>3.7154</b> TiAl6Zr5, <b>3.7165</b> TiAl6V4, <b>3.7184</b> TiAl4Mo4Sn2,5, - TiAl8Mo1V1	≤850 ≤1400		●
Alluminio e leghe di alu	<b>3.0255</b> Al99,5, <b>3.2315</b> AlMgSi1, <b>3.3515</b> AlMg1 <b>3.0615</b> AlMgSiPb, <b>3.1325</b> AlCuMg1, <b>3.3245</b> AlMg3Si, <b>3.4365</b> AlZnMgCu1,5	≤400 ≤650		●
Leghe di alu-ghisa ≤ 10 % Si > 10 % Si	<b>3.2131</b> G-AISI5Cu1, <b>3.2153</b> G-AISI7Cu3, <b>3.2573</b> G-AISI9 <b>3.2581</b> G-AISI12, <b>3.2583</b> G-AISI12Cu, - G-AISI12CuNiMg	≤600 ≤600		●
Leghe di magnesio	<b>3.5200</b> MgMn2, <b>3.5812.05</b> G-MgAl8Zn1, <b>3.5612.05</b> G-MgAl6Zn1	≤400		○
Rame legato in bassa %	<b>2.0070</b> SE-Cu, <b>2.1020</b> CuSn6, <b>2.1096</b> G-CuSn5ZnPb	≤500		●
Ottone, a truciolo corto a truciolo lungo	<b>2.0380</b> CuZn39Pb2, <b>2.0401</b> CuZn39Pb3, <b>2.0410</b> CuZn43Pb2 <b>2.0250</b> CuZn20, <b>2.0280</b> CuZn33, <b>2.0332</b> CuZn37Pb0,5	≤600 ≤600		●
Bronzi a truciolo corto	<b>2.1090</b> CuSn7ZnPb, <b>2.1170</b> CuPb5Sn5, <b>2.1176</b> CuPb10Sn <b>2.0790</b> CuNi18Zn19Pb	≤600 ≤850		●○
Bronzi a truciolo lungo	<b>2.0916</b> CuAl5, <b>2.0960</b> CuAl9Mn, <b>2.1050</b> CuSn10 <b>2.0980</b> CuAl11Ni, <b>2.1247</b> CuBe2	≤850 ≤1000		●
Mat. plastiche termoindurenti	Resina epossidica, Resopal, Pertinax, Moltopren	≤150		○
Materie termoplastiche	Plexiglas, Hostalen, Novodur, Makralon	≤100		○
Nuove ghise GGV	<b>EN-GJV250</b> (GGV25), <b>EN-GJV350</b> (GGV35) <b>EN-GJV400</b> (GGV40), <b>EN-GJV500</b> (GGV50), SiMo 6		≤220 HB ≤300 HB	●○
Nuove ghise ADI	<b>EN-GJS-800-8</b> (ADI800), <b>EN-GJS-1000-5</b> (ADI1000) <b>EN-GJS-1200-2</b> (ADI1200), <b>EN-GJS-1400-1</b> (ADI1400)	≤1000 ≤1400		●○
Mat. plast. a fibre aramidiche a fibre di vetro/C rinforzate	Kevlar GFK/CFK	≤1000 ≤1000		○

○ lucide

● trattati a vapore

● fasi nitrate

● bruno-dorate

**M** MolyGlide



## CONSIGLI PER L'IMPIEGO DI TS-DRILLS

Tabella N. 35

Articolo nr. **R**

Norma/DIN

Materiale tagliente

Tipo di metallo duro

Tratt. di superficie

Tipo

Forma attacco

Refrigerante

I numeri in grassetto della colonna avanzamento indicano gli utensili da preferire.

Ø utensile mm	Num. colonna avanzamento								
	1	2	3	4	5	6	7	8	9
	f (mm/giro)								
<b>0,50</b>	0,004	0,006	0,007	0,008	0,010	0,012	0,014	0,016	0,019
<b>1,00</b>	0,006	0,008	0,012	0,014	0,016	0,018	0,020	0,023	0,025
<b>2,00</b>	0,020	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125
<b>2,50</b>	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160
<b>3,15</b>	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,160
<b>4,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,200
<b>5,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250
<b>6,30</b>	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315
<b>8,00</b>	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,315
<b>10,00</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,400
<b>12,50</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500
<b>16,00</b>	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630
<b>20,00</b>	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,630
<b>25,00</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	0,800
<b>31,50</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000
<b>40,00</b>	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000	1,250
<b>50,00</b>	0,250	0,310	0,400	0,500	0,630	0,800	1,000	1,250	1,250
<b>63,00</b>	0,315	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600
<b>80,00</b>	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600	2,000

Refrigerante:

- Aria  
● Olio  
● Emulsione

Direzione di taglio:

- R** destre  
**L** sinistre



Materiali	Esempi di materiale Numeri in grassetto = nr. materiale a DIN EN 10 027	Resistenza N/mm <sup>2</sup>	Durezza	Refrigerante
Acciai da costruzione	<b>1.0035</b> S185(St33), <b>1.0486</b> P275N(StE285), <b>1.0345</b> P235GH(H1), <b>1.0425</b> P265GH(H2)	≤500 ≤1000		●
Acciai automatici	<b>1.0050</b> E295 (St50-2), <b>1.0070</b> E360 (St70-2), <b>1.8937</b> P500NH (WStE500)	≤850 ≤1000		●
Acciai da bonifica non legati	<b>1.0718</b> 11SMnPb30 (9SMnPb28), <b>1.0736</b> 11SMn37 (9SMn36)	≤850 ≤1000		●
	<b>1.0727</b> 46S20 (45S20), <b>1.0728</b> (60S20), <b>1.0757</b> 46SPb20 (45SPb20)			●
Acciai da bonifica legati	<b>1.0402</b> C22, <b>1.1178</b> C30E (Ck30)	≤700		●
	<b>1.0503</b> C45, <b>1.1191</b> C45E (Ck45)	≤850		●
	<b>1.0601</b> C60, <b>1.1221</b> C60E (Ck60)	≤1000		●
Acciai da bonifica legati	<b>1.5131</b> 50MnSi4, <b>1.7003</b> 38Cr2, <b>1.7030</b> 28Cr4	≤1000		●
	<b>1.5710</b> 36NiCr6, <b>1.7035</b> 41Cr4, <b>1.7225</b> 42CrMo4	≤1400		●
Acciai da cementazione non legati	<b>1.0301</b> (C10), <b>1.1121</b> C10E (Ck10)	≤850		●
Acciai da cementazione legati	<b>1.7276</b> 10CrMo11, <b>1.5125</b> 11MnSi6	≤1000		●
	<b>1.5752</b> 15NiCr13, <b>1.7131</b> 16MnCr5, <b>1.7264</b> 20CrMo5	≤1400		●
Acciai nitratati	<b>1.8504</b> 34CrAl6	≤1000		●
	<b>1.8519</b> 31CrMoV9, <b>1.8550</b> 34CrAlNi7	≤1400		●
Acciai utensili	<b>1.1750</b> C75W, <b>1.2067</b> 102Cr6, <b>1.2307</b> 29CrMoV9	≤850		●
	<b>1.2080</b> X210Cr12, <b>1.2083</b> X42Cr13, <b>1.2419</b> 105WCr6, <b>1.2767</b> X45NiCrMo4	≤1400		●
Acciai super rapidi	<b>1.3243</b> S 6-5-2-5, <b>1.3343</b> S 6-5-2, <b>1.3344</b> S 6-5-3	≤1400		●
Acciai per molle	<b>1.5026</b> 55Si7, <b>1.7176</b> 55Cr3, <b>1.8159</b> 51CrV4 (51CrV4)		≤350 HB	●
Acciai inossidabili, allo zolfo	<b>1.4005</b> X12CrS13, <b>1.4104</b> X14CrMoS17, <b>1.4105</b> X6CrMoS17, <b>1.4305</b> X8CrNiS18-9	≤900		●
austenitici	<b>1.4301</b> X5CrNi18-10 (V2A), <b>1.4541</b> X6CrNiTi18-10, <b>1.4571</b> X6CrNiMoTi 17-12-2 (V4A)	≤1100		●
martensitici	<b>1.4057</b> X20CrNi172 (X17CrNi16-2), <b>1.4122</b> X39CrMo17-1, <b>1.4521</b> X2CrMoTi18-2	≤1500		●
Acciai temprati	-		≤48 HRC ≤66 HRC	●
Leghe speciali	Nimonic, Inconel, Monel, Hastelloy	≤2000		●
Ghise	<b>0.6010</b> EN-GJL-100 (GG10), <b>0.6020</b> EN-GJL-200 (GG20)		≤240 HB	●○
	<b>0.6025</b> EN-GJL-250 (GG25), <b>0.6035</b> EN-GJL-350 (GG35)		≤350 HB	●○
Ghise sferoidali,	<b>0.7050</b> EN-GJS-500-7 (GGG50), <b>0.8035</b> EN-GJMw-350-4 (GTW35)		≤240 HB	●○
ghise temperate	<b>0.7070</b> EN-GJS-700-2 (GGG70), <b>0.8170</b> EN-GJMB-700-2 (GTS70)		≤350 HB	●○
Ghisa in conchiglia	-		≤350 HB	●○
Titanio e leghe di titanio	<b>3.7024</b> Ti99,5, <b>3.7114</b> TiAl5Sn2,5, <b>3.7124</b> TiCu2	≤850		●
	<b>3.7154</b> TiAl6Zr5, <b>3.7165</b> TiAl6V4, <b>3.7184</b> TiAl4Mo4Sn2,5, - TiAl8Mo1V1	≤1400		●
Alluminio e leghe di alu	<b>3.0255</b> Al99,5, <b>3.2315</b> AlMgSi1, <b>3.3515</b> AlMg1	≤400		●
Leghe di alu per lav. plastiche	<b>3.0615</b> AlMgSiPb, <b>3.1325</b> AlCuMg1, <b>3.3245</b> AlMg3Si, <b>3.4365</b> AlZnMgCu1,5	≤650		●
Leghe di alu-ghisa ≤ 10 % Si	<b>3.2131</b> G-AlSi5Cu1, <b>3.2153</b> G-AlSi7Cu3, <b>3.2573</b> G-AlSi9	≤600		●
> 10 % Si	<b>3.2581</b> G-AlSi12, <b>3.2583</b> G-AlSi12Cu, - G-AlSi12CuNiMg	≤600		●
Leghe di magnesio	<b>3.5200</b> MgMn2, <b>3.5812.05</b> G-MgAl8Zn1, <b>3.5612.05</b> G-MgAl6Zn1	≤400		○
Rame legato in bassa %	<b>2.0070</b> SE-Cu, <b>2.1020</b> CuSn6, <b>2.1096</b> G-CuSn5ZnPb	≤500		●
Ottone, a truciolo corto	<b>2.0380</b> CuZn39Pb2, <b>2.0401</b> CuZn39Pb3, <b>2.0410</b> CuZn43Pb2	≤600		●
a truciolo lungo	<b>2.0250</b> CuZn20, <b>2.0280</b> CuZn33, <b>2.0332</b> CuZn37Pb0,5	≤600		●
Bronzi a truciolo corto	<b>2.1090</b> CuSn7ZnPb, <b>2.1170</b> CuPb5Sn5, <b>2.1176</b> CuPb10Sn	≤600		●●
	<b>2.0790</b> CuNi18Zn19Pb	≤850		●●
Bronzi a truciolo lungo	<b>2.0916</b> CuAl5, <b>2.0960</b> CuAl9Mn, <b>2.1050</b> CuSn10	≤850		●●
	<b>2.0980</b> CuAl11Ni, <b>2.1247</b> CuBe2	≤1000		●●
Mat. plastiche termoidurenti	Resina epossidica, Resopal, Pertinax, Moltopren	≤150		○
Materie termoplastiche	Plexiglas, Hostalen, Novodur, Makralon	≤100		○
Nuove ghise GGV	<b>EN-GJV250</b> (GGV25), <b>EN-GJV350</b> (GGV35)		≤220 HB	●○
	<b>EN-GJV400</b> (GGV40), <b>EN-GJV500</b> (GGV50), SiMo 6		≤300 HB	●○
Nuove ghise ADI	<b>EN-GJS-800-8</b> (ADI800), <b>EN-GJS-1000-5</b> (ADI1000)	≤1000		●○
	<b>EN-GJS-1200-2</b> (ADI1200), <b>EN-GJS-1400-1</b> (ADI1400)	≤1400		●○
Mat. plast. a fibre aramidiche	Kevlar	≤1000		○
a fibre di vetro/C rinforzate	GFK/CFK	≤1000		○

○ lucide

● trattati a vapore

● fasi nitrate

● bruno-dorate

● M MolyGlide



**≤3xD**

89264	89237
6537K	6539
int. MD	

K/P	K/P
<b>T</b>	<b>T</b>
100U	100U
HE	DZ

89403
6537K
int. MD

K/P
<b>F</b>
100F
HA

89422
6537K
int. MD

<b>Y</b>
100H
HA

89413	89402	89401
6537K	6537K	6539
int. MD		

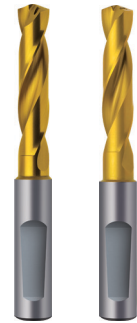
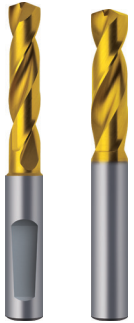
K/P	K/P	K/P
<b>F</b>	<b>F</b>	<b>F</b>
100U	100U	100U
HA	HE	DZ

89450	89550
6537K	6537K
int. MD	int. MD

K/P	K/P
<b>a</b>	<b>a</b>
100INOX	100INOX
HA	HE
assiale	assiale

89265	89266
6537K	6537K
int. MD	int. MD

K	K/P
<b>T</b>	<b>T</b>
100F	100U
HE	HE
assiale	assiale



Vc m/min	Num. col. avanzam.
100	6
85	5
110	7
85	6
90	6
85	6
80	6
80	6
75	5
100	7
90	6
65	4
75	5
70	4
50	5
40	4
35	2
40	3
35	3
35	2
35	2
20	1
20	3
160	7
120	7
120	6
95	6
25	2
30	3
25	2
200	8
200	8
170	8
140	7
200	7
80	6
210	7
140	6
80	5
65	5
60	4
45	4

Vc m/min	Num. col. avanzam.
130	7
110	6
145	8
110	7
120	7
110	7
105	7
105	7
100	6
130	8
120	7
85	5
100	6
90	5
65	6
55	5
55	4
45	3
55	4
45	3
55	4
210	8
155	8
155	8
125	8
35	3
40	3
35	3
260	9
260	9
220	9
180	8
260	8
105	7
270	8
180	7
105	6
85	6
80	5
60	5

Vc m/min	Num. col. avanzam.
130	7
110	6
145	8
110	7
120	7
110	7
105	7
105	7
100	6
130	8
120	7
85	5
100	6
90	5
65	6
55	5
55	4
45	3
45	3
45	3
25	2
25	4
40	3
35	3
260	9
260	9
220	9
180	8
260	8
105	7
270	8
180	7
105	6
85	6
80	5
60	5

Vc m/min	Num. col. avanzam.		
130	7	7	7
110	6	6	6
145	8	8	8
110	7	7	7
120	7	7	7
110	7	7	7
105	7	7	7
105	7	7	7
100	6	6	6
130	8	8	8
120	7	7	7
85	5	5	5
100	6	6	6
90	5	5	5
65	6	6	6
55	5	5	5
45	3	3	3
55	4	4	4
45	4	4	4
45	3	3	3
45	3	3	3
25	2	2	2
25	4	4	4
210	8	8	8
155	8	8	8
155	7	7	7
125	7	7	7
35	3	3	3
40	4	4	4
35	3	3	3
260	9	9	9
260	9	9	9
220	8	8	8
180	8	8	8
260	8	8	8
105	7	7	7
270	8	8	8
180	7	7	7
105	6	6	6
85	6	6	6
80	5	5	5
60	5	5	5

Vc m/min	Num. col. avanzam.	
80	5	5
60	2-3	2-3
80	5	5
30	2	2
35	2	2

Vc m/min	Num. col. avanzam.	
110	6	6
90	5	5
130	7	7
110	7	7
100	7	7
95	6	6
90	6	6
80	6	6
110	7	7
90	6	6
65	4	4
85	6	6
80	4	5
60	5	5
50	4	4
45	3	3
45	2	2
45	4	4
40	4	4
35	4	4
40	2	2
25	1	1
25	3	3
160	8	8
120	8	8
100	8	8
95	7	7
30	2	2
35	3	3
30	2	2
240	8	8
240	8	8
200	8	8
170	8	8
230	7	7
95	6	6
250	7	7
170	6	6
95	6	6
80	5	5
70	5	5
60	5	5

**A** TiAIN

**a** nanoA

**A** SuperA

**C** TiCN

**F** FIRE

**T** TiN

**Y** TiAlSiN

## CONSIGLI PER L'IMPIEGO DI TS-DRILLS

### Tabella N. 36

Articolo nr. **R**

Norma/DIN

Materiale tagliente

Tipo di metallo duro

Tratt. di superficie

Tipo

Forma attacco

Refrigerante

I numeri in grassetto della colonna avanzamento indicano gli utensili da preferire.

Ø utensile mm	Num. colonna avanzamento								
	1	2	3	4	5	6	7	8	9
	f (mm/giro)								
<b>0,50</b>	0,004	0,006	0,007	0,008	0,010	0,012	0,014	0,016	0,019
<b>1,00</b>	0,006	0,008	0,012	0,014	0,016	0,018	0,020	0,023	0,025
<b>2,00</b>	0,020	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125
<b>2,50</b>	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160
<b>3,15</b>	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,160
<b>4,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,200
<b>5,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250
<b>6,30</b>	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315
<b>8,00</b>	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,315
<b>10,00</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,400
<b>12,50</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500
<b>16,00</b>	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630
<b>20,00</b>	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,630
<b>25,00</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	0,800
<b>31,50</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000
<b>40,00</b>	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000	1,250
<b>50,00</b>	0,250	0,310	0,400	0,500	0,630	0,800	1,000	1,250	1,250
<b>63,00</b>	0,315	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600
<b>80,00</b>	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600	2,000

Refrigerante:

- Aria
- Olio
- Emulsione

Direzione di taglio:

- destre
- sinistre

Materiali	Esempi di materiale Numeri in grassetto = nr. materiale a DIN EN 10 027	Resistenza N/mm <sup>2</sup>	Durezza	Refrigerante
Acciai da costruzione	<b>1.0035</b> S185(St33), <b>1.0486</b> P275N(StE285), <b>1.0345</b> P235GH(H1), <b>1.0425</b> P265GH(H2)	≤500		<input type="radio"/>
	<b>1.0050</b> E295 (St50-2), <b>1.0070</b> E360 (St70-2), <b>1.8937</b> P500NH (WStE500)	≤1000		<input type="radio"/>
Acciai automatici	<b>1.0718</b> 11SMnPb30 (9SMnPb28), <b>1.0736</b> 11SMn37 (9SMn36)	≤850		<input type="radio"/>
	<b>1.0727</b> 46S20 (45S20), <b>1.0728</b> (60S20), <b>1.0757</b> 46SPb20 (45SPb20)	≤1000		<input type="radio"/>
Acciai da bonifica non legati	<b>1.0402</b> C22, <b>1.1178</b> C30E (Ck30)	≤700		<input type="radio"/>
	<b>1.0503</b> C45, <b>1.1191</b> C45E (Ck45)	≤850		<input type="radio"/>
	<b>1.0601</b> C60, <b>1.1221</b> C60E (Ck60)	≤1000		<input type="radio"/>
Acciai da bonifica legati	<b>1.5131</b> 50MnSi4, <b>1.7003</b> 38Cr2, <b>1.7030</b> 28Cr4	≤1000		<input type="radio"/>
	<b>1.5710</b> 36NiCr6, <b>1.7035</b> 41Cr4, <b>1.7225</b> 42CrMo4	≤1400		<input type="radio"/>
Acciai da cementazione non legati	<b>1.0301</b> (C10), <b>1.1121</b> C10E (Ck10)	≤850		<input type="radio"/>
Acciai da cementazione legati	<b>1.7276</b> 10CrMo11, <b>1.5125</b> 11MnSi6	≤1000		<input type="radio"/>
	<b>1.5752</b> 15NiCr13, <b>1.7131</b> 16MnCr5, <b>1.7264</b> 20CrMo5	≤1400		<input type="radio"/>
Acciai nitratati	<b>1.8504</b> 34CrAl6	≤1000		<input type="radio"/>
	<b>1.8519</b> 31CrMoV9, <b>1.8550</b> 34CrAlNi7	≤1400		<input type="radio"/>
Acciai utensili	<b>1.1750</b> C75W, <b>1.2067</b> 102Cr6, <b>1.2307</b> 29CrMoV9	≤850		<input type="radio"/>
	<b>1.2080</b> X210Cr12, <b>1.2083</b> X42Cr13, <b>1.2419</b> 105WCr6, <b>1.2767</b> X45NiCrMo4	≤1400		<input type="radio"/>
Acciai super rapidi	<b>1.3243</b> S 6-5-2-5, <b>1.3343</b> S 6-5-2, <b>1.3344</b> S 6-5-3	≤1400		<input type="radio"/>
Acciai per molle	<b>1.5026</b> 55Si7, <b>1.7176</b> 55Cr3, <b>1.8159</b> 51CrV4 (51CrV4)		≤350 HB	<input type="radio"/>
Acciai inossidabili, allo zolfo	<b>1.4005</b> X12CrS13, <b>1.4104</b> X14CrMoS17, <b>1.4105</b> X6CrMoS17, <b>1.4305</b> X8CrNiS18-9	≤900		<input type="radio"/>
austenitici	<b>1.4301</b> X5CrNi18-10 (V2A), <b>1.4541</b> X6CrNiTi18-10, <b>1.4571</b> X6CrNiMoTi 17-12-2 (V4A)	≤1100		<input type="radio"/>
martensitici	<b>1.4057</b> X20CrNi172 (X17CrNi16-2), <b>1.4122</b> X39CrMo17-1, <b>1.4521</b> X2CrMoTi18-2	≤1500		<input type="radio"/>
Acciai temprati	-		≤48 HRC ≤66 HRC	<input type="radio"/>
Leghe speciali	Nimonic, Inconel, Monel, Hastelloy	≤2000		<input type="radio"/>
Ghise	<b>0.6010</b> EN-GJL-100 (GG10), <b>0.6020</b> EN-GJL-200 (GG20)		≤240 HB	<input type="radio"/>
	<b>0.6025</b> EN-GJL-250 (GG25), <b>0.6035</b> EN-GJL-350 (GG35)		≤350 HB	<input type="radio"/>
Ghise sferoidali,	<b>0.7050</b> EN-GJS-500-7 (GGG50), <b>0.8035</b> EN-GJMw-350-4 (GTW35)		≤240 HB	<input type="radio"/>
ghise temperate	<b>0.7070</b> EN-GJS-700-2 (GGG70), <b>0.8170</b> EN-GJMB-700-2 (GTS70)		≤350 HB	<input type="radio"/>
Ghisa in conchiglia	-		≤350 HB	<input type="radio"/>
Titanio e leghe di titanio	<b>3.7024</b> Ti99,5, <b>3.7114</b> TiAl5Sn2,5, <b>3.7124</b> TiCu2	≤850		<input type="radio"/>
	<b>3.7154</b> TiAl6Zr5, <b>3.7165</b> TiAl6V4, <b>3.7184</b> TiAl4Mo4Sn2,5, - TiAl8Mo1V1	≤1400		<input type="radio"/>
Alluminio e leghe di alu	<b>3.0255</b> Al99,5, <b>3.2315</b> AlMgSi1, <b>3.3515</b> AlMg1	≤400		<input type="radio"/>
Leghe di alu per lav. plastiche	<b>3.0615</b> AlMgSiPb, <b>3.1325</b> AlCuMg1, <b>3.3245</b> AlMg3Si, <b>3.4365</b> AlZnMgCu1,5	≤650		<input type="radio"/>
Leghe di alu-ghisa ≤ 10 % Si	<b>3.2131</b> G-AlSi5Cu1, <b>3.2153</b> G-AlSi7Cu3, <b>3.2573</b> G-AlSi9	≤600		<input type="radio"/>
> 10 % Si	<b>3.2581</b> G-AlSi12, <b>3.2583</b> G-AlSi12Cu, - G-AlSi12CuNiMg	≤600		<input type="radio"/>
Leghe di magnesio	<b>3.5200</b> MgMn2, <b>3.5812.05</b> G-MgAl8Zn1, <b>3.5612.05</b> G-MgAl6Zn1	≤400		<input type="radio"/>
Rame legato in bassa %	<b>2.0070</b> SE-Cu, <b>2.1020</b> CuSn6, <b>2.1096</b> G-CuSn5ZnPb	≤500		<input type="radio"/>
Ottone, a truciolo corto	<b>2.0380</b> CuZn39Pb2, <b>2.0401</b> CuZn39Pb3, <b>2.0410</b> CuZn43Pb2	≤600		<input type="radio"/>
a truciolo lungo	<b>2.0250</b> CuZn20, <b>2.0280</b> CuZn33, <b>2.0332</b> CuZn37Pb0,5	≤600		<input type="radio"/>
Bronzi a truciolo corto	<b>2.1090</b> CuSn7ZnPb, <b>2.1170</b> CuPb5Sn5, <b>2.1176</b> CuPb10Sn	≤600		<input type="radio"/>
	<b>2.0790</b> CuNi18Zn19Pb	≤850		<input type="radio"/>
Bronzi a truciolo lungo	<b>2.0916</b> CuAl5, <b>2.0960</b> CuAl9Mn, <b>2.1050</b> CuSn10	≤850		<input type="radio"/>
	<b>2.0980</b> CuAl11Ni, <b>2.1247</b> CuBe2	≤1000		<input type="radio"/>
Mat. plastiche termoidurenti	Resina epossidica, Resopal, Pertinax, Moltopren	≤150		<input type="radio"/>
Materie termoplastiche	Plexiglas, Hostalen, Novodur, Makralon	≤100		<input type="radio"/>
Nuove ghise GGV	<b>EN-GJV250</b> (GGV25), <b>EN-GJV350</b> (GGV35)		≤220 HB	<input type="radio"/>
	<b>EN-GJV400</b> (GGV40), <b>EN-GJV500</b> (GGV50), SiMo 6		≤300 HB	<input type="radio"/>
Nuove ghise ADI	<b>EN-GJS-800-8</b> (ADI800), <b>EN-GJS-1000-5</b> (ADI1000)	≤1000		<input type="radio"/>
	<b>EN-GJS-1200-2</b> (ADI1200), <b>EN-GJS-1400-1</b> (ADI1400)	≤1400		<input type="radio"/>
Mat. plast. a fibre aramidiche	Kevlar	≤1000		<input type="radio"/>
a fibre di vetro/C rinforzate	GFK/CFK	≤1000		<input type="radio"/>

lucide

trattati a vapore

fasi nitrate

bruno-dorate

MolyGlide

≤5xD

89275

N.d.F.

int. MD

K/P



100U

DZ

89404

6537L

int. MD

K/P



100F

HA

89414

6537L

int. MD

K/P



100U

HA

89417

6537L

int. MD

K/P



100U

HE

89271

6537L

int. MD

K



100F

HE

89272

6537L

int. MD

K/P



100U

HE

assiale assiale

89407

6537L

int. MD

K/P



100F

HA

89406

6537L

int. MD

K/P



100F

HE

89411

6537L

int. MD

K/P



100U

HA

89406

6537L

int. MD

K/P



100F

HE

assiale assiale assiale assiale

89425

6537L

int. MD



100H

HA

89426

6537L

int. MD



100H

HE

assiale assiale



V <sub>c</sub> m/min	Num. col. avanzam.	V <sub>c</sub> m/min	Num. col. avanzam.	V <sub>c</sub> m/min	Num. col. avanzam.	V <sub>c</sub> m/min	Num. col. avanzam.	V <sub>c</sub> m/min	Num. col. avanzam.	V <sub>c</sub> m/min	Num. col. avanzam.	V <sub>c</sub> m/min	Num. col. avanzam.
100	6	130	7	130	7	7	110	6	6	145	7	7	7
85	5	110	6	110	6	6	90	5	5	120	6	6	6
110	7	145	8	145	8	8	130	7	7	170	8	8	8
85	6	110	7	110	7	7	110	7	7	145	8	8	8
90	6	120	7	120	7	7	100	7	7	130	8	8	8
85	6	110	7	110	7	7	95	6	6	125	7	7	7
80	6	105	7	105	7	7	90	6	6	120	7	7	7
80	6	105	7	105	7	7	90	6	6	120	7	7	7
75	5	100	6	100	6	6	80	6	6	105	7	7	7
100	7	130	8	130	8	8	110	7	7	145	8	8	8
90	6	120	7	120	7	7	90	6	6	120	7	7	7
65	4	85	5	85	5	5	65	4	4	85	5	5	5
75	5	100	6	100	6	6	85	6	6	110	7	7	7
70	4	90	5	90	5	5	80	4	4	105	5	5	5
50	5	65	6	65	6	6	60	5	5	80	6	6	6
40	4	55	5	55	5	5	50	4	4	65	5	5	5
		55	4				45	3	4	60	4	4	5
35	2	45	3	45	3	3	45	2	2	60	3	3	3
40	3	55	4	55	4	4	45	4	4	60	5	5	5
35	3	45	4	45	4	4	40	4	4	55	5	5	5
35	2	45	3	45	3	3	35	4	4	45	5	5	5
35	2	45	2	45	3	3	40	2	2	55	3	3	3
20	1	25	2	25	2	2	25	1	1	35	2	2	2
20	3	25	4	25	4	4	25	3	3	35	4	4	4
160	7	210	8	210	8	8	160	8	8	210	9	9	9
120	7	155	8	155	8	8	120	8	8	160	9	9	9
120	6	145	8	145	7	7	100	8	8	140	9	9	9
95	6	125	8	125	7	7	95	7	7	130	8	8	8
25	2	35	3	35	3	3	30	2	2	40	3	3	3
30	3	40	3	40	4	4	35	3	3	45	4	4	4
25	2	35	3	35	3	3	30	2	2	40	3	3	3
200	8	260	9	260	9	9	240	8	8	310	9	9	9
200	8	260	9	260	9	9	240	8	8	310	9	9	9
170	8	235	9	235	9	9	200	8	8	260	9	9	9
140	7	170	8	170	8	8	170	8	8	220	9	9	9
200	7	260	8	260	8	8	230	7	7	280	8	8	8
80	6	105	7	105	7	7	95	6	6	125	7	7	7
210	7	270	8	270	8	8	250	7	7	325	8	8	8
140	6	180	7	180	7	7	170	6	6	220	7	7	7
80	5	105	6	105	6	6	95	6	6	125	7	7	7
65	5	85	6	85	6	6	80	5	5	105	6	6	6
60	4	80	5	80	5	5	70	5	5	90	6	6	6
45	4	60	5	60	5	5	60	5	5	80	6	6	6

**A** TiAIN

**a** nanoA

**A** SuperA

**C** TiCN

**F** FIRE

**T** TiN

**Y** TiAISiN

## CONSIGLI PER L'IMPIEGO DI TS-DRILLS

### Tabella N. 37

Articolo nr. **R**

Norma/DIN

Materiale tagliente

Tipo di metallo duro

Tratt. di superficie

Tipo

Forma attacco

Refrigerante

I numeri in grassetto della colonna avanzamento indicano gli utensili da preferire.

Ø utensile mm	Num. colonna avanzamento								
	1	2	3	4	5	6	7	8	9
	f (mm/giro)								
<b>0,50</b>	0,004	0,006	0,007	0,008	0,010	0,012	0,014	0,016	0,019
<b>1,00</b>	0,006	0,008	0,012	0,014	0,016	0,018	0,020	0,023	0,025
<b>2,00</b>	0,020	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125
<b>2,50</b>	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160
<b>3,15</b>	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,160
<b>4,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,200
<b>5,00</b>	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250
<b>6,30</b>	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315
<b>8,00</b>	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,315
<b>10,00</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,400
<b>12,50</b>	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500
<b>16,00</b>	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630
<b>20,00</b>	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,630
<b>25,00</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	0,800
<b>31,50</b>	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000
<b>40,00</b>	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000	1,250
<b>50,00</b>	0,250	0,310	0,400	0,500	0,630	0,800	1,000	1,250	1,250
<b>63,00</b>	0,315	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600
<b>80,00</b>	0,400	0,500	0,630	0,800	1,000	1,250	1,600	1,600	2,000

Refrigerante:

- Aria
- Olio
- Emulsione

Direzione di taglio:

- R** destre
- L** sinistre



# HARTNER

Materiali	Esempi di materiale Numeri in grassetto = nr. materiale a DIN EN 10 027	Resistenza N/mm <sup>2</sup>	Durezza	Refrigerante
Acciai da costruzione	<b>1.0035</b> S185(St33), <b>1.0486</b> P275N(StE285), <b>1.0345</b> P235GH(H1), <b>1.0425</b> P265GH(H2)	≤500		●
	<b>1.0050</b> E295 (St50-2), <b>1.0070</b> E360 (St70-2), <b>1.8937</b> P500NH (WStE500)	≤1000		●
Acciai automatici	<b>1.0718</b> 11SMnPb30 (9SMnPb28), <b>1.0736</b> 11SMn37 (9SMn36)	≤850		●
	<b>1.0727</b> 46S20 (45S20), <b>1.0728</b> (60S20), <b>1.0757</b> 46SPb20 (45SPb20)	≤1000		●
Acciai da bonifica non legati	<b>1.0402</b> C22, <b>1.1178</b> C30E (Ck30)	≤700		●
	<b>1.0503</b> C45, <b>1.1191</b> C45E (Ck45)	≤850		●
	<b>1.0601</b> C60, <b>1.1221</b> C60E (Ck60)	≤1000		●
Acciai da bonifica legati	<b>1.5131</b> 50MnSi4, <b>1.7003</b> 38Cr2, <b>1.7030</b> 28Cr4	≤1000		●
	<b>1.5710</b> 36NiCr6, <b>1.7035</b> 41Cr4, <b>1.7225</b> 42CrMo4	≤1400		●
Acciai da cementazione non legati	<b>1.0301</b> (C10), <b>1.1121</b> C10E (Ck10)	≤850		●
Acciai da cementazione legati	<b>1.7276</b> 10CrMo11, <b>1.5125</b> 11MnSi6	≤1000		●
	<b>1.5752</b> 15NiCr13, <b>1.7131</b> 16MnCr5, <b>1.7264</b> 20CrMo5	≤1400		●
Acciai nitrurati	<b>1.8504</b> 34CrAl6	≤1000		●
	<b>1.8519</b> 31CrMoV9, <b>1.8550</b> 34CrAlNi7	≤1400		●
Acciai utensili	<b>1.1750</b> C75W, <b>1.2067</b> 102Cr6, <b>1.2307</b> 29CrMoV9	≤850		●
	<b>1.2080</b> X210Cr12, <b>1.2083</b> X42Cr13, <b>1.2419</b> 105WCr6, <b>1.2767</b> X45NiCrMo4	≤1400		●
Acciai super rapidi	<b>1.3243</b> S 6-5-2-5, <b>1.3343</b> S 6-5-2, <b>1.3344</b> S 6-5-3	≤1400		●
Acciai per molle	<b>1.5026</b> 55Si7, <b>1.7176</b> 55Cr3, <b>1.8159</b> 51CrV4 (51CrV4)		≤350 HB	●
Acciai inossidabili, allo zolfo	<b>1.4005</b> X12CrS13, <b>1.4104</b> X14CrMoS17, <b>1.4105</b> X6CrMoS17, <b>1.4305</b> X8CrNiS18-9	≤900		●
austenitici	<b>1.4301</b> X5CrNi18-10 (V2A), <b>1.4541</b> X6CrNiTi18-10, <b>1.4571</b> X6CrNiMoTi 17-12-2 (V4A)	≤1100		●
martensitici	<b>1.4057</b> X20CrNi172 (X17CrNi16-2), <b>1.4122</b> X39CrMo17-1, <b>1.4521</b> X2CrMoTi18-2	≤1500		●
Acciai temprati	-		≤48 HRC ≤66 HRC	●
Leghe speciali	Nimonic, Inconel, Monel, Hastelloy	≤2000		●
Ghise	<b>0.6010</b> EN-GJL-100 (GG10), <b>0.6020</b> EN-GJL-200 (GG20)		≤240 HB	●○
	<b>0.6025</b> EN-GJL-250 (GG25), <b>0.6035</b> EN-GJL-350 (GG35)		≤350 HB	●○
Ghise sferoidali,	<b>0.7050</b> EN-GJS-500-7 (GGG50), <b>0.8035</b> EN-GJMw-350-4 (GTW35)		≤240 HB	●○
ghise temperate	<b>0.7070</b> EN-GJS-700-2 (GGG70), <b>0.8170</b> EN-GJMB-700-2 (GTS70)		≤350 HB	●○
Ghisa in conchiglia	-		≤350 HB	●○
Titanio e leghe di titanio	<b>3.7024</b> Ti99,5, <b>3.7114</b> TiAl5Sn2,5, <b>3.7124</b> TiCu2	≤850		●
	<b>3.7154</b> TiAl6Zr5, <b>3.7165</b> TiAl6V4, <b>3.7184</b> TiAl4Mo4Sn2,5, - TiAl8Mo1V1	≤1400		●
Alluminio e leghe di alu	<b>3.0255</b> Al99,5, <b>3.2315</b> AlMgSi1, <b>3.3515</b> AlMg1	≤400		●
Leghe di alu per lav. plastiche	<b>3.0615</b> AlMgSiPb, <b>3.1325</b> AlCuMg1, <b>3.3245</b> AlMg3Si, <b>3.4365</b> AlZnMgCu1,5	≤650		●
Leghe di alu-ghisa ≤ 10 % Si	<b>3.2131</b> G-AISi5Cu1, <b>3.2153</b> G-AISi7Cu3, <b>3.2573</b> G-AISi9	≤600		●
> 10 % Si	<b>3.2581</b> G-AISi12, <b>3.2583</b> G-AISi12Cu, - G-AISi12CuNiMg	≤600		●
Leghe di magnesio	<b>3.5200</b> MgMn2, <b>3.5812.05</b> G-MgAl8Zn1, <b>3.5612.05</b> G-MgAl6Zn1	≤400		○
Rame legato in bassa %	<b>2.0070</b> SE-Cu, <b>2.1020</b> CuSn6, <b>2.1096</b> G-CuSn5ZnPb	≤500		●
Ottone, a truciolo corto	<b>2.0380</b> CuZn39Pb2, <b>2.0401</b> CuZn39Pb3, <b>2.0410</b> CuZn43Pb2	≤600		●
a truciolo lungo	<b>2.0250</b> CuZn20, <b>2.0280</b> CuZn33, <b>2.0332</b> CuZn37Pb0,5	≤600		●
Bronzi a truciolo corto	<b>2.1090</b> CuSn7ZnPb, <b>2.1170</b> CuPb5Sn5, <b>2.1176</b> CuPb10Sn	≤600		●●
	<b>2.0790</b> CuNi18Zn19Pb	≤850		●●
Bronzi a truciolo lungo	<b>2.0916</b> CuAl5, <b>2.0960</b> CuAl9Mn, <b>2.1050</b> CuSn10	≤850		●●
	<b>2.0980</b> CuAl11Ni, <b>2.1247</b> CuBe2	≤1000		●●
Mat. plastiche termoidurenti	Resina epossidica, Resopal, Pertinax, Moltopren	≤150		○
Materie termoplastiche	Plexiglas, Hostalen, Novodur, Makralon	≤100		○
Nuove ghise GGV	<b>EN-GJV250</b> (GGV25), <b>EN-GJV350</b> (GGV35)		≤220 HB	●○
	<b>EN-GJV400</b> (GGV40), <b>EN-GJV500</b> (GGV50), SiMo 6		≤300 HB	●○
Nuove ghise ADI	<b>EN-GJS-800-8</b> (ADI800), <b>EN-GJS-1000-5</b> (ADI1000)	≤1000		●○
	<b>EN-GJS-1200-2</b> (ADI1200), <b>EN-GJS-1400-1</b> (ADI1400)	≤1400		●○
Mat. plast. a fibre aramidiche	Kevlar	≤1000		○
a fibre di vetro/C rinforzate	GFK/CFK	≤1000		○

○ lucide

● trattati a vapore

● fasi nitrurate

● bruno-dorate

**M** MolyGlide



**CONSIGLI PER L'IMPIEGO DEL SISTEMA DI INSERTI INTERCAMBIABILI MULTIPLEX**
**Tabella N. 38**
**Articolo nr.**
**Ø-Capacità**
**Materiale placchetta**
**Classe di metallo duro**
**Tipo di metallo duro**
**Tratt. di superficie**


I numeri in grassetto della colonna avanzamento indicano gli utensili da preferire.

Ø utensile mm	Num. colonna avanzamento					
	1	2	3	4	5	6
	f (mm/giro)					
<b>10,00</b>	0,08	0,09	0,11	0,14	0,19	0,24
<b>12,50</b>	0,09	0,11	0,13	0,17	0,22	0,28
<b>16,00</b>	0,11	0,13	0,16	0,21	0,27	0,34
<b>20,00</b>	0,13	0,15	0,19	0,25	0,32	0,40
<b>25,00</b>	0,16	0,18	0,23	0,29	0,38	0,48
<b>31,50</b>	0,19	0,22	0,27	0,35	0,45	0,57
<b>40,00</b>	0,23	0,26	0,33	0,42	0,54	0,69
<b>50,00</b>	0,27	0,31	0,39	0,50	0,64	0,82
<b>63,00</b>	0,32	0,38	0,47	0,60	0,77	0,98
<b>102,00</b>	0,40	0,48	0,59	0,74	0,85	1,20
<b>150,00</b>	0,59	0,70	0,87	1,09	1,25	1,76
<b>100,00</b>	0,78	0,93	1,16	1,45	1,67	2,35

Refrigerante:

- Aria
- Olio
- Emulsione

Materiali	Esempi di materiale Numeri in grassetto = nr. materiale a DIN EN 10 027	Resistenza N/mm <sup>2</sup>	Durezza	Refrigerante
Acciai da costruzione	<b>1.0035</b> S185(St33), <b>1.0486</b> P275N(StE285), <b>1.0345</b> P235GH(H1), <b>1.0425</b> P265GH(H2)	≤500		○
	<b>1.0050</b> E295 (St50-2), <b>1.0070</b> E360 (St70-2), <b>1.8937</b> P500NH (WStE500)	≤1000		○
Acciai automatici	<b>1.0718</b> 11SMnPb30 (9SMnPb28), <b>1.0736</b> 11SMn37 (9SMn36)	≤850		○
	<b>1.0727</b> 46S20 (45S20), <b>1.0728</b> (60S20), <b>1.0757</b> 46SPb20 (45SPb20)	≤1000		○
Acciai da bonifica non legati	<b>1.0402</b> C22, <b>1.1178</b> C30E (Ck30)	≤700		○
	<b>1.0503</b> C45, <b>1.1191</b> C45E (Ck45)	≤850		○
	<b>1.0601</b> C60, <b>1.1221</b> C60E (Ck60)	≤1000		○
Acciai da bonifica legati	<b>1.5131</b> 50MnSi4, <b>1.7003</b> 38Cr2, <b>1.7030</b> 28Cr4	≤1000		○
	<b>1.5710</b> 36NiCr6, <b>1.7035</b> 41Cr4, <b>1.7225</b> 42CrMo4	≤1400		○
Acciai da cementazione non legati	<b>1.0301</b> (C10), <b>1.1121</b> C10E (Ck10)	≤850		○
Acciai da cementazione legati	<b>1.7276</b> 10CrMo11, <b>1.5125</b> 11MnSi6	≤1000		○
	<b>1.5752</b> 15NiCr13, <b>1.7131</b> 16MnCr5, <b>1.7264</b> 20CrMo5	≤1400		○
Acciai nitruati	<b>1.8504</b> 34CrAl6	≤1000		○
	<b>1.8519</b> 31CrMoV9, <b>1.8550</b> 34CrAlNi7	≤1400		○
Acciai utensili	<b>1.1750</b> C75W, <b>1.2067</b> 102Cr6, <b>1.2307</b> 29CrMoV9	≤850		○
	<b>1.2080</b> X210Cr12, <b>1.2083</b> X42Cr13, <b>1.2419</b> 105WCr6, <b>1.2767</b> X45NiCrMo4	≤1400		○
Acciai super rapidi	<b>1.3243</b> S 6-5-2-5, <b>1.3343</b> S 6-5-2, <b>1.3344</b> S 6-5-3	≤1400		○
Acciai per molle	<b>1.5026</b> 55Si7, <b>1.7176</b> 55Cr3, <b>1.8159</b> 51CrV4 (51CrV4)		≤350 HB	○
Acciai inossidabili, allo zolfo	<b>1.4005</b> X12CrS13, <b>1.4104</b> X14CrMoS17, <b>1.4105</b> X6CrMoS17, <b>1.4305</b> X8CrNiS18-9	≤900		○
austenitici	<b>1.4301</b> X5CrNi18-10 (V2A), <b>1.4541</b> X6CrNiTi18-10, <b>1.4571</b> X6CrNiMoTi 17-12-2 (V4A)	≤1100		○
martensitici	<b>1.4057</b> X20CrNi172 (X17CrNi16-2), <b>1.4122</b> X39CrMo17-1, <b>1.4521</b> X2CrMoTi18-2	≤1500		○
Acciai temprati	-		≤48 HRC ≤66 HRC	○
Leghe speciali	Nimonic, Inconel, Monel, Hastelloy	≤2000		○
Ghise	<b>0.6010</b> EN-GJL-100 (GG10), <b>0.6020</b> EN-GJL-200 (GG20)		≤240 HB	○
	<b>0.6025</b> EN-GJL-250 (GG25), <b>0.6035</b> EN-GJL-350 (GG35)		≤350 HB	○
Ghise sferoidali,	<b>0.7050</b> EN-GJS-500-7 (GGG50), <b>0.8035</b> EN-GJMW-350-4 (GTW35)		≤240 HB	○
ghise temperate	<b>0.7070</b> EN-GJS-700-2 (GGG70), <b>0.8170</b> EN-GJMB-700-2 (GTS70)		≤350 HB	○
Ghisa in conchiglia	-		≤350 HB	○
Titanio e leghe di titanio	<b>3.7024</b> Ti99,5, <b>3.7114</b> TiAl5Sn2,5, <b>3.7124</b> TiCu2	≤850		○
	<b>3.7154</b> TiAl6Zr5, <b>3.7165</b> TiAl6V4, <b>3.7184</b> TiAl4Mo4Sn2,5, - TiAl8Mo1V1	≤1400		○
Alluminio e leghe di alu	<b>3.0255</b> Al99,5, <b>3.2315</b> AlMgSi1, <b>3.3515</b> AlMg1	≤400		○
Leghe di alu per lav. plastiche	<b>3.0615</b> AlMgSiPb, <b>3.1325</b> AlCuMg1, <b>3.3245</b> AlMg3Si, <b>3.4365</b> AlZnMgCu1,5	≤650		○
Leghe di alu-ghisa ≤ 10 % Si	<b>3.2131</b> G-AlSi5Cu1, <b>3.2153</b> G-AlSi7Cu3, <b>3.2573</b> G-AlSi9	≤600		○
> 10 % Si	<b>3.2581</b> G-AlSi12, <b>3.2583</b> G-AlSi12Cu, - G-AlSi12CuNiMg	≤600		○
Leghe di magnesio	<b>3.5200</b> MgMn2, <b>3.5812.05</b> G-MgAl8Zn1, <b>3.5612.05</b> G-MgAl6Zn1	≤400		○
Rame legato in bassa %	<b>2.0070</b> SE-Cu, <b>2.1020</b> CuSn6, <b>2.1096</b> G-CuSn5ZnPb	≤500		○
Ottone, a truciolo corto	<b>2.0380</b> CuZn39Pb2, <b>2.0401</b> CuZn39Pb3, <b>2.0410</b> CuZn43Pb2	≤600		○
a truciolo lungo	<b>2.0250</b> CuZn20, <b>2.0280</b> CuZn33, <b>2.0332</b> CuZn37Pb0,5	≤600		○
Bronzi a truciolo corto	<b>2.1090</b> CuSn7ZnPb, <b>2.1170</b> CuPb5Sn5, <b>2.1176</b> CuPb10Sn	≤600		○
	<b>2.0790</b> CuNi18Zn19Pb	≤850		○
Bronzi a truciolo lungo	<b>2.0916</b> CuAl5, <b>2.0960</b> CuAl9Mn, <b>2.1050</b> CuSn10	≤850		○
	<b>2.0980</b> CuAl11Ni, <b>2.1247</b> CuBe2	≤1000		○
Mat. plastiche termoindurenti	Resina epossidica, Resopal, Pertinax, Moltopren	≤150		○
Materie termoplastiche	Plexiglas, Hostalen, Novodur, Makralon	≤100		○
Nuove ghise GGV	<b>EN-GJV250</b> (GGV25), <b>EN-GJV350</b> (GGV35)		≤220 HB	○
	<b>EN-GJV400</b> (GGV40), <b>EN-GJV500</b> (GGV50), SiMo 6		≤300 HB	○
Nuove ghise ADI	<b>EN-GJS-800-8</b> (ADI800), <b>EN-GJS-1000-5</b> (ADI1000)	≤1000		○
	<b>EN-GJS-1200-2</b> (ADI1200), <b>EN-GJS-1400-1</b> (ADI1400)	≤1400		○
Mat. plast. a fibre aramidiche	Kevlar	≤1000		○
a fibre di vetro/C rinforzate	GFK/CFK	≤1000		○

○ lucide

● trattati a vapore

● fasi nitrate

● bruno-dorate

M MolyGlide

<b>86602</b>
10...25
HSS-E-PM

<b>86608</b>
10...25
HSS-E-PM

<b>86609</b>
10...102
HSS-E-PM

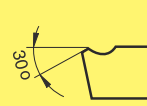
<b>86708</b>	<b>86709</b>
10...35	10...35
int. in MD	int. in MD

<b>86701</b>	<b>86702</b>
10...35	10...35
int. in MD	int. in MD



**Articolo nr. 86709/86701 senza fase**  
per materiali fino a ca. 600 N/mm<sup>2</sup> di resistenza a trazione

**Articolo nr. 86708/86702 con fase**  
per materiali da ca. 600 N/mm<sup>2</sup> di resistenza a trazione



V <sub>c</sub> m/min	Num. col. avanzam.	V <sub>c</sub> m/min	Num. col. avanzam.	V <sub>c</sub> m/min	Num. col. avanzam.	V <sub>c</sub> m/min	Num. col. avanzam.	V <sub>c</sub> m/min	Num. col. avanzam.
40	4	48	4	48	4	60	5	70	5
35	4	42	4	42	4	55	4	65	4
50	5	60	5	60	5	100	4	115	4
40	5	50	5	50	5	95	4	105	4
40	4	45	4	45	4	80	4	90	4
35	4	40	4	40	4	80	4	90	4
30	4	35	4	35	4	75	3	85	3
25	3	28	3	28	3	70	4	80	4
22	2	25	2	25	2	60	3	70	3
35	3	40	3	40	3	85	4	95	4
25	3	28	3	28	3	70	4	80	4
22	2	25	2	25	2	55	3	65	3
22	3	25	3	25	3	60	3	65	3
15	2	18	2	18	2	50	2	55	2
26	3	28	3	28	3	40	3	45	3
22	2	25	2	25	2	35	2	40	2
12	2	18	2	18	2	40	2	45	2
10	2	13	2	13	2	35	2	40	2
20	2	23	2	23	2	40	2	45	2
15	2	17	2	17	2	25	2	30	2
15	2	20	2	20	2	25	1	30	1
35	4	40	4	40	4	100	5	120	5
35	4	40	4	40	4	90	4	105	4
35	4	40	4	40	4	80	4	90	4
28	4	33	4	33	4	65	3	75	3
60	5	65	5	65	5	25	1	30	1
80	5	85	5	85	5	180	5	200	5
85	5	85	5	85	5	160	5	180	5
70	5	70	5	70	5	140	5	160	5
45	4	50	4	50	4	130	5	150	5
45	4	50	4	50	4	150	5	160	5
60	5	65	5	65	5	70	4	80	4
45	4	50	4	50	4	160	5	180	5
32	5	35	5	35	5	110	4	120	4
40	3	45	3	45	3	80	5	90	5
36	3	40	3	40	3	65	4	75	4
28	3	32	3	32	3	45	4	50	4
22	3	27	3	27	3	35	4	40	4
						70	3	85	3
						70	3	85	3

**A** TiAlN

**a** nanoA

**A** SuperA

**C** TiCN

**F** FIRE

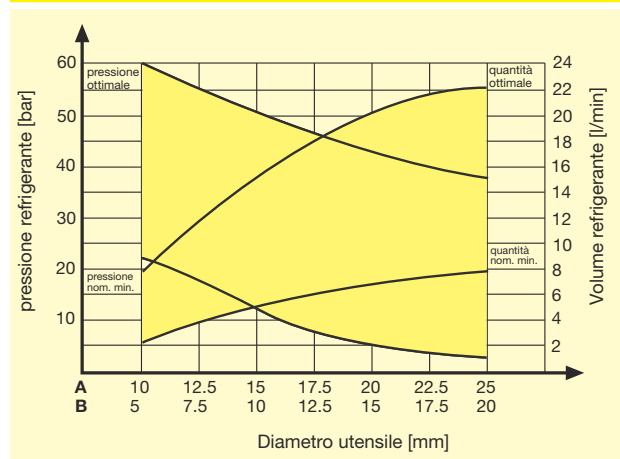
**T** TiN

**Y** TiAlSiN

## DIAGRAMMI DEL REFRIGERANTE PRESSIONE E VOLUMI DEL REFRIGERANTE

Tabella N. 39

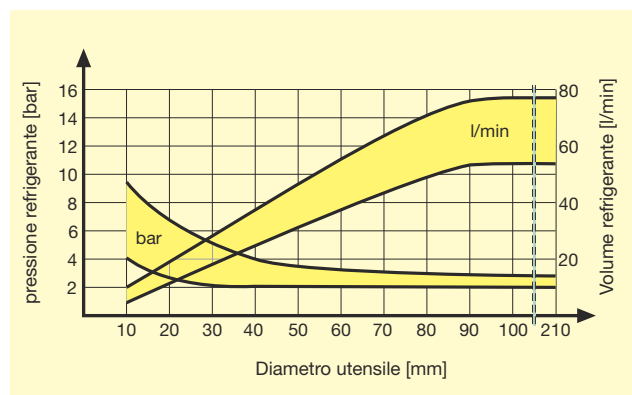
Per punte elicoidali in metallo duro con fori di refrigerazione



A = Diametri per utensili con condotto refrigerante centrale  
B = Diametri per utensili con condotto refrigerante elicoidale



Per punte con placchette intercambiabili, sistema Multiplex con fori di refrigerazione



Nella foratura con placchette intercambiabili in HSS-E e MD l'emulsione serve come lubrorefrigerante. Il rapporto di miscelazione è quello usuale di 1:20.

Di decisiva importanza è un efficiente gruppo refrigerante. Una pressione e quantità del refrigerante non sufficienti possono provocare un risultato di foratura insoddisfacente e persino la rottura dell'utensile.

La quantità delle particelle della sostanza solida possibilmente non deve superare i 50 µm.



**FRESE FRONTALI - NUMERO DI GIRI E AVANZAMENTO (VALORI ORIENTATIVI)**
**Tabella N. 40**

Materiale da lavorare	Acciaio non legato <50 kg/mm <sup>2</sup>		Acciaio non legato 50-70 kg/mm <sup>2</sup>		Acciaio legato 70-100 kg/mm <sup>2</sup> Ghisa<GG25		Acciaio legato 100-130 kg/mm <sup>2</sup> Acciaio al cromo Ghisa<GG25		Bronzo ottone duro MS 63		Rame Leghe Alluminio Alluminio al silicio SI < 12%		Ottone MS 58		Alluminio ricott. Zama	
	V = 32 m/min.		V = 25 m/min.		V = 18 m/min.		V = 13 m/min.		V = 35 m/min.		V = 50 m/min.		V = 70 m/min.		V = 160 m/min	
Ø	n	s	n	s	n	s	n	s	n	s	n	s	n	s	n	s
2	5000	28	4000	22	2800	14	2000	11	5600	32	8000	32	11200	63	25000	100
3	3150	28	2800	25	2000	18	1400	13	4000	36	5600	32	7100	63	16000	100
4	2500	32	2000	25	1400	18	1000	13	2800	36	4000	32	5600	63	12500	100
5	2000	36	1600	28	1120	18	800	13	2240	40	3150	36	4500	80	10000	125
6	1600	63	1400	56	1000	40	710	28	1800	71	2800	71	3550	140	8000	200
7	1400	63	1120	56	800	40	560	28	1600	80	2240	71	3150	140	7100	224
8	1250	71	1000	63	710	40	500	32	1400	80	2000	80	2800	160	6300	250
9	1120	80	900	63	630	45	450	32	1250	90	1800	80	2500	180	5600	250
10	1000	112	800	90	560	45	400	32	1120	125	1600	90	2240	250	5000	280
12	800	125	710	112	500	80	355	56	900	140	1400	112	1800	280	4000	315
14	710	140	560	112	400	80	280	56	800	160	1120	112	1600	315	3550	355
16	630	160	500	125	355	90	250	63	710	180	1000	148	1400	355	3150	560
18	560	160	450	125	315	90	224	63	630	180	900	180	1250	355	2800	560
20	500	140	400	112	280	80	200	56	560	160	800	160	1120	315	2500	500
22	450	140	355	112	250	80	180	56	500	160	710	160	1000	315	2240	500
25	400	140	315	112	224	80	160	56	450	160	630	140	900	315	2000	450
28	355	125	280	112	200	71	140	56	400	160	560	112	800	280	1800	400
30	315	125	280	112	200	71	140	56	400	160	560	140	710	280	1800	450
32	315	125	250	100	180	71	125	50	355	140	500	125	710	280	1600	400

**FRESE A SGROSSARE - NUMERO DI GIRI E AVANZAMENTO (VALORI ORIENTATIVI)**
**Tabella N. 41**

Ø	V = 32 m/min.		V = 25 m/min.		V = 18 m/min.		V = 13 m/min.		V = 35 m/min.		V = 50 m/min.		V = 70 m/min.		V = 160 m/min	
	n	s	n	s	n	s	n	s	n	s	n	s	n	s	n	s
10	1000	45	800	40	560	32	400	20	1120	50	1600	71	2240	71		
12	800	50	710	45	500	36	355	25	900	56	1400	80	1800	90		
14	710	50	560	45	400	36	280	25	800	56	1120	80	1600	90		
16	630	50	500	45	355	36	250	25	710	56	1000	80	1400	90		
18	560	56	450	50	315	40	224	28	630	63	900	90	1250	100		
20	500	56	400	50	280	40	200	28	560	63	800	90	1120	100		
22	450	56	355	50	250	40	180	28	500	63	710	90	1000	100		
25	400	63	315	56	224	45	160	32	450	71	630	100	900	112		
28	355	63	280	56	200	45	140	32	400	71	560	100	800	112		
30	315	63	280	56	200	45	140	36	400	80	560	112	710	112		
32	315	63	250	56	180	45	125	36	355	80	500	112	710	112		

Non usare

V = velocità di taglio in m/min.

n = numeri giri al min.

s = avanzamento in mm/min.

**FRESE CONICHE - NUMERO DI GIRI / MIN. (VALORI ORIENTATIVI)**
**Tabella N. 42**

Materiale da lavorare	Art. 8884 G 8885 G Gr. 0	Art. 8884 G 8885 G Gr. 1	Art. 8884 G 8885 G Gr. 2	Art. 8884 G 8885 G Gr. 3	Art. 8884 G 8885 G Gr. 4	Art. 8884 G 8885 G Gr. 5	Art. 8886 G 8887 G
Spessore lamiera acciaio da mm 0,1 a 2	1000 - 500	800 - 400	400 - 200	250 - 150	200 - 100	100 - 50	800 - 200
Spessore lamiera INOX da mm 0,1 a 1	700 - 300	400 - 200	200 - 100	150 - 80	80 - 50	60 - 40	700 - 100
Spessore materiali non ferrosi da mm 0,1 a 5	2000 - 1500	1500 - 800	1000 - 500	500 - 300	300 - 200	200 - 100	1500 - 500
Spessore plastica fino a mm 10	3000 - 2000	2000 - 1500	1500 - 1000	1000 - 500	500 - 200	400 - 200	2000 - 1000

**VELOCITA' DI TAGLIO, AVANZAMENTI, NUMERO DEI GIRI PER ALESATORI**
**Tabella N. 43/a**
**In acciaio super rapido HSS**  
 Valori indicativi consigliabili per lavorazioni

Materiale	Velocità di taglio = v Avanzamento = s Numero dei giri = n	Ø alesatore								
		mm								
		5	8	10	15	20	25	30	40	50
Acciai non legati fino a 800 N/mm <sup>2</sup>	v = m/min. s = mm/giro n = giri/min.	10 ÷ 12								
		0,1	0,13	0,15	0,2	0,25	0,25	0,30	0,35	0,40
		700	440	350	232	176	137	115	88	71
Acciai non legati fino a 1000 N/mm <sup>2</sup> Acciai da bonifica	v = m/min. s = mm/giro n = giri/min.	4 ÷ 6								
		0,08	0,1	0,1	0,15	0,20	0,25	0,30	0,35	0,40
		378	198	159	106	80	64	53	40	32
Acciai legati Acciai resistenti a corrosioni da acidi (INOX)	v = m/min. s = mm/giro n = giri/min.	4 ÷ 6								
		0,08	0,1	0,1	0,15	0,20	0,25	0,30	0,35	0,40
		378	198	159	106	80	64	53	40	32
Acciai resistenti al calore	v = m/min. s = mm/giro n = giri/min.	8 ÷ 10								
		0,18	0,20	0,23	0,25	0,30	0,30	0,35	0,40	0,45
		578	305	288	191	143	115	95	73	58
Ghisa grigia fino a 250 N/mm <sup>2</sup>	v = m/min. s = mm/giro n = giri/min.	8 ÷ 10								
		0,18	0,20	0,23	0,25	0,30	0,30	0,35	0,40	0,45
		578	385	288	191	143	115	95	72	58
Ghisa grigia oltre 250 N/mm <sup>2</sup>	v = m/min. s = mm/giro n = giri/min.	4 ÷ 6								
		0,12	0,15	0,17	0,20	0,25	0,25	0,30	0,35	0,40
		318	198	159	106	80	64	53	40	32
Fusioni di acciaio Ghisa malleabile Ghisa sferoidale	v = m/min. s = mm/giro n = giri/min.	8 ÷ 10								
		0,18	0,20	0,23	0,25	0,30	0,30	0,35	0,40	0,45
		572	385	288	191	143	115	95	72	58
Rame	v = m/min. s = mm/giro n = giri/min.	8 ÷ 12								
		0,15	0,18	0,20	0,25	0,30	0,30	0,35	0,40	0,45
		636	398	318	212	158	127	106	80	54
Rame elettrolitico	v = m/min. s = mm/giro n = giri/min.	8 ÷ 10								
		0,18	0,20	0,23	0,25	0,30	0,30	0,35	0,40	0,45
		572	385	288	191	143	115	95	72	58
Ottone a truciolo corto	v = m/min. s = mm/giro n = giri/min.	10 ÷ 12								
		0,2	0,25	0,30	0,35	0,40	0,40	0,45	0,50	0,60
		700	440	350	232	176	137	115	88	71
Ottone a truciolo lungo	v = m/min. s = mm/giro n = giri/min.	12 ÷ 14								
		0,2	0,25	0,30	0,35	0,40	0,40	0,45	0,50	0,60
		828	518	413	276	207	166	132	104	83
Bronzo tenero Bronzo di fusione Bronzo allo zinco	v = m/min. s = mm/giro n = giri/min.	15 ÷ 25						20 ÷ 30		
		0,2	0,26	0,30	0,35	0,40	0,40	0,45	0,50	0,60
		1272	798	637	425	318	255	265	199	159
Bronzo duro	v = m/min. s = mm/giro n = giri/min.	12 ÷ 14								
		0,2	0,25	0,30	0,35	0,40	0,40	0,45	0,50	0,60
		828	518	473	276	207	166	132	104	83
Leghe di alluminio a truciolo lungo	v = m/min. s = mm/giro n = giri/min.	15 ÷ 20								
		0,15	0,18	0,20	0,25	0,30	0,30	0,35	0,40	0,40
		1120	720	573	382	288	225	189	144	117
Leghe di alluminio silicio fino a 10%	v = m/min. s = mm/giro n = giri/min.	12 ÷ 14								
		0,2	0,25	0,30	0,35	0,40	0,40	0,45	0,50	0,60
		828	518	413	276	207	166	132	104	83
Leghe di alluminio silicio oltre 10%	v = m/min. s = mm/giro n = giri/min.	10 ÷ 12								
		0,15	0,18	0,20	0,25	0,30	0,30	0,35	0,40	0,40
		700	440	350	232	176	137	115	88	71
Leghe di magnesio	v = m/min. s = mm/giro n = giri/min.	15 ÷ 20								
		0,15	0,18	0,20	0,25	0,30	0,30	0,35	0,40	0,40
		1120	720	573	382	288	225	189	144	117
Leghe di zinco	v = m/min. s = mm/giro n = giri/min.	10 ÷ 12								
		0,15	0,18	0,20	0,25	0,30	0,30	0,35	0,40	0,40
		700	440	350	232	176	137	115	88	71
Leghe di nichel	v = m/min. s = mm/giro n = giri/min.	8 ÷ 12								
		0,15	0,18	0,20	0,25	0,30	0,30	0,35	0,40	0,45
		636	343	318	212	158	127	106	80	54
Leghe di titanio Acciaio - Tic Metalli Ampco	v = m/min. s = mm/giro n = giri/min.	4 ÷ 6								
		0,08	0,1	0,1	0,15	0,20	0,25	0,30	0,35	0,40
		318	198	159	106	80	64	53	40	32
Materiali sintetici termoplastici	v = m/min. s = mm/giro n = giri/min.	6 ÷ 10								
		0,25	0,30	0,35	0,40	0,45	0,50	0,55	0,60	0,60
		510	318	254	170	127	102	85	64	51
Materiali sintetici duri con cariche anorganiche	v = m/min. s = mm/giro n = giri/min.	4 ÷ 6								
		0,2	0,25	0,30	0,35	0,40	0,45	0,45	0,50	0,50
		318	198	159	106	80	64	53	40	32
Materiali sintetici con cariche organiche	v = m/min. s = mm/giro n = giri/min.	6 ÷ 10								
		0,25	0,30	0,35	0,40	0,45	0,50	0,55	0,60	0,60
		510	318	254	170	127	102	85	64	51

**VELOCITA' DI TAGLIO, AVANZAMENTI, NUMERO DEI GIRI PER ALESATORI**
**Tabella N. 43/b**

 con placchette riportate in metallo duro  
 Valori indicativi consigliabili per lavorazioni

Materiale	Velocità di taglio = v Avanzamento = s Numero dei giri = n	Ø alesatore mm								
		5	8	10	15	20	25	30	40	50
Acciaio fino a 700 N/mm <sup>2</sup>	v = m/min. s = mm/giro n = giri/min.	10 ÷ 15								
		0,15	0,18	0,2	0,25	0,3	0,3	0,35	0,4	0,5
		796	498	398	266	198	159	133	100	80
Acciaio da 700 a 1000 N/mm <sup>2</sup>	v = m/min. s = mm/giro n = giri/min.	8 ÷ 12								
		0,15	0,18	0,2	0,25	0,3	0,3	0,35	0,4	0,5
		636	398	318	212	158	127	106	80	64
Acciaio da 1000 a 1400 N/mm <sup>2</sup>	v = m/min. s = mm/giro n = giri/min.	6 ÷ 10								
		0,12	0,15	0,15	0,18	0,2	0,2	0,25	0,3	0,4
		510	318	254	170	127	120	85	64	51
Acciaio fuso da 400 a 500 N/mm <sup>2</sup>	v = m/min. s = mm/giro n = giri/min.	8 ÷ 12								
		0,15	0,18	0,2	0,25	0,3	0,3	0,35	0,4	0,5
		636	398	318	212	158	127	106	80	64
Acciaio fuso da 500 a 700 N/mm <sup>2</sup>	v = m/min. s = mm/giro n = giri/min.	6 ÷ 10								
		0,12	0,15	0,15	0,18	0,2	0,2	0,25	0,3	0,4
		510	318	254	170	127	102	85	64	51
Ghisa grigia fino a 200 HB	v = m/min. s = mm/giro n = giri/min.	8 ÷ 12						10 ÷ 15		
		0,2	0,26	0,3	0,35	0,4	0,4	0,45	0,5	0,6
		636	398	318	212	158	127	133	100	80
Ghisa grigia, oltre 200 HB	v = m/min. s = mm/giro n = giri/min.	6 ÷ 10						8 ÷ 12		
		0,15	0,18	0,2	0,25	0,3	0,3	0,35	0,4	0,5
		510	318	254	170	127	102	106	80	64
Ghisa malleabile	v = m/min. s = mm/giro n = giri/min.	8 ÷ 12								
		0,15	0,18	0,2	0,25	0,3	0,3	0,35	0,4	0,5
		636	398	318	212	158	127	106	80	64
Rame	v = m/min. s = mm/giro n = giri/min.	20 ÷ 30						25 ÷ 40		
		0,3	0,36	0,4	0,45	0,5	0,5	0,55	0,6	0,7
		1592	995	796	531	398	318	345	259	207
Ottone, ottone rosso	v = m/min. s = mm/giro n = giri/min.	15 ÷ 25						20 ÷ 30		
		0,2	0,26	0,3	0,35	0,4	0,4	0,45	0,5	0,6
		1272	798	637	425	318	255	265	199	159
Fusioni di bronzo	v = m/min. s = mm/giro n = giri/min.	15 ÷ 25						20 ÷ 30		
		0,2	0,26	0,3	0,35	0,4	0,4	0,45	0,5	0,6
		1272	798	637	425	318	255	265	199	159
Metalli leggeri	v = m/min. s = mm/giro n = giri/min.	15 ÷ 25						20 ÷ 30		
		0,2	0,26	0,3	0,35	0,4	0,4	0,45	0,5	0,6
		1272	798	637	425	318	255	265	199	159
Materiali sintetici	v = m/min. s = mm/giro n = giri/min.	15 ÷ 25						20 ÷ 30		
		0,3	0,36	0,4	0,45	0,5	0,5	0,55	0,6	0,7
		1272	798	637	425	318	255	265	199	159

**NOMENCLATURA DELLA FILETTATURA**
**Tabella N. 44**

<b>DIMENSIONI:</b>	Si misurano sulla sezione perpendicolare all'asse di avvvitamento.
<b>DIAMETRO:</b>	Il diametro esterno corrisponde al diametro nominale della vite e viene misurato sulla cresta del filetto della vite.
<b>DIAMETRO DEL NOCCILOLO:</b>	Viene misurato sul fondo del filetto della vite.
<b>PASSO:</b>	Nella filettatura è la distanza parallela all'asse di avvvitamento tra due creste consecutive.
<b>NUMERO DEI FILETTI:</b>	Numero di filetti per pollice (1" = mm 25,4).
	$\text{Numero filetti} = \frac{25,4 \text{ mm}}{\text{Passo in mm}}$
<b>ANGOLO DEL FILETTO:</b>	Misurato in gradi, è l'angolo di cresta individuata da due fianchi contigui del filetto.
<b>CRESTA:</b>	Superficie passante per la sommità del filetto congiungente due fianchi.
<b>FIANCO:</b>	Superficie congiungente le creste al fondo.
<b>FONDO:</b>	Superficie passante per il fondo del filetto congiungente due fianchi.
<b>ANGOLO DELL'ELICA:</b>	Angolo individuato dall'elica del filetto intersecato da un piano perpendicolare all'asse di avvvitamento.
<b>PASSO DELL'ELICA:</b>	Spostamento del filetto misurato sull'asse dopo un giro completo.
<b>FILETTO SEMPLICE:</b>	Passo dell'elica = Passo del filetto.
<b>FILETTO A DUE PRINCIPI:</b>	Passo dell'elica = 2 volte passo del filetto.
<b>FILETTO A TRE PRINCIPI:</b>	Passo dell'elica = 3 volte passo del filetto.
<b>FILETTO A QUATTRO PRINCIPI:</b>	Passo dell'elica = 4 volte passo del filetto.
<b>FILETTO CILINDRICO:</b>	Filetto con diametro costante per tutta la lunghezza della filettatura.
<b>FILETTO CONICO:</b>	Filetto con crescita costante del diametro sulla lunghezza della filettatura.





**DIAMETRO DEL FORO PER MASCHIATURA V-COIL**
**Tabella N. 45/e**

D	P	Ø
<b>M/MF</b>		mm
M	2 x 0.4	2.10
M	2.5 x 0.45	2.60
M	3 x 0.5	3.20
M	3.5 x 0.6	3.70
M	4 x 0.7	4.20
M	5 x 0.8	5.20
M	6 x 1.0	6.30
M	7 x 1.0	7.30
M	8 x 1.25	8.30
M	8 x 1.0	8.30
M	9 x 1.25	9.30
M	10 x 1.5	10.40
M	10 x 1.25	10.30
M	10 x 1.0	10.30
M	11 x 1.5	11.40
M	12 x 1.75	12.40
M	12 x 1.5	12.40
M	12 x 1.25	12.30
M	12 x 1.0	12.30
M	14 x 2.0	14.50
M	14 x 1.5	14.40
M	14 x 1.25	14.40
M	14 x 1.0	14.30
M	16 x 2.0	16.50
M	16 x 1.5	16.40
M	18 x 2.5	18.60
M	18 x 2.0	18.50
M	18 x 1.5	18.50
M	20 x 2.5	20.60
M	20 x 2.0	20.50
M	20 x 1.5	20.50
M	22 x 2.5	22.60
M	22 x 2.0	22.50
M	22 x 1.5	22.50
M	24 x 3.0	24.75
M	24 x 2.0	24.50
M	24 x 1.5	24.50
M	26 x 1.5	26.50
M	27 x 1.5	27.50
M	27 x 2.0	27.50
M	27 x 3.0	27.75
M	28 x 1.5	28.50
M	30 x 1.5	30.50
M	30 x 2.0	30.50
M	30 x 3.5	31.00
M	33 x 2.0	33.50
M	33 x 3.5	34.00
M	36 x 1.5	36.50
M	36 x 2.0	36.50
M	36 x 3.0	37.00
M	36 x 4.0	37.00

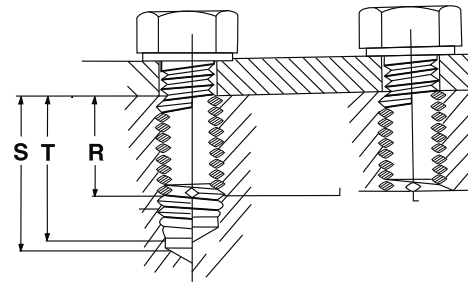
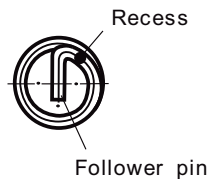
D	P	Ø
<b>UNC</b>		mm
No.	2 x 56	2.4
No.	4 x 40	3.0
No.	5 x 40	3.4
No.	6 x 32	3.7
No.	8 x 32	4.4
No.	10 x 24	5.1
No.	12 x 24	5.7
	1/4 x 20	6.7
	5/16 x 18	8.3
	3/8 x 16	9.9
	7/16 x 14	11.60
	1/2 x 13	13.00
	9/16 x 12	14.80
	5/8 x 11	16.50
	3/4 x 10	19.75
	7/8 x 9	23.00
	1" x 8	26.25
	1.1/8 x 7	29.50
	1.1/4 x 7	33.00
	1.3/8 x 6	36.00
	1.1/2 x 6	39.50
<b>UNF</b>		
No.	4 x 48	3.0
No.	6 x 40	3.7
No.	8 x 36	4.4
No.	10 x 32	5.1
	1/4 x 28	6.6
	5/16 x 24	8.2
	3/8 x 24	9.8
	7/16 x 20	11.50
	1/2 x 20	13.00
	9/16 x 18	14.80
	5/8 x 18	16.25
	3/4 x 16	19.50
	7/8 x 14	22.75
	1" x 12	26.00
	1.1/8 x 12	29.00
	1.1/4 x 12	32.50
	1.3/8 x 12	35.50
	1.1/2 x 12	38.50

D	P	Ø
<b>BSW</b>		
	1/8 x 40	3.4
	3/16 x 24	5.1
	1/4 x 20	6.7
	5/16 x 18	8.3
	3/8 x 16	9.9
	7/16 x 14	11.6
	1/2 x 12	13.0
	9/16 x 12	14.8
	5/8 x 11	16.7
	3/4 x 10	20.0
	7/8 x 9	23.0
	1" x 8	26.5
<b>BSF</b>		
	3/16 x 32	5.0
	1/4 x 26	6.6
	5/16 x 22	8.3
	3/8 x 20	9.9
	7/16 x 18	11.6
	1/2 x 16	13.0
	9/16 x 16	14.8
	5/8 x 14	16.4
	3/4 x 12	19.5
	7/8 x 11	22.7
	1" x 10	26.5

D	P	Ø
<b>G(BSP)</b>		mm
	1/8 x 28	10.00
	1/4 x 19	13.60
	3/8 x 19	17.10
	1/2 x 14	21.50
	5/8 x 14	23.40
	3/4 x 14	27.00
	7/8 x 14	30.60
	1" x 11	33.70

## DATI TECNICI FILETTI RIPORTATI DIN 8140

Tabella N. 45/f



M	S (mm)					T (mm)					R (mm)				
	1D	1.5D	2D	2.5D	3D	1D	1.5D	2D	2.5D	3D	1D	1.5D	2D	2.5D	3D
M 2 x 0.40	3.80	4.80	5.80	6.80	7.80	3.40	4.40	5.40	6.40	7.40	2.00	3.00	4.00	5.00	6.00
M 2.5 x 0.45	4.52	5.77	7.02	8.27	9.52	4.07	5.32	6.57	7.82	9.07	2.50	3.75	5.00	6.25	7.50
M 3 x 0.50	5.25	6.75	8.25	9.75	11.25	4.75	6.25	7.75	9.25	10.75	3.00	4.50	6.00	7.50	9.00
M 3.5 x 0.60	6.20	7.95	9.70	11.45	13.20	5.60	7.35	9.10	10.85	12.60	3.50	5.25	7.00	8.75	10.50
M 4 x 0.70	7.15	9.15	11.15	13.15	15.15	6.45	8.45	10.45	12.45	14.45	4.00	6.00	8.00	10.00	12.00
M 5 x 0.80	8.60	11.10	13.60	16.10	18.60	7.80	10.30	12.80	15.30	17.80	5.00	7.50	10.00	12.50	15.00
M 6 x 1.00	10.50	13.50	16.50	19.50	22.50	9.50	12.50	15.50	18.50	21.50	6.00	9.00	12.00	15.00	18.00
M 7 x 1.00	11.50	15.00	18.50	22.00	25.50	10.50	14.00	17.50	21.00	24.50	7.00	10.50	14.00	17.50	21.00
M 8 x 1.25	13.62	17.62	21.62	25.62	29.62	12.37	16.37	20.37	24.37	28.37	8.00	12.00	16.00	20.00	24.00
M 8 x 1.00	12.50	16.50	20.50	24.50	28.50	11.50	15.50	19.50	23.50	27.50	8.00	12.00	16.00	20.00	24.00
M 9 x 1.25	14.62	19.12	23.62	28.13	32.62	13.37	17.87	22.37	26.87	31.37	9.00	13.50	18.00	22.50	27.00
M 9 x 1.00	13.50	18.00	22.50	27.00	31.50	12.50	17.00	21.50	26.00	30.50	9.00	13.50	18.00	22.50	27.00
M 10 x 1.50	16.75	21.75	26.75	31.75	36.75	15.25	20.25	25.25	30.25	35.25	10.00	15.00	20.00	25.00	30.00
M 10 x 1.25	15.62	20.62	25.62	30.62	35.62	14.37	19.37	24.37	29.37	34.37	10.00	15.00	20.00	25.00	30.00
M 10 x 1.00	14.50	19.50	24.50	29.50	34.50	13.50	18.50	23.50	28.50	33.50	10.00	15.00	20.00	25.00	30.00
M 11 x 1.50	17.75	23.25	28.75	34.25	39.75	16.25	21.75	27.25	32.75	38.25	11.00	16.50	22.00	27.50	33.00
M 11 x 1.25	16.62	22.12	27.62	33.12	38.62	15.37	20.87	26.37	31.87	37.37	11.00	16.50	22.00	27.50	33.00
M 12 x 1.75	19.87	25.87	31.87	37.87	43.87	18.12	24.12	30.12	36.12	42.12	12.00	18.00	24.00	30.00	36.00
M 12 x 1.50	18.75	24.75	30.75	36.75	42.75	17.25	23.25	29.25	35.25	41.25	12.00	18.00	24.00	30.00	36.00
M 12 x 1.25	17.62	23.62	29.62	35.62	41.62	16.37	22.37	28.37	34.37	40.37	12.00	18.00	24.00	30.00	36.00
M 14 x 2.00	23.00	30.00	37.00	44.00	51.00	21.00	28.00	35.00	42.00	49.00	14.00	21.00	28.00	35.00	42.00
M 14 x 1.50	20.75	27.75	34.75	41.75	48.75	19.25	26.25	33.25	40.25	47.25	14.00	21.00	28.00	35.00	42.00
M 14 x 1.25	19.62	26.62	33.62	40.62	47.62	18.37	25.37	32.37	39.37	46.37	14.00	21.00	28.00	35.00	42.00
M 16 x 2.00	25.00	33.00	41.00	49.00	57.00	23.00	31.00	39.00	47.00	55.00	16.00	24.00	32.00	40.00	48.00
M 16 x 1.50	22.75	30.75	38.75	46.75	54.75	21.25	29.25	37.25	45.25	53.25	16.00	24.00	32.00	40.00	48.00
M 18 x 2.50	29.25	38.25	47.25	56.25	65.25	26.75	35.75	44.75	53.75	62.75	18.00	27.00	36.00	45.00	54.00
M 18 x 2.00	27.00	36.00	45.00	54.00	63.00	25.00	34.00	43.00	52.00	61.00	18.00	27.00	36.00	45.00	54.00
M 20 x 2.50	31.25	41.25	51.25	61.25	71.25	28.75	38.75	48.75	58.75	68.75	20.00	30.00	40.00	50.00	60.00
M 20 x 2.00	29.00	39.00	49.00	59.00	69.00	27.00	37.00	47.00	57.00	67.00	20.00	30.00	40.00	50.00	60.00
M 20 x 1.50	26.75	36.75	46.75	56.75	66.75	25.25	35.25	45.25	55.25	65.25	20.00	30.00	40.00	50.00	60.00
M 22 x 2.50	33.25	44.25	55.25	66.25	77.25	30.75	41.75	52.75	63.75	74.75	22.00	33.00	44.00	55.00	66.00
M 22 x 2.00	31.00	42.00	53.00	64.00	75.00	29.00	40.00	51.00	62.00	73.00	22.00	33.00	44.00	55.00	66.00
M 22 x 1.50	28.75	39.75	50.75	61.75	72.75	27.25	38.25	49.25	60.25	71.25	22.00	33.00	44.00	55.00	66.00
M 24 x 3.00	37.50	49.50	61.50	73.50	85.50	34.50	46.50	58.50	70.50	82.50	24.00	36.00	48.00	60.00	72.00
M 24 x 2.00	33.00	45.00	57.00	69.00	81.00	31.00	43.00	55.00	67.00	79.00	24.00	36.00	48.00	60.00	72.00
M 27 x 3.00	40.50	54.00	67.50	81.00	94.50	37.50	51.00	64.50	78.00	91.50	27.00	40.50	54.00	67.50	81.00
M 27 x 2.00	36.00	49.50	63.00	76.50	90.00	34.00	47.50	61.00	74.50	88.00	27.00	40.50	54.00	67.50	81.00
M 30 x 3.50	45.75	60.75	75.75	90.75	105.75	42.25	57.25	72.25	87.25	102.25	30.00	45.00	60.00	75.00	90.00
M 30 x 3.00	43.50	58.50	73.50	88.50	103.50	40.50	55.50	70.50	85.50	100.50	30.00	45.00	60.00	75.00	90.00
M 33 x 3.50	48.75	65.25	81.75	98.25	114.75	45.25	61.25	77.25	93.25	109.25	33.00	49.50	66.00	82.50	99.00
M 36 x 4.00	54.00	72.00	90.00	108.00	126.00	50.00	68.00	86.00	104.00	122.00	36.00	54.00	72.00	90.00	108.00
M 36 x 3.00	49.50	67.50	85.50	103.50	121.50	46.50	64.50	82.50	100.50	118.50	36.00	54.00	72.00	90.00	108.00
M 39 x 4.00	57.00	76.50	96.00	115.50	135.00	53.00	72.50	92.00	111.50	131.00	39.00	58.50	78.00	97.50	117.00
M 42 x 4.50	62.25	83.25	104.25	125.25	146.25	57.75	78.75	99.75	120.75	141.75	42.00	63.00	84.00	105.00	126.00
M 42 x 3.00	55.50	76.50	97.50	118.50	139.50	52.50	73.50	94.50	115.50	136.50	42.00	63.00	84.00	105.00	126.00



**Tabella N. 45/g**

	S (poll.)					T (poll.)					R (poll.)				
	1D	1.5D	2D	2.5D	3D	1D	1.5D	2D	2.5D	3D	1D	1.5D	2D	2.5D	3D
<b>UNF</b>															
2 - 64	.156	.199	.242	.285	.328	.141	.184	.227	.270	.313	.086	.129	.172	.215	.258
3 - 56	.179	.229	.278	.328	.377	.161	.210	.260	.310	.359	.099	.148	.198	.247	.297
4 - 48	.206	.262	.318	.374	.430	.185	.241	.297	.353	.409	.112	.168	.224	.280	.336
5 - 44	.227	.290	.352	.414	.477	.204	.267	.329	.391	.454	.125	.187	.250	.312	.375
6 - 40	.250	.319	.388	.457	.526	.225	.294	.363	.432	.501	.138	.207	.276	.345	.414
8 - 36	.289	.371	.453	.535	.617	.261	.343	.425	.507	.589	.164	.246	.328	.410	.492
10 - 32	.331	.426	.521	.616	.711	.299	.394	.489	.584	.679	.190	.285	.380	.475	.570
1/4 - 28	.411	.536	.661	.786	.911	.375	.500	.625	.750	.875	.250	.375	.500	.625	.750
5/16 - 24	.500	.656	.812	.969	1.125	.458	.614	.771	.927	1.083	.312	.469	.625	.781	.937
3/8 - 24	.562	.750	.937	1.124	1.312	.521	.708	.896	1.083	1.271	.375	.562	.750	.937	1.125
7/16 - 20	.662	.881	1.100	1.319	1.537	.612	.831	1.050	1.269	1.487	.437	.656	.875	1.094	1.312
1/2 - 20	.725	.975	1.225	1.475	1.725	.675	.925	1.175	1.425	1.675	.500	.750	1.000	1.250	1.500
9/16 - 18	.811	1.093	1.374	1.655	1.936	.756	1.038	1.319	1.600	1.881	.562	.844	1.125	1.406	1.687
5/8 - 18	.874	1.187	1.500	1.812	2.124	.819	1.132	1.444	1.757	2.069	.625	.937	1.250	1.562	1.875
3/4 - 16	1.031	1.406	1.781	2.156	2.531	.969	1.344	1.719	2.094	2.469	.750	1.125	1.500	1.875	2.250
7/8 - 14	1.196	1.634	2.071	2.509	2.946	1.125	1.562	2.000	2.437	2.875	.875	1.312	1.750	2.187	2.625
1" - 12	1.375	1.875	2.375	2.875	3.375	1.292	1.792	2.292	2.792	3.292	1.000	1.500	2.000	2.500	3.000
1"1/8 - 12	1.500	2.062	2.625	3.187	3.750	1.417	1.979	2.542	3.104	3.667	1.125	1.687	2.250	2.812	3.375
1"1/4 - 12	1.625	2.250	2.875	3.500	4.125	1.542	2.167	2.792	3.417	4.042	1.250	1.875	2.500	3.125	3.750
1"3/8 - 12	1.750	2.438	3.125	3.813	4.500	1.667	2.354	3.042	3.729	4.417	1.375	2.062	2.750	3.437	4.125
1"1/2 - 12	1.875	2.625	3.375	4.125	4.875	1.792	2.542	3.292	4.042	4.792	1.500	2.250	3.000	3.750	4.500
<b>UNC</b>															
2 - 56	.166	.209	.252	.295	.338	.148	.191	.234	.277	.320	.086	.129	.172	.215	.258
3 - 48	.193	.242	.292	.341	.391	.172	.221	.271	.320	.370	.099	.148	.198	.247	.297
4 - 40	.224	.280	.336	.392	.448	.199	.255	.311	.367	.423	.112	.168	.224	.280	.336
5 - 40	.237	.300	.362	.425	.487	.212	.275	.337	.400	.462	.125	.187	.250	.312	.375
6 - 32	.279	.348	.417	.486	.555	.247	.316	.385	.454	.523	.138	.207	.276	.345	.414
8 - 32	.305	.387	.469	.551	.633	.273	.355	.437	.519	.601	.164	.246	.328	.410	.492
10 - 24	.377	.472	.567	.662	.757	.336	.431	.526	.621	.716	.190	.285	.380	.475	.570
12 - 24	.403	.511	.619	.727	.835	.362	.470	.578	.686	.794	.216	.324	.432	.540	.648
1/4 - 20	.475	.600	.725	.850	.975	.425	.550	.675	.800	.925	.250	.375	.500	.625	.750
5/16 - 18	.562	.718	.875	1.031	1.187	.507	.663	.819	.975	1.132	.312	.469	.625	.781	.937
3/8 - 16	.656	.844	1.031	1.219	1.406	.594	.781	.969	1.156	1.344	.375	.562	.750	.937	1.125
7/16 - 14	.758	.977	1.196	1.415	1.633	.687	.906	1.125	1.344	1.562	.437	.656	.875	1.094	1.312
1/2 - 13	.846	1.096	1.346	1.596	1.846	.769	1.019	1.269	1.519	1.769	.500	.750	1.000	1.250	1.500
9/16 - 12	.937	1.219	1.500	1.781	2.062	.854	1.135	1.417	1.698	1.979	.562	.844	1.125	1.406	1.687
5/8 - 11	1.034	1.347	1.659	1.972	2.284	.943	1.256	1.568	1.881	2.193	.625	.937	1.250	1.562	1.875
3/4 - 10	1.200	1.575	1.950	2.325	2.700	1.100	1.475	1.850	2.225	2.600	.750	1.125	1.500	1.875	2.250
7/8 - 9	1.375	1.812	2.250	2.687	3.125	1.264	1.701	2.139	2.576	3.014	.875	1.312	1.750	2.187	2.625
1" - 8	1.562	2.062	2.562	3.062	3.562	1.437	1.937	2.437	2.937	3.437	1.000	1.500	2.000	2.500	3.000
1"1/8 - 7	1.768	2.330	2.893	3.455	4.018	1.625	2.187	2.750	3.312	3.875	1.125	1.687	2.250	2.812	3.375
1"1/4 - 7	1.893	2.518	3.143	3.768	4.393	1.750	2.375	3.000	3.625	4.250	1.250	1.875	2.500	3.125	3.750
1"3/8 - 6	2.125	2.812	3.500	4.187	4.875	1.958	2.646	3.333	4.021	4.708	1.375	2.062	2.750	3.437	4.125
1"1/2 - 6	2.250	3.000	3.750	4.500	5.250	2.083	2.833	3.583	4.333	5.083	1.500	2.250	3.000	3.750	4.500

Tabella N. 45/h

	S (poll.)					T (poll.)					R (poll.)				
	1D	1.5D	2D	2.5D	3D	1D	1.5D	2D	2.5D	3D	1D	1.5D	2D	2.5D	3D
<b>BSF</b>															
3/16 - 32	.328	.422	.515	.609	.703	.297	.390	.484	.578	.672	.187	.281	.375	.469	.562
1/4 - 26	.423	.548	.673	.798	.923	.385	.510	.635	.760	.885	.250	.375	.500	.625	.750
5/16 - 22	.517	.673	.829	.986	1.142	.472	.628	.784	.940	1.096	.312	.469	.625	.781	.937
3/8 - 20	.600	.787	.975	1.162	1.350	.550	.737	.925	1.112	1.300	.375	.562	.750	.937	1.125
7/16 - 18	.687	.906	1.124	1.343	1.562	.632	.851	1.069	1.288	1.507	.437	.656	.875	1.094	1.312
1/2 - 16	.781	1.031	1.281	1.531	1.781	.719	.969	1.219	1.469	1.719	.500	.750	1.000	1.250	1.500
9/16 - 16	.844	1.125	1.406	1.687	1.969	.781	1.062	1.344	1.625	1.906	.562	.844	1.125	1.406	1.687
5/8 - 14	.946	1.259	1.571	1.884	2.196	.875	1.187	1.500	1.812	2.125	.625	.937	1.250	1.562	1.875
3/4 - 12	1.125	1.500	1.875	2.250	2.625	1.042	1.417	1.792	2.167	2.542	.750	1.125	1.500	1.875	2.250
7/8 - 11	1.284	1.722	2.159	2.596	3.034	1.193	1.631	2.068	2.506	2.943	.875	1.312	1.750	2.187	2.625
1" - 10	1.450	1.950	2.450	2.950	3.450	1.350	1.850	2.350	2.850	3.350	1.000	1.500	2.000	2.500	3.000
1"1/8 - 9	1.625	2.187	2.750	3.312	3.875	1.514	2.076	2.639	3.201	3.764	1.125	1.687	2.250	2.812	3.375
1"1/4 - 9	1.750	2.375	3.000	3.625	4.250	1.639	2.264	2.889	3.514	4.139	1.250	1.875	2.500	3.125	3.750
1"3/8 - 8	1.937	2.625	3.312	4.000	4.687	1.812	2.500	3.187	3.875	4.562	1.375	2.062	2.750	3.437	4.125
1"1/2 - 8	2.062	2.812	3.562	4.312	5.062	1.937	2.687	3.437	4.187	4.937	1.500	2.250	3.000	3.750	4.500
<b>BSW</b>															
1/8 - 40	.237	.300	.362	.425	.487	.212	.275	.337	.400	.462	.125	.187	.250	.312	.375
3/16 - 24	.375	.469	.562	.656	.750	.333	.427	.521	.614	.708	.187	.281	.375	.469	.562
1/4 - 20	.475	.600	.725	.850	.975	.425	.550	.675	.800	.925	.250	.375	.500	.625	.750
5/16 - 18	.562	.718	.875	1.031	1.187	.507	.663	.819	.975	1.132	.312	.469	.625	.781	.937
3/8 - 16	.656	.844	1.031	1.219	1.406	.594	.781	.969	1.156	1.344	.375	.562	.750	.937	1.125
7/16 - 14	.758	.977	1.196	1.415	1.633	.687	.906	1.125	1.344	1.562	.437	.656	.875	1.094	1.312
1/2 - 12	.875	1.125	1.375	1.625	1.875	.792	1.042	1.292	1.542	1.792	.500	.750	1.000	1.250	1.500
9/16 - 12	.937	1.219	1.500	1.781	2.062	.854	1.135	1.417	1.698	1.979	.562	.844	1.125	1.406	1.687
5/8 - 11	1.034	1.347	1.659	1.972	2.284	.943	1.256	1.568	1.881	2.193	.625	.937	1.250	1.562	1.875
3/4 - 10	1.200	1.575	1.950	2.325	2.700	1.100	1.475	1.850	2.225	2.600	.750	1.125	1.500	1.875	2.250
7/8 - 9	1.375	1.812	2.250	2.687	3.125	1.264	1.701	2.139	2.576	3.014	.875	1.312	1.750	2.187	2.625
1" - 8	1.562	2.062	2.562	3.062	3.562	1.437	1.937	2.437	2.937	3.437	1.000	1.500	2.000	2.500	3.000
1"1/8 - 7	1.768	2.330	2.893	3.455	4.018	1.625	2.187	2.750	3.312	3.875	1.125	1.687	2.250	2.812	3.375
1"1/4 - 7	1.893	2.518	3.143	3.768	4.393	1.750	2.375	3.000	3.625	4.250	1.250	1.875	2.500	3.125	3.750
1"1/2 - 6	2.250	3.000	3.750	4.500	5.250	2.083	2.833	3.583	4.333	5.083	1.500	2.250	3.000	3.750	4.500
<b>G(BSP)</b>															
1/8 - 28	.286	.348	.411	.473	.536	.250	.312	.375	.437	.500	.125	.187	.250	.312	.375
1/4 - 19	.487	.612	.737	.862	.987	.434	.559	.684	.809	.934	.250	.375	.500	.625	.750
3/8 - 19	.612	.799	.987	1.174	1.362	.559	.747	.934	1.122	1.309	.375	.562	.750	.937	1.125
1/2 - 14	.821	1.071	1.321	1.571	1.821	.750	1.000	1.250	1.500	1.750	.500	.750	1.000	1.250	1.500
5/8 - 14	.946	1.258	1.571	1.883	2.196	.875	1.187	1.500	1.812	2.125	.625	.937	1.250	1.562	1.875
3/4 - 14	1.071	1.446	1.821	2.196	2.571	1.000	1.375	1.750	2.125	2.500	.750	1.125	1.500	1.875	2.250
7/8 - 14	1.196	1.634	2.071	2.509	2.946	1.125	1.562	2.000	2.437	2.875	.875	1.312	1.750	2.187	2.625
1" - 11	1.409	1.909	2.409	2.909	3.409	1.318	1.818	2.318	2.818	3.318	1.000	1.500	2.000	2.500	3.000
1"1/4 - 11	1.660	2.284	2.909	3.534	4.159	1.568	2.193	2.818	3.443	4.068	1.250	1.875	2.500	3.125	3.750
1"1/2 - 11	1.909	2.659	3.409	4.159	4.909	1.818	2.568	3.318	4.068	4.818	1.500	2.250	3.000	3.750	4.500

**SEGHE CIRCOLARI PER METALLI IN ACCIAIO SUPER RAPIDO HSS**
**Tabella N. 46**

MATERIALE DA TAGLIARE	DENTATURA GROSSA				DENTATURA FINE			
	Taglio pesante		Taglio medio		Taglio medio		Taglio leggero	
	V	A	V	A	V	A	V	A
Acciai fino R. 45 kg. mm <sup>2</sup>	35	40	40	45	45	50	50	100
Acciai fino R. 75 kg. mm <sup>2</sup>	30	35	30	40	40	50	45	80
Acciai fino R. 105 kg. mm <sup>2</sup>	20	25	20	30	30	40	40	50
Ghisa normale e malleabile	20-30	30-40	40	100	35	50	40	100
Acciaio inossidabile	7	20	12	25	10	20	20	40
Ottone duro - Bronzo - Rame	100	250	100	250	200	400	250	400
Ottone dolce - Duralluminio	200	500	200	500	400	800	500	800
Metalli leggeri	400	1000	800	1500	—	—	—	—
Materie plastiche e sintetiche	600-1500	1000	1000-2000	1500	—	—	—	—

NOTE: Si raccomanda di aumentare o diminuire la velocità di taglio secondo la natura del materiale, lo spessore da tagliare, lo spessore della lama e l'efficienza della macchina.

**SEGHE A NASTRO BIMETALLICHE**
**Tabella N. 47/a**

caratteristiche e parametri delle seghe a nastro in riferimento ai vari materiali

Materiale	N.	denominazione DIN	durezza Brinell HB	spessore mm	numero denti p. poll. = 25,4 mm	velocità di taglio m/min	rendimento M42 cm <sup>2</sup> /min	refrigeranti-lubrificanti		
								olio emuls.	olio da taglio	lubrif. non grasso
<b>Acciaio da costruzione</b>	1.0204	UQSt 36-2	150-175	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4-3	76 84 85 76	52,0-64,5 58,0-77,5 77,5-97,0 58,0-77,5	1:20	x	
	1.0306	USt 34-7	150-175	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4-3	76 84 85 76	52,0-64,5 58,0-77,5 77,5-97,0 58,0-77,5	1:20	x	
<b>Acciaio automatico</b>	1.0711- 1.0712	9S 20	125-150	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4-3	91 100 84 67	52,0-71,0 71,0-84,0 77,5-97,0 77,5-97,0	1:10	x	
	1.0501	C 35	160-175	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4-3	76 84 76 70	52,0-65,0 58,0-77,5 77,5-97,0 58,0-77,5	1:20		x
	1.1146	30 MN 4	160-180	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4-3	61 61 53 46	32,0-45,0 32,0-45,0 52,0-65,0 39,0-52,0	1:20		x
	1.1221	Ck 60	160-180	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4-3	61 61 53 46	32,0-45,0 32,0-45,0 52,0-65,0 39,0-52,0	1:20		x
<b>Acciaio per molle</b>	1.0904 1.0906	55 Si 7 65 Si 7	150-180	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4-3	61 55 55 46	13,0-27,0 19,0-32,0 19,0-32,0 19,0-32,0	1:30		x
	1.0961	60 SiCr 7	200-230	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4-3	61 49 55 46	6,0-19,0 13,0-19,0 13,0-27,0 13,0-19,0	1:30		x
<b>Filo di acciaio per molle</b>	1.1230	17223	180-205	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4-3	61 61 46 37	27,0-39,0 32,0-45,0 39,0-52,0 39,0-52,0	1:30		x
	<b>Acciaio per molle</b>	1.1274	Ck 101	180-205	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4-3	61 61 46 37	27,0-39,0 32,0-45,0 39,0-52,0 39,0-52,0	1:30	
<b>Acciaio per utensili per lavorazione a freddo</b>	1.2080	x 210 Cr 12	217-241	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4	34 30 27 24	6,0-13,0 6,0-13,0 6,0-13,0 6,0-13,0	1:30		x
	1.2303	100 CrMo 5	180-230	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4	61 55 46 30	13,0-27,0 19,0-32,0 19,0-32,0 13,0-27,0	1:30		x
<b>Acciaio per utensili per lavorazione a caldo</b>	1.2344	x 40 CrMoV 51	205-228	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4	46 38 38 38	13,0-27,0 19,0-32,0 13,0-19,0 13,0-27,0	1:20	x	
	<b>Acciaio per utensili per lavorazione a freddo</b>	1.2363	x100 CrMoV51	217-241	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4	64 61 58 55	13,0-19,0 19,0-27,0 19,0-27,0 13,0-19,0	1:20	x
	1.2379	x155 CrVMo 121	217-241	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4	34 30 27 24	6,0-13,0 6,0-13,0 6,0-13,0 6,0-13,0	1:30	x	

**SEGHE A NASTRO BIMETALLICHE**
**Tabella N. 47/b**

caratteristiche e parametri delle seghe a nastro in riferimento ai vari materiali

Materiale	N.	denominazione DIN	durezza Brinell HB	spessore mm	numero denti p. poll. = 25,4 mm	velocità di taglio m/min	rendimento M42 cm <sup>2</sup> /min	refrigeranti-lubrificanti		
								olio emuls.	olio da taglio	lubrif. non grasso
<b>Acciaio per utensili per lavorazione a freddo</b>	1.2510	100 MnCrW 4	187-207	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4	73 64 58 52	19,0-27,0 27,0-32,0 32,0-39,0 27,0-32,0	1:20		x
	1.2542	45 WCrV 7	177-212	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4	67 55 50 46	13,0-27,0 19,0-32,0 19,0-32,0 13,0-27,0	1:20		x
<b>Acciaio per utensili per lavorazione a caldo</b>	1.2581	x 30 WCrV 93	205-228	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4	46 38 38 38	13,0-27,0 19,0-32,0 13,0-19,0 13,0-27,0	1:20		x
	1.2606	x 37 CrMoW51	205-228	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4	46 38 38 38	13,0-27,0 19,0-32,0 13,0-19,0 13,0-27,0	1:20		x
<b>Acciaio per utensili per lavorazione a freddo</b>	1.2714	56 NiCrMOV 7	190-230	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4	61 55 52 46	13,0-27,0 19,0-32,0 19,0-32,0 13,0-27,0	1:30		x
	1.2842	90 MnV 8	187-207	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4	73 64 58 52	19,0-27,0 27,0-32,0 32,0-39,0 27,0-32,0	1:30		x
<b>Acciaio rapido HSS</b>	1.3202	S 12-1-4-5	228-255	fino a 25 25-70 70-150 oltre 150	10-8 10-8 6-4 4	24 24 21 15	6,0 6,0 6,0 6,0	1:30		x
	1.3251	S 12-1-2-5	220-293	fino a 25 25-70 70-150 oltre 150	10-8 10-8 6-4 4	34 30 24 21	6,0-13,0 6,0-13,0 6,0-13,0 6,0-13,0	1:30		x
	1.3255	S 18-1-2-5	235-255	fino a 25 25-70 70-150 oltre 150	10-8 10-8 6-4 4-3	34 30 27 24	6,0-13,0 6,0-13,0 13,0-19,0 6,0-13,0	1:30		x
	1.3265	S 18-1-2-10	235-255	fino a 25 25-70 70-150 oltre 150	10-8 10-8 6-4 4-3	34 30 27 24	6,0-13,0 6,0-13,0 13,0-19,0 6,0-13,0	1:30		x
	1.3343	S 6-5-2	217-241	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4	37 34 30 24	6,0-13,0 13,0-19,0 19,0-27,0 13,0-19,0	1:30		x
	1.3344	S 6-5-3	217-241	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4	37 34 30 24	6,0-13,0 13,0-19,0 19,0-27,0 13,0-19,0	1:30		x
	1.3345	S 0-8-2	217-228	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4	30 27 24 18	6,0-13,0 6,0-13,0 6,0-19,0 6,0-13,0	1:30		x
	1.3346	S 2-9-1	217-228	fino a 25 25-70 70-150 oltre 150	10-8 8-6 6-4 4	46 43 40 34	6,0-19,0 13,0-27,0 19,0-32,0 13,0-27,0	1:30		x
	1.3355	S 18-0-1	217-248	fino a 25 25-70 70-150 oltre 150	10-8 10-8 6-4 4-3	40 34 30 27	6,0-13,0 13,0-19,0 13,0-27,0 13,0-27,0	1:30		x

**SEGHE A NASTRO BIMETALLICHE**
**Tabella N. 47/c**

caratteristiche e parametri delle seghe a nastro in riferimento ai vari materiali

Materiale	N.	denominazione  DIN	durezza Brinell  HB	spessore  mm	numero denti p. poll. = 25,4 mm	velocità di taglio  m/min	rendimento M42  cm <sup>2</sup> /min	refrigeranti-lubrificanti		
								olio emuls.	olio da taglio	lubrif. non grasso
<b>Acciaio HSS</b>	1.3357	S 18-0-2	217-248	fino a 25	10-8	40	6,0-13,0	1:30		x
				25-70	10-8	34	13,0-19,0			
				70-150	6-4	30	13,0-27,0			
				oltre 150	4-3	27	13,0-27,0			
<b>Acciaio per cuscinetti a sfere</b>	1.3501	105 Cr 2	210-230	fino a 25	10-8	55	13,0-27,0	1:30		x
				25-70	8-6	49	19,0-32,0			
				70-150	6-4	46	27,0-39,0			
				oltre 150	4-3	30	19,0-32,0			
	1.3505	100 Cr 6	210-230	fino a 25	10-8	55	13,0-27,0	1:30		x
			25-70	8-6	49	19,0-32,0				
			70-150	6-4	46	27,0-39,0				
			oltre 150	4-3	30	27,0-39,0				
<b>Acciaio inossidabile</b>	1.4005	x12 CrS 13	155-195	fino a 25	10-8	61	19,0-32,0	1:10		x
				25-70	8-6	55	27,0-39,0			
				70-150	6-4	52	32,0-45,0			
				oltre 150	4-3	46	27,0-39,0			
	1.4006	x 10 Cr 13	140-185	fino a 25	10-8	46	6,0-19,0	1:10		x
			25-70	8-6	40	6,0-19,0				
			70-150	6-4	37	13,0-27,0				
			oltre 150	4-3	30	6,0-19,0				
	1.4016	x 8 Cr 17	170-215	fino a 25	10-8	30	6,0-19,0	1:10		x
			25-70	8-6	27	13,0-27,0				
			70-150	6-4	24	13,0-27,0				
			oltre 150	4-3	24	6,0-19,0				
	1.4021	x 20 Cr 13	140-185	fino a 25	10-8	46	6,0-19,0	1:10		x
			25-70	8-6	40	6,0-19,0				
			70-160	6-4	37	13,0-27,0				
			oltre 150	4-3	30	6,0-19,0				
	1.4104	x 12 CrMoS 17	155-195	fino a 25	10-8	61	19,0-32,0	1:10		x
			25-70	8-6	55	27,0-39,0				
			70-150	6-4	52	32,0-45,0				
			oltre 150	4-3	46	27,0-39,0				
	1.4112	x 90 CrMoV 18	160-190	fino a 25	10-8	37	6,0-19,0	1:10		x
			25-70	8-6	34	6,0-19,0				
			70-150	6-4	27	13,0-27,0				
			oltre 150	4-3	21	6,0-19,0				
	1.4125	x 105 CrMo 17	160-190	fino a 25	10-8	37	6,0-19,0	1:10		x
			25-70	8-6	34	6,0-19,0				
			70-150	6-4	27	13,0-27,0				
			oltre 150	4-3	21	6,0-19,0				
	1.4300	x 12 CrNi 188	140-190	fino a 25	10-8	37	13,0-27,0	1:10		x
			25-70	8-6	30	13,0-27,0				
			70-150	6-4	30	13,0-27,0				
			oltre 150	4	30	6,0-19,0				
	1.4301	x 5 CrNi 189	130-170	fino a 25	10-8	37	13,0-27,0	1:10		x
			25-70	8-6	30	13,0-27,0				
			70-150	6-4	30	13,0-27,0				
			oltre 150	4	30	6,0-19,0				
	1.4305	x 12 CrNiS 188	150-200	fino a 25	10-8	43	13,0-27,0	1:10		x
			25-70	8-6	37	13,0-27,0				
			70-150	6-4	30	19,0-32,0				
			oltre 150	4-3	30	13,0-27,0				
	1.4371	x 8 CrMnNi 189		fino a 25	10-8	37	13,0-27,0	1:10		x
				25-70	8-6	30	13,0-27,0			
				70-150	6-4	30	13,0-27,0			
				oltre 150	4	30	6,0-19,0			
	1.4401	x 5 CrNiMo 18 10	160-220	fino a 25	10-8	27	6,0	1:10		x
				25-70	8-6	24	6,0			
				70-150	6-4	21	13,0			
				oltre 150	4-3	18	6,0			

**INCONVENIENTI CHE SI POSSONO VERIFICARE NELL'USO DELLA SEGA A NASTRO**
**Tabella N. 48**

Difetti riscontrati	Cause probabili	Eventuali correzioni
Rottura dei denti in generale o strappi alla base dei denti	<ul style="list-style-type: none"> <li>- Carico eccessivo</li> <li>- Errata scelta della dentatura</li> <li>- Velocità troppo alta o troppo bassa</li> <li>- Imperfetto fissaggio oppure vibrazione del pezzo da segare</li> <li>- Gioco nelle guide</li> <li>- Inizio di taglio sullo spigolo</li> </ul>	<ul style="list-style-type: none"> <li>- Ridurre la pressione</li> <li>- Usare la dentatura più appropriata</li> <li>- Regolare la velocità</li> <li>- Fissare rigidamente il pezzo da segare</li> <li>- Controllare e rettificare gioco guide</li> <li>- Iniziare possibilmente il taglio sul piano del pezzo oppure diminuire la pressione</li> </ul>
I denti si logorano facilmente	<ul style="list-style-type: none"> <li>- La sega scivola sopra il pezzo da segare</li> <li>- Velocità di taglio troppo alta</li> <li>- Raffreddamento insufficiente e non adeguato</li> </ul>	<ul style="list-style-type: none"> <li>- Aumentare la pressione o usare una dentatura più adatta</li> <li>- Diminuire la velocità</li> <li>- Controllare qualità e flusso del lubrificante</li> </ul>
Rottura della sega Rottura sulla saldatura del nastro sega	<ul style="list-style-type: none"> <li>- Tensione del nastro troppo forte o troppo debole</li> <li>- Guide montate male, non parallele</li> <li>- Gioco nelle guide</li> <li>- Saldatura difettosa o troppo rigida</li> </ul>	<ul style="list-style-type: none"> <li>- Controllare e regolare la tensione del nastro</li> <li>- Aggiustare e regolare le guide</li> <li>- Controllare la saldatura del nastro</li> </ul>
Tracce di usura sul dorso della sega	<ul style="list-style-type: none"> <li>- Pressione eccessiva</li> <li>- Uno solo dei bordi delle guide è in contatto con la lama</li> <li>- I rulli delle guide non scorrono bene</li> </ul>	<ul style="list-style-type: none"> <li>- Ridurre la pressione</li> <li>- Aggiustare i bordi delle guide a contatto con il dorso della lama</li> <li>- Lubrificare o sostituire i rulli</li> </ul>
Tracce di usura su un solo lato della sega	<ul style="list-style-type: none"> <li>- Una sola guida laterale è in contatto con la lama</li> </ul>	<ul style="list-style-type: none"> <li>- Registrare e regolare le guide</li> </ul>
La sega taglia storto	<ul style="list-style-type: none"> <li>- Sovraccarico</li> <li>- Guide troppo distanziate, oppure una o tutte e due sono fuori squadra</li> <li>- Tensione insufficiente della lama</li> <li>- Dentatura danneggiata dai rulli guida</li> </ul>	<ul style="list-style-type: none"> <li>- Ridurre la pressione</li> <li>- Avvicinare e squadrare le guide</li> <li>- Aumentare la tensione della lama</li> <li>- Montare un nastro più largo, o sostituire le guide di plastica</li> </ul>

**VELOCITA' DI TAGLIO E AVANZAMENTO PER LA TORNITURA CON UTENSILI IN ACCIAIO SUPER RAPIDO E CON METALLO DURO - TIPO DI LUBRIFICAZIONE.**
**Tabella N. 49**

MATERIALI DA TORNIRE	R kg mm <sup>2</sup>	ACCIAIO SUPER RAPIDO		Designazione - ISO - qualità METALDURO						Tipo di LUBRIFICANTE Consigliabile								
		Sgross.	Finire	Avanzamenti mm per giro				Sgross.	Finire		Sgross.	Finire						
				P 10		P 20 - P 30							P 40		K 20		K 10	
				0,7-0,3-0,1	1,2-0,3-0,15													
VELOCITÀ IN METRI AL MINUTO PRIMO																		
Acciaio al carbonio	50 ÷ 70	30	60	100-180-250	50-80-120	30-50	—	—	—	—	Olio da taglio o Emulsione							
Acciaio legato bonificato	80 ÷ 110	25	35	50 - 80 -120	30-40-60	—	—	—	—	Olio da taglio								
Acciaio inossidabile	50 ÷ 85	25	45	— — —	50-80-100	30-60	—	—	—	Olio da taglio o di Trementina								
Acciaio fuso	50	25	35	100-115-140	40-60-100	25-40	60	—	—	Olio da taglio o Emulsione								
Ghisa grigia e dura	20 ÷ 27	20	35	— — —	— — —	—	45	80	100	120	Olio da taglio o aria compressa o Petrolio							
Ghisa malleabile	40 ÷ 70	—	—	— — —	— — —	—	250	—	45	65	Olio da taglio o Emulsione							
Ottone e bronzo	—	50	70	— — —	— — —	—	400	400	—	—	Senza lubrificante oppure Emulsione							
Alluminio e leghe	—	60	130	— — —	— — —	—	80	200	—	—	Olio o Petrolio							
Materie plastiche	—	15	20	— — —	— — —	—	80	150	—	—	Asciutto o aria compressa							

Note: — La serie ISO «P» riguarda gli acciai. La serie ISO «K» riguarda le ghise.

— Per utensili con placchette in METALDURO con fissaggio meccanico, le velocità possono essere aumentate del 15%.

— I lubrificanti indicati, vanno scelti o miscelati in rapporto alla durezza e tenacità del materiale da lavorare.



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