



**padre**<sup>®</sup>

Germany



**Der Katalog**

The Catalog / Le Catalogue / El Catálogo





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**Sehr geehrter Geschäftspartner,  
sehr geehrter Kunde,**

**Qualität schafft Vertrauen!**

Anspruchsvolle Anwendungen verlangen unseren Werkzeugen täglich Höchstleistungen im harten Arbeitsalltag ab, damit professionelle Ergebnisse erzielt werden können.

**padre<sup>®</sup>-Werkzeuge begleiten Sie bei allen Anwendungen**

Der padre<sup>®</sup>-Katalog 2014 ist komplett neu gestaltet und beinhaltet eine große Anzahl neuer innovativer Werkzeuge.

Gerade im Bereich der Elektromeißel SDS Plus und SDS Max haben wir unser Herstellungsprogramm beachtlich ausgebaut um Ihnen eine größere Vielfalt zu bieten. So können Ihre Arbeiten optimiert werden.

Weiterhin sind wir den ständig wachsenden Anforderungen im Bereich Sicherheitswerkzeuge nach EN 60900 (bei Arbeiten unter Spannung) und im Bereich Drehmomentschlüssel nachgekommen.

Auch hier haben wir unser Programm stark erweitert, damit wir ein professioneller Partner für Ihr Unternehmen bleiben.

**Alles aus einer Hand – ein weiterer Grund sich für padre<sup>®</sup> zu entscheiden.**

Wir freuen uns auf eine gute und erfolgreiche Zusammenarbeit!

Martin Dreiner  
Geschäftsführer

**Dear business partner,  
dear customer,**

**Quality creates confidence!**

High-tech applications are daily demanding highest performances of our tools in a hard day's work so that professional results can be achieved.

**padre<sup>®</sup>-Tools accompany you at all applications.**

The padre<sup>®</sup>-Katalog 2014 has been completely new designed and is containing a large number of new innovative tools.

Especially in the range of electric chisels SDS Plus and SDS Max we have considerably expanded our manufacturing programme to offer you a greater diversity. So your work can be optimized.

Furthermore we have met the continuously rising requirements in the range of safety tools according to EN 60900 (when working under voltage) and in the range of torque wrenches.

Here we have also greatly expanded our programme so that we will remain a professional partner for your company.

**Everything from one source – a further reason to decide for padre<sup>®</sup>.**

Looking forward to a good and successful cooperation.

Martin Dreiner  
Geschäftsführer

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**padre<sup>®</sup> - Qualität aus Deutschland!**

Am Standort Wermelskirchen produzieren wir unsere Qualitätswerkzeuge "MADE IN GERMANY", welche die höchsten sicherheitstechnischen maximalen Normen nach DIN und ISO 9002 in Ausführung als auch Qualität erfüllen. Details haben wir in unserem Qualitätshandbuch zusammengefasst. Unser gesamtes Werkzeugsortiment unterliegt hohen Qualitätskontrollen, wodurch wir unsere spezielle Garantieseite treffen, dass jedes Werkzeug ersetzt wird, das Material- und/oder Fertigungsfehler aufweist!

Aufgrund von Prüfzertifikaten sowie von Bundeswehrzertifikaten können wir unsere hohe technische Innovationskraft auch schriftlich beweisen. Die Spitzenqualität in Verarbeitung und Aufmachung wird durch die Verwendung von speziellen, soliden und deutschen Chrom-Vanadiumstählen ausgewählter Chargen gewährleistet, wobei optimale Wärmebehandlungen beste Verschleißigenschaften von unseren Werkzeugen garantieren. Unsere 1000 Volt Sicherheitsisoliations-Werkzeuge entsprechen vollständig den VDE-Richtlinien und der Norm EN 60900. Dies ist unsere Gewährleistung für das Bedürfnis nach Sicherheit für Arbeiten unter Spannung bzw. Spannungsnähe!

**padre<sup>®</sup> - une garantie de qualité venant de Allemagne!**

C'est dans Wermelskirchen que nous produisons notre outils de haut qualité "MADE IN GERMANY", que répondre à les plus haut normes de DIN et ISO 9002 en conception et qualité.

Nôtre assortiment d'outils entier succomber à haut contrôles de qualité, par quoi nous avons nôtre déclaration de garantie spécial, que chaque outils seront remplacer, qui montrent fautes en le matériaux ou en la production. En raison de certificats de examination et de l'armée allemande, nous pouvons prouver nôtre innovation technique.

La haut qualité aux niveaux de fabrication et présentation, basée sur des charges prévues pour des aciers au chrome vanadium, à quoi un traitement thermique optimal garantit des propriétés idéales d'usure. Notre outils isolée de sécurité de 1000 Volt correspondre à les directives de VDE et de Normes EN 60900. Cette est nôtre garantie pour le besoin à sécurité pour travail sous tension.

**Wir fertigen analog zur DIN/ISO 9002.**

**We manufacture analogous DIN/ISO 9002.**

**Nous fabriquons analogue DIN/ISO 9002.**

**Nosotros producimos análogo para la DIN/ISO 9002.**

**padre<sup>®</sup> - the quality brands from Germany!**

In Wermelskirchen we are manufacturing our quality tools "MADE IN GERMANY" which meets the highest safety requirements and the maximum standards of any requests for DIN and ISO 9002 in design und quality. All details we have written in our quality hand book according to the ISO. Our complete tool assortment is under strictly permanent quality control. This enables us to offer our special guarantee where we promise to exchange each faulty tool from us which shows material or productions mistakes.

Due to the "tested safety" seal as well as from special tested certificates from the German army we can demonstrate our high technological innovation. The TOP quality in workmanship and design will be guaranteed by our use of only special solidity German chrome-vanadium steels from selected batches. Optimal heat treatment ensure the maximal resistance of wear and treat from all tools. Our 1000 Volt safeguarding isolation tools are further more complete according to the VDE and to the EN 60900 recommendations. The tools are fully marked with the signs. This is our warranty for the needs for security during working operations under voltage or in voltage nearness!

**padre<sup>®</sup> - una garantía de calidad venida de Alemania!**

Aquí en Wermelskirchen producimos nuestras herramientas de calidad "MADE IN GERMANY", cual corresponden a las más altas Normas de DIN y ISO 9002 en la presentación y la calidad. Los detalles tenemos resumidos en nuestro libro de calidad. Nuestro surtido de herramientas íntegro tienen de pasar por un control de calidad, por lo cual nosotros tomamos la afirmación de la garantía especial, que cada herramienta es reemplazada, si muestra defectos en el material o en la producción.

A causa de certificados de comprabación, así como por la armada de la República Federal alemá, nosotros podemos probar nuestra innovación en la técnica. La calidad excelente en un nivel de fabricación y presentación, producido de acero de cromo vanadium, por lo cual un tratamiento térmico especial garantiza atributos de deterioro ideales. Nuestra herramienta aislada de 1000 Volt corresponde completo a las normas de VDE y de EN 60900. Esto es nuestra garantía para la necesidad de seguridad para trabajo debajo de tensión.



padre

WERKZEUGSORTIMENTE  
TOOL ASSORTMENT

01

### Profi Werkstattwagen blau

Profi Tool Trolley blue / Voiture atelier professionnel bleu  
Carro de herramientas Profi



| No.    | mm                          |  |  |
|--------|-----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1732 B | 880 x 760 x 410 (H x B x T) | 46000                                                                               | 1                                                                                   |

### Profi Werkstattwagen rot mit 8 Schubladen

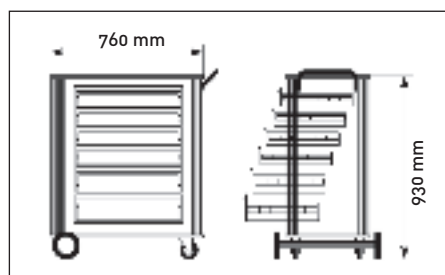
Profi Tool Trolley red with 8 drawers  
Voiture atelier professionnel rouge  
Carro de herramientas Profi



| No.  | mm                          |  |  |
|------|-----------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1737 | 470 x 670 x 810 (H x B x T) | 70000                                                                                 | 1                                                                                     |

### Profi Werkstattwagen blau mit Dokumentenfach und Kabeltrommel, 6 Schubladen

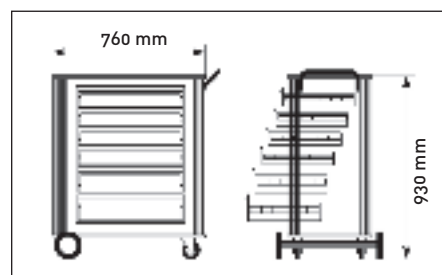
Profi Tool Trolley blue with 6 drawers / Voiture atelier professionnel bleu / Carro de herramientas Profi



| No.     | mm                          |  |  |
|---------|-----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1732 KB | 930 x 760 x 410 (H x B x T) | 60000                                                                               | 1                                                                                   |

### Profi Werkstattwagen blau mit Dokumentenfach und Kabeltrommel, 6 Schubladen

Profi Tool Trolley blue with 6 drawers / Voiture atelier professionnel bleu / Carro de herramientas Profi



| No.  | mm                          |  |  |
|------|-----------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1738 | 930 x 760 x 450 (H x B x T) | 63000                                                                                 | 1                                                                                     |



## Werkzeugmodule aus PE-Hartschaum

### Tool modules from hard foam insert

### Coffrets d'outil de polyéthylène

### Maletas de herramientas del polietileno

#### Modul Torx, lange 1/2", 6-kant Steckschlüssel, Krafteinsätze, Gabelringschlüssel mit Ratschenfunktion

Module Torx, long 1/2", 6-point, socket impact, combination wrench with ratchet function



550 x 350 mm  
27-tlg.

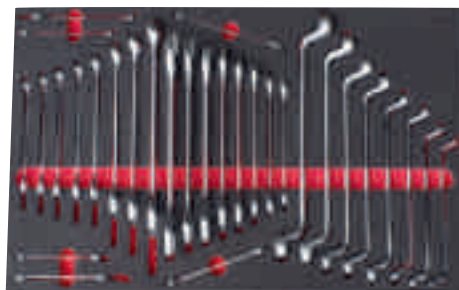
| No.  | Inhalt Nr. | Größe mm                      |  |
|------|------------|-------------------------------|-----------------------------------------------------------------------------------|
| 1743 | 761        | T9-T10-T15-T27-T30-T40-T50    | 2900                                                                              |
|      | 813        | 10-13-17-19                   |                                                                                   |
|      | 942        | 10-11-12-13-14-15-16-17-18-19 |                                                                                   |
|      | 1050       | 13-17-18-19-24                |                                                                                   |

#### Doppel-Maul-Ring-Gabelringschlüssel Industrieausführung, matt verchromt

Double-ended open-ring-combination jawed spanners matt chrome plated

Clés plates doubles à ouvertures inégales

Llaves fijas, bocas abiertas industrial, cromada mate



550 x 350 mm  
30-tlg.

| No.  | Inhalt Nr. | Größe mm                        |  |
|------|------------|---------------------------------|-------------------------------------------------------------------------------------|
| 1745 | 800 CI     | 6x7-8x9-10x11-12x13-14x15       | 3600                                                                                |
|      |            | 16x17-18x19-20x22-21x23         |                                                                                     |
|      |            | 24x27mm                         |                                                                                     |
|      | 802 CI     | 6x7-8x9-10x11-12x13-14x15       |                                                                                     |
|      | 811 CI     | 16x17-18x19-20x22mm             |                                                                                     |
|      |            | 6-7-8-9-10-11-12-13-14-17-19-22 |                                                                                     |

#### Steckschlüsselgarnitur 1/2", 6-kant

Socket wrench set 1/2", 6-point / Jeux de douilles 1/2", 6-point  
Juego vasos 1/2", 6-punto

DIN 3122-3123-3124, Chrom Vanadium Stahl 31 CrV3, W.-No. 1.2208



550 x 350 mm  
82-tlg.

| No.  | Inhalt Nr. | Größe mm                      |  |
|------|------------|-------------------------------|-------------------------------------------------------------------------------------|
| 1744 | 644        | F Bit Box                     | 5900                                                                                |
|      | 727        | CV- 1,5-10 mm                 |                                                                                     |
|      | 811        | 16-18 mm                      |                                                                                     |
|      | 941        | 10-11-12-13-14-15-16-17-18    |                                                                                     |
|      |            | 19-20-21-22-23-24-25-27-30-32 |                                                                                     |
|      | 955        |                               |                                                                                     |
|      | 960        | 125-250mm                     |                                                                                     |
|      | 950 H      |                               |                                                                                     |
|      | 946        |                               |                                                                                     |
|      | 967        | 4-5-6-7-8-10-12x53 mm         |                                                                                     |
|      | 969        | T20-T25-T27-T30-T40-T45-T50   |                                                                                     |
|      |            | T55-T60                       |                                                                                     |

#### Modul Zangen

Modul pliers / Modul pinces / Modul alicates

DIN ISO 5745-5746-5749-8976C



550 x 350 mm  
10-tlg.

| No.  | Inhalt Nr. | Größe mm |  |
|------|------------|----------|---------------------------------------------------------------------------------------|
| 1746 | 833        | 250      | 2750                                                                                  |
|      | 1201       | 180      |                                                                                       |
|      | 1206       | 160      |                                                                                       |
|      | 1226       | 160      |                                                                                       |
|      | 1258       | 240      |                                                                                       |
|      | 1300       | 250      |                                                                                       |
|      | 1245       | 180      |                                                                                       |
|      | 1246       | 180      |                                                                                       |
|      | 1247       | 180      |                                                                                       |
|      | 1248       | 165      |                                                                                       |



**Modul Steckschlüssel, Sechskant Winkelschraubendreher, Bitbox, Magnetsucher, Drahtbürste, Reifenheber**

Module socket wrench, hexagen key, wrench bitbox, magnetic tester, wire brush, tyrelever



550 x 350 mm  
51-tlg.

| No.  | Inhalt Nr. | Größe mm        | g    |
|------|------------|-----------------|------|
| 1747 | 200        | 6-7-8-9-10-13mm | 2500 |
|      | 49         | 25x6mm          |      |
|      | 50         | 2x25mm          |      |
|      | 617        |                 |      |
|      | 729        | 2 - 10 mm       |      |
|      | 659        | Bit Box         |      |
|      | 865        | 400 mm          |      |
|      | 1375       | 1000 g          |      |
|      | 1390       | 4               |      |

**Modul Steckschlüssel, Innensechskant mm-AF, Bitbox, Zangen**

Module socket wrench, hexagen key-mm-AF, Bitbox, pliers

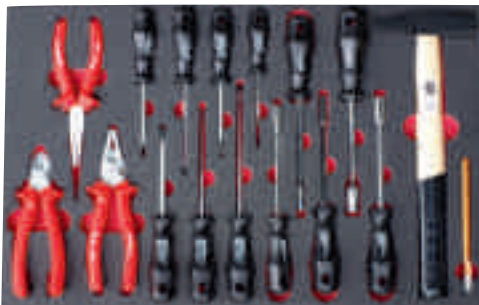


550 x 350 mm  
80-tlg.

| No.  | Inhalt Nr. | Größe mm                                                 | g    |
|------|------------|----------------------------------------------------------|------|
| 1749 | 727        | 1,5-10 mm                                                | 6400 |
|      | 729 AF     | 729 AF 5/64"-3/8"                                        |      |
|      | 644 F      | 644 F                                                    |      |
|      | 941        | 10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-27-30-32 |      |
|      | 943        | 16 mm                                                    |      |
|      | 955        | 955                                                      |      |
|      | 946        | 946                                                      |      |
|      | 960        | 125-250 mm                                               |      |
|      | 950 H      | 950 H                                                    |      |
|      | 955        | 955                                                      |      |
|      | 942        | 10-13-16-17-18-19                                        |      |
|      | 1258       | 240 mm                                                   |      |
|      | 1300       | 250 mm                                                   |      |
|      | 905        |                                                          |      |

**Modul Schraubendreher, Steckschlüssel, Zangen, Hammer, Meißel**

Module screwdriver, socket wrench, plier, hammer, chisel



550 x 350 mm  
17-tlg.

| No.  | Inhalt Nr. | Größe mm                   | g    |
|------|------------|----------------------------|------|
| 1748 | 42         | 75x4-100x5-125x5,5-150x6,5 | 2550 |
|      | 43         | PH 0x60-PH1x80-PH2x100     |      |
|      | 200        | 6-7-8-10-13 mm             |      |
|      | 535        | 500                        |      |
|      | 1201       | 180mm                      |      |
|      | 1206       | 160mm                      |      |
|      | 1226       | 160mm                      |      |
|      | 3070       | 150 mm                     |      |



## Werkzeugmodule aus PE-Hartschaum Tool modules from hard foam insert Coffrets d'outil de polyéthylène Maletas de herramientas del polietileno

### Doppel-Maulschlüssel

#### Industrierausführung, matt verchromt

Double-ended open jawed spanners matt chrome plated

Clés plates doubles à ouvertures inégales

Llaves fijas, bocas abiertas industrial, cromada mate

DIN 3110

Chrom Vanadium Stahl 31 CrV3

W.-No. 1.2208 verchromt



420 x 190 mm  
8-tlg.

| No.  | Inhalt Nr. | Größe mm                                       |     |   |
|------|------------|------------------------------------------------|-----|---|
| 1700 | 800 Cl     | 6x7-8x9-10x11-12x13<br>14x15-16x17-18x19-20x22 | 810 | 1 |

### Doppel-Ringschlüssel

#### Industrierausführung, matt verchromt

Cranked double-ended ring spanners, matt chrome plated

Clés à oeil multiplan coudées doubles, chromée mat

Llaves acodadas estrella cerradas industrial, cromada mate

DIN 838

Chrom Vanadium Stahl 31 CrV3

W.-No. 1.2208 verchromt



420 x 190 mm  
8-tlg.

| No.  | Inhalt Nr. | Größe mm                                       |      |   |
|------|------------|------------------------------------------------|------|---|
| 1701 | 802 Cl     | 6x7-8x9-10x11-12x13<br>14x15-16x17-18x19-20x22 | 1250 | 1 |

### Ring-Maulschlüssel, lange Version

Combination wrenches, long version / Clés mixte, version long  
Llave combinadas, tipo largo

DIN 3113 Form B

Chrom Vanadium Stahl 31 CrV3

W.-No. 1.2208 verchromt



420 x 190 mm  
17-tlg.

| No.  | Inhalt Nr. | Größe mm                                          |      |   |
|------|------------|---------------------------------------------------|------|---|
| 1702 | 810 Cl     | 6-7-8-9-10-11-12-13-14<br>15-16-17-18-19-20-21-22 | 1800 | 1 |

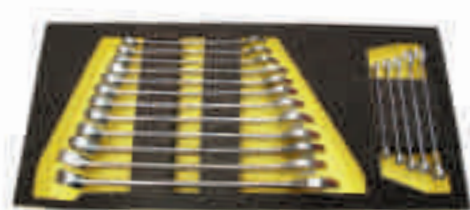
### Ring-Maulschlüssel

Combination wrenches / Clés mixte / Llave combinadas

DIN 3113 Form A

Chrom Vanadium Stahl 31 CrV3

W.-No. 1.2208 verchromt



420 x 190 mm  
17-tlg.

| No.  | Inhalt Nr. | Größe mm                                          |      |   |
|------|------------|---------------------------------------------------|------|---|
| 1703 | 811 Cl     | 6-7-8-9-10-11-12-13-14<br>15-16-17-18-19-20-21-22 | 1900 | 1 |

### Ring-Maulschlüssel

Combination wrenches / Clés mixte / Llave combinadas

DIN 3113 Form A

Chrom Vanadium Stahl 31 CrV3

W.-No. 1.2208 verchromt



420 x 190 mm  
4-tlg.

| No.  | Inhalt Nr. | Größe mm    |      |   |
|------|------------|-------------|------|---|
| 1704 | 811 Cl     | 24-27-30-32 | 1900 | 1 |



## Ring-Maulschlüssel

Combination wrenches / Clés mixte / Llave combinadas

DIN 3113 Form A

Chrom Vanadium Stahl 31 CrV3

W.-No. 1.2208 verchromt



420 x 190 mm  
8-tlg.

| No.  | Inhalt Nr. | Größe mm               |     |   |
|------|------------|------------------------|-----|---|
| 1705 | 811 Cl     | 8-10-12-13-14-17-19-22 | 840 | 1 |

## Gabelringschlüssel mit Ratschenfunktion und Adapter

Combination wrench with ratchet function + adapter

Clés mixte à cliquet + adaptateur / Llaves combinadas + adaptor

DIN 3113 Form A

Chrom Vanadium Stahl 31 CrV3

W.-No. 1.2208 verchromt



420 x 190 mm  
12-tlg.

| No.  | Inhalt Nr. | Größe mm                 |      |   |
|------|------------|--------------------------|------|---|
| 1706 | 813        | 8-10-12-13-14-15-17-19   | 1050 | 1 |
|      | 813        | Bit-Adapter              |      |   |
|      | 813        | S 1/4" - S 3/8" - S 1/2" |      |   |

## Steckschlüsselgarnitur "Impact" 1/2" kurz + lang

Socket wrench set "Impact" 1/2" short + long

Jeux de douilles "Impact", version court + long

Juego vasos "Impact", tipo corta + largo

DIN 3129 ISO 2725

Chrom Molabdan Stahl brüniert



420 x 190 mm  
14-tlg.

| No.  | Inhalt Nr. | Größe mm       |      |   |
|------|------------|----------------|------|---|
| 1707 | 1050       | 13-17-19-22-24 | 2220 | 1 |
|      | 1058       | 17-19-21-22-24 |      |   |
|      | 1055       | 75-125         |      |   |
|      | 1056       | 15-32          |      |   |
|      | 1057       | 15-32          |      |   |

## Steckschlüsselgarnitur "Impact" 3/4" kurz + lang

Socket wrench set "Impact" 3/4" short + long

Jeux de douilles "Impact", version court + long

Juego vasos "Impact", tipo corta + largo

DIN 3129 ISO 2725

Chrom Molabdan Stahl brüniert



420 x 380  
16-tlg.

| No.  | Inhalt Nr. | Größe mm          |      |   |
|------|------------|-------------------|------|---|
| 1708 | 1065       | 24-27-30-32-36    | 6300 | 1 |
|      | 1066       | 17-19-24-27-30-32 |      |   |
|      | 1070       | 100               |      |   |
|      | 1071       | 17-49, 50-70      |      |   |
|      | 1072       | 17-49, 50-70      |      |   |

## Steckschlüsselgarnitur 3/8"

Socket wrench set 3/8" / Jeux de douilles / Juego vasos

DIN 3122-3123-3124

Chrom Vanadium Stahl 31 CrV3

W.-No. 1.2208



420 x 190 mm  
20-tlg.

| No.  | Inhalt Nr. | Größe mm                                        |      |   |
|------|------------|-------------------------------------------------|------|---|
| 1709 | 921        | 7-8-9-10-11-12-13-14-15<br>16-17-18-19-20-21-22 | 1300 | 1 |
|      | 922 H      |                                                 |      |   |
|      | 923        | 75-150                                          |      |   |
|      | 925        |                                                 |      |   |

### Steckschlüsselgarnitur 1/2", 12-kant

Socket wrench set 1/2", 12-point / Jeux de douilles 1/2", 12-point  
Juego vasos 1/2", 12-punto

DIN 3122-3123-3124, Chrom Vanadium Stahl 31 CrV3, W.-No. 1.2208



420 x 190 mm  
25-tlg.

| No.  | Inhalt Nr. | Größe mm                                                        |      |   |
|------|------------|-----------------------------------------------------------------|------|---|
| 1712 | 940        | 8-9-10-11-12-13-14-15<br>16-17-18-19-20-21-22-24<br>25-27-30-32 | 3430 | 1 |
|      | 950 H      |                                                                 |      |   |
|      | 960        | 125-250                                                         |      |   |
|      | 946        |                                                                 |      |   |
|      | 955        |                                                                 |      |   |

### Steckschlüsselgarnitur Innensechskant 1/2"

Socket wrench set, internal hexagon 1/2"  
Jeux de douilles à six pans 1/2"  
Juego vasos hexágono interior 1/2"

\*DIN 3120

Chrom Vanadium Stahl 31 CrV3

W.-No. 1.2208



420 x 190 mm  
18-tlg.

| No.  | Inhalt Nr. | Größe mm                                            |     |   |
|------|------------|-----------------------------------------------------|-----|---|
| 1716 | 967*       | 4x53/5x53/6x53/7x53/8x53<br>10x53/12x53/14x53/17x60 | 940 | 1 |
|      | 727        | 1,5-2-2,5-3-4-5-6-8-10                              |     |   |

### Steckschlüsselgarnitur 1/2", 6-kant

Socket wrench set 1/2", 6-point / Jeux de douilles 1/2", 6-point  
Juego vasos 1/2", 6-punto

DIN 3122-3123-3124, Chrom Vanadium Stahl 31 CrV3, W.-No. 1.2208



420 x 190 mm  
25-tlg.

| No.  | Inhalt Nr. | Größe mm                                                        |      |   |
|------|------------|-----------------------------------------------------------------|------|---|
| 1713 | 941        | 8-9-10-11-12-13-14-15<br>16-17-18-19-20-21-22-24<br>25-27-30-32 | 3430 | 1 |
|      | 950 H      |                                                                 |      |   |
|      | 960        | 125-250                                                         |      |   |
|      | 946        |                                                                 |      |   |
|      | 955        |                                                                 |      |   |

### Steckschlüsselgarnitur 1/4" mit Kugelkopf-schraubendrehersatz 1,5-10 mm

Socket wrench set 1/4" with ball-point-screwdrivers 1,5-10 mm  
Jeux de douilles 1/4" avec set de tournevis ball pointe coudée 1,5-10 mm / Juego vaso con llaves allen bola 1,5-10 mm

\*DIN 3120-3122-3123-3124

Chrom Vanadium Stahl



420 x 190 mm  
58-tlg.

| No.  | Inhalt Nr. | Größe mm                              |      |   |
|------|------------|---------------------------------------|------|---|
| 1717 | 900*       | 4-4,5-5-5,5-6-7-8-9<br>10-11-12-13-14 | 1440 | 1 |
|      | 915*       | 8H-10H-15H-20H-25H<br>27H-30H-40H     |      |   |
|      | 901*       | 3-4-5-6-8                             |      |   |
|      | 902*       | 1-2-3-4                               |      |   |
|      | 903*       | 4-6                                   |      |   |
|      | 912*       | 4-5-6-7-8-10-12-14-16                 |      |   |
|      | 910*       |                                       |      |   |
|      | 909*       |                                       |      |   |
|      | 904 H*     |                                       |      |   |
|      | 905*       |                                       |      |   |
|      | 906*       |                                       |      |   |
|      | 907*       | 50-150                                |      |   |
|      | 908*       |                                       |      |   |
|      | 778        | 1,5-2-2,5-3-4-5-6-8-10                |      |   |

### Steckschlüsselgarnitur Torx 1/2"

Socket wrench set Torx 1/2" / Jeux de douilles Torx 1/2"  
Juego vasos Torx 1/2"

\*Chrom Vanadium Stahl 31 CrV3, W.-No. 1.2208



420 x 190 mm  
17-tlg.

| No.  | Inhalt Nr. | Größe mm                          |     |   |
|------|------------|-----------------------------------|-----|---|
| 1714 | 969*       | TX 20-25-27-30-40-<br>45-50-55-60 | 940 | 1 |
|      | 792        | TX 9-10-15-20-25-27-30-40         |     |   |

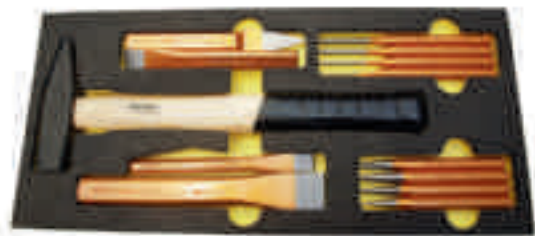
### Modul Meißel

Modul chisels / Modul ciseau / Modul cinceles

DIN 6453 -6450-6458-7250

\*Chrom-Vanadium Lufthärtestahl

Chrom-Vanadium Molybdän Lufthärtestahl



420 x 180 mm  
13-tlg.

| No.  | Inhalt Nr. | Größe mm |  |  |
|------|------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1718 | 3070*      | 150-200  | 2060                                                                              | 1                                                                                 |
|      | 3080*      | 150      |                                                                                   |                                                                                   |
|      | 3090*      | 150      |                                                                                   |                                                                                   |
|      | 3110       | 120x10   |                                                                                   |                                                                                   |
|      | 3120       | 2-3-4    |                                                                                   |                                                                                   |
|      | 3130       | 3-4-5-6  |                                                                                   |                                                                                   |
|      | 535        | 500      |                                                                                   |                                                                                   |

### Modul Meißel, Serie "Silber"

Modul chisels, "silver"-series / Modul ciseau, série "argent"  
Modul cinceles, serie "plata"

DIN 6451-6453-6458-7250

\*Chrom-Vanadium Lufthärtestahl

Chrom-Vanadium Molybdän Lufthärtestahl



420 x 190 mm  
13-tlg.

| No.  | Inhalt Nr. | Größe mm |  |  |
|------|------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1719 | 4070*      | 150-200  | 2060                                                                                | 1                                                                                   |
|      | 4080*      | 150      |                                                                                     |                                                                                     |
|      | 4090*      | 150      |                                                                                     |                                                                                     |
|      | 4110       | 120x10   |                                                                                     |                                                                                     |
|      | 4120       | 2-3-4    |                                                                                     |                                                                                     |
|      | 4130       | 3-4-5-6  |                                                                                     |                                                                                     |
|      | 535        | 500      |                                                                                     |                                                                                     |

### Modul Schraubendreher VDE

Modul screwdrivers VDE / Modul tournevis VDE

Modul destornilladores VDE

\*Chrom Vanadium Stahl

\*\*Chrom-Vanadium Molybdän Stahl



420 x 190 mm  
8-tlg.

| No.  | Inhalt Nr. | Größe mm                          |  |  |
|------|------------|-----------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1721 | 130**      | 75x2,5-100x3,5-125x5,5<br>150x6,5 | 460                                                                                 | 1                                                                                   |
|      | 133**      | PH 1x80mm-PH 2x100                |                                                                                     |                                                                                     |
|      | 293        | PH 1x35                           |                                                                                     |                                                                                     |
|      | 291        | 35x6                              |                                                                                     |                                                                                     |

### Modul Meißel

Modul chisels / Modul ciseau / Modul cinceles

\*DIN 6450-6453-7250



420 x 180 mm  
9-tlg.

| No.  | Inhalt Nr. | Größe mm     |  |  |
|------|------------|--------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1722 | 3070*      | 200          | 1630                                                                                  | 1                                                                                     |
|      | 3110*      | 120x10       |                                                                                       |                                                                                       |
|      | 3130*      | 3-4-5-6-8-10 |                                                                                       |                                                                                       |
|      | 535        | 500          |                                                                                       |                                                                                       |

### Modul Meißel, Serie "Silber"

Modul chisels, "silver"-series / Modul ciseau, série "argent"  
Modul cinceles, serie "plata"

\*DIN 6450-6453-7250



420 x 190 mm  
9-tlg.

| No.  | Inhalt Nr. | Größe mm     |  |  |
|------|------------|--------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1723 | 4070*      | 200          | 1630                                                                                  | 1                                                                                     |
|      | 4110*      | 120x10       |                                                                                       |                                                                                       |
|      | 4130*      | 3-4-5-6-8-10 |                                                                                       |                                                                                       |
|      | 535        | 500          |                                                                                       |                                                                                       |



### Modul Schraubendreher

Modul screwdrivers / Modul tournevis / Modul destornilladores

DIN 5262-5264-5265



420 x 190 mm  
10-tlg.

| No.  | Inhalt Nr. | Größe mm                 |     |   |
|------|------------|--------------------------|-----|---|
| 1724 | 42         | 75x4-100x5-125x5,5       | 640 | 1 |
|      |            | 150x6,5                  |     |   |
|      | 43         | PH 0x60-1x80-2x100-3x150 |     |   |
|      | 49         | 25x6                     |     |   |
|      | 50         | PH 1x25                  |     |   |

### Modul Zangen

Modul pliers / Modul pinces / Modul alicates

DIN ISO 5745-5746-5749-8976C



420 x 190 mm  
5-tlg.

| No.  | Inhalt Nr. | Größe mm |      |   |
|------|------------|----------|------|---|
| 1729 | 1201       | 180      | 1230 | 1 |
|      | 1206       | 160      |      |   |
|      | 1211       | 160      |      |   |
|      | 1231       | 180      |      |   |
|      | 1258       | 240      |      |   |

### Modul Holz-Schraubendreher

Modul screwdrivers with wooden handle  
Modul tournevis avec manette de bois  
Modul destornilladores con mango madera

DIN 5262-5264A

Chrom Vanadium Stahl



420 x 190 mm  
6-tlg.

| No.  | Inhalt Nr. | Größe mm              |     |   |
|------|------------|-----------------------|-----|---|
| 1727 | 155        | 75x3,5-90x4,5-100x5,5 | 450 | 1 |
|      |            | 125x7                 |     |   |
|      | 156        | PH 1x80, PH 2x100     |     |   |

### Modul Seegerringzangen

Modul circlip pliers / Modul de pince à circlip  
Modul alicates para arandelas exteriores

DIN 5254A-5254B-5266A-5256B



420 x 190 mm  
4-tlg.

| No.  | Inhalt Nr. | Größe mm |     |   |
|------|------------|----------|-----|---|
| 1739 | 1245       | A2       | 620 | 1 |
|      | 1246       | A21      |     |   |
|      | 1247       | J2       |     |   |
|      | 1248       | J21      |     |   |

### Modul Zangen

Modul pliers / Modul pinces / Modul alicates

DIN ISO 5746-5749-8976C



420 x 190 mm  
3-tlg.

| No.  | Inhalt Nr. | Größe mm |     |   |
|------|------------|----------|-----|---|
| 1728 | 1201       | 165      | 830 | 1 |
|      | 1226       | 160      |     |   |
|      | 1258       | 240      |     |   |



### Doppel-Maulschlüssel

#### Industrierausführung matt verchromt

Double-ended open-jawed spanners matt chrome-plated

Clés plates doubles à ouvertures inégales

Llaves fijas, bocas abiertas Industrial, cromada mate



320 x 145 mm  
8-tlg.

| No.  | Inhalt Nr. | mm                                                    |  |
|------|------------|-------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1765 | 800 CI     | 6x7, 8x9, 10x11, 12x13, 14x15,<br>16x17, 18x19, 20x22 | 860                                                                               |

### Ring-Maul-Schlüssel, lange Version

Combination wrenches, long version

Clés mixte, version long

Llaves combinadas, tipo largo



320 x 145 mm  
8-tlg.

| No.  | Inhalt Nr. | mm                     |  |
|------|------------|------------------------|-------------------------------------------------------------------------------------|
| 1772 | 810 CP     | 8-10-12-13-14-17-19-22 | 960                                                                                 |

### Doppel-Maulschlüssel

#### Industrierausführung matt verchromt

Double-ended open-jawed spanners matt chrome-plated

Clés plates doubles à ouvertures inégales

Llaves fijas, bocas abiertas Industrial, cromada mate



320 x 290 mm  
13-tlg.

| No.  | Inhalt Nr. | mm                                                                                   |  |
|------|------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1767 | 800 CI     | 6x7, 8x9, 10x11, 12x13, 14x15,<br>16x17, 18x19, 20x22, 21x23,<br>24x27, 25x28, 30x32 | 2380                                                                                |
|      | 836        | 4-7                                                                                  |                                                                                     |

### Ring-Maul-Schlüssel

Combination wrenches

Clés mixte

Llaves combinadas-tipo corto



320 x 145 mm  
8-tlg.

| No.  | Inhalt Nr. | mm                     |  |
|------|------------|------------------------|---------------------------------------------------------------------------------------|
| 1773 | 811 CI     | 8-10-12-13-14-17-19-22 | 700                                                                                   |

### Doppel-Ringschlüssel

#### Industrierausführung matt verchromt

Cranked double-ended ring spanners, matt chrome-plated

Clés à oeil multiplan coudées doubles, chromée mat

Llaves acodadas estrella cerradas Industrial, cromada mate



320 x 145 mm  
8-tlg.

| No.  | Inhalt Nr. | mm                                                    |  |
|------|------------|-------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1770 | 802 CI     | 6x7, 8x9, 10x11, 12x13, 14x15,<br>16x17, 18x19, 20x22 | 1300                                                                                |

### Doppel-Gelenk-Schlüssel, 12-Kt.

socket wrenches flexible bihexagon, 12 point

Clés à douilles articulées, à 12 pans

Llave vaso flexible con 12 cantos



320 x 145 mm  
6-tlg.

| No.  | Inhalt Nr. | mm                                        |  |
|------|------------|-------------------------------------------|---------------------------------------------------------------------------------------|
| 1775 | 825        | 8x9, 10x11, 12x13, 14x15, 16x17,<br>18x19 | 1400                                                                                  |

## Steckschlüsselnset

Socket Wrench Set

Jeux de douilles

Juego vasos



320 x 145 mm  
15-tlg.

| No.  | Inhalt Nr. | mm                         |      |
|------|------------|----------------------------|------|
| 1776 | 941        | 10-11-12-13-14-15-16-17-18 | 2240 |
|      | 950        | 19-20-22                   |      |
|      | 946        |                            |      |
|      | 960-250    |                            |      |

## Ring-Maul-Schlüssel

Combination wrenches

Clés mixte

Llaves combinadas-tipo corto



320 x 145 mm  
10-tlg.

| No.  | Inhalt Nr. | mm                     |      |
|------|------------|------------------------|------|
| 1777 | 967        | 4-5-6-8-10-12-14-17-19 | 1140 |
|      | 776        | 1,5-10                 |      |

## Steckschlüsselnset mit Torx®

Socket Wrench with Torx®

Jeux de douilles avec Torx®

Juego vasos con Torx®



320 x 145 mm  
10-tlg.

| No.  | Inhalt Nr. | mm                            |     |
|------|------------|-------------------------------|-----|
| 1778 | 969        | Tx 20-25-27-30-40-45-50-55-60 | 940 |
|      | 792        | Tx 9 - Tx 40                  |     |

## Steckschlüsselnset mit 6-kant Winkelschraubendreher

Socket Wrench with hexagon key Wrench Set

Jeux de douilles avec clés mâles 6 pans

Juego vasos con llaves allen acodadas



320 x 145 mm  
41-tlg.

| No.  | Inhalt Nr. | mm                     |     |
|------|------------|------------------------|-----|
| 1779 | 900        | 4-4,5-5-5,5-6-7-8-9-10 | 920 |
|      |            | 11-12-13-14            |     |
|      | 902        | 1+2                    |     |
|      | 901        | 3-4-5-6-8              |     |
|      | 912        | 4-5-6-7-8-10           |     |
|      | 915        | 8-10-15-20-25-27-30-40 |     |
|      | 904        |                        |     |
|      | 905        |                        |     |
|      | 906        |                        |     |
|      | 907        | 50/100/150             |     |
|      | 908        |                        |     |
|      |            |                        |     |
|      |            |                        |     |
|      |            |                        |     |

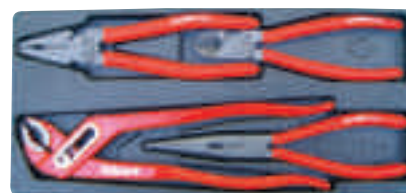
## Modul Zangen

Modul pliers / Modul pinces / Modul alicates



320 x 145 mm  
3-tlg.

| No.  | Inhalt Nr. | mm  |     |
|------|------------|-----|-----|
| 1780 | 1201       | 180 | 800 |
|      | 1216       | 205 |     |
|      | 1226       | 160 |     |



320 x 145 mm  
4-tlg.

| No.  | Inhalt Nr. | mm  |     |
|------|------------|-----|-----|
| 1787 | 1258       | 240 | 990 |
|      | 1201 T     | 180 |     |
|      | 1226 T     | 160 |     |
|      | 1216 T     | 205 |     |



### Modul Sprengringzangen

Modul circlip pliers

Modul pinces a segment pistons exterieur

Modul alicates para arandelas exteriores



320 x 145 mm  
4-tlg.

| No.  | Inhalt Nr. | mm  |  |
|------|------------|-----|-----------------------------------------------------------------------------------|
| 1783 | 1245       | 180 | 760                                                                               |
|      | 1246       | 180 |                                                                                   |
|      | 1247       | 180 |                                                                                   |
|      | 1248       | 165 |                                                                                   |

### Modul Schraubendreher

Modul Screw driver

Modul tournevis

Modul desstornilladores



320 x 145 mm  
8-tlg.

| No.  | Inhalt Nr. | mm         |  |
|------|------------|------------|-------------------------------------------------------------------------------------|
| 1784 | 40         | 75 x 2,5   | 480                                                                                 |
|      | 40         | 100 x 3,5  |                                                                                     |
|      | 42         | 125 x 5,5  |                                                                                     |
|      | 42         | 150 x 6,5  |                                                                                     |
|      | 43         | PH 1 x 80  |                                                                                     |
|      | 43         | PH 2 x 100 |                                                                                     |
|      | 49         | 25 x 6     |                                                                                     |
|      | 50         | PH 2 x 25  |                                                                                     |

### Modul Schraubendreher

Modul Screw driver

Modul tournevis

Modul desstornilladores



1000 V  
EN 60900  
VDE 0680/2



320 x 145 mm  
4-tlg.

| No.  | Inhalt Nr. | mm         |  |
|------|------------|------------|-------------------------------------------------------------------------------------|
| 1785 | 130        | 75 x 2,5   | 440                                                                                 |
|      | 130        | 100 x 3,5  |                                                                                     |
|      | 130        | 125 x 5,5  |                                                                                     |
|      | 130        | 150 x 6,5  |                                                                                     |
|      | 133        | PH 1 x 80  |                                                                                     |
|      | 133        | PH 2 x 100 |                                                                                     |

### Modul Schraubendreher

Modul Screw driver

Modul tournevis

Modul desstornilladores



320 x 145 mm  
4-tlg.

| No.  | Inhalt Nr. | mm         |  |
|------|------------|------------|---------------------------------------------------------------------------------------|
| 1786 | 155        | 75 x 3,5   | 580                                                                                   |
|      | 155        | 100 x 5,5  |                                                                                       |
|      | 155        | 125 x 7    |                                                                                       |
|      | 155        | 150 x 9    |                                                                                       |
|      | 156        | PH 1 x 80  |                                                                                       |
|      | 156        | PH 2 x 100 |                                                                                       |

### Werkzeugkoffer aus ABS, leer

Tool bag of ABS, empty

Coffre pour outils de ABS, vide

Maleta para herramientas de ABS, vacia



### Werkzeugkasten leer

Tool chests, empty

Boîtes, vide

Cofre herramientas, vacio



| No.  | L-mm        |    |      |
|------|-------------|----|------|
| 1710 | 460x310x160 | 60 | 4120 |

| No.  | L-mm        |  |      |
|------|-------------|--|------|
| 1725 | 530x200x200 |  | 6320 |

### Montage/Service Koffer mit 85 Werkzeugen

Mechanic-Service case assorted with 85 Tools

Coffre de montage et service avec 85 outils

Maleta de montaje y servicio con 85 Herramientas



| No.  | Inhalt Nr. | Abmessung      |
|------|------------|----------------|
| 1711 | 1710       | 460x310x160 mm |
|      | 800 CI-8   | 6-22 mm        |
|      | 811 Cik-8  | 8-22 mm        |
|      | 727 CV     | 1,5-10 mm      |
|      | 42         | 75x4           |
|      | 42         | 100x5          |
|      | 42         | 125x5,5        |
|      | 42         | 150x6,5        |
|      | 43         | PH 1x80        |
|      | 43         | PH 2x100       |
|      | 918        | 27-tlg-1/4"    |
|      | 1258-240   | 240 mm         |
|      | 833-8"     | 8"             |
|      | 1201-180   | 180 mm         |
|      | 1216-200   | 200 mm         |
|      | 1226-160   | 160 mm         |
|      | 1241-160   | 160 mm         |
|      | 1499       | 195 mm         |
|      | 1498       | 190 mm         |
|      | 520-32     | 32 mm          |
|      | 535-300    | 300 g          |
|      | 350        |                |
|      | 4110       | 120x10         |
|      | 4160       | 3-10 mm        |
|      | 4040       | 230 mm         |
|      | 4080       | 200 mm         |
|      | 305        | 100 mm         |
|      | 324        | 100x5          |
|      | 324        | 150x8          |
|      | 325        | PH1/PH 2       |

## Werkstattwagen mit Modulbestückung

Tool Trolley with different moduls

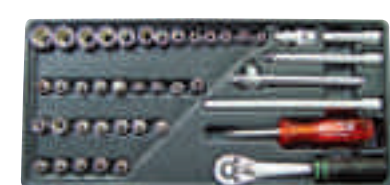
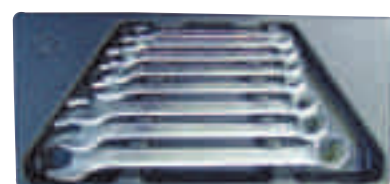
Voiture atelier professionnel avec modul

Carro de herramientas profi con modul



116-tlg.

| No.  | Inhalt Nr. |  |  |
|------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1790 | 1732 B     | 62000                                                                               | 1                                                                                   |
|      | 1765       |                                                                                     |                                                                                     |
|      | 1770       |                                                                                     |                                                                                     |
|      | 1773       |                                                                                     |                                                                                     |
|      | 1776       |                                                                                     |                                                                                     |
|      | 1777       |                                                                                     |                                                                                     |
|      | 1778       |                                                                                     |                                                                                     |
|      | 1779       |                                                                                     |                                                                                     |
|      | 1780       |                                                                                     |                                                                                     |
|      | 1783       |                                                                                     |                                                                                     |
|      | 1784       |                                                                                     |                                                                                     |





### Werkstattwagen mit Modulbestückung

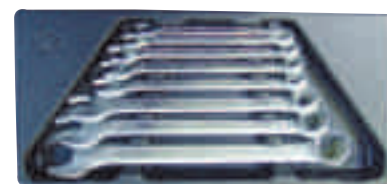
Tool Trolley with different moduls

Voiture atelier professionnel avec modul

Carro de herramientas profi con modul

127-tlg.

| No.  | Inhalt Nr. |  |  |
|------|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1791 | 1732 KB    | 77000                                                                             | 1                                                                                 |
|      | 1767       |                                                                                   |                                                                                   |
|      | 1770       |                                                                                   |                                                                                   |
|      | 1773       |                                                                                   |                                                                                   |
|      | 1775       |                                                                                   |                                                                                   |
|      | 1776       |                                                                                   |                                                                                   |
|      | 1777       |                                                                                   |                                                                                   |
|      | 1778       |                                                                                   |                                                                                   |
|      | 1779       |                                                                                   |                                                                                   |
|      | 1780       |                                                                                   |                                                                                   |
|      | 1783       |                                                                                   |                                                                                   |
|      | 1784       |                                                                                   |                                                                                   |



## Werkstattwagen mit Modulbestückung

Tool Trolley with different moduls

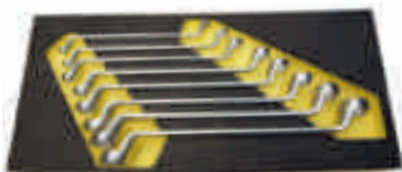
Voiture atelier professionnel avec modul

Carro de herramientas profi con modul



196-tlg.

| No.  | Inhalt Nr.                                                                                           |  |  |
|------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1793 | 1738<br>1700<br>1701<br>1703<br>1706<br>1713<br>1714<br>1716<br>1717<br>1719<br>1724<br>1729<br>1739 | 80000                                                                               | 1                                                                                   |



### Werkstattwagen mit Modulbestückung

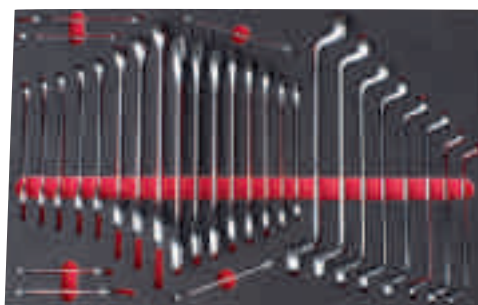
Tool Trolley with different moduls

Voiture atelier professionnel avec modul

Carro de herramientas profi con modul

190-tlg.

| No.  | Inhalt Nr. |  |  |
|------|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1794 | 1739       | 88000                                                                             | 1                                                                                 |
|      | 1743       |                                                                                   |                                                                                   |
|      | 1744       |                                                                                   |                                                                                   |
|      | 1745       |                                                                                   |                                                                                   |
|      | 1746       |                                                                                   |                                                                                   |
|      | 1747       |                                                                                   |                                                                                   |
|      | 1748       |                                                                                   |                                                                                   |
|      | 1749       |                                                                                   |                                                                                   |





## Werkzeug-Sortiment

Tool Assortment

Assortiment d'outils

Surtido de herramienta

102-tlg.



## Bestückung

Contents/Contenu/Contenido

| No.     | Inhalt Nr. | Abmessung       |
|---------|------------|-----------------|
| 1726 mm | 800 K12    | 6-32 mm         |
|         | 802 K12    | 6-32 mm         |
|         | 371        | 45 mm           |
|         | 380        | 45 mm           |
|         | 1902-3     |                 |
|         | 4151       | 6-tlg.          |
|         | 1401       | 0,05-1,00 mm    |
|         | 948        |                 |
|         | 946        | 300 mm          |
|         | 960        | 125             |
|         | 960        | 250             |
|         | 941        | 8-32 mm 18-tlg. |
|         | 850        | 21 mm           |
|         | 865        | 400 mm 2 St.    |
|         | 722 WS     | 2-10 mm         |
|         | 40         | 75x2,5 mm       |
|         | 40         | 100x3,5 mm      |
|         | 42         | 125x5,5 mm      |
|         | 42         | 150x6,5 mm      |
|         | 43         | 1x80 mm         |
|         | 43         | 2x100 mm        |
|         | 1646       | 150 mm          |
|         | 1600       | 200 mm          |
|         | 1612       | 200 mm          |
|         | 1603       | 200 mm          |
|         | 1620       | 100 mm 3 St.    |
|         | 1201       | 180 mm          |
|         | 1226       | 160 mm          |
|         | 1216       | 205 mm          |
|         | 1300       | 250 mm          |
|         | 535        | 300 g           |
|         | 1575       |                 |
|         | 1258       | 240 mm          |
|         | 800000010  | Schloss 30 mm   |
|         | 1725       | 530x220x200     |

| No.     | Inhalt Nr. | Abmessung     |
|---------|------------|---------------|
| 1726 AF | 800 CAF 12 | 1/4"-1.1/4"   |
|         | 802 CAF 12 | 1/4"-1.1/4"   |
|         | 371        | 45 mm         |
|         | 380        | 45 mm         |
|         | 1902-3     |               |
|         | 4151       | 6-tlg.        |
|         | 1406       | 13-tlg.       |
|         | 948        |               |
|         | 946        | 300 mm        |
|         | 960        | 125           |
|         | 960        | 250           |
|         | 940 AF     | 5/16"-1.1/4"  |
|         | 850        | 21 mm         |
|         | 865        | 400 mm 2 St.  |
|         | 718 WS     | 2-10 mm       |
|         | 40         | 75x2,5 mm     |
|         | 40         | 100x3,5 mm    |
|         | 42         | 125x5,5 mm    |
|         | 42         | 150x6,5 mm    |
|         | 43         | 1x80 mm       |
|         | 43         | 2x100 mm      |
|         | 1646       | 150 mm        |
|         | 1600       | 200 mm        |
|         | 1612       | 200 mm        |
|         | 1603       | 200 mm        |
|         | 1620       | 100 mm 3 St.  |
|         | 1201       | 180 mm        |
|         | 1226       | 160 mm        |
|         | 1216       | 205 mm        |
|         | 1300       | 250 mm        |
|         | 535        | 300 g         |
|         | 1575       |               |
|         | 1258       | 240 mm        |
|         | 800000010  | Schloss 30 mm |
|         | 1725       | 530x220x200   |

**Mechaniker-Werkzeug-Sortiment**

Mechanics Tool Assortment

Assortiment d'outils pour mécanicien

Surtido de herramienta para mecánico

162-tlg.

**Bestückung**

Contents/Contenu/Contenido

| No.  | Inhalt Nr.  | Abmessung              |
|------|-------------|------------------------|
| 1750 | 802 CI-12   | 12-tlg. / 6-32 mm      |
|      | 800 CI-12   | 12-tlg. / 6-32 mm      |
|      | 978-HS      | 25-tlg. - 1/2"         |
|      | 919         | 16-tlg. - 1/4"         |
|      | 967         | 5,6,7,8,10,12,14,17 mm |
|      | 727 CV      | 1,5-10 mm              |
|      | 1258-180    | 180 mm                 |
|      | 1258-240    | 240 mm                 |
|      | 1245-140    | 140 mm                 |
|      | 1245-180    | 180 mm                 |
|      | 1246-130    | 130 mm                 |
|      | 1246-170    | 170 mm                 |
|      | 1262-1.1/2" | 1.1/2"                 |
|      | 1306S-250   | 250 mm                 |
|      | 1247-140    | 140 mm                 |
|      | 1247-180    | 180 mm                 |
|      | 1248-170    | 170 mm                 |
|      | 1248-210    | 210 mm                 |
|      | 1201-180    | 180 mm                 |
|      | 1226-160    | 160 mm                 |
|      | 42-75       | 75x4 mm                |
|      | 42-100      | 100x5 mm               |
|      | 42-125      | 125x5,5 mm             |
|      | 45-125      | 125x7 mm               |
|      | 45-150      | 150x9 mm               |
|      | 45-175      | 175x10 mm              |
|      | 43-1x80     | PH 1x80                |
|      | 43-2x100    | PH 2x100               |
|      | 43-3x150    | PH 3x150               |
|      | 44-1x80     | PZ 1x80                |
|      | 44-2x100    | PZ 2x100               |
|      | 49-25x6     | 25x6 mm                |
|      | 50-1x25     | PH 1x25                |
|      | 50-2x25     | PH 2x25                |
|      | 1236-160    | 160 mm                 |
|      | 1216-200    | 200 mm                 |
|      | 1221-200    | 200 mm                 |

| No.  | Inhalt Nr.  | Abmessung   |
|------|-------------|-------------|
| 1750 | 4130-2      | 2x150 mm    |
|      | 4130-3      | 3x150 mm    |
|      | 4130-4      | 4x150 mm    |
|      | 4130-5      | 5x150 mm    |
|      | 4130-6      | 6x150 mm    |
|      | 4130-8      | 8x150 mm    |
|      | 4110-120x10 | 120x10 mm   |
|      | 4120-3      | 120x10x3 mm |
|      | 4120-5      | 120x10x5 mm |
|      | 4090-125    | 125 mm      |
|      | 4090-150    | 150 mm      |
|      | 4010-200    | 200 mm      |
|      | 4100-125    | 125 mm      |
|      | 212-500     | 260 mm      |
|      | 833-8"      | 8"          |
|      | 1570        | 150 mm      |
|      | 1575        | 300 mm      |
|      | 1580        | 380 mm      |
|      | 1601-200    | Hieb 2 200m |
|      | 1613-200    | Hieb 2 200m |
|      | 1610-200    | Hieb 2 200m |
|      | 1604-200    | Hieb 2 200m |
|      | 1620-100    | 100         |
|      | 1640        | 100         |
|      | 1648 M      |             |
|      | 1499        |             |
|      | 534-500     | 500 gr      |
|      | 531-40      | 40 mm       |
|      | 7322-200    | 200 mm      |
|      | 305         | 100 mm      |
|      | 1375-1800   | 1800 gr     |
|      | 6430        | 400 mm      |
|      | 1532        | 1-6 mm      |
|      | 1382-200    | 200 ml      |
|      | 1432        | 2 meter     |
|      | 1126        | 250 mm      |
|      | 1435        | 150 mm      |

## Mechaniker-Werkzeug-Sortiment

Mechanics Tool Assortment

Assortiment d'outils pour mécanicien

Surtido de herramienta para mecánico

140-tlg.



## Bestückung

Contents/Contenu/Contenido

| No.  | Inhalt Nr.  | Abmessung       |
|------|-------------|-----------------|
| 1751 | 802 CI      | 12-tlg./6-32 mm |
|      | 800 CI      | 12-tlg./6-32 mm |
|      | 978-HS      | 25-tlg.-1/2"    |
|      | 919         | 16-tlg.-1/4"    |
|      | 727 CV      | 1,5-10 mm       |
|      | 1258-180    | 180 mm          |
|      | 1258-240    | 240 mm          |
|      | 1245-180    | 180 mm          |
|      | 1262-1.1/2" | 1.1/2"          |
|      | 1306S-250   | 250 mm          |
|      | 1247-180    | 180 mm          |
|      | 1201-180    | 180 mm          |
|      | 1226-160    | 160 mm          |
|      | 42-75       | 75x4 mm         |
|      | 42-100      | 100x5 mm        |
|      | 42-125      | 125x5,5 mm      |
|      | 45-125      | 125x6,5 mm      |
|      | 45-150      | 150x8 mm        |
|      | 45-175      | 175x10 mm       |
|      | 43-1x80     | PH 1x80         |
|      | 43-2x100    | PH 2x100        |
|      | 43-3x150    | PH 3x150        |
|      | 44-1x80     | PZ 1x 80        |
|      | 44-2x100    | PZ 2x100        |
|      | 49-35x6     | 35x6 mm         |
|      | 50-1x25     | PH 1x25         |
|      | 50-2x25     | PH 2x25         |
|      | 4130-3      | 3x150 mm        |
|      | 4130-5      | 5x150 mm        |
|      | 4110-120x10 | 120x10 mm       |

| No.  | Inhalt Nr. | Abmessung     |
|------|------------|---------------|
| 1751 | 4120-3     | 120x10x3 mm   |
|      | 4120-5     | 120x10x5 mm   |
|      | 4090-125   | 125 mm        |
|      | 4090-150   | 150 mm        |
|      | 4010-200   | 200 mm        |
|      | 4100-125   | 125 mm        |
|      | 212500     | 260 mm        |
|      | 833-8"     | 8"            |
|      | 1575       | 300 mm        |
|      | 1601-200   | Hieb 2 200 mm |
|      | 1613-200   | Hieb 2 200 mm |
|      | 1604-200   | Hieb 2 200 mm |
|      | 1620-100   | 100           |
|      | 1640       | 100           |
|      | 1648 M     |               |
|      | 534-500    | 500 gr        |
|      | 531-40     | 40 mm         |
|      | 7322-200   | 200 mm        |
|      | 305        | 100 mm        |
|      | 1375-1800  | 1800 gr       |
|      | 6430       | 400 mm        |
|      | 1532       | 1-6 mm        |
|      | 1382-200   | 200 ml        |
|      | 1432-2     | 2 meter       |
|      | 1126       | 250 mm        |
|      | 1435       | 150 mm        |
|      | 1236-160   | 160 mm        |
|      | 1216-200   | 200 mm        |
|      | 1221-200   | 200 mm        |



**Werkzeug-Sortiment**

Tool Assortment

Assortiment d'outils

Surtido de herramienta

91-tlg.

**Bestückung**

Contents/Contenu/Contenido

| No.     | Inhalt Nr. | Abmessung                                                                      |
|---------|------------|--------------------------------------------------------------------------------|
| 1752 mm | 800 C-12   | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 |
|         | 802 CI     | 8x9, 10x11, 12x13, 14x15, 16x17, 19x22, 21x23, 24x27                           |
|         | 1640       | 6-tlg.                                                                         |
|         | 941        | 10,11,12,13,14,15,16,17,18,19,21,22,23,24,26,27,28,30,32                       |
|         | 1601       | 150 mm                                                                         |
|         | 950        |                                                                                |
|         | 946        |                                                                                |
|         | 960        | 125 mm, 250 mm                                                                 |
|         | 200        | 5.5, 6,7,8,9,10 mm                                                             |
|         | 702 CV     | 3,4,5,6,8,10,12,14 mm                                                          |
|         | 833        | 8"                                                                             |
|         | 45         | 125x6,5, 150x8, 175x10                                                         |
|         | 42         | 100x5, 125x5,5                                                                 |
|         | 43         | 2x100, 3x150                                                                   |
|         | 4110       | 120x10x4                                                                       |
|         | 4120       | 3mm + 4mm                                                                      |
|         | 4070       | 125+150 mm                                                                     |
|         | 4080       | 125 mm                                                                         |
|         | 1580       | 380 mm                                                                         |
|         | 1576       | 300 mm                                                                         |
|         | 1604       | 150 mm                                                                         |
|         | 1613       | 150 mm                                                                         |
|         | 7320       | 150 mm                                                                         |
|         | 213000     | 250 mm                                                                         |
|         | 1201       | 180 mm                                                                         |
|         | 1226       | 160 mm                                                                         |
|         | 534        | 500 gr                                                                         |
|         | 520        | 40 mm                                                                          |
|         | 1300 S     | 10"                                                                            |
|         | 1258 S     | 180 mm                                                                         |
|         | 1258 S     | 240 mm                                                                         |

## Mechaniker-Werkzeug-Sortiment

Mechanics Tool Assortment

Assortiment d'outils pour mécanicien

Surtido de herramienta para mecánico

91-tlg.



## Bestückung

Contents/Contenu/Contenido

| No.     | Inhalt Nr. | Abmessung                            |
|---------|------------|--------------------------------------|
| 1752 AF | 800 CAF    | 1/4x5/16 - 5/16x3/8                  |
|         |            | 7/16x1/2 - 9/16x5/8                  |
|         |            | 19/32x11/16 - 3/4x25/32              |
|         |            | 13/16x7/8 - 15/16x1"                 |
|         | 802 CAF    | 1/4x5/16 - 5/16x3/8                  |
|         |            | 7/16x1/2 - 9/16x5/8                  |
|         |            | 3/8x7/16 - 1/2x9/16                  |
|         |            | 19/32x11/16 - 5/8x3/4                |
|         |            | 3/4x25/32 - 13/16x7/8                |
|         |            | 1.1/16x1.1/4 - 15/16x1"              |
|         |            | 3/8 - 13/32 - 7/16 - 1/2 - 9/16 -    |
|         | 940 AF     | 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                                |
|         | 200 AF     | 3/16 - 1/4 - 5/16 - 3/8 - 7/16 - 1/2 |
|         | 702 CV AF  | 1/8 - 5/32 - 3/16 - 1/4 - 5/16 - 3/8 |
|         |            | 1/2 - 9/16                           |
|         | 950        |                                      |
|         | 946        |                                      |
|         | 960        | 125 mm, 250 mm                       |
|         | 213000     | 250 mm                               |
|         | 1201       | 180 mm                               |

| No.     | Inhalt Nr. | Abmessung                |
|---------|------------|--------------------------|
| 1752 AF | 1226       | 160 mm                   |
|         | 833        | 8"                       |
|         | 1300 S     | 10"                      |
|         | 1258 S     | 180 mm                   |
|         | 1258 S     | 240 mm                   |
|         | 45         | 125x6,5 / 150x8 / 175x10 |
|         | 42         | 100x5 / 125x5,5          |
|         | 43         | 2x100 / 3x150            |
|         | 4110       | 120x10x4                 |
|         | 4120       | 3mm + 4mm                |
|         | 4090       | 125mm+150 mm             |
|         | 4100       | 125 mm                   |
|         | 1640       | 6-tlg.                   |
|         | 1580       | 380 mm                   |
|         | 1576       | 300 mm                   |
|         | 1604       | 150 mm                   |
|         | 1601       | 150 mm                   |
|         | 1620       | 100 mm 3 x               |
|         | 1613       | 150 mm                   |
|         | 7320       | 150 mm                   |
|         | 534        | 500 gr                   |
|         | 520        | 40 mm                    |

**Mechaniker-Werkzeug-Sortiment**

Mechanics Tool Assortment

Assortiment d'outils pour mécanicien

Surtido de herramienta para mecánico

130-tlg.

**Bestückung**

Contents/Contenu/Contenido

| No.  | Inhalt Nr. | Abmessung                                                        |
|------|------------|------------------------------------------------------------------|
| 1753 | 811 CI     | 8,9,10,11,12,13,14,15,16,17,18,<br>19,21,22,23,24,26,27,30,32 mm |
|      | 835        | 11x13, 14x17, 19x22 mm                                           |
|      | 919        | 1/4", 16-tlg., 4-14 mm                                           |
|      | 977 US     | 1/2", 19-tlg., 10-32 mm                                          |
|      | 967        | 5,6,7,8,10,12,14,17 mm                                           |
|      | 967        | 5x100, 6x100, 7x100, 8x100, 10x140                               |
|      | 969        | 20,25,27,30,40,45,50,55,60                                       |
|      | 922        | 3/8"                                                             |
|      | 929        | 3/8" - 16mm und 20,8 mm                                          |
|      | 702 CV     | 2-2,5-3-4-5-6-8-10 mm                                            |
|      | 1258       | 240 mm                                                           |
|      | 42         | 100x5, 125x5,5, 150x6,5                                          |
|      | 40         | 75x2,5, 100x3,5                                                  |
|      | 43         | PH 1 x 80 / PH 2 x 100                                           |
|      | 49         | 25x4,5, 25x6                                                     |
|      | 50         | PH 2 x 25                                                        |

| No.  | Inhalt Nr. | Abmessung         |
|------|------------|-------------------|
| 1753 | 155        | 100x5,5, 150x9    |
|      | 4130       | 2,3,4,5,6,8,10 mm |
|      | 4110       | 120x12            |
|      | 1201       | 180 mm            |
|      | 1226       | 160 mm            |
|      | 1245       | A2-180mm          |
|      | 1247       | J2-180 mm         |
|      | 534        | 300 gr            |
|      | 530        | 40 mm             |
|      | 1390       | 4-reihig          |
|      | 1391       |                   |
|      | 7320       | 200 mm            |
|      | 1675       | 140 mm            |
|      | 6520       | 250 mm            |
|      | 384        |                   |
|      | 1401       | 13-tlg.           |
|      | 865        | 400 mm            |



## Baumaschinen-Werkzeug-Sortiment

Building Machines Tool Assortment, heavy duty,  
Assortiment d'outils pour Machine de construction  
Surtido de herramienta para máquinas de construcción

100-tlg.



## Bestückung

Contents/Contenu/Contenido

| No.  | Inhalt Nr. | Abmessung                     |
|------|------------|-------------------------------|
| 1754 | 800 CI-12  | 6x7, 8x9, 10x11, 12x13, 14x15 |
|      |            | 16x17, 18x19, 20x22, 21x23    |
|      |            | 24x27, 25x28, 30x32 mm        |
|      | 811 CI     | 8,10,12,13,14,17,19,22,24,27  |
|      |            | 30,32,34,36,38 mm             |
|      | 931        | 3/8", 20-tlg., 6-22 mm        |
|      | 977 HS     | 1/2", 19-tlg., 10-32 mm       |
|      | 964        | 1/2" - 375 mm                 |
|      | 1000       | 3/4", 14-tlg., 22-50 mm       |
|      | 1300 S     | 10"                           |
|      | 1258 S     | 240 mm                        |

| No.  | Inhalt Nr. | Abmessung                          |
|------|------------|------------------------------------|
| 1754 | 1201       | 180 mm                             |
|      | 1226       | 160 mm                             |
|      | 1221       | 200 mm                             |
|      | 45         | 100x5,5 - 125x6,5 - 150x8 - 175x10 |
|      | 130        | 125x5,5                            |
|      | 4140       |                                    |
|      | 534        | 1000 gr                            |
|      | 6425       | 600 mm                             |
|      | 1401       | 13-tlg.                            |
|      | 1371       |                                    |

**Mustertasche mit padre Werkzeug**

Sample Bag with padre Hand-Tools

Chemise de modèle avec outils de padre

Cartera de muestra con herramientas de padre

99-tlg.

**Bestückung**

Contents/Contenu/Contenido

| No.  | Inhalt Nr. | Abmessung |
|------|------------|-----------|
| 1799 | 43         | 2x100     |
|      | 42         | 125x5,5   |
|      | 47         | T 15      |
|      | 48         | 3 mm      |
|      | 130        | 125x5,5   |
|      | 145        | 100x3     |
|      | 155        | 100x5,5   |
|      | 200        | 10 mm     |
|      | 201        | 8x125     |
|      | 414        | 2x100     |
|      | 450        | 125x5,5   |
|      | 535        | 200 gr    |
|      | 702 CV     | 10 mm     |
|      | 742        | 5 mm      |
|      | 800 CI     | 14x15     |
|      | 802 CI     | 12x13     |
|      | 805 CI     | 11x13     |
|      | 810 CI     | 13 mm     |

| No.  | Inhalt Nr. | Abmessung |
|------|------------|-----------|
| 1799 | 811 CI     | 13 mm     |
|      | 815        | 8x9       |
|      | 825        | 10x11     |
|      | 833        | 8"        |
|      | 941        | 14 mm     |
|      | 948        |           |
|      | 950        |           |
|      | 955        |           |
|      | 960        | 125 mm    |
|      | 1126       |           |
|      | 1127       |           |
|      | 1201       | 180 mm    |
|      | 1247       | 140 mm    |
|      | 1275       | 160 mm    |
|      | 1300 S     | 10"       |
|      | 3070       | 200 mm    |
|      | 3110       | 120x10    |
|      | 3130       | 4 mm      |

## Verkaufswand

Display panel  
Panneau de vente  
Para expositor

## Zubehör:

100 Haken 170 mm  
30 Haken 200 mm  
1 Schütte für Steckschlüsseleinsätze  
1 Lichtkasten „padre“

## Hauptwand

| No.    | mm                            |  |  |
|--------|-------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1950 H | 2200 x 1000 x 460 (H x B x T) | 70000                                                                             |                                                                                   |

## Anbauwand

| No.    | mm                             |  |  |
|--------|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1950 A | 2200 x 1 000 x 460 (H x B x T) | 70000                                                                               |                                                                                     |



## Bestückung nach Wunsch möglich !

Die Wand wird mit dem Listenpreis berechnet. Am Ende des folgenden Jahres erstellen wir eine Gutschrift in Höhe von 5 % des Umsatzes (inklusive Erstbestückung), max. Listenpreis der Wand. Die Wand darf auch nach Bezahlung ausschließlich mit padre-Artikeln bestückt werden.

## Armanent at your choise !

The panel will be invoiced at list-price. At the end of the following year we will issue a credit note for 5 % of the turnover, max. up to list-price of the panel. The panel may be equipped only with padre tools also after it's payment.

## Armement d'après vos souhaits !

Le panneau est facturé avec prix de la liste. A fin de l'année prochaine nous faisons une note de crédit pour 5 % des transactions, max. prix de la liste du panneau. Le panneau faut être garné avec les outils padre aussi après paiement.

## Composición a su elección !

El expositor será facturado al precio tarifado. Al final del siguiente año será reembolsado un 5 % de la cantidad total vendida, con el tope máximo del valor de dicho expositor. El expositor será utilizado solo con herramientas padre, incluso después de ser pagado.



**Universal-Aufhängekarte für alle Artikel**

Universal card for all items

Carte universel pour tous articles

Carton universal para todos los productos



| No.  | Außenmaß mm | Nutzbares Maß mm |
|------|-------------|------------------|
| 1900 | 210x70      | (135) x 70       |

**SB-Taschen**

SB-pouches

Poches

Bolsas



| No.  | Größe | Außenmaß mm | Nutzbares Maß mm |
|------|-------|-------------|------------------|
| 1902 | 1     | 220x35      | 130x25           |
|      | 2     | 210x55      | 130x35           |
|      | 3     | 260x55      | 170x35           |
|      | 4     | 250x80      | 170x65           |
|      | 5     | 320x55      | 230x35           |
|      | 6     | 390x75      | 300x60           |
|      | 7     | 330x90      | 250x70           |
|      | 8     | 370x105     | 285x90           |

**Aufhänger für Steckschlüsseleinsätze**

Hang up for sockets

Porte outils pour douilles

Colgador para vasos

**No. 1904****Antrieb**

Drive

Excitation

Guia

**Aufhängekarte für Schraubenschlüssel**

Hang up card for spanners

Carte pour pendre des clés

Carton con enganche para llaves

**No. 1901-1****für Doppelmaulschlüssel**

for open end spanners / pour clés plates doubles

para llaves fijas

**No. 1901-2****für Doppelringschlüssel**

for double ring spanners / pour clés polygonales

Para llaves acodadas

**No. 1901-3****für Gabelringschlüssel**

for combination spanners / pour clés mixte

Para llaves combinadas

**No. 1905****Antrieb**

Drive

Excitation

Guia

**No. 1906****Antrieb**

Drive

Excitation

Guia

**No. 1903****Antrieb**

Drive

Excitation

Guia



### Aufhänger für Zangen

Hang up for pliers

Presentoir de pinces

Gancho colgador para alicates



| No.  |  |  |  |
|------|--|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1907 |  | 220                                                                               |                                                                                   |

### Leiste für Haken,

auch zum Hängen direkt auf Lochwände

Border for hooks also for direct hang up on panels

Listel pour crochets, aussi pour pendre aux panneaux

Listón para ganchos, se puede utilizar directamente en el expositor



| No.  | mm  |  |  |
|------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1921 | 330 | 275                                                                                 |                                                                                     |

### Aufhänger für Hämmer

Hang up for Hammers

Presentoir de marteaux

Gancho colgador para martillos



| No.  |  |  |  |
|------|--|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1910 |  | 300                                                                                 |                                                                                     |

### Haken mit Etiketten Halter

Hook with hang up for labels

Crochet avec porteur d'etiquettes

Gancho para colgar, con portador de etiqueta



| No.  | mm  |  |  |
|------|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1922 | 240 | 70                                                                                    |                                                                                       |

### Metall Rack mit padre Schriftzug

Metal display rack

display de métal

Percha expositor de metal



| No.  | mm          |  |  |
|------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1920 | 330x420x400 | 1510                                                                                |                                                                                     |

### Universal Aufhängebox für Bits

Universal Box for Bits

Box pour Bits universel

Caja para Bits universal



| No.  | No. | L x B x H |
|------|-----|-----------|
| 1923 | 1   | 55x40x12  |
|      | 2   | 57x75x20  |



**SCHLÜSSELPROGRAMM**  
SPANNER PROGRAMME

**02**

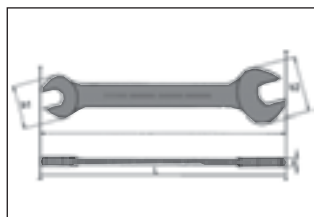


**Doppel-Maulschlüssel  
Industrierausführung,  
matt verchromt**

Double-ended open-jawed  
spanners, matt chrome-plated  
Clés plates doubles, à  
ouvertures inégales  
Llaves fijas, bocas abiertas  
Industrial, cromada mate

DIN 3110

Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208 verchromt



**Doppel-Maulschlüssel AF  
Industrierausführung,  
matt verchromt**

Double-ended open-jawed  
spanners AF, matt chrome-plated  
Clés plates doubles AF, à  
ouvertures inégales  
Llaves fijas AF, bocas abiertas  
Industrial, cromada mate

| No.            | AF                  | L   | a   | b1   | b2   |     |    |
|----------------|---------------------|-----|-----|------|------|-----|----|
| <b>800 CAF</b> | <b>1/4x5/16</b>     | 130 | 3,9 | 17,7 | 20,8 | 25  | 10 |
|                | <b>5/16x3/8</b>     | 140 | 3,9 | 20,8 | 22,9 | 35  | 10 |
|                | <b>3/8x7/16</b>     | 156 | 4,8 | 23,9 | 26,9 | 45  | 10 |
|                | <b>7/16x1/2</b>     | 172 | 5,3 | 28   | 31   | 85  | 10 |
|                | <b>1/2x9/16</b>     | 190 | 5,7 | 32,5 | 34,9 | 95  | 10 |
|                | <b>9/16x5/8</b>     | 190 | 5,7 | 32,5 | 34,9 | 103 | 10 |
|                | <b>19/32x11/16</b>  | 204 | 5,9 | 36,1 | 39,2 | 132 | 10 |
|                | <b>5/8x11/16</b>    | 204 | 5,9 | 36,1 | 39,2 | 132 | 10 |
|                | <b>11/16x3/4</b>    | 223 | 6,5 | 40,2 | 42,3 | 174 | 10 |
|                | <b>5/8x3/4</b>      | 223 | 6,5 | 40,2 | 42,3 | 174 | 10 |
|                | <b>3/4x25/32</b>    | 236 | 6,8 | 44,9 | 48,4 | 230 | 10 |
|                | <b>3/4x7/8</b>      | 236 | 6,8 | 44,9 | 48,4 | 230 | 10 |
|                | <b>13/16x7/8</b>    | 236 | 6,8 | 44,9 | 48,4 | 230 | 10 |
|                | <b>15/16x1"</b>     | 265 | 7,8 | 51,6 | 52,5 | 315 | 10 |
|                | <b>1"x1.1/8</b>     | 280 | 8,1 | 55,2 | 61,3 | 405 | 10 |
|                | <b>1.1/16x1.1/4</b> | 302 | 8,6 | 59,7 | 69,9 | 440 | 5  |

| No.           | mm           | L   | a    | b1   | b2   |      |    |
|---------------|--------------|-----|------|------|------|------|----|
| <b>800 CI</b> | <b>5,5x7</b> | 122 | 3,6  | 15,7 | 17,7 | 17   | 10 |
|               | <b>6x7</b>   | 122 | 3,6  | 15,7 | 17,7 | 20   | 10 |
|               | <b>8x9</b>   | 140 | 3,9  | 20,8 | 22,9 | 40   | 10 |
|               | <b>8x10</b>  | 140 | 3,9  | 20,8 | 22,9 | 40   | 10 |
|               | <b>9x10</b>  | 140 | 3,9  | 20,8 | 22,9 | 45   | 10 |
|               | <b>9x11</b>  | 156 | 4,8  | 23,9 | 26,9 | 45   | 10 |
|               | <b>10x11</b> | 156 | 4,8  | 23,9 | 26,9 | 50   | 10 |
|               | <b>10x12</b> | 156 | 4,8  | 23,9 | 26,9 | 50   | 10 |
|               | <b>10x13</b> | 172 | 5,3  | 24   | 30   | 65   | 10 |
|               | <b>11x13</b> | 172 | 5,3  | 28   | 31   | 70   | 10 |
|               | <b>12x13</b> | 172 | 5,3  | 28   | 31   | 70   | 10 |
|               | <b>10x14</b> | 172 | 5,3  | 28   | 31   | 65   | 10 |
|               | <b>11x14</b> | 172 | 5,3  | 28   | 31   | 75   | 10 |
|               | <b>12x14</b> | 172 | 5,3  | 28   | 31   | 75   | 10 |
|               | <b>13x14</b> | 190 | 5,7  | 32,5 | 34,9 | 80   | 10 |
|               | <b>13x15</b> | 190 | 5,7  | 32,5 | 34,9 | 95   | 10 |
|               | <b>14x15</b> | 190 | 5,7  | 32,5 | 34,9 | 100  | 10 |
|               | <b>13x17</b> | 204 | 5,9  | 32,1 | 38,2 | 125  | 10 |
|               | <b>14x17</b> | 204 | 5,9  | 32,1 | 38,2 | 120  | 10 |
|               | <b>16x17</b> | 204 | 5,9  | 36,1 | 39,2 | 130  | 10 |
|               | <b>16x18</b> | 204 | 5,9  | 36,1 | 39,2 | 125  | 10 |
|               | <b>17x19</b> | 223 | 6,5  | 40,2 | 42,3 | 170  | 10 |
|               | <b>18x19</b> | 223 | 6,5  | 40,2 | 42,3 | 165  | 10 |
|               | <b>18x21</b> | 236 | 6,9  | 40,2 | 46,4 | 200  | 10 |
|               | <b>17x22</b> | 236 | 6,8  | 44,9 | 48,4 | 200  | 10 |
|               | <b>19x22</b> | 236 | 6,8  | 44,9 | 48,4 | 210  | 10 |
|               | <b>20x22</b> | 236 | 6,8  | 44,9 | 48,4 | 220  | 10 |
|               | <b>21x23</b> | 250 | 7,3  | 47,4 | 51,5 | 260  | 10 |
|               | <b>19x24</b> | 250 | 7,3  | 42,3 | 52,5 | 250  | 10 |
|               | <b>21x24</b> | 250 | 7,3  | 47,4 | 51,5 | 250  | 5  |
|               | <b>22x24</b> | 250 | 7,3  | 47,4 | 51,5 | 250  | 5  |
|               | <b>24x26</b> | 265 | 7,8  | 51,6 | 52,5 | 330  | 5  |
|               | <b>22x27</b> | 265 | 7,8  | 48,4 | 58,6 | 320  | 5  |
|               | <b>24x27</b> | 265 | 7,8  | 51,6 | 52,5 | 350  | 5  |
|               | <b>25x28</b> | 280 | 8,1  | 55,2 | 61,3 | 400  | 5  |
|               | <b>24x30</b> | 280 | 8,1  | 52,5 | 64,8 | 395  | 5  |
|               | <b>27x29</b> | 280 | 8,1  | 58,6 | 64,8 | 460  | 5  |
|               | <b>27x30</b> | 280 | 8,1  | 58,6 | 64,4 | 475  | 5  |
|               | <b>27x32</b> | 302 | 8,6  | 59,7 | 69,9 | 500  | 5  |
|               | <b>30x32</b> | 302 | 8,6  | 64,8 | 70,3 | 525  | 5  |
|               | <b>30x34</b> | 302 | 8,6  | 64,8 | 73   | 540  | 5  |
|               | <b>30x36</b> | 326 | 9,5  | 64,8 | 76,7 | 630  | 5  |
|               | <b>32x36</b> | 326 | 9,5  | 69,5 | 76,7 | 630  | 5  |
|               | <b>36x41</b> | 360 | 10   | 76,7 | 84,8 | 930  | 5  |
|               | <b>41x46</b> | 400 | 11   | 78,2 | 87,1 | 1420 | 2  |
|               | <b>46x50</b> | 450 | 11,7 | 88,2 | 97,2 | 1530 | 2  |
|               | <b>55x60</b> | 565 | 16,5 | 110  | 120  | 3000 | 1  |

**Sätze im Karton**

Sets in boxes

Jeux in carton

Juego en caja de cartón



| No.           | mm                                                                             |  |
|---------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 800 CI 6      | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17                                           | 370                                                                               |
| 800 CI 7      | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 19x22                                    | 625                                                                               |
| 800 CI 8      | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22                             | 835                                                                               |
| 800 CI 10     | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27               | 1370                                                                              |
| 800 CI 10/1   | 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 30x32             | 1390                                                                              |
| 800 CI 12     | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 | 2200                                                                              |
| 800 CI/ISO 7  | 5,5x7, 8x10, 11x13, 16x18, 21x24, 27x30, 30x34                                 | 1500                                                                              |
| 800 CI/ISO 12 | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 | 2400                                                                              |

**Sätze im Karton**

Sets in boxes

Jeux in carton

Juego en caja de cartón



| No.        | AF                                                                                                                             |  |
|------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 800 CAF 5  | 1/4x5/16, 3/8x7/16, 1/2x9/16, 5/8x3/4, 13/16x7/8                                                                               | 520                                                                                 |
| 800 CAF 6  | 1/4x5/16, 3/8x7/16, 1/2x9/16, 19/32x11/16, 5/8x3/4, 13/16x7/8                                                                  | 700                                                                                 |
| 800 CAF 7  | 1/4x5/16, 3/8x7/16, 1/2x9/16, 5/8x3/4, 13/16x7/8, 15/16x1", 1.1/16x1.1/4                                                       | 1300                                                                                |
| 800 CAF 8  | 1/4x5/16, 3/8x7/16, 1/2x9/16, 19/32x11/16, 5/8x3/4, 13/16x7/8, 15/16x1", 1.1/16x1.1/4                                          | 1450                                                                                |
| 800 CAF 9  | 1/4x5/16, 3/8x7/16, 1/2x9/16, 9/16x5/8, 19/32x11/16, 5/8x11/16, 3/4x25/32, 3/4x7/8, 1.1/16x1.1/4                               | 1300                                                                                |
| 800 CAF 12 | 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, 3/4x7/8, 15/16x1", 1.1/16x1.1/4 | 1700                                                                                |

**Sätze in umweltfreundlicher Papp-Verpackung**

Sets in ecological beneficial carton packing

Jeux en emballage biodégradable

Juego en caja de carton ecologico



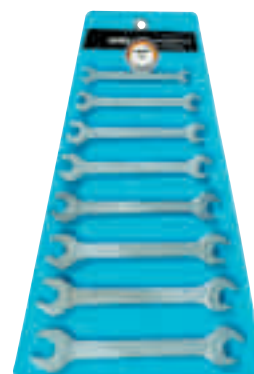
| No.       | mm                                                 |  |
|-----------|----------------------------------------------------|-------------------------------------------------------------------------------------|
| 800 CIP 6 | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17               | 430                                                                                 |
| 800 CIP 7 | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 19x22        | 650                                                                                 |
| 800 CIP 8 | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 19x22 | 865                                                                                 |

**Sätze in Tasche**

Sets in wallet

Jeux en trousse

Juego en bolsa



| No.        | mm                                                                             |  |
|------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 800 CIT 6  | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17                                           | 430                                                                                   |
| 800 CIT 7  | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 19x22                                    | 650                                                                                   |
| 800 CIT 8  | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 19x22                             | 865                                                                                   |
| 800 CIT 12 | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 19x22, 21x23, 24x27, 25x28, 30x32 | 2200                                                                                  |

| No.         | AF                                                                                                                             |  |
|-------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 800 CAFT 6  | 1/4x5/16, 3/8x7/16, 1/2x9/16, 19/32x11/16, 5/8x3/4, 13/16x7/8                                                                  | 430                                                                                   |
| 800 CAFT 7  | 1/4x5/16, 3/8x7/16, 1/2x9/16, 5/8x3/4, 13/16x7/8, 15/16x1", 1.1/16x1.1/4                                                       | 700                                                                                   |
| 800 CAFT 8  | 1/4x5/16, 3/8x7/16, 1/2x9/16, 19/32x11/16, 5/8x3/4, 13/16x7/8, 15/16x1", 1.1/16x1.1/4                                          | 1550                                                                                  |
| 800 CAFT 12 | 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, 3/4x7/8, 15/16x1", 1.1/16x1.1/4 | 2200                                                                                  |

### Plastikhalter

Plastic Holder  
Support plastique  
Petaca de Plastico



### Plastikhalter

Plastic Holder  
Support plastique  
Petaca de Plastico



| No.      |             |  |  |
|----------|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 800 H 8  | Von 6-22 mm | 38                                                                                | 10                                                                                |
| 800 H 12 | Von 6-32 mm | 56                                                                                | 10                                                                                |

| No.       |             |  |  |
|-----------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 800 HK 6  | Von 6-17 mm | 30                                                                                  | 10                                                                                  |
| 800 HK 9  | Von 6-23 mm | 45                                                                                  | 10                                                                                  |
| 800 HK 11 | Von 6-32 mm | 70                                                                                  | 10                                                                                  |

### Sätze im Plastikhalter

Sets in Plastic Holder  
Jeux en support plastique  
Juego en Petaca de Plastico



### Sätze im Plastikhalter

Sets in Plastic Holder  
Jeux en support plastique  
Juego en Petaca de Plastico



| No.        | mm                                                                             |  |
|------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 800 CIH 8  | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22                             | 865                                                                                 |
| 800 CIH 12 | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 19x22, 21x23, 24x27, 25x28, 30x32 | 2200                                                                                |

| No.         | mm                                                                      |  |
|-------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 800 CIHK 6  | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17                                    | 400                                                                                   |
| 800 CIHK 9  | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23,              | 1170                                                                                  |
| 800 CIHK 11 | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 30x32 | 1965                                                                                  |





**Doppel-Ringschlüssel  
Industrierausführung,  
matt verchromt**Cranked double-ended ring spanners,  
matt chrome-platedClés à oeil multiplan coudées doubles,  
chromée mat

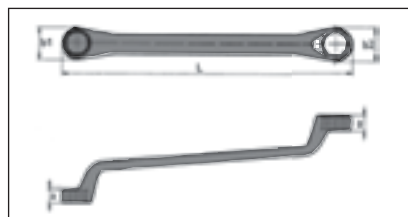
Llaves acodadas estrella cerradas

Industrial, cromada mate

DIN 838

Chrom Vanadium Stahl 31 Cr V 3

W. - No. 1.2208 verchromt

**Doppel-Ringschlüssel AF  
Industrierausführung,  
matt verchromt**Cranked double-ended ring spanners AF,  
matt chrome-platedClés à oeil multiplan coudées doubles AF,  
chromée mat

Llaves acodadas estrella cerradas AF

Industrial, cromada mate



| No.    | AF           | L   | a1   | a2   | b1   | b2   |     |    |
|--------|--------------|-----|------|------|------|------|-----|----|
| 802 AF | 1/4x5/16     | 170 | 6,8  | 6,4  | 13,5 | 12,1 | 40  | 10 |
|        | 5/16x3/8     | 180 | 7,3  | 6,8  | 15,1 | 12,1 | 60  | 10 |
|        | 3/8x7/16     | 195 | 8,2  | 7,7  | 18,1 | 16,6 | 60  | 10 |
|        | 7/16x1/2     | 216 | 9,2  | 8,7  | 21,2 | 20,0 | 100 | 10 |
|        | 1/2x9/16     | 238 | 9,6  | 9,2  | 24,0 | 21,1 | 120 | 10 |
|        | 9/16x5/8     | 238 | 10,1 | 9,6  | 25,0 | 22,4 | 140 | 10 |
|        | 19/32x11/16  | 262 | 10,8 | 10,5 | 27,5 | 25,7 | 180 | 10 |
|        | 5/8x11/16    | 262 | 10,8 | 10,5 | 27,5 | 25,7 | 200 | 10 |
|        | 11/16x3/4    | 290 | 11,4 | 11,1 | 30,0 | 28,0 | 240 | 10 |
|        | 5/8x3/4      | 290 | 11,4 | 10,5 | 30,0 | 25,7 | 240 | 10 |
|        | 3/4x25/32    | 290 | 11,8 | 11,4 | 32,2 | 30,0 | 240 | 10 |
|        | 3/4x7/8      | 320 | 12,5 | 11,4 | 34,3 | 29,8 | 280 | 10 |
|        | 13/16x7/8    | 320 | 12,5 | 11,8 | 34,3 | 32,0 | 280 | 10 |
|        | 15/16x1"     | 337 | 14,3 | 13,2 | 41,0 | 37,3 | 440 | 5  |
|        | 1.1/16x1.1/4 | 346 | 15,5 | 13,2 | 45,9 | 37,3 | 600 | 5  |

| No.    | mm    | L   | a1   | a2   | b1    | b2    |      |    |
|--------|-------|-----|------|------|-------|-------|------|----|
| 802 CI | 5,5x7 | 165 | 6,4  | 5,9  | 12    | 10,5  | 40   | 10 |
|        | 6x7   | 165 | 6,4  | 5,9  | 12    | 10,5  | 40   | 10 |
|        | 8x9   | 180 | 7,3  | 6,8  | 15,1  | 13,6  | 60   | 10 |
|        | 8x10  | 180 | 7,7  | 6,8  | 16,6  | 13,6  | 60   | 10 |
|        | 9x10  | 180 | 7,7  | 7,3  | 16,6  | 15,1  | 80   | 10 |
|        | 9x11  | 195 | 8,2  | 7,3  | 18,1  | 15,1  | 60   | 10 |
|        | 10x11 | 195 | 8,2  | 7,7  | 18,1  | 16,6  | 80   | 10 |
|        | 10x12 | 216 | 9,2  | 7,7  | 21,2  | 16,7  | 80   | 10 |
|        | 10x13 | 216 | 9,2  | 7,7  | 21,2  | 16,7  | 100  | 10 |
|        | 11x13 | 216 | 9,2  | 8,7  | 21,2  | 20,0  | 120  | 10 |
|        | 12x13 | 216 | 9,2  | 8,7  | 21,2  | 20,0  | 120  | 10 |
|        | 10x14 | 216 | 9,6  | 7,7  | 22,6  | 16,7  | 120  | 10 |
|        | 11x14 | 216 | 9,6  | 8,7  | 22,6  | 20,0  | 120  | 10 |
|        | 12x14 | 216 | 9,6  | 8,7  | 22,6  | 20,0  | 120  | 10 |
|        | 13x14 | 238 | 9,6  | 9,2  | 24,0  | 21,1  | 140  | 10 |
|        | 13x15 | 238 | 9,6  | 9,2  | 24,0  | 21,1  | 140  | 10 |
|        | 14x15 | 238 | 10,1 | 9,6  | 25    | 22,4  | 140  | 10 |
|        | 13x17 | 262 | 10,8 | 9,6  | 27,5  | 22,4  | 180  | 10 |
|        | 14x17 | 262 | 10,8 | 9,6  | 27,5  | 22,4  | 200  | 10 |
|        | 16x17 | 262 | 10,8 | 10,5 | 27,5  | 25,7  | 200  | 10 |
|        | 16x18 | 262 | 11,1 | 10,5 | 28,0  | 25,7  | 200  | 10 |
|        | 17x19 | 290 | 11,4 | 11,1 | 30,0  | 28,0  | 220  | 10 |
|        | 18x19 | 290 | 11,4 | 11,1 | 30,0  | 28,0  | 240  | 10 |
|        | 18x21 | 290 | 12,2 | 11,1 | 32,7  | 28,0  | 300  | 10 |
|        | 17x22 | 320 | 11,8 | 11,4 | 32,2  | 30,0  | 320  | 10 |
|        | 19x22 | 320 | 12,5 | 11,4 | 34,3  | 29,8  | 320  | 10 |
|        | 20x22 | 320 | 12,5 | 11,8 | 34,3  | 32,0  | 320  | 10 |
|        | 21x23 | 325 | 12,9 | 12,2 | 35,6  | 32,7  | 340  | 10 |
|        | 19x24 | 325 | 13,2 | 11,4 | 37,3  | 29,8  | 340  | 10 |
|        | 21x24 | 325 | 13,2 | 12,2 | 37,3  | 32,7  | 340  | 10 |
|        | 22x24 | 325 | 13,2 | 12,5 | 37,3  | 34,3  | 340  | 10 |
|        | 22x27 | 337 | 14,3 | 12,5 | 41,0  | 34,3  | 420  | 10 |
|        | 24x26 | 337 | 14,3 | 13,2 | 41,0  | 37,3  | 420  | 10 |
|        | 24x27 | 337 | 14,3 | 13,2 | 41,0  | 37,3  | 440  | 10 |
|        | 24x30 | 346 | 15,5 | 13,2 | 40,8  | 37,3  | 480  | 10 |
|        | 25x28 | 346 | 14,7 | 13,6 | 43,3  | 39,5  | 460  | 10 |
|        | 27x29 | 346 | 15,1 | 14,3 | 45,4  | 40,8  | 460  | 10 |
|        | 27x30 | 346 | 15,1 | 14,3 | 45,4  | 40,8  | 465  | 10 |
|        | 27x32 | 365 | 15,0 | 16,0 | 41,0  | 47,0  | 600  | 10 |
|        | 30x32 | 360 | 16,0 | 15,5 | 50,0  | 45,9  | 620  | 10 |
|        | 30x34 | 410 | 15,0 | 17,0 | 45,0  | 53,0  | 760  | 10 |
|        | 30x36 | 420 | 15,0 | 17,0 | 45,0  | 53,0  | 740  | 10 |
|        | 32x36 | 420 | 16,0 | 17,0 | 48,0  | 54,0  | 800  | 5  |
|        | 36x41 | 460 | 17,0 | 19,0 | 54,0  | 61,0  | 1200 | 3  |
|        | 41x46 | 505 | 20,0 | 21,0 | 62,0  | 70,0  | 1500 | 2  |
|        | 46x50 | 530 | 21,0 | 22,0 | 69,0  | 74,0  | 1500 | 2  |
|        | 55x60 | 630 | 25,0 | 26,0 | 86,0  | 94,0  | 3200 | 1  |
|        | 65x70 | 690 | 27,0 | 28,0 | 103,0 | 110,0 | 4700 | 1  |
|        | 75x80 | 770 | 29,0 | 30,0 | 121,0 | 127,0 | 7400 | 1  |
|        | 85x90 | 770 | 29,0 | 30,0 | 121,0 | 127,0 | 7200 | 1  |

## Sätze im Karton

Sets in boxes / Jeux in carton / Juego en caja de cartón



| No.           | mm                                                                             |  |
|---------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 802 CI 6      | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17                                           | 790                                                                               |
| 802 CI 7      | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 19x22                                    | 1130                                                                              |
| 802 CI 8      | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19,                                   | 14202                                                                             |
| 802 CI 10     | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27               | 2290                                                                              |
| 802 CI 10/1   | 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 30x32             | 2520                                                                              |
| 802 CI 12     | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 | 3620                                                                              |
| 802 CI/ISO 7  | 5,5x7, 8x10, 11x13, 16x18, 21x24, 27x30, 30x34                                 | 2100                                                                              |
| 802 CI/ISO 12 | 6x7, 8x9, 10x11, 12x13, 14x15, 16x18, 17x19, 20x22, 21x23, 24x26, 27x32, 30x34 | 3250                                                                              |

## Sätze im Karton

Sets in boxes / Jeux in carton / Juego en caja de cartón



| No.        | AF                                                                                                                             |  |
|------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 802 CAF 5  | 1/4x5/16, 3/8x7/16, 1/2x9/16, 5/8x3/4, 13/16x7/8                                                                               | 520                                                                                 |
| 802 CAF 6  | 1/4x5/16, 3/8x7/16, 1/2x9/16, 19/32x11/16, 5/8x3/4, 13/16x7/8                                                                  | 700                                                                                 |
| 802 CAF 7  | 1/4x5/16, 3/8x7/16, 1/2x9/16, 5/8x3/4, 13/16x7/8, 15/16x1", 1.1/16x1.1/4                                                       | 1300                                                                                |
| 802 CAF 8  | 1/4x5/16, 3/8x7/16, 1/2x9/16, 19/32x11/16, 5/8x3/4, 13/16x7/8, 15/16x1", 1.1/16x1.1/4                                          | 1450                                                                                |
| 802 CAF 9  | 1/4x5/16, 3/8x7/16, 1/2x9/16, 9/16x5/8, 19/32x11/16, 5/8x11/16, 3/4x25/32, 3/4x7/8, 1.1/16x1.1/4                               | 1300                                                                                |
| 802 CAF 12 | 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, 3/4x7/8, 15/16x1", 1.1/16x1.1/4 | 1700                                                                                |

## Plastikhalter

Plastic Holder  
Support plastique  
Petaca de Plastico



| No.     |             |  |  |
|---------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 803 H 6 | Von 6-17 mm | 40                                                                                  | 10                                                                                  |
| 803 H 9 | Von 6-23 mm | 45                                                                                  | 10                                                                                  |

## Sätze in umweltfreundlicher Papp-Verpackung

Sets in ecological beneficial carton packing  
Jeux en emballage biodegradable  
Juego en caja de carton ecologico



| No.       | mm                                                 |  |
|-----------|----------------------------------------------------|-------------------------------------------------------------------------------------|
| 802 CIP 6 | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17               | 880                                                                                 |
| 802 CIP 7 | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 19x22        | 1200                                                                                |
| 802 CIP 8 | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 19x22 | 1280                                                                                |

## Sätze in Tasche

Sets in wallet  
Jeux en trousse  
Juego en bolsa

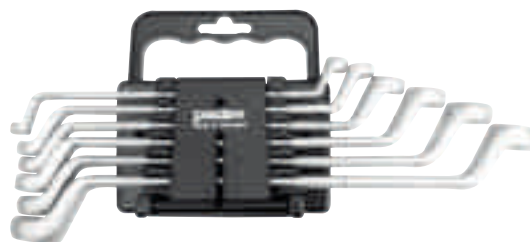


| No.        | mm                                                                             |  |
|------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 802 CIT 6  | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17                                           | 430                                                                                   |
| 802 CIT 7  | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 19x22                                    | 650                                                                                   |
| 802 CIT 8  | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 19x22                             | 865                                                                                   |
| 802 CIT 12 | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 19x22, 21x23, 24x27, 25x28, 30x32 | 2200                                                                                  |

| No.        | AF                                                                                    |  |
|------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 802 CAFT 6 | 1/4x5/16, 3/8x7/16, 1/2x9/16, 19/32x11/16, 5/8x3/4, 13/16x7/8                         | 1165                                                                                  |
| 802 CAFT 8 | 1/4x5/16, 3/8x7/16, 1/2x9/16, 5/8x3/4, 13/16x7/8, 15/16x1", 1.1/16x1.1/4, 19/32x11/16 | 2330                                                                                  |

## Sätze im Plastikhalter

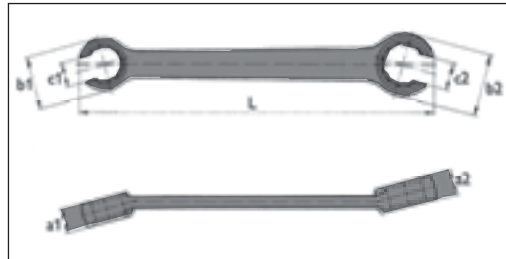
Sets in Plastic Holder  
Jeux en support plastique  
Juego en Petaca de Plastico



| No.       | mm                                                         |  |
|-----------|------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 802 CIH 6 | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17                       | 820                                                                                   |
| 802 CIH 9 | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, | 1820                                                                                  |

## Offene Ringschlüssel, verchromt

Open ring spanners,  
chrome plated  
Clés à oeil multiplan,  
ouvert chromée mat  
Llaves estrella abierta,  
cromada mate



DIN 3118

Chrom Vanadium Stahl 31 Cr V 3

W. - No. 1.2208 verchromt

| No.    | ○/○ | mm    | L   | a1   | a2   | b1   | b2   | c1   | c2   | g   | g  |
|--------|-----|-------|-----|------|------|------|------|------|------|-----|----|
| 805 CI | ○   | 8x10  | 140 | 7    | 7,6  | 18   | 20   | 6,3  | 7,5  | 48  | 10 |
|        | ○   | 9x11  | 150 | 8    | 9    | 19,5 | 22   | 7    | 8,6  | 48  | 10 |
|        | ○   | 10x11 | 150 | 8    | 9    | 19,5 | 22   | 7    | 8,8  | 67  | 10 |
|        | ○   | 10x12 | 150 | 8    | 9    | 19,5 | 23   | 7,4  | 9,3  | 67  | 10 |
|        | ○   | 11x13 | 165 | 8    | 10   | 21   | 25   | 9    | 10   | 100 | 10 |
|        | ○   | 12x14 | 170 | 9    | 10,8 | 24   | 27,5 | 9,4  | 11,3 | 100 | 10 |
|        | ○   | 13x14 | 170 | 10   | 10,8 | 25,3 | 27,5 | 10,2 | 11,3 | 100 | 10 |
|        | ○   | 14x17 | 200 | 10,5 | 11   | 27   | 30   | 11,3 | 14,3 | 135 | 10 |
|        | ○   | 17x19 | 210 | 12   | 13,5 | 31   | 34   | 14   | 15   | 165 | 10 |
|        | ○   | 19x22 | 215 | 13,5 | 15   | 34   | 40   | 15,3 | 17   | 190 | 10 |
|        | ○   | 22x24 | 235 | 15   | 16   | 38   | 41   | 17   | 18,5 | 240 | 5  |
|        | ○   | 24x27 | 255 | 16   | 17   | 45   | 48   | 18,5 | 20,5 | 325 | 5  |
|        | ○   | 25x28 | 255 | 16   | 17   | 45   | 48   | 19   | 21   | 405 | 5  |
|        | ○   | 30x32 | 280 | 20   | 22   | 49   | 51   | 22   | 23,5 | 465 | 5  |



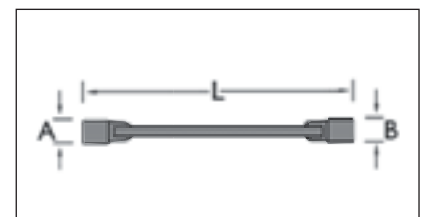
## Doppel-Gelenk-Schlüssel

Socket wrenches flexible bihexagon  
Clés à douilles articulées, à 12 pans  
Llave vaso flexible con 12 cantos



| No. | mm    | L   | A    | B    | g   | g  |
|-----|-------|-----|------|------|-----|----|
| 825 | 8x9   | 198 | 12   | 13,5 | 90  | 10 |
|     | 10x11 | 213 | 14,5 | 16   | 108 | 10 |
|     | 12x13 | 227 | 17,5 | 19   | 162 | 10 |
|     | 14x15 | 243 | 20   | 21,5 | 230 | 10 |
|     | 16x17 | 253 | 22   | 24   | 296 | 10 |
|     | 18x19 | 277 | 25   | 26   | 388 | 10 |
|     | 20x22 | 292 | 28   | 30   | 528 | 10 |

Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208 verchromt



## Sätze im Karton

Sets in boxes / Jeux in carton / Juego en caja de cartón

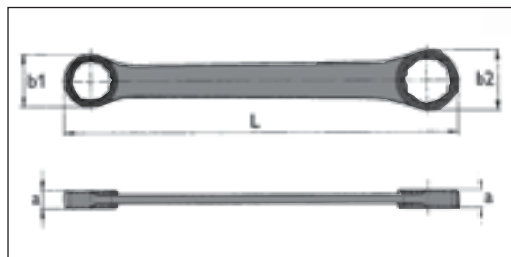
| No.     | mm                                            | g    |
|---------|-----------------------------------------------|------|
| 825 K 7 | 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22 | 1560 |





**Doppelringschlüssel,  
gerade Ausführung**  
Double ended ring spanners  
Clés à oeil multiplan doubles  
Llave acodada estrella plana

DIN 837  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208 verchromt



| No. | mm    | L   | a    | b1   | b2   |     |    |
|-----|-------|-----|------|------|------|-----|----|
| 830 | 6x7   | 98  | 4,5  | 10   | 11,5 | 12  | 10 |
|     | 8x9   | 113 | 5,2  | 13   | 14,5 | 20  | 10 |
|     | 8x10  | 115 | 5,2  | 13   | 16   | 20  | 10 |
|     | 9x11  | 130 | 6    | 14,5 | 17   | 25  | 10 |
|     | 10x11 | 130 | 6    | 16   | 17   | 30  | 10 |
|     | 11x13 | 148 | 6,5  | 17   | 20,5 | 40  | 10 |
|     | 12x13 | 148 | 6,5  | 19   | 20,5 | 45  | 10 |
|     | 12x14 | 142 | 7    | 18,4 | 20,8 | 40  | 10 |
|     | 13x15 | 160 | 6,5  | 20,5 | 23   | 45  | 10 |
|     | 14x15 | 160 | 7    | 21   | 23   | 60  | 10 |
|     | 13x17 | 168 | 7,7  | 20,5 | 25,5 | 65  | 10 |
|     | 14x17 | 170 | 7,7  | 21,5 | 25,5 | 70  | 10 |
|     | 16x17 | 170 | 7,7  | 24,5 | 25,5 | 80  | 10 |
|     | 17x19 | 185 | 8,5  | 25,5 | 28   | 95  | 10 |
|     | 18x19 | 185 | 8,5  | 27   | 28   | 100 | 10 |
|     | 19x22 | 200 | 9,5  | 28   | 32,5 | 125 | 10 |
|     | 20x22 | 200 | 9,5  | 29,5 | 32,5 | 130 | 10 |
|     | 21x23 | 215 | 10   | 30,5 | 33,5 | 155 | 10 |
|     | 22x24 | 233 | 10   | 32,5 | 35,5 | 178 | 10 |
|     | 22x27 | 233 | 10   | 32,5 | 39   | 205 | 10 |
|     | 24x26 | 250 | 11   | 35,5 | 38   | 260 | 10 |
|     | 24x27 | 250 | 11   | 35,5 | 39   | 260 | 5  |
|     | 25x28 | 265 | 11,5 | 36,5 | 41   | 270 | 5  |
|     | 27x32 | 280 | 12,5 | 39   | 46   | 290 | 5  |
|     | 30x32 | 280 | 12,5 | 43   | 46   | 370 | 5  |
|     | 30x36 | 332 | 13,5 | 43   | 51   | 330 | 5  |
|     | 32x36 | 335 | 13,7 | 51   | 59   | 335 | 5  |

**Sätze im Karton**

Sets in boxes  
Jeux in carton  
Juego en caja de cartón



| No.      | mm                                                                             |      |
|----------|--------------------------------------------------------------------------------|------|
| 830 K 6  | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17                                           | 250  |
| 830 K 8  | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22                             | 500  |
| 830 K 12 | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 | 1465 |

**Sätze im Plastikhalter**

Sets in Plastic Holder  
Jeux en support plastique  
Juego en Petaca de Plastico



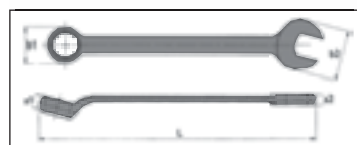
| No.       | mm                                                        |     |
|-----------|-----------------------------------------------------------|-----|
| 830 CIH 6 | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17                      | 280 |
| 830 CIH 9 | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23 | 720 |

**Ring-Maul-Schlüssel, lange Version**

Combination wrenches, long version

Clés mixte, version long

Llaves combinadas, tipo largo



DIN 3113 Form B  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208 verchromt

| No.    | mm | L   | a1   | a2   | b1   | b2   |  |  |
|--------|----|-----|------|------|------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 810 CI | 6  | 110 | 5,5  | 3,7  | 11   | 15,5 | 22                                                                                | 10                                                                                |
|        | 7  | 120 | 6    | 3,7  | 12,5 | 17,5 | 24                                                                                | 10                                                                                |
|        | 8  | 130 | 6,5  | 4,3  | 13,8 | 20   | 30                                                                                | 10                                                                                |
|        | 9  | 140 | 7    | 4,3  | 15   | 21,5 | 36                                                                                | 10                                                                                |
|        | 10 | 150 | 7,5  | 4,7  | 16,5 | 23,5 | 44                                                                                | 10                                                                                |
|        | 11 | 158 | 8    | 5,1  | 18   | 25   | 54                                                                                | 10                                                                                |
|        | 12 | 165 | 8,5  | 5,3  | 19,6 | 27   | 68                                                                                | 10                                                                                |
|        | 13 | 175 | 9    | 5,5  | 21,2 | 29,5 | 76                                                                                | 10                                                                                |
|        | 14 | 185 | 9,5  | 5,7  | 23   | 31,5 | 86                                                                                | 10                                                                                |
|        | 15 | 195 | 10   | 6,1  | 24,4 | 33,5 | 102                                                                               | 10                                                                                |
|        | 16 | 210 | 10,5 | 6,5  | 26   | 35,5 | 120                                                                               | 10                                                                                |
|        | 17 | 225 | 11   | 6,9  | 27,6 | 37   | 140                                                                               | 10                                                                                |
|        | 18 | 240 | 11,5 | 7,3  | 28,8 | 40   | 160                                                                               | 10                                                                                |
|        | 19 | 255 | 12   | 7,7  | 30,5 | 42,5 | 180                                                                               | 10                                                                                |
|        | 20 | 270 | 12,5 | 8,1  | 31,5 | 44   | 200                                                                               | 10                                                                                |
|        | 21 | 285 | 13   | 8,5  | 33   | 45,5 | 240                                                                               | 10                                                                                |
|        | 22 | 290 | 13,5 | 8,9  | 34,5 | 47,5 | 280                                                                               | 10                                                                                |
|        | 23 | 290 | 14,5 | 9,5  | 37   | 52   | 380                                                                               | 10                                                                                |
|        | 24 | 310 | 14,5 | 9,5  | 37   | 52   | 380                                                                               | 5                                                                                 |
|        | 25 | 320 | 15,5 | 10,3 | 39   | 54,5 | 440                                                                               | 5                                                                                 |
|        | 26 | 350 | 15,5 | 10,3 | 39   | 54,5 | 440                                                                               | 5                                                                                 |
|        | 27 | 350 | 16,5 | 11,3 | 42   | 60,5 | 490                                                                               | 5                                                                                 |
|        | 28 | 380 | 16,5 | 11,3 | 42   | 60,5 | 490                                                                               | 5                                                                                 |
|        | 29 | 380 | 17,5 | 12,5 | 45   | 64   | 680                                                                               | 5                                                                                 |
|        | 30 | 380 | 17,5 | 12,5 | 45   | 64   | 680                                                                               | 5                                                                                 |
|        | 32 | 400 | 18,5 | 12,5 | 49   | 66   | 720                                                                               | 5                                                                                 |
|        | 36 | 450 | 22   | 12,5 | 55   | 77   | 1065                                                                              | 1                                                                                 |
|        | 38 | 450 | 22   | 12,5 | 55   | 77   | 1080                                                                              | 1                                                                                 |
|        | 41 | 510 | 24,5 | 13,5 | 60   | 85   | 1260                                                                              | 1                                                                                 |
|        | 46 | 520 | 25,5 | 16   | 66   | 93   | 1700                                                                              | 1                                                                                 |
|        | 50 | 550 | 26,5 | 16,5 | 74   | 104  | 2200                                                                              | 1                                                                                 |
|        | 55 | 600 | 28,3 | 19   | 82   | 112  | 2900                                                                              | 1                                                                                 |
|        | 60 | 650 | 31   | 20   | 90   | 123  | 3600                                                                              | 1                                                                                 |
|        | 65 | 700 | 33   | 22   | 98   | 133  | 4550                                                                              | 1                                                                                 |
|        | 70 | 750 | 35   | 24   | 105  | 143  | 5800                                                                              | 1                                                                                 |
|        | 75 | 800 | 38   | 26   | 110  | 153  | 6650                                                                              | 1                                                                                 |
|        | 80 | 850 | 41   | 28   | 119  | 163  | 8500                                                                              | 1                                                                                 |

**Ring-Maul-Schlüssel AF, lange Version**

Combination wrenches AF, long version

Clés mixte AF, version long

Llaves combinadas AF, tipo largo

| No.    | AF      | L   | a1   | a2   | b1   | b2   |  |  |
|--------|---------|-----|------|------|------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 810 AF | 1/4     | 110 | 5,5  | 3,7  | 11   | 15,5 | 22                                                                                  |                                                                                     |
|        | 5/16    | 130 | 6,5  | 4,3  | 13,8 | 20   | 30                                                                                  |                                                                                     |
|        | 3/8     | 150 | 7,5  | 4,7  | 16,5 | 23,5 | 44                                                                                  |                                                                                     |
|        | 7/16    | 158 | 8    | 5,1  | 18   | 25   | 54                                                                                  |                                                                                     |
|        | 1/2     | 175 | 9    | 5,5  | 21,2 | 29,5 | 76                                                                                  |                                                                                     |
|        | 9/16    | 185 | 9,5  | 5,7  | 23   | 31,5 | 86                                                                                  |                                                                                     |
|        | 5/8     | 210 | 10,5 | 6,5  | 26   | 35,5 | 120                                                                                 |                                                                                     |
|        | 11/16   | 225 | 11   | 6,9  | 27,6 | 37   | 140                                                                                 |                                                                                     |
|        | 3/4     | 255 | 12   | 7,7  | 30,5 | 42,5 | 180                                                                                 |                                                                                     |
|        | 25/32   | 270 | 12,5 | 8,1  | 31,5 | 44   | 200                                                                                 |                                                                                     |
|        | 13/16   | 285 | 13   | 8,5  | 33   | 45,5 | 240                                                                                 |                                                                                     |
|        | 7/8     | 300 | 13,5 | 8,9  | 34,5 | 47,5 | 280                                                                                 |                                                                                     |
|        | 15/16   | 320 | 14,5 | 9,5  | 37   | 52   | 380                                                                                 |                                                                                     |
|        | 1"      | 350 | 15,5 | 10,3 | 39   | 54,5 | 440                                                                                 |                                                                                     |
|        | 1.1/16  | 380 | 16,5 | 11,3 | 42   | 60,5 | 490                                                                                 |                                                                                     |
|        | 1.1/8   | 380 | 16,5 | 11,3 | 42   | 60,5 | 490                                                                                 |                                                                                     |
|        | 1.3/16  | 410 | 17,5 | 12,5 | 45   | 64   | 680                                                                                 |                                                                                     |
|        | 1.1/4   | 380 | 16,5 | 11,3 | 42   | 60,5 | 490                                                                                 |                                                                                     |
|        | 1.5/16  | 430 | 18,5 | 12,5 | 49   | 66   | 720                                                                                 |                                                                                     |
|        | 1.3/8   | 460 | 22   | 12,5 | 55   | 77   | 1065                                                                                |                                                                                     |
|        | 1.7/16  | 461 | 23   | 12,5 | 55   | 77   | 1065                                                                                |                                                                                     |
|        | 1.1/2   | 465 | 22   | 12,5 | 55   | 77   | 1080                                                                                |                                                                                     |
|        | 1.9/16  | 465 | 12,5 | 12,5 | 55   | 77   | 1080                                                                                |                                                                                     |
|        | 1.5/8   | 510 | 13,5 | 13,5 | 60   | 85   | 1260                                                                                |                                                                                     |
|        | 1.11/16 | 510 | 13,5 | 13,5 | 60   | 85   | 1260                                                                                |                                                                                     |
|        | 1.3/4   | 530 | 16   | 16   | 66   | 93   | 1700                                                                                |                                                                                     |
|        | 1.13/16 | 530 | 16   | 16   | 66   | 93   | 1700                                                                                |                                                                                     |
|        | 1.7/8   | 530 | 16   | 16   | 66   | 93   | 1700                                                                                |                                                                                     |
|        | 1.15/16 | 560 | 16,5 | 16,5 | 74   | 104  | 2200                                                                                |                                                                                     |
|        | 2"      | 560 | 16,5 | 16,5 | 74   | 104  | 2200                                                                                |                                                                                     |
|        | 2.1/16  | 560 | 16,5 | 16,5 | 74   | 104  | 2200                                                                                |                                                                                     |
|        | 2.1/8   | 560 | 16,5 | 16,5 | 74   | 104  | 2200                                                                                |                                                                                     |
|        | 2.3/16  | 570 | 19   | 19   | 82   | 112  | 2900                                                                                |                                                                                     |
|        | 2.1/4   | 570 | 19   | 19   | 82   | 112  | 2900                                                                                |                                                                                     |
|        | 2.5/16  | 570 | 19   | 19   | 82   | 112  | 2900                                                                                |                                                                                     |
|        | 2.3/8   | 660 | 20   | 20   | 90   | 123  | 3600                                                                                |                                                                                     |
|        | 2.7/16  | 660 | 20   | 20   | 90   | 123  | 3600                                                                                |                                                                                     |
|        | 2.1/2   | 710 | 22   | 22   | 98   | 133  | 4550                                                                                |                                                                                     |
|        | 2.9/16  | 710 | 22   | 22   | 98   | 133  | 4550                                                                                |                                                                                     |
|        | 2.3/4   | 760 | 24   | 24   | 105  | 143  | 5800                                                                                |                                                                                     |
|        | 3"      | 810 | 26   | 26   | 110  | 153  | 6650                                                                                |                                                                                     |
|        | 3.1/8   | 860 | 28   | 28   | 119  | 163  | 8500                                                                                |                                                                                     |
|        | 3.1/4   | 860 | 28   | 28   | 119  | 163  | 8500                                                                                |                                                                                     |

### Sätze im Karton

Sets in boxes

Jeux in carton

Juego en caja de cartón



| No.          | mm                                                                                             |  |
|--------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 810 CIK 6    | 8, 10, 12, 13, 14, 17                                                                          | 420                                                                               |
| 810 CIK 7    | 8, 10, 12, 13, 14, 17, 19                                                                      | 620                                                                               |
| 810 CIK 8    | 8, 10, 12, 13, 14, 17, 19, 22                                                                  | 920                                                                               |
| 810 CIK 12   | 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19, 22                                                     | 1000                                                                              |
| 810 CIK 12/1 | 8, 10, 12, 13, 14, 17, 19, 22, 24, 27, 30, 32                                                  | 3260                                                                              |
| 810 CIK 17   | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22                                 | 1940                                                                              |
| 810 CIK 25   | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32 | 5960                                                                              |

### Sätze in umweltfreundlicher Papp-Verpackung

Sets in ecological beneficial carton packing

Jeux en emballage biodegradable

Juego en caja de carton ecologico



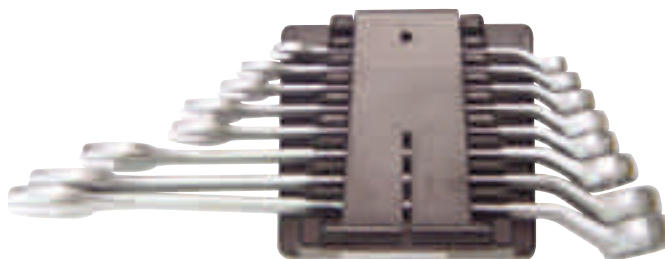
| No.       | mm                            |  |
|-----------|-------------------------------|-------------------------------------------------------------------------------------|
| 810 CIP 7 | 8, 10, 12, 13, 14, 17, 19     | 740                                                                                 |
| 810 CIP 8 | 8, 10, 12, 13, 14, 17, 19, 22 | 1020                                                                                |

### Sätze im Plastikhalter

Sets in Plastic Holder

Jeux en support plastique

Juego en Petaca de Plastico



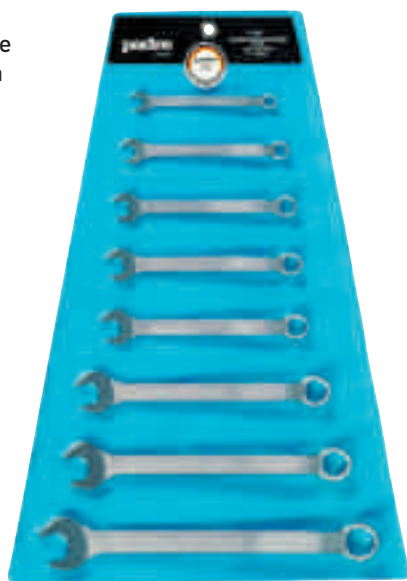
| No.        | mm                                      |  |
|------------|-----------------------------------------|---------------------------------------------------------------------------------------|
| 810 CIH 6  | 8, 10, 12, 13, 14, 17                   | 500                                                                                   |
| 810 CIH 9  | 8, 10, 11, 12, 13, 14, 17, 19, 22       | 985                                                                                   |
| 810 CIH 11 | 6, 8, 9, 10, 11, 12, 13, 14, 17, 19, 22 | 1125                                                                                  |

### Sätze in Tasche

Sets in wallet

Jeux en trousse

Juego en bolsa



| No.        | mm                                         |  |
|------------|--------------------------------------------|-------------------------------------------------------------------------------------|
| 810 CIT 6  | 8, 10, 12, 13, 14, 17                      | 500                                                                                 |
| 810 CIT 7  | 8, 10, 12, 13, 14, 17, 19                  | 710                                                                                 |
| 810 CIT 8  | 8, 10, 12, 13, 14, 17, 19, 22              | 985                                                                                 |
| 810 CIT 12 | 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19, 22 | 1125                                                                                |



**Ring-Maul-Schlüssel**

Combination wrenches

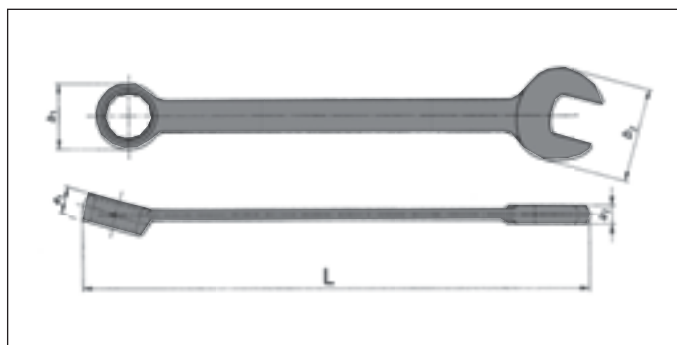
Clés mixte

Llaves combinadas-tipo corto

DIN 3113 Form A

Chrom Vanadium Stahl 31 Cr V 3

W. - No. 1.2208 verchromt



| No.    | mm | L   | a1   | a2  | b1   | b2   |      |    |
|--------|----|-----|------|-----|------|------|------|----|
| 811 CI | 6  | 100 | 5    | 3,9 | 9,8  | 15,7 | 15   | 10 |
|        | 7  | 110 | 5,5  | 4   | 11,2 | 17   | 20   | 10 |
|        | 8  | 120 | 5,9  | 4,4 | 12,7 | 19   | 25   | 10 |
|        | 9  | 130 | 6,4  | 4,5 | 14,1 | 20,9 | 30   | 10 |
|        | 10 | 140 | 6,9  | 5   | 15,5 | 22,8 | 35   | 10 |
|        | 11 | 150 | 7,4  | 5,2 | 16,9 | 25,4 | 45   | 10 |
|        | 12 | 160 | 7,9  | 5,5 | 18,3 | 26,7 | 50   | 10 |
|        | 13 | 170 | 8,4  | 5,8 | 19,7 | 29,3 | 70   | 10 |
|        | 14 | 180 | 8,9  | 6,1 | 21,1 | 31,2 | 75   | 10 |
|        | 15 | 190 | 9,3  | 6,3 | 22,6 | 33   | 90   | 10 |
|        | 16 | 200 | 9,8  | 6,6 | 24   | 34,5 | 95   | 10 |
|        | 17 | 210 | 10,3 | 6,9 | 25,4 | 37,3 | 120  | 10 |
|        | 18 | 220 | 10,8 | 7,1 | 26,8 | 38,4 | 130  | 10 |
|        | 19 | 230 | 11,1 | 7,3 | 28,2 | 40,4 | 155  | 10 |
|        | 20 | 240 | 11,4 | 7,5 | 29,6 | 42,3 | 185  | 10 |
|        | 21 | 250 | 11,7 | 7,7 | 31   | 44,2 | 190  | 10 |
|        | 22 | 260 | 12   | 7,9 | 32,3 | 46,6 | 220  | 10 |
|        | 23 | 270 | 12,4 | 8,1 | 33,7 | 48,8 | 230  | 10 |
|        | 24 | 280 | 12,7 | 8,3 | 35,1 | 50,1 | 280  | 10 |
|        | 25 | 290 | 13   | 8,5 | 36,5 | 52,8 | 300  | 10 |
|        | 26 | 300 | 13,3 | 8,7 | 37,9 | 53,9 | 310  | 10 |
|        | 27 | 310 | 13,6 | 8,9 | 39,2 | 55,9 | 375  | 10 |
|        | 28 | 320 | 13,9 | 9,1 | 40,6 | 57,8 | 390  | 5  |
|        | 29 | 330 | 14,2 | 9,3 | 42   | 59,8 | 415  | 5  |
|        | 30 | 340 | 14,6 | 9,5 | 43,4 | 62,6 | 470  | 5  |
|        | 32 | 360 | 15,2 | 9,9 | 46,6 | 66,9 | 555  | 5  |
|        | 33 | 340 | 15,2 | 10  | 46   | 66   | 500  | 5  |
|        | 34 | 390 | 18,4 | 13  | 52   | 74   | 780  | 5  |
|        | 36 | 390 | 19   | 13  | 52,1 | 75   | 780  | 5  |
|        | 38 | 390 | 19   | 13  | 55,5 | 75   | 730  | 3  |
|        | 41 | 460 | 22,8 | 15  | 59   | 84,5 | 1340 | 1  |
|        | 46 | 500 | 25,8 | 16  | 66   | 92,5 | 1660 | 1  |
|        | 50 | 540 | 26,8 | 17  | 71,5 | 101  | 2125 | 1  |

**Ring-Maul-Schlüssel AF**

Combination wrenches AF

Clés mixte AF

Llaves combinadas-tipo corto AF



| No.    | AF     | L   | a1   | a2  | b1   | b2   |     |  |
|--------|--------|-----|------|-----|------|------|-----|--|
| 811 AF | 1/4    | 100 | 5    | 3,9 | 9,8  | 15,7 | 15  |  |
|        | 5/16   | 120 | 5,9  | 4,4 | 12,7 | 19   | 25  |  |
|        | 3/8    | 130 | 6,4  | 4,5 | 14,1 | 20,9 | 30  |  |
|        | 7/16   | 150 | 7,4  | 5,2 | 16,9 | 25,4 | 45  |  |
|        | 1/2    | 170 | 8,4  | 5,8 | 19,7 | 29,3 | 70  |  |
|        | 9/16   | 180 | 8,9  | 6,1 | 21,1 | 31,2 | 75  |  |
|        | 5/8    | 200 | 9,8  | 6,6 | 24   | 34,5 | 95  |  |
|        | 11/16  | 210 | 10,3 | 6,9 | 25,4 | 37,3 | 120 |  |
|        | 3/4    | 230 | 11,1 | 7,3 | 28,2 | 40,4 | 155 |  |
|        | 25/32  | 240 | 11,4 | 7,5 | 29,6 | 42,3 | 185 |  |
|        | 13/16  | 250 | 11,7 | 7,7 | 31   | 44,2 | 190 |  |
|        | 7/8    | 260 | 12   | 7,9 | 32,3 | 46,6 | 220 |  |
|        | 15/16  | 280 | 12,7 | 8,3 | 35,1 | 50,1 | 280 |  |
|        | 1"     | 290 | 13   | 8,5 | 36,5 | 52,8 | 300 |  |
|        | 1.1/16 | 310 | 13,6 | 8,9 | 39,2 | 55,9 | 375 |  |
|        | 1.1/8  | 320 | 13,9 | 9,1 | 40,6 | 57,8 | 390 |  |
|        | 1.3/16 | 340 | 14,6 | 9,5 | 43,4 | 62,6 | 470 |  |
|        | 1.1/4  | 360 | 15,2 | 9,9 | 46,6 | 66,9 | 555 |  |
|        | 1.5/16 | 340 | 15,2 | 10  | 46   | 66   | 500 |  |
|        | 1.3/8  | 390 | 18,4 | 13  | 52   | 74   | 780 |  |
|        | 1.7/16 | 390 | 19   | 13  | 52,1 | 75   | 780 |  |
|        | 1.1/2  | 390 | 19   | 13  | 55,5 | 75   | 730 |  |

## Sätze im Karton

Sets in boxes

Jeux in carton

Juego en caja de cartón



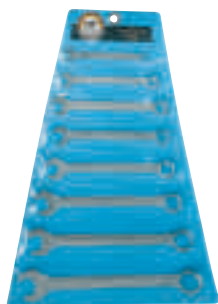
| No.          | mm                                                                                             |  |
|--------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 811 CIK 6    | 8, 10, 12, 13, 14, 17                                                                          | 380                                                                               |
| 811 CIK 7    | 8, 10, 12, 13, 14, 17, 19                                                                      | 520                                                                               |
| 811 CIK 8    | 8, 10, 12, 13, 14, 17, 19, 22                                                                  | 700                                                                               |
| 811 CIK 10   | 8, 10, 11, 12, 13, 14, 15, 17, 19, 22                                                          | 820                                                                               |
| 811 CIK 10/1 | 6, 8, 10, 11, 12, 13, 14, 17, 19, 22                                                           | 760                                                                               |
| 811 CIK 12   | 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19, 22                                                     | 820                                                                               |
| 811 CIK 12/1 | 10, 11, 12, 13, 14, 17, 19, 22, 24, 27, 30, 32                                                 | 2280                                                                              |
| 811 CIK 12/2 | 6, 7, 8, 9, 10, 12, 14, 17, 19, 22, 27, 32                                                     | 1560                                                                              |
| 811 CIK 12/3 | 8, 10, 12, 13, 14, 17, 19, 22, 24, 27, 30, 32                                                  | 2360                                                                              |
| 811 CIK 15   | 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22, 24, 27                                       | 1780                                                                              |
| 811 CIK 16   | 6, 7, 8, 9, 10, 12, 13, 14, 17, 19, 21, 22, 24, 27, 30, 32                                     | 2580                                                                              |
| 811 CIK 16/1 | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 19, 21, 22, 24, 27                                     | 1740                                                                              |
| 811 CIK 16/2 | 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19, 22, 24, 27, 30, 32                                     | 2460                                                                              |
| 811 CIK 17   | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22                                 | 1520                                                                              |
| 811 CIK 17/1 | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30, 32                                 | 2540                                                                              |
| 811 CIK 18   | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22, 24, 27, 32                             | 2340                                                                              |
| 811 CIK 25   | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32 | 4040                                                                              |

## Sätze in Tasche

Sets in wallet

Jeux en trousse

Juego en bolsa



| No.          | mm                                             |  |
|--------------|------------------------------------------------|-------------------------------------------------------------------------------------|
| 811 CIT 6    | 8, 10, 12, 13, 14, 17                          | 385                                                                                 |
| 811 CIT 7    | 8, 10, 12, 13, 14, 17, 19                      | 510                                                                                 |
| 811 CIT 8    | 8, 10, 12, 13, 14, 17, 19, 22                  | 715                                                                                 |
| 811 CIT 8/1  | 8, 10, 11, 12, 13, 14, 17, 19,                 | 700                                                                                 |
| 811 CIT 10   | 6, 7, 8, 9, 10, 11, 12, 14, 17, 19             | 820                                                                                 |
| 811 CIT 12   | 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19, 22     | 835                                                                                 |
| 811 CIT 12/1 | 10, 12, 13, 14, 17, 19, 21, 22, 24, 27, 30, 32 | 2280                                                                                |
| 811 CIT 12/3 | 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19   | 2360                                                                                |

## Sätze im Karton

Sets in boxes

Jeux in carton

Juego en caja de cartón



| No.          | AF                                                                                           |  |
|--------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 811 AFK 6    | 3/8, 7/16, 1/2, 9/16, 5/8, 3/4                                                               | 480                                                                                 |
| 811 AFK 8    | 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4                                                    | 520                                                                                 |
| 811 AFK 8/1  | 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 3/4, 7/8                                                    | 580                                                                                 |
| 811 AFK 10   | 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8                                        | 800                                                                                 |
| 811 AFK 12   | 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 1"                             | 1260                                                                                |
| 811 AFK 12/1 | 1/4, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8, 15/16, 1", 1.1/8, 1.1/4                            | 2260                                                                                |
| 811 AFK 14   | 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16, 1"               | 1760                                                                                |
| 811 AFK 15   | 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1", 1.1/8, 1.1/4        | 2540                                                                                |
| 811 AFK 16   | 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16, 1", 1.1/8, 1.1/4 | 2700                                                                                |

## Sätze in umweltfreundlicher Papp-Verpackung

Sets in ecological beneficial carton packing

Jeux en emballage biodegradable

Juego en caja de carton ecologico



| No.       | mm                            |  |
|-----------|-------------------------------|---------------------------------------------------------------------------------------|
| 811 CIP 7 | 8, 10, 12, 13, 14, 17, 19     | 640                                                                                   |
| 811 CIP 8 | 8, 10, 12, 13, 14, 17, 19, 22 | 820                                                                                   |

| No.          | AF                                                                  |  |
|--------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 811 AFT 6    | 3/8, 7/16, 1/2, 9/16, 5/8, 3/4                                      | 480                                                                                   |
| 811 AFT 8    | 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4                           | 520                                                                                   |
| 811 AFT 10   | 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8               | 800                                                                                   |
| 811 AFT 12   | 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 1"    | 1200                                                                                  |
| 811 AFT 12/1 | 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8, 25/32, 13/16 | 2260                                                                                  |

## Sätze im Plastikhalter

Sets in Plastic Holder

Jeux en support plastique

Juego en Petaca de Plastico



| No.        | mm                                      |  |
|------------|-----------------------------------------|-----------------------------------------------------------------------------------|
| 811 CIH 6  | 8, 10, 12, 13, 14, 17                   | 500                                                                               |
| 811 CIH 9  | 8, 10, 11, 12, 13, 14, 17, 19, 22       | 985                                                                               |
| 811 CIH 11 | 6, 8, 9, 10, 11, 12, 13, 14, 17, 19, 22 | 1125                                                                              |

## Zubehör für Gabelringschlüssel mit Ratschenfunktion

Equipment for Combination wrench with a ratchet function

Accessoires Clés mixte à cliquet

Llaves combinadas a carraca



| No.                              |  |  |
|----------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 813 B-1/4" Adapter für 1/4" Bits |  | 40                                                                                  |
| 813 S-1/4" Adapter für 1/4"      |  | 20                                                                                  |
| 813 S-3/8" Adapter für 3/8"      |  | 20                                                                                  |
| 813 S-1/2" Adapter für 1/2"      |  | 40                                                                                  |

## Gabelringschlüssel mit Ratschenfunktion

Combination wrench with a ratchet function

Clés mixte à cliquet

Llaves combinadas-tipo corto



| No. | mm | L   | a1   | a2  | b1   | b2   |  |  |
|-----|----|-----|------|-----|------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 813 | 8  | 134 | 6,5  | 5   | 17   | 11,5 | 40                                                                                  | 10                                                                                  |
|     | 10 | 159 | 7,3  | 5,5 | 20,5 | 20,5 | 59                                                                                  | 10                                                                                  |
|     | 12 | 173 | 8,3  | 6,2 | 23,5 | 25   | 87                                                                                  | 10                                                                                  |
|     | 13 | 179 | 8,7  | 6,4 | 25   | 26,8 | 100                                                                                 | 10                                                                                  |
|     | 14 | 189 | 9    | 6,7 | 27,5 | 29   | 120                                                                                 | 10                                                                                  |
|     | 15 | 198 | 9,4  | 7,3 | 29   | 31   | 131                                                                                 | 10                                                                                  |
|     | 17 | 228 | 10,3 | 8,6 | 31,7 | 35,2 | 196                                                                                 | 10                                                                                  |
|     | 19 | 245 | 11,2 | 8,7 | 34,6 | 39,3 | 245                                                                                 | 10                                                                                  |



DIN 3113 Form A  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208 verchromt



## Gabelringschlüsselsatz mit Ratschenfunktion von 8-19 mm und Adapter für 1/4", 3/8", 1/2" Außenvierkant sowie Adapter für 1/4" Bit Aufnahme, 12-tlg.

Combination wrench with a ratchet function from 8-19 mm, with adapter for 1/4", 3/8", 1/2" as well for 1/4" bits due to a bit adapter

Clés mixte à cliquet de 8-19 mm avec adapteur

Llaves combinadas-tipo corto



## Freilaufschlüssel "4 in 1"

Ring spanner "4 in 1"

Clé polygonale "4 en 1"

Llaves de estrías "4 en 1"



| No.     | mm/AF                                      |  |
|---------|--------------------------------------------|-------------------------------------------------------------------------------------|
| 813 P12 | 8, 10, 12, 13, 14, 15, 17, 19              | 1080                                                                                |
| 8-19 mm | Adapter 1/4", 3/8", 1/2" + Bitadapter 1/4" |                                                                                     |

| No.   |                |  |  |
|-------|----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 814-1 | 8, 10, 12, 13, | 98                                                                                    | 10                                                                                    |
| 814-2 | 14, 17, 18, 19 | 222                                                                                   | 10                                                                                    |



## Gabelringschlüssel mit Ratschenfunktion

Combination wrench with a ratchet function

Clés mixte à cliquet

Llaves combinadas-tipo corto



| No.    | mm | L   | a1   | a2    | b1   | b2   |       |    |
|--------|----|-----|------|-------|------|------|-------|----|
| 806 CI | 6  | 112 | 7,0  | 4,20  | 16,8 | 17,2 | 0,036 | 10 |
|        | 7  | 112 | 7,0  | 4,20  | 16,8 | 17,2 | 0,036 | 10 |
|        | 8  | 130 | 7,7  | 4,70  | 20,2 | 21,2 | 0,043 | 10 |
|        | 9  | 130 | 7,7  | 4,70  | 20,2 | 21,2 | 0,043 | 10 |
|        | 10 | 147 | 8,2  | 5,30  | 22,1 | 25,1 | 0,077 | 10 |
|        | 11 | 165 | 8,5  | 5,90  | 24,1 | 27,1 | 0,105 | 10 |
|        | 12 | 183 | 9,4  | 6,50  | 27,6 | 31,0 | 0,140 | 10 |
|        | 13 | 183 | 9,4  | 6,50  | 27,6 | 31,0 | 0,140 | 10 |
|        | 14 | 200 | 9,7  | 7,10  | 30,5 | 32,0 | 0,153 | 10 |
|        | 15 | 200 | 9,7  | 7,10  | 30,5 | 32,0 | 0,153 | 10 |
|        | 16 | 218 | 10,8 | 7,70  | 33,5 | 37,9 | 0,210 | 10 |
|        | 17 | 218 | 10,8 | 7,70  | 33,5 | 37,9 | 0,210 | 10 |
|        | 18 | 235 | 11,3 | 8,30  | 36,5 | 40,9 | 0,275 | 10 |
|        | 19 | 235 | 11,3 | 8,30  | 36,5 | 40,9 | 0,275 | 10 |
|        | 21 | 245 | 11,8 | 8,85  | 40,4 | 44,6 | 0,300 | 10 |
|        | 22 | 245 | 11,8 | 8,85  | 40,4 | 44,6 | 0,300 | 10 |
|        | 23 | 267 | 12,3 | 9,40  | 45,1 | 52,5 | 0,400 | 10 |
|        | 24 | 267 | 12,3 | 9,40  | 45,1 | 52,5 | 0,400 | 10 |
|        | 27 | 290 | 13,1 | 10,20 | 49,1 | 56,6 | 0,475 | 10 |
|        | 30 | 318 | 14,1 | 11,20 | 54,8 | 63,5 | 0,633 | 10 |
|        | 32 | 385 | 15,8 | 12,40 | 60,0 | 69,4 | 0,950 | 10 |



## Zubehör für Gabelringschlüssel Nr. 806 mit Ratschenfunktion

Equipment for Combination wrench No. 806 with a ratchet function

Accessoires Clés mixte à cliquet No. 806

Llaves combinadas a carraca No. 806



| No.                              |  |    |
|----------------------------------|--|----|
| 813 B-1/4" Adapter für 1/4" Bits |  | 40 |
| 813 S-1/4" Adapter für 1/4"      |  | 20 |
| 813 S-3/8" Adapter für 3/8"      |  | 20 |
| 813 S-1/2" Adapter für 1/2"      |  | 40 |

## Gabelringschlüsselsatz mit Ratschenfunktion von 8–19 mm und Adapter für 1/4", 3/8", 1/2" Außenvierkant sowie Adapter für 1/4" Bit Aufnahme, 12-tlg.

Combination wrench with a ratchet function from 8–19 mm, with adapter for 1/4", 3/8", 1/2" as well for 1/4" bits due to a bit adapter  
Clés mixte à cliquet de 8–19 mm avec adaptateur  
Llaves combinadas-tipo corto



| No.     | mm/AF                                      |      |
|---------|--------------------------------------------|------|
| 806 P12 | 8, 10, 12, 13, 14, 15, 17, 19              | 1080 |
| 8–19 mm | Adapter 1/4", 3/8", 1/2" + Bitadapter 1/4" |      |

## Sätze im Karton

Sets in boxes

Jeux in carton

Juego en caja de cartón



| No.       | mm                                            |      |
|-----------|-----------------------------------------------|------|
| 806 CI 7  | 8, 10, 12, 13, 17, 19, 22                     | 500  |
| 806 CI 11 | 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19        | 985  |
| 806 CI 12 | 8, 10, 12, 13, 14, 17, 19, 22, 24, 27, 30, 32 | 1125 |

**Doppel-Rohrsteckschlüssel, vernickelt**

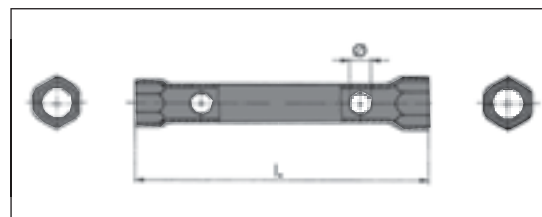
Tubular box-spanners nickel-plated

Clés à douilles doubles nickelée

Llaves de tubo hecha en duro acero niquelada



DIN 896 Form B



| No.        | mm           | L   | Ø    |      |    |
|------------|--------------|-----|------|------|----|
| <b>815</b> | <b>4x5</b>   | 110 | 5,5  | 30   | 10 |
|            | <b>6x7</b>   | 110 | 5,5  | 30   | 10 |
|            | <b>8x9</b>   | 110 | 6,5  | 40   | 10 |
|            | <b>8x10</b>  | 120 | 6,5  | 50   | 10 |
|            | <b>9x10</b>  | 120 | 6,5  | 50   | 10 |
|            | <b>9x11</b>  | 120 | 6,5  | 50   | 10 |
|            | <b>10x11</b> | 120 | 6,5  | 50   | 10 |
|            | <b>10x13</b> | 140 | 6,5  | 80   | 10 |
|            | <b>10x14</b> | 140 | 6,5  | 80   | 10 |
|            | <b>11x13</b> | 140 | 6,5  | 80   | 10 |
|            | <b>11x14</b> | 140 | 6,5  | 80   | 10 |
|            | <b>12x13</b> | 140 | 8,5  | 80   | 10 |
|            | <b>12x14</b> | 140 | 8,5  | 80   | 10 |
|            | <b>13x14</b> | 140 | 8,5  | 80   | 10 |
|            | <b>13x15</b> | 140 | 8,5  | 95   | 10 |
|            | <b>13x17</b> | 150 | 10   | 125  | 10 |
|            | <b>14x15</b> | 140 | 10   | 125  | 10 |
|            | <b>14x17</b> | 150 | 10   | 125  | 10 |
|            | <b>16x17</b> | 150 | 10   | 125  | 10 |
|            | <b>17x19</b> | 160 | 12,5 | 200  | 5  |
|            | <b>17x22</b> | 170 | 12,5 | 225  | 5  |
|            | <b>18x19</b> | 160 | 12,5 | 200  | 5  |
|            | <b>19x22</b> | 170 | 12,5 | 225  | 5  |
|            | <b>19x24</b> | 180 | 12,5 | 225  | 5  |
|            | <b>20x22</b> | 170 | 12,5 | 225  | 5  |
|            | <b>21x23</b> | 170 | 14,5 | 225  | 5  |
|            | <b>22x24</b> | 180 | 14,5 | 300  | 5  |
|            | <b>22x27</b> | 180 | 14,5 | 300  | 5  |
|            | <b>24x26</b> | 180 | 14,5 | 300  | 5  |
|            | <b>24x27</b> | 180 | 14,5 | 300  | 5  |
|            | <b>24x30</b> | 180 | 14,5 | 300  | 3  |
|            | <b>25x28</b> | 180 | 16,3 | 300  | 3  |
|            | <b>27x29</b> | 210 | 16,3 | 400  | 3  |
|            | <b>27x30</b> | 210 | 16,3 | 400  | 3  |
|            | <b>27x32</b> | 210 | 16,3 | 400  | 3  |
|            | <b>30x32</b> | 210 | 16,3 | 400  | 3  |
|            | <b>30x36</b> | 230 | 18,5 | 550  | 1  |
|            | <b>32x36</b> | 230 | 18,5 | 550  | 1  |
|            | <b>36x41</b> | 230 | 18,5 | 690  | 1  |
|            | <b>41x46</b> | 250 | 21   | 820  | 1  |
|            | <b>46x50</b> | 250 | 21   | 950  | 1  |
|            | <b>50x55</b> | 280 | 21   | 1340 | 1  |
|            | <b>55x60</b> | 280 | 21   | 1390 | 1  |

**Sätze im Karton mit Drehstift**

Sets in boxes with Tommy bars

Jeux in boxes avec Broches

Juego en caja con Varilla telescopica



| No.             | mm                                                                                   |      | No.                |
|-----------------|--------------------------------------------------------------------------------------|------|--------------------|
| <b>815 / 8</b>  | 6x7, 8x9, 10x11, 12x13, 14x15,<br>16x17, 18x19, 20x22                                | 900  | 818-150<br>818-250 |
|                 |                                                                                      |      |                    |
| <b>815 / 12</b> | 6x7, 8x9, 10x11, 12x13, 14x15,<br>16x17, 18x19, 20x22, 21x23,<br>24x27, 25x28, 30x32 | 2290 |                    |
|                 |                                                                                      |      |                    |

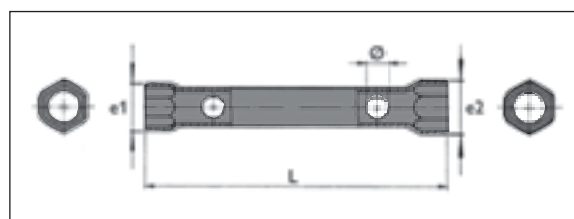
**Doppel-Rohrsteckschlüssel, verchromt, massive Ausführung**

Tubular box-spanners chrome-plated heavy duty

Clés à douilles doubles chromée mat

Llaves de tubo hecha en duro acero, cromada mate

DIN 896 Form A



| No.        | mm           | L   | e1 | e2 |     |    |
|------------|--------------|-----|----|----|-----|----|
| <b>816</b> | <b>8x9</b>   | 110 | 13 | 14 | 80  | 10 |
|            | <b>10x11</b> | 125 | 16 | 17 | 100 | 10 |
|            | <b>12x13</b> | 140 | 18 | 19 | 160 | 10 |
|            | <b>14x15</b> | 140 | 21 | 22 | 200 | 10 |
|            | <b>16x17</b> | 155 | 23 | 24 | 280 | 10 |
|            | <b>18x19</b> | 170 | 26 | 27 | 360 | 10 |
|            | <b>20x22</b> | 170 | 29 | 31 | 460 | 10 |

## Sätze im Karton

Sets in boxes

Jeux in carton

Juego en caja de cartón



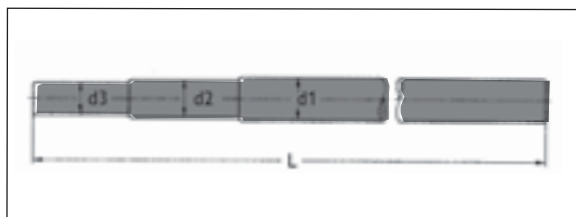
| No.            | mm                                            |  | No.     |
|----------------|-----------------------------------------------|-----------------------------------------------------------------------------------|---------|
| <b>816 K 5</b> | 8x9, 10x11, 12x13, 14x15, 16x17               | 900                                                                               | 818-150 |
| <b>816 K 7</b> | 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22 | 2290                                                                              | 818-250 |

## Drehstifte, DIN 900 verchromt

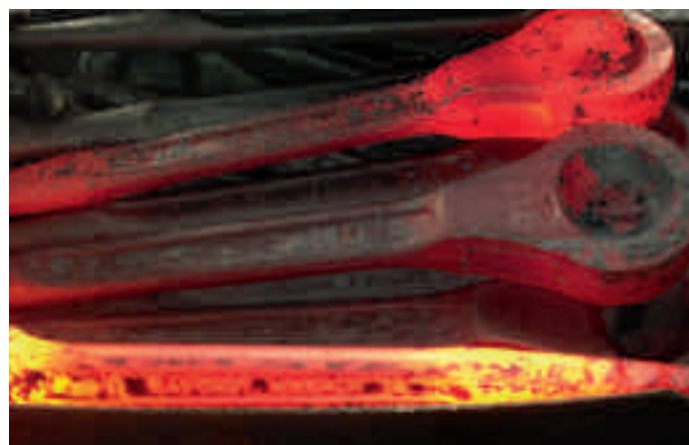
Tommy bars, chrome plated

Broches, chromée

Varilla, telescópica, cromada



| No.        | mm        | L   | d1 | d2 | d3 | d4 | d5 |  |  |
|------------|-----------|-----|----|----|----|----|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>817</b> | <b>6</b>  | 150 | 6  |    |    |    |    | 34                                                                                  | 10                                                                                  |
|            | <b>8</b>  | 190 | 8  |    |    |    |    | 74                                                                                  | 10                                                                                  |
|            | <b>10</b> | 250 | 10 |    |    |    |    | 125                                                                                 | 10                                                                                  |
| <b>818</b> | <b>8</b>  | 150 | 4  | 6  | 7  | 8  |    | 55                                                                                  | 10                                                                                  |
|            | <b>14</b> | 250 | 4  | 8  | 10 | 12 | 14 | 220                                                                                 | 10                                                                                  |



## Rohrsteckschlüssel mit Vierkantheft

Socket wrenches with square shaft

Clés à douilles avec poignée quadrangulaire

Llave vaso con asa cuadrangular



| No.        | mm         | L   | Ø   |  |  |  |
|------------|------------|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>820</b> | <b>3</b>   | 210 | 4,5 | 90                                                                                  | 65                                                                                  | 10                                                                                  |
|            | <b>4</b>   | 210 | 4,5 | 90                                                                                  | 65                                                                                  | 10                                                                                  |
|            | <b>4,5</b> | 210 | 4,5 | 90                                                                                  | 65                                                                                  | 10                                                                                  |
|            | <b>5</b>   | 210 | 4,5 | 90                                                                                  | 65                                                                                  | 10                                                                                  |
|            | <b>5,5</b> | 210 | 4,5 | 90                                                                                  | 65                                                                                  | 10                                                                                  |
|            | <b>6</b>   | 220 | 4,5 | 90                                                                                  | 85                                                                                  | 10                                                                                  |
|            | <b>7</b>   | 220 | 4,5 | 90                                                                                  | 85                                                                                  | 10                                                                                  |
|            | <b>8</b>   | 220 | 4,5 | 100                                                                                 | 100                                                                                 | 10                                                                                  |
|            | <b>9</b>   | 220 | 6,5 | 10                                                                                  | 100                                                                                 | 10                                                                                  |
|            | <b>10</b>  | 230 | 6,5 | 100                                                                                 | 125                                                                                 | 10                                                                                  |
|            | <b>11</b>  | 230 | 6,5 | 100                                                                                 | 125                                                                                 | 10                                                                                  |
|            | <b>12</b>  | 230 | 8,5 | 110                                                                                 | 150                                                                                 | 10                                                                                  |
|            | <b>13</b>  | 230 | 8,5 | 110                                                                                 | 150                                                                                 | 10                                                                                  |
|            | <b>14</b>  | 230 | 8,5 | 110                                                                                 | 150                                                                                 | 10                                                                                  |
|            | <b>15</b>  | 240 | 8,5 | 110                                                                                 | 170                                                                                 | 10                                                                                  |
|            | <b>16</b>  | 240 | 8,5 | 110                                                                                 | 170                                                                                 | 10                                                                                  |
|            | <b>17</b>  | 240 | 8,5 | 1100                                                                                | 170                                                                                 | 10                                                                                  |

## Pedalschlüssel

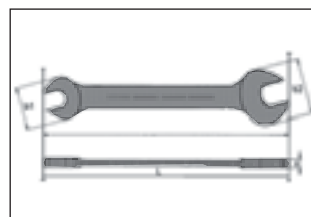
Pedal Spanner

Clés de pédale

Llave de pedal

Chrom Vanadium Stahl 31 Cr V 3

W. - No. 1.2208 verchromt



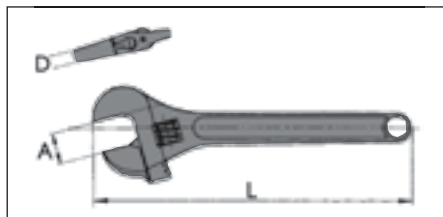
| No.        | mm        | L   | a1 | a2 | b1 | b2 |  |  |
|------------|-----------|-----|----|----|----|----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>831</b> | <b>15</b> | 340 | 5  | 5  | 47 | 50 | 210                                                                                   | 20                                                                                    |



**Rollgabelschlüssel ,  
verstellbar**

Adjustable open-end  
wrenches  
Clés ajustables  
Llaves ajustables

DIN 3117 Form A  
Chrom Vanadium Stahl 31Cr V3  
W. - No. 1.2208, W. - No. 1.0501 C 35

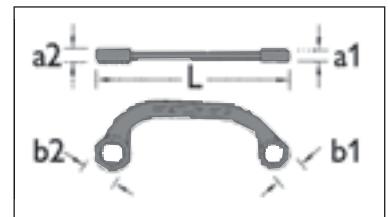


| No. | AF | L-mm | A-mm | D    |      |
|-----|----|------|------|------|------|
| 833 | 6  | 150  | 20   | 8,5  | 150  |
|     | 8  | 200  | 24   | 9    | 260  |
|     | 10 | 250  | 29   | 11,5 | 420  |
|     | 12 | 310  | 34   | 14,5 | 750  |
|     | 15 | 380  | 44   | 20,5 | 1350 |
|     | 18 | 460  | 56   | 21,3 | 1850 |

**Starter-Blockschlüssel**

Half moon ringspanners  
Clés polygonales demi-lune  
Llave estrella media luna

Chrom Vanadium Stahl 31Cr V3  
W. - No. 1.2208 verchromt



| No. | mm    | Länge | a1  | a2  | b1   | b2   |     |    |
|-----|-------|-------|-----|-----|------|------|-----|----|
| 835 | 11x13 | 145   | 7,3 | 8   | 17,5 | 21   | 80  | 10 |
|     | 13x15 | 167   | 7,3 | 8   | 20   | 23   | 100 | 10 |
|     | 14x17 | 185   | 8   | 8,7 | 22,5 | 25   | 150 | 10 |
|     | 19x22 | 235   | 8,3 | 9,2 | 27,5 | 31,3 | 265 | 10 |

**Magnetschlüsselsatz, 10 tlg.**

Magneto Spanners 10pcs.  
Clés pour magnétos  
Llaves magnetos



| No. | mm    |    |    |
|-----|-------|----|----|
| 836 | 4-7,5 | 40 | 10 |



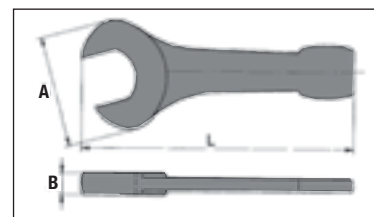
# Schlagmaulschlüssel, DIN 133 Vergütungsstahl

Open ended striking face spanners, made from tempering steel

Clés de serrage à frappe

Llave fija golpe

DIN 133



| No. | mm  | L   | A   | B    |  |
|-----|-----|-----|-----|------|-----------------------------------------------------------------------------------|
| 837 | 22  | 180 | 56  | 16   | 300                                                                               |
|     | 24  | 180 | 56  | 16   | 350                                                                               |
|     | 27  | 180 | 56  | 16   | 400                                                                               |
|     | 30  | 190 | 62  | 17   | 475                                                                               |
|     | 32  | 190 | 62  | 17   | 475                                                                               |
|     | 34  | 215 | 76  | 17,5 | 475                                                                               |
|     | 36  | 215 | 76  | 17,5 | 650                                                                               |
|     | 38  | 215 | 76  | 17,5 | 650                                                                               |
|     | 41  | 235 | 86  | 18,5 | 950                                                                               |
|     | 42  | 235 | 86  | 18,5 | 950                                                                               |
|     | 46  | 255 | 98  | 20   | 1250                                                                              |
|     | 47  | 255 | 98  | 20   | 1250                                                                              |
|     | 50  | 275 | 105 | 21   | 1600                                                                              |
|     | 55  | 300 | 116 | 23   | 2050                                                                              |
|     | 60  | 320 | 128 | 24,5 | 2450                                                                              |
|     | 65  | 342 | 138 | 27   | 3250                                                                              |
|     | 70  | 375 | 154 | 30   | 4250                                                                              |
|     | 75  | 375 | 154 | 30   | 4880                                                                              |
|     | 80  | 408 | 174 | 34   | 6100                                                                              |
|     | 85  | 408 | 174 | 34   | 5900                                                                              |
|     | 90  | 445 | 194 | 38   | 8350                                                                              |
|     | 95  | 445 | 194 | 38   | 7600                                                                              |
|     | 100 | 485 | 215 | 44   | 11500                                                                             |
|     | 105 | 485 | 215 | 44   | 11200                                                                             |
|     | 110 | 510 | 235 | 47   | 14000                                                                             |
|     | 115 | 510 | 235 | 47   | 13800                                                                             |
|     | 120 | 545 | 255 | 50   | 18000                                                                             |
|     | 125 | 545 | 255 | 50   | 17800                                                                             |
|     | 130 | 575 | 275 | 55   | 21000                                                                             |
|     | 135 | 575 | 275 | 55   | 20400                                                                             |
|     | 140 | 640 | 305 | 60   | 20000                                                                             |
|     | 145 | 640 | 305 | 60   | 28500                                                                             |
|     | 150 | 640 | 305 | 60   | 28300                                                                             |
|     | 155 | 640 | 305 | 60   | 28000                                                                             |
|     | 160 | 715 | 342 | 70   | 28400                                                                             |
|     | 165 | 715 | 342 | 70   | 42000                                                                             |
|     | 170 | 715 | 342 | 70   | 39000                                                                             |
|     | 175 | 715 | 342 | 70   | 39000                                                                             |
|     | 180 | 715 | 342 | 70   | 40000                                                                             |
|     | 185 | 715 | 342 | 70   | 39500                                                                             |
|     | 190 | 800 | 392 | 78   | 53000                                                                             |
|     | 195 | 800 | 392 | 78   | 52000                                                                             |
|     | 200 | 800 | 392 | 78   | 51000                                                                             |
|     | 205 | 800 | 392 | 78   | 51000                                                                             |
|     | 210 | 800 | 392 | 78   | 50500                                                                             |
|     | 220 | 800 | 415 | 72   | 48000                                                                             |
|     | 230 | 800 | 415 | 72   | 47500                                                                             |

| No.    | AF      | L   | A   | B    |  |
|--------|---------|-----|-----|------|-------------------------------------------------------------------------------------|
| 837 AF | 1.1/16  | 180 | 56  | 16   | 300                                                                                 |
|        | 1.1/2   | 180 | 56  | 16   | 350                                                                                 |
|        | 1.1/4   | 180 | 56  | 16   | 300                                                                                 |
|        | 1.1/8   | 180 | 56  | 16   | 350                                                                                 |
|        | 1.3/16  | 180 | 56  | 16   | 400                                                                                 |
|        | 1.3/4   | 190 | 62  | 17   | 475                                                                                 |
|        | 1.3/8   | 190 | 62  | 17   | 475                                                                                 |
|        | 1.5/16  | 215 | 76  | 17,5 | 650                                                                                 |
|        | 1.5/8   | 235 | 86  | 18,5 | 950                                                                                 |
|        | 1.7/16  | 255 | 98  | 20   | 1250                                                                                |
|        | 1.7/8   | 275 | 105 | 21   | 1600                                                                                |
|        | 1.9/16  | 300 | 116 | 23   | 2050                                                                                |
|        | 1.11/16 | 320 | 128 | 24,5 | 2450                                                                                |
|        | 1.13/16 | 342 | 138 | 27   | 3250                                                                                |
|        | 1.15/16 | 375 | 154 | 30   | 4250                                                                                |
|        | 2"      | 375 | 154 | 30   | 4880                                                                                |
|        | 2.1/16  | 408 | 174 | 34   | 6100                                                                                |
|        | 2.1/2   | 408 | 174 | 34   | 5900                                                                                |
|        | 2.1/4   | 445 | 194 | 38   | 8350                                                                                |
|        | 2.1/8   | 445 | 194 | 38   | 7600                                                                                |
|        | 2.3/16  | 485 | 215 | 44   | 11500                                                                               |
|        | 2.3/4   | 485 | 215 | 44   | 11200                                                                               |
|        | 2.3/8   | 510 | 235 | 47   | 14000                                                                               |
|        | 2.5/16  | 510 | 235 | 47   | 13800                                                                               |
|        | 2.5/8   | 545 | 255 | 50   | 18000                                                                               |
|        | 2.7/16  | 545 | 255 | 50   | 17800                                                                               |
|        | 2.7/8   | 545 | 255 | 50   | 18000                                                                               |
|        | 2.9/16  | 545 | 255 | 50   | 17800                                                                               |
|        | 2.13/16 | 575 | 275 | 55   | 21000                                                                               |
|        | 2.15/16 | 575 | 275 | 55   | 20400                                                                               |
|        | 3"      | 640 | 305 | 60   | 20000                                                                               |
|        | 3.1/2   | 640 | 305 | 60   | 28500                                                                               |
|        | 3.1/4   | 640 | 305 | 60   | 28300                                                                               |
|        | 3.1/8   | 640 | 305 | 60   | 28000                                                                               |
|        | 3.3/4   | 715 | 342 | 70   | 28400                                                                               |
|        | 3.3/8   | 715 | 342 | 70   | 42000                                                                               |
|        | 3.5/8   | 715 | 342 | 70   | 39000                                                                               |
|        | 3.7/8   | 715 | 342 | 70   | 39000                                                                               |
|        | 4"      | 715 | 342 | 70   | 40000                                                                               |
|        | 4.1/2   | 715 | 342 | 70   | 39500                                                                               |
|        | 4.1/4   | 800 | 392 | 78   | 53000                                                                               |
|        | 4.1/8   | 800 | 392 | 78   | 52000                                                                               |
|        | 4.3/4   | 800 | 392 | 78   | 51000                                                                               |
|        | 5"      | 800 | 392 | 78   | 51000                                                                               |
|        | 5.3/4   | 800 | 392 | 78   | 50500                                                                               |
|        | 5.3/8   | 800 | 415 | 72   | 48000                                                                               |
|        | 6"      | 800 | 415 | 72   | 47500                                                                               |

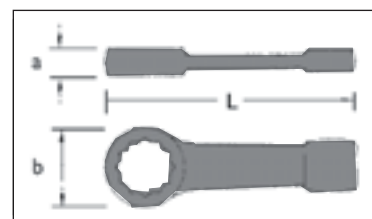
**Schlagringschlüssel, DIN 7444 Vergütungsstahl**

Striking face ring spanners, made from tempering steel

Clés polygonales à frappe

Llave estrellaplana golpe

DIN 7444



| No. | mm  | L   | A  | B   |  |
|-----|-----|-----|----|-----|-----------------------------------------------------------------------------------|
| 838 | 22  | 165 | 15 | 43  | 230                                                                               |
|     | 24  | 165 | 15 | 43  | 230                                                                               |
|     | 27  | 180 | 16 | 46  | 350                                                                               |
|     | 28  | 190 | 17 | 52  | 460                                                                               |
|     | 30  | 190 | 17 | 52  | 465                                                                               |
|     | 32  | 190 | 17 | 52  | 465                                                                               |
|     | 34  | 205 | 18 | 58  | 570                                                                               |
|     | 36  | 205 | 18 | 58  | 570                                                                               |
|     | 38  | 205 | 18 | 58  | 570                                                                               |
|     | 41  | 230 | 20 | 66  | 760                                                                               |
|     | 42  | 230 | 20 | 66  | 760                                                                               |
|     | 45  | 240 | 22 | 74  | 950                                                                               |
|     | 46  | 240 | 22 | 74  | 950                                                                               |
|     | 47  | 240 | 22 | 74  | 950                                                                               |
|     | 50  | 255 | 24 | 80  | 1120                                                                              |
|     | 55  | 270 | 25 | 86  | 1560                                                                              |
|     | 60  | 280 | 26 | 93  | 1625                                                                              |
|     | 63  | 300 | 30 | 102 | 2060                                                                              |
|     | 65  | 300 | 30 | 102 | 2060                                                                              |
|     | 70  | 330 | 33 | 110 | 3000                                                                              |
|     | 75  | 330 | 33 | 110 | 2950                                                                              |
|     | 80  | 360 | 36 | 126 | 4000                                                                              |
|     | 85  | 360 | 36 | 126 | 4000                                                                              |
|     | 90  | 390 | 40 | 142 | 5400                                                                              |
|     | 95  | 390 | 40 | 142 | 5400                                                                              |
|     | 100 | 420 | 45 | 155 | 6530                                                                              |
|     | 105 | 420 | 45 | 155 | 6530                                                                              |
|     | 110 | 450 | 48 | 170 | 8600                                                                              |
|     | 115 | 450 | 48 | 170 | 8600                                                                              |
|     | 120 | 480 | 54 | 182 | 13200                                                                             |
|     | 125 | 480 | 54 | 182 | 13200                                                                             |
|     | 130 | 520 | 58 | 202 | 13800                                                                             |
|     | 135 | 520 | 58 | 202 | 13800                                                                             |
|     | 140 | 520 | 58 | 210 | 13800                                                                             |
|     | 145 | 580 | 64 | 228 | 19200                                                                             |
|     | 150 | 580 | 64 | 228 | 19200                                                                             |
|     | 155 | 580 | 64 | 228 | 19200                                                                             |
|     | 160 | 580 | 64 | 240 | 19200                                                                             |
|     | 165 | 650 | 70 | 265 | 28600                                                                             |
|     | 170 | 650 | 70 | 265 | 28600                                                                             |
|     | 175 | 650 | 70 | 265 | 28600                                                                             |
|     | 180 | 650 | 70 | 265 | 34000                                                                             |
|     | 185 | 700 | 75 | 290 | 33500                                                                             |
|     | 190 | 700 | 75 | 290 | 33000                                                                             |
|     | 195 | 700 | 75 | 290 | 32500                                                                             |
|     | 200 | 700 | 75 | 290 | 32000                                                                             |
|     | 205 | 750 | 80 | 320 | 38500                                                                             |
|     | 210 | 750 | 80 | 320 | 38000                                                                             |
|     | 215 | 750 | 80 | 320 | 38700                                                                             |
|     | 220 | 750 | 80 | 320 | 37500                                                                             |
|     | 230 | 750 | 80 | 320 | 36000                                                                             |

| No.    | AF      | L   | A  | B   |  |
|--------|---------|-----|----|-----|-------------------------------------------------------------------------------------|
| 838 AF | 1.1/16  | 180 | 16 | 46  | 350                                                                                 |
|        | 1.1/2   | 205 | 18 | 58  | 570                                                                                 |
|        | 1.1/4   | 190 | 17 | 52  | 465                                                                                 |
|        | 1.1/8   | 180 | 16 | 46  | 350                                                                                 |
|        | 1.3/16  | 190 | 17 | 52  | 465                                                                                 |
|        | 1.3/4   | 240 | 22 | 74  | 950                                                                                 |
|        | 1.3/8   | 205 | 18 | 58  | 570                                                                                 |
|        | 1.5/16  | 190 | 17 | 52  | 465                                                                                 |
|        | 1.5/8   | 230 | 20 | 66  | 760                                                                                 |
|        | 1.7/16  | 205 | 18 | 58  | 570                                                                                 |
|        | 1.7/8   | 240 | 22 | 74  | 950                                                                                 |
|        | 1.9/16  | 230 | 20 | 66  | 760                                                                                 |
|        | 1.11/16 | 230 | 20 | 66  | 760                                                                                 |
|        | 1.13/16 | 240 | 22 | 74  | 950                                                                                 |
|        | 1.15/16 | 255 | 24 | 80  | 1120                                                                                |
|        | 2"      | 255 | 24 | 80  | 1120                                                                                |
|        | 2.1/16  | 255 | 24 | 80  | 1120                                                                                |
|        | 2.1/2   | 300 | 30 | 102 | 2060                                                                                |
|        | 2.1/4   | 270 | 25 | 86  | 1560                                                                                |
|        | 2.1/8   | 270 | 25 | 86  | 1560                                                                                |
|        | 2.3/16  | 270 | 25 | 86  | 1560                                                                                |
|        | 2.3/4   | 330 | 33 | 110 | 3000                                                                                |
|        | 2.3/8   | 280 | 26 | 93  | 1625                                                                                |
|        | 2.5/16  | 280 | 26 | 93  | 1625                                                                                |
|        | 2.5/8   | 300 | 30 | 102 | 2060                                                                                |
|        | 2.7/16  | 280 | 26 | 93  | 1625                                                                                |
|        | 2.7/8   | 330 | 33 | 110 | 3000                                                                                |
|        | 2.9/16  | 300 | 30 | 102 | 2060                                                                                |
|        | 2.13/16 | 330 | 33 | 110 | 3000                                                                                |
|        | 2.15/16 | 330 | 33 | 110 | 3000                                                                                |
|        | 3"      | 330 | 33 | 110 | 3000                                                                                |
|        | 3.1/2   | 360 | 36 | 126 | 4000                                                                                |
|        | 3.1/4   | 360 | 36 | 126 | 4000                                                                                |
|        | 3.1/8   | 360 | 36 | 126 | 4000                                                                                |
|        | 3.3/4   | 390 | 40 | 142 | 5400                                                                                |
|        | 3.3/8   | 360 | 36 | 126 | 4000                                                                                |
|        | 3.5/8   | 390 | 40 | 142 | 5400                                                                                |
|        | 3.7/8   | 390 | 40 | 142 | 5400                                                                                |
|        | 4"      | 420 | 45 | 155 | 6530                                                                                |
|        | 4.1/2   | 450 | 48 | 170 | 8600                                                                                |
|        | 4.1/4   | 450 | 48 | 170 | 8600                                                                                |
|        | 4.1/8   | 420 | 45 | 155 | 6530                                                                                |
|        | 4.3/4   | 480 | 54 | 182 | 13200                                                                               |
|        | 5"      | 480 | 54 | 182 | 13200                                                                               |
|        | 5.1/8   | 480 | 64 | 228 | 13300                                                                               |
|        | 5.3/4   | 580 | 64 | 228 | 19200                                                                               |
|        | 5.3/8   | 520 | 58 | 202 | 13800                                                                               |
|        | 6"      | 580 | 64 | 228 | 19200                                                                               |



# Aufsteckringschlüssel, gekröpft verchromt

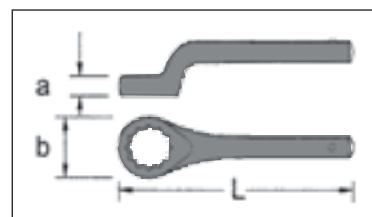
Ring Spanners offset, chrome plated

Clés polygonales coudées, chrome coudées

Llave acodada estrella golpe, cromada mate

Chrom Vanadium Stahl 31 Cr V 3

W. - No. 1.2208 verchromt



| No. | mm  | L   | A    | B   |  |
|-----|-----|-----|------|-----|-----------------------------------------------------------------------------------|
| 839 | 22  | 180 | 17   | 38  | 370                                                                               |
|     | 24  | 180 | 17   | 38  | 370                                                                               |
|     | 27  | 185 | 17   | 42  | 410                                                                               |
|     | 30  | 195 | 18   | 48  | 490                                                                               |
|     | 32  | 230 | 18   | 49  | 720                                                                               |
|     | 36  | 240 | 20   | 54  | 840                                                                               |
|     | 41  | 250 | 22   | 62  | 935                                                                               |
|     | 46  | 260 | 23   | 69  | 1300                                                                              |
|     | 50  | 270 | 25,5 | 76  | 1450                                                                              |
|     | 55  | 270 | 28   | 81  | 1450                                                                              |
|     | 60  | 345 | 30,5 | 90  | 2400                                                                              |
|     | 65  | 355 | 33   | 98  | 2600                                                                              |
|     | 70  | 365 | 35,5 | 105 | 2800                                                                              |
|     | 75  | 375 | 38   | 110 | 3000                                                                              |
|     | 80  | 385 | 40,5 | 125 | 3920                                                                              |
|     | 85  | 385 | 40,5 | 125 | 4100                                                                              |
|     | 90  | 410 | 45   | 140 | 4950                                                                              |
|     | 95  | 410 | 45   | 140 | 4950                                                                              |
|     | 100 | 412 | 45   | 143 | 4800                                                                              |
|     | 105 | 415 | 45   | 143 | 4800                                                                              |

# Aufsteckrohre für Ringschlüssel No. 839, Stahlrohr verchromt

Tubular handles for ring spanners No. 839, chrome plated

Tubes d'extension pour Art. No. 839, chromée mat

Mango tubular para Art. No. 839, cromada mate



| No.   |   | L-mm | mm     | AF            |  |
|-------|---|------|--------|---------------|-------------------------------------------------------------------------------------|
| 839 R | 1 | 460  | 22-30  | 7/8-1.3/16    | 650                                                                                 |
|       | 2 | 610  | 32-41  | 1.1/4-1.11/16 | 1200                                                                                |
|       | 3 | 760  | 46-55  | 1.3/4-2.5/16  | 2200                                                                                |
|       | 4 | 865  | 60-105 | 2.3/8-4.1/8   | 2900                                                                                |

| No.    | AF      | L   | A    | B   |  |
|--------|---------|-----|------|-----|-------------------------------------------------------------------------------------|
| 839 AF | 1"      | 180 | 17   | 38  | 370                                                                                 |
|        | 1.1/16  | 185 | 17   | 38  | 410                                                                                 |
|        | 1.1/2   | 240 | 20   | 54  | 840                                                                                 |
|        | 1.1/4   | 230 | 18   | 49  | 720                                                                                 |
|        | 1.1/8   | 185 | 17   | 38  | 410                                                                                 |
|        | 1.3/16  | 195 | 18   | 48  | 490                                                                                 |
|        | 1.3/4   | 250 | 22   | 62  | 935                                                                                 |
|        | 1.3/8   | 240 | 20   | 54  | 840                                                                                 |
|        | 1.5/16  | 240 | 20   | 54  | 720                                                                                 |
|        | 1.5/8   | 250 | 23   | 69  | 935                                                                                 |
|        | 1.7/16  | 250 | 20   | 54  | 840                                                                                 |
|        | 1.7/8   | 260 | 23   | 69  | 1300                                                                                |
|        | 1.9/16  | 250 | 23   | 69  | 935                                                                                 |
|        | 1.11/16 | 250 | 23   | 69  | 935                                                                                 |
|        | 1.13/16 | 260 | 23   | 69  | 1300                                                                                |
|        | 2"      | 270 | 28   | 81  | 1450                                                                                |
|        | 2.1/16  | 270 | 28   | 81  | 1450                                                                                |
|        | 2.1/2   | 325 | 30,5 | 90  | 2400                                                                                |
|        | 2.1/4   | 270 | 28   | 81  | 1500                                                                                |
|        | 2.1/8   | 270 | 28   | 81  | 1450                                                                                |
|        | 2.3/16  | 270 | 28   | 81  | 1500                                                                                |
|        | 2.3/4   | 345 | 30,5 | 90  | 2800                                                                                |
|        | 2.3/8   | 325 | 30,5 | 90  | 2400                                                                                |
|        | 2.5/16  | 325 | 30,5 | 90  | 2400                                                                                |
|        | 2.7/16  | 345 | 30,5 | 90  | 2600                                                                                |
|        | 2.9/16  | 345 | 30,5 | 90  | 2600                                                                                |
|        | 2.13/16 | 375 | 38   | 110 | 3000                                                                                |
|        | 2.15/16 | 375 | 38   | 110 | 3000                                                                                |
|        | 3"      | 375 | 38   | 110 | 3000                                                                                |
|        | 3.1/2   | 385 | 40,5 | 125 | 4100                                                                                |
|        | 3.1/4   | 385 | 40,5 | 125 | 4100                                                                                |
|        | 3.1/8   | 385 | 40,5 | 125 | 4100                                                                                |
|        | 3.3/4   | 410 | 45   | 140 | 4950                                                                                |
|        | 3.3/8   | 385 | 40,5 | 125 | 4100                                                                                |
|        | 3.5/8   | 410 | 45   | 140 | 4950                                                                                |
|        | 3.7/8   | 410 | 45   | 140 | 4950                                                                                |
|        | 4"      | 412 | 45   | 140 | 4950                                                                                |
|        | 4.1/8"  | 415 | 45   | 140 | 4950                                                                                |

**Einring-Schlüssel gerade,  
DIN 3111**

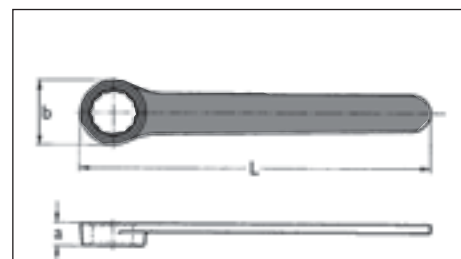
Ring spanners straight

Clés polygonales droit

Llave estrellaplana derecha



DIN 3111



L = Länge

A = Kopfhöhe

B = Kopfbreite

| No. | mm | L   | A    | B     |      |
|-----|----|-----|------|-------|------|
| 840 | 13 | 138 | 8,3  | 25    | 45   |
|     | 14 | 138 | 8,3  | 25    | 45   |
|     | 15 | 138 | 8,3  | 25    | 45   |
|     | 16 | 138 | 8,3  | 25    | 45   |
|     | 17 | 155 | 9,5  | 31    | 75   |
|     | 18 | 155 | 9,5  | 31    | 75   |
|     | 19 | 171 | 11,5 | 34    | 100  |
|     | 20 | 171 | 11,5 | 34    | 100  |
|     | 21 | 171 | 11,5 | 34    | 100  |
|     | 22 | 190 | 13   | 37,5  | 140  |
|     | 24 | 215 | 15   | 38,5  | 160  |
|     | 25 | 215 | 15   | 38,5  | 160  |
|     | 26 | 215 | 15   | 38,5  | 160  |
|     | 27 | 230 | 16   | 41,5  | 200  |
|     | 28 | 230 | 16   | 41,5  | 200  |
|     | 29 | 230 | 16   | 41,5  | 200  |
|     | 30 | 254 | 18   | 47,5  | 280  |
|     | 32 | 265 | 19   | 49    | 350  |
|     | 33 | 265 | 19   | 49    | 350  |
|     | 34 | 265 | 19   | 49    | 350  |
|     | 36 | 295 | 22   | 56    | 485  |
|     | 38 | 295 | 22   | 56    | 485  |
|     | 39 | 295 | 22   | 56    | 485  |
|     | 41 | 330 | 25   | 63,5  | 695  |
|     | 43 | 330 | 25   | 63,5  | 695  |
|     | 44 | 330 | 25   | 63,5  | 695  |
|     | 46 | 365 | 27   | 70,5  | 960  |
|     | 47 | 365 | 27   | 70,5  | 960  |
|     | 50 | 400 | 28   | 77    | 1255 |
|     | 52 | 400 | 28   | 77    | 1260 |
|     | 55 | 442 | 29,5 | 83,5  | 1590 |
|     | 56 | 442 | 29,5 | 83,5  | 1590 |
|     | 57 | 442 | 29,5 | 83,5  | 1590 |
|     | 58 | 442 | 29,5 | 83,5  | 1590 |
|     | 60 | 475 | 30   | 89,5  | 1820 |
|     | 65 | 510 | 32   | 97    | 2220 |
|     | 70 | 555 | 35   | 106   | 3000 |
|     | 75 | 590 | 38   | 114   | 3390 |
|     | 76 | 590 | 38   | 114   | 3395 |
|     | 80 | 620 | 40   | 120,5 | 4100 |
|     | 85 | 665 | 42   | 127,5 | 4650 |
|     | 90 | 698 | 45   | 135,5 | 5100 |
|     | 95 | 700 | 45   | 140   | 5600 |

| No.    | AF      | L   | A    | B     |      |
|--------|---------|-----|------|-------|------|
| 840 AF | 13/16   | 171 | 11,5 | 34    | 100  |
|        | 7/8     | 190 | 13   | 37,5  | 140  |
|        | 15/16   | 215 | 15   | 38,5  | 160  |
|        | 1.1/16  | 230 | 16   | 41,5  | 200  |
|        | 1.1/8   | 230 | 16   | 41,5  | 200  |
|        | 1.1/4   | 265 | 19   | 49    | 350  |
|        | 1.5/16  | 265 | 19   | 49    | 350  |
|        | 1.3/8   | 265 | 19   | 49    | 350  |
|        | 1.1/2   | 295 | 22   | 56    | 485  |
|        | 1.5/8   | 330 | 25   | 63,5  | 695  |
|        | 1.3/4   | 330 | 25   | 63,5  | 695  |
|        | 1.13/16 | 365 | 27   | 70,5  | 960  |
|        | 1.7/8   | 365 | 27   | 70,5  | 960  |
|        | 2"      | 400 | 28   | 77    | 1255 |
|        | 2.1/4   | 442 | 29,5 | 83,5  | 1590 |
|        | 2.3/8   | 475 | 30   | 89,5  | 1820 |
|        | 2.1/2   | 475 | 30   | 89,5  | 1820 |
|        | 2.5/8   | 510 | 32   | 97    | 2220 |
|        | 2.3/4   | 555 | 35   | 106   | 3000 |
|        | 2.15/16 | 590 | 38   | 114   | 3390 |
|        | 3"      | 590 | 38   | 114   | 3390 |
|        | 3.1/8   | 620 | 40   | 120,5 | 4100 |

## Schlagringschlüssel

Striking face ring spanners

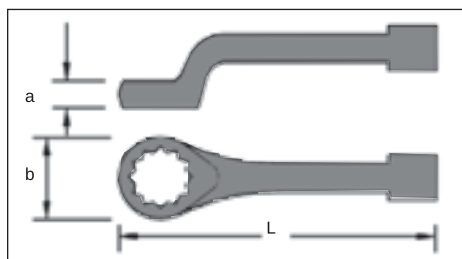
Clés polygonales à frappe

Llave estrellaplana golpe

DIN 3111

Chrom Vanadium Stahl 31 Cr V 3

W. - No. 1.2208



| No. | mm  | L   | A  | B   |  |
|-----|-----|-----|----|-----|-----------------------------------------------------------------------------------|
| 841 | 27  | 270 | 25 | 48  | 410                                                                               |
|     | 30  | 270 | 25 | 48  | 490                                                                               |
|     | 32  | 270 | 25 | 48  | 720                                                                               |
|     | 36  | 310 | 30 | 63  | 840                                                                               |
|     | 41  | 310 | 30 | 63  | 935                                                                               |
|     | 46  | 340 | 35 | 76  | 1300                                                                              |
|     | 50  | 360 | 40 | 89  | 1450                                                                              |
|     | 55  | 360 | 40 | 89  | 1450                                                                              |
|     | 60  | 380 | 45 | 102 | 2400                                                                              |
|     | 65  | 380 | 45 | 102 | 2600                                                                              |
|     | 70  | 400 | 50 | 120 | 2800                                                                              |
|     | 75  | 400 | 50 | 120 | 3000                                                                              |
|     | 80  | 400 | 50 | 120 | 3920                                                                              |
|     | 85  | 450 | 57 | 142 | 4100                                                                              |
|     | 90  | 450 | 57 | 142 | 4950                                                                              |
|     | 95  | 450 | 57 | 142 | 4950                                                                              |
|     | 100 | 450 | 57 | 160 | 4800                                                                              |
|     | 105 | 500 | 67 | 160 | 4800                                                                              |
|     | 110 | 500 | 67 | 160 | 4800                                                                              |
|     | 115 | 500 | 67 | 160 | 4800                                                                              |



| No.    | AF      | L   | A  | B   |  |
|--------|---------|-----|----|-----|-------------------------------------------------------------------------------------|
| 841 AF | 1.1/16  | 270 | 25 | 48  | 720                                                                                 |
|        | 1.1/2   | 310 | 30 | 63  | 935                                                                                 |
|        | 1.1/4   | 270 | 25 | 48  | 720                                                                                 |
|        | 1.1/8   | 270 | 25 | 48  | 720                                                                                 |
|        | 1.3/16  | 270 | 25 | 48  | 720                                                                                 |
|        | 1.3/4   | 340 | 35 | 76  | 1300                                                                                |
|        | 1.3/8   | 310 | 30 | 63  | 935                                                                                 |
|        | 1.5/16  | 270 | 25 | 48  | 720                                                                                 |
|        | 1.5/8   | 310 | 30 | 63  | 935                                                                                 |
|        | 1.7/16  | 310 | 30 | 63  | 935                                                                                 |
|        | 1.7/8   | 340 | 35 | 76  | 1300                                                                                |
|        | 1.11/16 | 340 | 35 | 76  | 1300                                                                                |
|        | 1.13/16 | 340 | 35 | 76  | 1300                                                                                |
|        | 1.15/16 | 360 | 40 | 89  | 1450                                                                                |
|        | 2"      | 360 | 40 | 89  | 1450                                                                                |
|        | 2.1/16  | 360 | 40 | 89  | 1450                                                                                |
|        | 2.1/2   | 360 | 40 | 89  | 1450                                                                                |
|        | 2.1/4   | 360 | 40 | 89  | 1450                                                                                |
|        | 2.1/8   | 360 | 40 | 89  | 1450                                                                                |
|        | 2.3/16  | 360 | 40 | 89  | 1450                                                                                |
|        | 2.3/4   | 400 | 50 | 120 | 3000                                                                                |
|        | 2.3/8   | 380 | 45 | 102 | 2600                                                                                |
|        | 2.5/16  | 380 | 45 | 102 | 2600                                                                                |
|        | 2.5/8   | 380 | 45 | 102 | 2600                                                                                |
|        | 2.7/16  | 380 | 45 | 102 | 2600                                                                                |
|        | 2.7/8   | 400 | 50 | 120 | 3000                                                                                |
|        | 2.9/16  | 380 | 45 | 102 | 2600                                                                                |
|        | 2.13/16 | 400 | 50 | 120 | 3000                                                                                |
|        | 2.15/16 | 400 | 50 | 120 | 3000                                                                                |
|        | 3"      | 400 | 50 | 120 | 3000                                                                                |
|        | 3.1/2   | 450 | 57 | 160 | 4800                                                                                |
|        | 3.1/8   | 400 | 50 | 120 | 3000                                                                                |
|        | 3.3/4   | 450 | 57 | 160 | 4800                                                                                |
|        | 3.3/8   | 450 | 57 | 160 | 4800                                                                                |
|        | 3.5/8   | 450 | 57 | 160 | 4800                                                                                |
|        | 3.7/8   | 450 | 57 | 160 | 4800                                                                                |
|        | 4"      | 450 | 57 | 160 | 4800                                                                                |
|        | 4.1/2   | 500 | 67 | 160 | 4800                                                                                |
|        | 4.1/4   | 500 | 67 | 160 | 4800                                                                                |
|        | 4.1/8   | 500 | 67 | 160 | 4800                                                                                |

**Einmaulschlüssel**

DIN Spanner

Clés plates

Llaves fijas

DIN 894  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208

| No. | mm  | L-mm | A   | B    |      |    |
|-----|-----|------|-----|------|------|----|
| 894 | 6   | 75   | 3,2 | 15,5 | 10   | 10 |
|     | 7   | 80   | 3,5 | 17   | 11   | 10 |
|     | 8   | 95   | 3,5 | 19   | 16   | 10 |
|     | 9   | 100  | 4   | 20   | 20   | 10 |
|     | 10  | 105  | 4,5 | 22   | 20   | 10 |
|     | 11  | 115  | 5   | 24,5 | 25   | 10 |
|     | 12  | 125  | 5   | 26,5 | 35   | 10 |
|     | 13  | 135  | 5,5 | 28,5 | 40   | 10 |
|     | 14  | 140  | 5,5 | 30   | 40   | 10 |
|     | 15  | 145  | 5,5 | 32   | 45   | 10 |
|     | 16  | 147  | 6   | 36   | 70   | 10 |
|     | 17  | 150  | 6   | 36   | 70   | 10 |
|     | 18  | 160  | 6   | 36   | 68   | 10 |
|     | 19  | 170  | 7   | 40   | 80   | 10 |
|     | 22  | 195  | 8   | 46   | 120  | 10 |
|     | 24  | 215  | 9   | 50   | 145  | 10 |
|     | 27  | 240  | 9,5 | 56   | 210  | 10 |
|     | 30  | 260  | 11  | 62   | 270  | 10 |
|     | 32  | 275  | 12  | 66   | 340  | 10 |
|     | 36  | 305  | 13  | 74   | 410  | 5  |
|     | 38  | 340  | 13  | 74   | 410  | 5  |
|     | 41  | 340  | 14  | 84   | 600  | 5  |
|     | 46  | 380  | 15  | 94   | 750  | 5  |
|     | 50  | 410  | 16  | 102  | 980  | 5  |
|     | 55  | 440  | 17  | 112  | 1250 | 1  |
|     | 60  | 510  | 18  | 122  | 1500 | 1  |
|     | 65  | 510  | 19  | 132  | 1820 | 1  |
|     | 70  | 575  | 20  | 142  | 2300 | 1  |
|     | 75  | 610  | 21  | 152  | 2900 | 1  |
|     | 80  | 650  | 22  | 162  | 3700 | 1  |
|     | 85  | 695  | 23  | 173  | 4800 | 1  |
|     | 90  | 695  | 24  | 173  | 4800 | 1  |
|     | 95  | 845  | 24  | 195  | 6000 | 1  |
|     | 100 | 850  | 25  | 195  | 6000 | 1  |
|     | 105 | 1000 | 28  | 217  | 8900 | 1  |
|     | 110 | 1000 | 28  | 217  | 9000 | 1  |
|     | 115 | 1000 | 28  | 220  | 9000 | 1  |
|     | 120 | 1000 | 28  | 220  | 9000 | 1  |
|     | 125 | 1000 | 28  | 220  | 8300 | 1  |
|     | 130 | 1000 | 28  | 225  | 8300 | 1  |
|     | 135 | 1000 | 28  | 225  | 8200 | 1  |

**Doppel-Maulschlüssel**

Double-ended

open-jawed spanners

Clés plates doubles à ouvertures

Llaves fijas, bocas abiertas Industrial

DIN 895  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208

| No. | mm    | L-mm | a    | b1   | b2   |      |    |
|-----|-------|------|------|------|------|------|----|
| 895 | 6x7   | 95   | 3,2  | 15   | 17   | 15   | 10 |
|     | 7x8   | 110  | 3,5  | 17   | 19   | 20   | 10 |
|     | 8x9   | 110  | 3,7  | 19   | 20,5 | 21   | 10 |
|     | 8x10  | 115  | 4,2  | 19   | 22   | 26   | 10 |
|     | 9x10  | 120  | 5    | 20,5 | 22   | 29   | 10 |
|     | 9x11  | 125  | 5    | 20,5 | 24   | 30   | 10 |
|     | 10x11 | 125  | 5    | 22   | 24,5 | 31   | 10 |
|     | 10x12 | 125  | 5    | 22   | 26,5 | 34   | 10 |
|     | 10x13 | 130  | 5    | 22   | 28,5 | 41   | 10 |
|     | 11x13 | 140  | 5,5  | 24,5 | 28,5 | 45   | 10 |
|     | 12x13 | 140  | 5,5  | 26,5 | 28,5 | 50   | 10 |
|     | 12x14 | 140  | 5,5  | 26,5 | 30   | 50   | 10 |
|     | 13x14 | 145  | 5,5  | 28,5 | 30   | 50   | 10 |
|     | 13x15 | 150  | 5,5  | 28,5 | 32   | 60   | 10 |
|     | 13x17 | 155  | 6    | 28,5 | 36   | 75   | 10 |
|     | 14x15 | 150  | 5,5  | 30   | 32   | 60   | 10 |
|     | 14x17 | 160  | 6    | 30   | 36   | 70   | 10 |
|     | 16x17 | 160  | 6    | 33   | 36   | 75   | 10 |
|     | 16x18 | 160  | 6    | 33   | 36   | 75   | 10 |
|     | 17x19 | 170  | 7    | 36   | 40   | 95   | 10 |
|     | 17x22 | 190  | 8    | 36   | 46   | 145  | 10 |
|     | 18x19 | 170  | 7    | 36   | 40   | 95   | 10 |
|     | 19x22 | 195  | 8    | 40   | 46   | 145  | 10 |
|     | 19x24 | 215  | 9    | 40   | 50   | 140  | 10 |
|     | 20x22 | 215  | 8    | 42,5 | 46   | 170  | 10 |
|     | 21x23 | 215  | 9    | 44   | 49   | 180  | 10 |
|     | 22x24 | 220  | 9    | 46   | 50   | 200  | 10 |
|     | 22x27 | 235  | 10   | 46   | 56   | 230  | 10 |
|     | 24x26 | 245  | 10   | 50   | 56   | 230  | 10 |
|     | 24x27 | 245  | 10   | 50   | 56   | 250  | 5  |
|     | 25x28 | 270  | 11   | 56   | 62   | 340  | 5  |
|     | 27x30 | 270  | 11   | 56   | 62   | 340  | 5  |
|     | 27x32 | 270  | 12   | 56   | 66   | 370  | 5  |
|     | 30x32 | 275  | 12   | 62   | 66   | 430  | 5  |
|     | 30x34 | 305  | 13   | 62   | 74   | 500  | 5  |
|     | 30x36 | 305  | 13   | 62   | 74   | 500  | 1  |
|     | 32x36 | 305  | 13   | 66   | 74   | 500  | 1  |
|     | 36x41 | 345  | 14   | 74   | 84   | 700  | 1  |
|     | 41x46 | 390  | 15   | 84   | 94   | 920  | 1  |
|     | 46x50 | 420  | 16   | 94   | 102  | 1300 | 1  |
|     | 50x55 | 480  | 16,5 | 102  | 112  | 1400 | 1  |
|     | 55x60 | 480  | 18   | 112  | 122  | 1900 | 1  |
|     | 65x70 | 580  | 20   | 132  | 142  | 2310 | 1  |
|     | 75x80 | 665  | 21   | 152  | 162  | 4480 | 1  |



**Hakenschlüssel mit Nase DIN 1810 A,  
für Nutmuttern DIN 1804 und Wälzlagermuttern  
DIN 981, Spezialstahl gehärtet und im Brünierton  
angelassen**

Hooked spanner according to DIN 1810 A for nuts with DIN 1804  
and DIN 981 special steel  
Cle articulée a ergot  
Llave de gancho articulada



| No. |  | L   | XXX |  |  |
|-----|-----------------------------------------------------------------------------------|-----|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 896 | 12-14                                                                             | 110 | 3   | 25                                                                                | 5                                                                                 |
|     | 16-20                                                                             | 110 | 3   | 25                                                                                | 5                                                                                 |
|     | 25-28                                                                             | 136 | 4   | 45                                                                                | 5                                                                                 |
|     | 30-32                                                                             | 136 | 4   | 50                                                                                | 5                                                                                 |
|     | 34-36                                                                             | 170 | 5   | 90                                                                                | 5                                                                                 |
|     | 40-42                                                                             | 170 | 5   | 90                                                                                | 5                                                                                 |
|     | 45-50                                                                             | 206 | 6   | 155                                                                               | 5                                                                                 |
|     | 52-55                                                                             | 206 | 6   | 160                                                                               | 5                                                                                 |
|     | 58-62                                                                             | 240 | 7   | 260                                                                               | 5                                                                                 |
|     | 68-75                                                                             | 260 | 7   | 255                                                                               | 5                                                                                 |
|     | 80-90                                                                             | 280 | 8   | 410                                                                               | 5                                                                                 |
|     | 95-100                                                                            | 280 | 8   | 405                                                                               | 5                                                                                 |
|     | 110-115                                                                           | 335 | 10  | 745                                                                               | 5                                                                                 |
|     | 120-130                                                                           | 335 | 10  | 720                                                                               | 5                                                                                 |
|     | 135-145                                                                           | 385 | 10* | 1000                                                                              | 3                                                                                 |
|     | 155-165                                                                           | 385 | 10* | 965                                                                               | 3                                                                                 |
|     | 180-195                                                                           | 470 | 10* | 1500                                                                              | 3                                                                                 |
|     | 205-220                                                                           | 470 | 10* | 1580                                                                              | 1                                                                                 |
|     | 230-245                                                                           | 568 | 10* | 2250                                                                              | 1                                                                                 |

**Hakenschlüssel mit Nase DIN 1810 A,  
für Nutmuttern DIN 1804 und Wälzlagermuttern  
DIN 981, Spezialstahl gehärtet und im Brünierton  
angelassen**

Hooked spanner according to DIN 1810 A for nuts with DIN 1804  
and DIN 981, special steel  
Cle articulée a ergot  
Llave de gancho articulada



| No. |  | L   | XXX  |  |  |
|-----|-------------------------------------------------------------------------------------|-----|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 897 | 20-35                                                                               | 135 | 8    | 50                                                                                  | 5                                                                                   |
|     | 35-60                                                                               | 175 | 10,5 | 100                                                                                 | 5                                                                                   |
|     | 60-90                                                                               | 250 | 12,5 | 280                                                                                 | 5                                                                                   |
|     | 90-155                                                                              | 290 | 15   | 455                                                                                 | 3                                                                                   |
|     | 155-230                                                                             | 420 | 17,5 | 1000                                                                                | 1                                                                                   |

**Zweilochmutterndreher, Spezialstahl,  
gehärtet und im Brünierton angelassen**

DIN 3116 A

2-nut rotater, special steel  
Cle pour écrous à deux trous frontaux  
Llaves de pivotes



| No. |  |  |  |  |  |  |  |
|-----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 821 | 13                                                                                | 2,5                                                                                 | 3                                                                                   | 90                                                                                  | 3                                                                                   | 27                                                                                  | 10                                                                                  |
|     | 15                                                                                | 3                                                                                   | 4                                                                                   | 90                                                                                  | 3                                                                                   | 27                                                                                  | 10                                                                                  |
|     | 20                                                                                | 3                                                                                   | 5                                                                                   | 122                                                                                 | 4                                                                                   | 50                                                                                  | 10                                                                                  |
|     | 25                                                                                | 3                                                                                   | 4                                                                                   | 137                                                                                 | 4                                                                                   | 65                                                                                  | 10                                                                                  |
|     | 30                                                                                | 4                                                                                   | 5                                                                                   | 164                                                                                 | 4                                                                                   | 85                                                                                  | 10                                                                                  |
|     | 35                                                                                | 5                                                                                   | 6                                                                                   | 180                                                                                 | 5                                                                                   | 120                                                                                 | 10                                                                                  |
|     | 40                                                                                | 4                                                                                   | 5                                                                                   | 167                                                                                 | 5                                                                                   | 120                                                                                 | 10                                                                                  |
|     | 45                                                                                | 4                                                                                   | 5                                                                                   | 187                                                                                 | 5                                                                                   | 145                                                                                 | 10                                                                                  |
|     | 50                                                                                | 5                                                                                   | 6                                                                                   | 198                                                                                 | 5                                                                                   | 175                                                                                 | 10                                                                                  |
|     | 60                                                                                | 5                                                                                   | 6                                                                                   | 213                                                                                 | 6                                                                                   | 220                                                                                 | 10                                                                                  |
|     | 75                                                                                | 6                                                                                   | 7                                                                                   | 243                                                                                 | 6                                                                                   | 330                                                                                 | 10                                                                                  |
|     | 90                                                                                | 7                                                                                   | 7,5                                                                                 | 270                                                                                 | 6                                                                                   | 410                                                                                 | 10                                                                                  |

**Dreikant-Steckschlüssel, Spezialstahl,  
Schaft und Drehstift verzinkt**

DIN 22417 A

Triangular socket spanner  
Clé spécial, Tige et broche de manoeuvre linguées  
Llaves de tubo triangulaves



| No. | Größe | Größe | Länge  |  |  |
|-----|-------|-------|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 824 | M 4   | 6,8   | 90x10  | 20                                                                                    | 10                                                                                    |
|     | M 5   | 8,3   | 100x12 | 30                                                                                    | 4                                                                                     |
|     | M 6   | 10,05 | 112x14 | 60                                                                                    | 4                                                                                     |
|     | M 8   | 12,05 | 125x16 | 80                                                                                    | 4                                                                                     |
|     | M10   | 15,05 | 140x20 | 160                                                                                   | 4                                                                                     |
|     | M12   | 16,55 | 160x22 | 240                                                                                   | 4                                                                                     |
|     | M16   | 20,55 | 180x25 | 400                                                                                   | 4                                                                                     |

**Hakenschlüssel mit Zapfen, DIN 1810 B, für Kreuzlochmuttern DIN 1816, Spezialstahl gehärtet und im Brünierton angelassen**

Hooked spanner according to DIN 1810 B, special steel

Cle articulée à ergot

Llave de gancho articulada



| No. |         | Zapfen | Zapfen | L   |     |   |
|-----|---------|--------|--------|-----|-----|---|
| 898 | 12-14   | 2      | 2      | 110 | 25  | 5 |
|     | 16-18   | 2,5    | 2,5    | 110 | 25  | 5 |
|     | 20-22   | 2,5    | 2,5    | 110 | 25  | 5 |
|     | 25-28   | 3      | 3      | 136 | 55  | 5 |
|     | 30-32   | 4      | 3      | 136 | 55  | 5 |
|     | 34-36   | 4      | 3,5    | 170 | 100 | 5 |
|     | 40-42   | 4      | 3,5    | 170 | 100 | 5 |
|     | 45-50   | 5      | 4      | 206 | 165 | 5 |
|     | 52-55   | 5      | 4      | 206 | 165 | 5 |
|     | 58-62   | 5      | 5      | 240 | 270 | 5 |
|     | 68-75   | 6      | 5      | 240 | 270 | 5 |
|     | 80-90   | 6      | 6      | 280 | 410 | 5 |
|     | 95-100  | 8      | 6      | 280 | 410 | 3 |
|     | 110-115 | 8      | 8      | 335 | 610 | 3 |
|     | 120-130 | 8      | 8      | 335 | 610 | 1 |
|     | 135-145 | 8      | 8      | 380 | 790 | 1 |
|     | 155-165 | 8      | 8      | 380 | 790 | 1 |

**Verstellbarer Zweilochmutterndreher, Spezialstahl, im Brünierton angelassen**

Reverseable 2-hde nut rotater, special steel

Cle à ergots, réglable pour écrous à deux trous frontaux



| No. |        |           |         |     |   |     |    |
|-----|--------|-----------|---------|-----|---|-----|----|
| 899 | 7-40   | 1,5-2-2,5 | 2-2,5-3 | 115 | 3 | 40  | 10 |
|     | 11-60  | 3-4-5     | 4-5-6   | 160 | 4 | 140 | 10 |
|     | 14-100 | 5-6-8     | 6-7-8   | 215 | 6 | 300 | 10 |
|     | 22-125 | 8-10-12   | 8-10-12 | 260 | 6 | 500 | 10 |

**Verstellbarer Hakenschlüssel mit Nase, Spezialstahl geschliffen, gehärtet und im Brünierton angelassen**

Reverseable hook spanner, special steel

Cle à ergot, réglable



| No. |        |     |    |     |    |  |
|-----|--------|-----|----|-----|----|--|
| 843 | 20-42  | 180 | 4  | 100 | 10 |  |
|     | 45-90  | 240 | 6  | 250 | 10 |  |
|     | 95-165 | 335 | 10 | 710 | 10 |  |

**Gelenk-Hakenschlüssel mit Zapfen, Spezialstahl, hochkant geschliffen, gehärtet und im Brünierton angelassen**

Hook spanner with joint, special steel

Cle à ergot articulée



| No. |         |     |       |      |      |    |
|-----|---------|-----|-------|------|------|----|
| 844 | 20-35   | 2,5 | 135/4 | 7    | 50   | 10 |
|     | 35-60   | 4   | 175/5 | 10   | 100  | 10 |
|     | 60-90   | 5   | 250/7 | 13   | 280  | 10 |
|     | 90-155  | 6   | 290/8 | 14,5 | 460  | 10 |
|     | 155-230 | 8   | 420/8 | 18,5 | 1000 | 10 |

**Gelenk-Zweilochmutterndreher, Spezialstahl, im Brünierton angelassen**

2-nut rotater with joint, cranked, special steel

Cle à ergots articulée pour écrous à deux trous frontaux

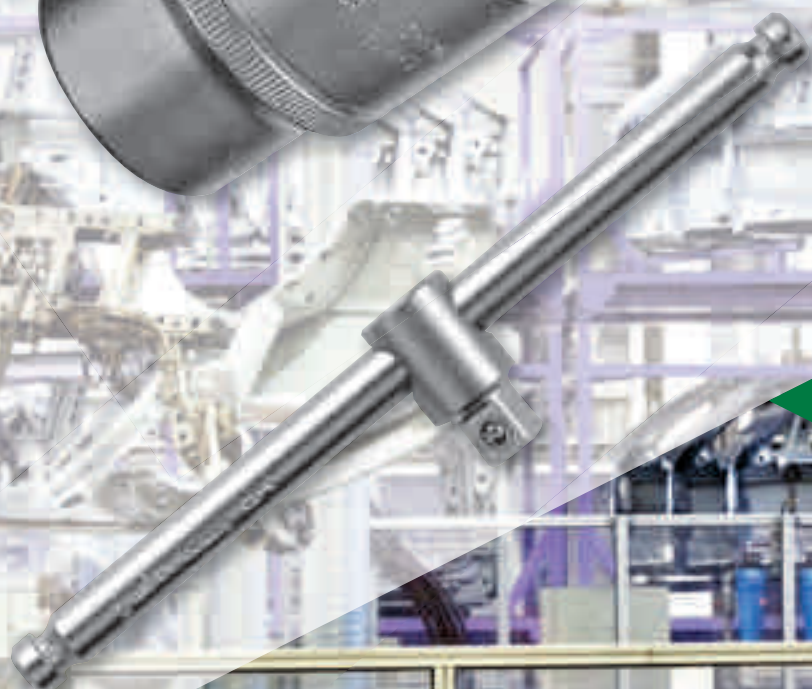


| No. |         |   |         |     |    |      |    |
|-----|---------|---|---------|-----|----|------|----|
| 846 | 18-40   | 3 | 4-5     | 150 | 5  | 90   | 10 |
|     | 40-80   | 4 | 5-6-7   | 220 | 6  | 245  | 10 |
|     | 80-125  | 6 | 7-7,5-8 | 320 | 8  | 670  | 10 |
|     | 125-200 | 8 | 8-10    | 450 | 10 | 1750 | 10 |

|                                                                                  |                                                   |                                               |                                        |                                                        | Width<br>Across Flats                                                             |        |        | Diameter of Thread       |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        | Diameter of<br>Bolts |  | Width<br>Across Flats |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------|----------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------|--------|--------|--------------------------|-------------------------|------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------|--------------------|--------|----------------------|--|-----------------------|--|--|--|--|--|--|--|--|
|                                                                                  |                                                   |                                               |                                        |                                                        |                                                                                   |        |        |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
|                                                                                  |                                                   |                                               |                                        |                                                        |                                                                                   |        |        |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
|  | Deutschland (BRD)<br>Metrisch nach<br>DIN und ISO | Frankreich<br>NF E 27-311 (69)<br>27-411 (69) | Schweden<br>SIS 2164-1967<br>2175-1971 | Metrisch für HV-<br>Verbindungen nach<br>DIN 6914-6915 |  | Inches | mm     | Normal Series BS<br>1768 | Heavy Series BS<br>1769 | Square Bolt,<br>Hex Bolt, Hex Cap<br>Screw (Finished Hex<br>Bolt), Lag Screw | Heavy Hex Bolt<br>Heavy Hex Screw<br>Heavy Structural Bolt | Hex Flat, Hex Flat<br>Jam, Hex Hex Jam,<br>Hex, Slotted, Hex<br>Thick, Hex Thick,<br>Slotted, Hex Castle | Hex Square, Heavy<br>Hex Flat, Heavy Hex<br>Flat Jam, Heavy Hex,<br>Heavy Hex Jam,<br>Heavy Hex, Slotted | Square Nut |  | BS<br>9160<br>1083 | Inches | mm                   |  |                       |  |  |  |  |  |  |  |  |
| 2,5                                                                              | 1                                                 |                                               |                                        |                                                        |                                                                                   |        |        |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 3                                                                                | 1,4 u. 1,2                                        |                                               |                                        |                                                        |                                                                                   |        |        |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 3,2                                                                              | 1,6                                               |                                               |                                        |                                                        |                                                                                   |        |        |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 4                                                                                | 2                                                 |                                               | 2u.2,2                                 |                                                        | 5/32                                                                              | 0,1562 | 3,97   |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            | 8BA                                                                                 |                    | 0,152  | 3,86                 |  |                       |  |  |  |  |  |  |  |  |
| 4,5                                                                              | 2,3                                               |                                               |                                        |                                                        |                                                                                   |        |        |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            | 7BA                                                                                 |                    | 0,172  | 4,37                 |  |                       |  |  |  |  |  |  |  |  |
| 5                                                                                | 2,5                                               |                                               | 2,5                                    |                                                        | 3/16                                                                              | 0,1875 | 4,76   |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            | 6BA                                                                                 |                    | 0,193  | 4,90                 |  |                       |  |  |  |  |  |  |  |  |
| 5,5                                                                              | 3                                                 | 3                                             | 3u.3,5                                 |                                                        | 7/32                                                                              | 0,2187 | 5,56   |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            | 5BA                                                                                 |                    | 0,220  | 5,59                 |  |                       |  |  |  |  |  |  |  |  |
| 6                                                                                | 3,5                                               | 3,5                                           |                                        |                                                        | 1/4                                                                               | 0,25   | 6,35   |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            | 4BA                                                                                 |                    | 0,248  | 6,30                 |  |                       |  |  |  |  |  |  |  |  |
|                                                                                  |                                                   |                                               |                                        |                                                        |                                                                                   |        |        |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            | 1/16W                                                                               |                    | 0,256  | 6,50                 |  |                       |  |  |  |  |  |  |  |  |
| 7                                                                                | 4                                                 | 4                                             | 4u.4,5                                 |                                                        | 9/32                                                                              | 0,2812 | 7,14   |                          |                         | No. 10                                                                       |                                                            |                                                                                                          |                                                                                                          |            | 3BA                                                                                 |                    | 0,282  | 7,16                 |  |                       |  |  |  |  |  |  |  |  |
| 7+8                                                                              | 5                                                 | 5                                             | 5                                      |                                                        | 5/16                                                                              | 0,3125 | 7,94   |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            | 3/32W                                                                               |                    | 0,297  | 7,54                 |  |                       |  |  |  |  |  |  |  |  |
|                                                                                  |                                                   |                                               |                                        |                                                        |                                                                                   |        |        |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            | 2BA                                                                                 |                    | 0,324  | 8,23                 |  |                       |  |  |  |  |  |  |  |  |
| 9                                                                                | 5 Alt                                             |                                               |                                        |                                                        | 11/32                                                                             | 0,3438 | 8,73   |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            | 1/8W                                                                                | (3/16)             | 0,340  | 8,64                 |  |                       |  |  |  |  |  |  |  |  |
|                                                                                  |                                                   |                                               |                                        |                                                        | 3/8                                                                               | 0,3750 | 9,52   |                          |                         | 1/4*                                                                         |                                                            |                                                                                                          |                                                                                                          |            | 1BA                                                                                 |                    | 0,365  | 9,27                 |  |                       |  |  |  |  |  |  |  |  |
| 8+10                                                                             | 6                                                 | 6                                             | 6                                      |                                                        | 13/32                                                                             | 0,4062 | 10,32  |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            | 0BA                                                                                 | (7/32)             | 0,413  | 10,49                |  |                       |  |  |  |  |  |  |  |  |
| 11                                                                               | 7                                                 | 7                                             | 7                                      |                                                        | 7/16                                                                              | 0,4375 | 11,11  | 1/4                      |                         | 1/4                                                                          |                                                            | 1/4                                                                                                      |                                                                                                          | 1/4        | 3/16W                                                                               | 1/4                | 0,445  | 11,30                |  |                       |  |  |  |  |  |  |  |  |
| 12                                                                               |                                                   |                                               |                                        |                                                        |                                                                                   |        |        |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 10+13                                                                            | 8                                                 | 8                                             | 8                                      |                                                        | 1/2                                                                               | 0,5000 | 12,70  | 5/16                     |                         | 5/16                                                                         |                                                            | 5/16                                                                                                     | 1/4                                                                                                      |            | 1/4W                                                                                | 5/16               | 0,525  | 13,34                |  |                       |  |  |  |  |  |  |  |  |
| 14*                                                                              | 8 Alt                                             |                                               |                                        |                                                        | 9/16                                                                              | 0,5625 | 14,29  | 3/8                      |                         | 3/8                                                                          |                                                            | 3/8                                                                                                      | 3/8                                                                                                      | 5/16       |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 15                                                                               | 10 KFZ                                            |                                               |                                        |                                                        | 19/32                                                                             | 0,5938 | 15,08  |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            | 5/16W                                                                               | 3/8                | 0,600  | 15,24                |  |                       |  |  |  |  |  |  |  |  |
| 16                                                                               |                                                   |                                               |                                        |                                                        | 5/8                                                                               | 0,6250 | 15,88  | 7/16                     |                         | 7/16                                                                         |                                                            |                                                                                                          |                                                                                                          | 3/8        |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 13+15+17                                                                         | 10                                                | 10                                            | 10                                     |                                                        | 11/16                                                                             | 0,6875 | 17,46  | 7/16                     |                         |                                                                              |                                                            | 7/16                                                                                                     | 3/8                                                                                                      |            | 3/8W                                                                                | 7/16               | 0,710  | 18,03                |  |                       |  |  |  |  |  |  |  |  |
| 18                                                                               |                                                   |                                               |                                        |                                                        |                                                                                   |        |        |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 15+18+19                                                                         | 12                                                | 12                                            | 12                                     |                                                        | 3/4                                                                               | 0,7500 | 19,05  | 1/2                      |                         | 1/2                                                                          |                                                            | 1/2                                                                                                      | 7/16                                                                                                     | 7/16       |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 20*                                                                              |                                                   |                                               |                                        |                                                        | 25/32                                                                             | 0,7812 | 19,84  |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 18+21                                                                            |                                                   |                                               |                                        |                                                        | 13/16                                                                             | 0,8125 | 20,64  | 9/16                     | 1/2                     | 9/16                                                                         | 1/2                                                        |                                                                                                          |                                                                                                          | 1/2        | 7/16W                                                                               | 1/2                | 0,820  | 20,83                |  |                       |  |  |  |  |  |  |  |  |
| 22+24                                                                            | 14                                                | 14                                            | 14                                     |                                                        | 7/8                                                                               | 0,8750 | 22,22  | 9/16                     |                         |                                                                              |                                                            | 9/16                                                                                                     | 1/2                                                                                                      |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 23*                                                                              |                                                   |                                               |                                        | 12                                                     |                                                                                   |        |        |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 21+24                                                                            | 16                                                | 16                                            | 16                                     |                                                        | 15/16                                                                             | 0,9375 | 23,81  | 5/8                      |                         | 5/8                                                                          |                                                            | 5/8                                                                                                      | 9/16                                                                                                     |            | 1/2W                                                                                | 9/16               | 0,920  | 23,37                |  |                       |  |  |  |  |  |  |  |  |
| 25+27                                                                            |                                                   |                                               |                                        |                                                        | 1.                                                                                | 1,0000 | 25,40  |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          | 5/8        |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 26*                                                                              |                                                   |                                               |                                        |                                                        |                                                                                   |        |        |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 27                                                                               |                                                   |                                               |                                        |                                                        | 1.1/16                                                                            | 1,0625 | 26,99  |                          | 5/8                     |                                                                              | 5/8                                                        |                                                                                                          | 5/8                                                                                                      |            | 9/16W                                                                               | 5/8                | 1,010  | 25,65                |  |                       |  |  |  |  |  |  |  |  |
| 27+28+30                                                                         | 18                                                | 18                                            | 18                                     | 16                                                     |                                                                                   |        |        |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            | 5/8W                                                                                | (11/16)            | 1,100  | 27,94                |  |                       |  |  |  |  |  |  |  |  |
|                                                                                  |                                                   |                                               |                                        |                                                        |                                                                                   |        |        |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 27+30+34                                                                         | 20                                                | 20                                            | 20                                     |                                                        | 1.1/8                                                                             | 1,1250 | 28,58  | 3/4                      |                         | 3/4                                                                          |                                                            | 3/4                                                                                                      |                                                                                                          | 3/4        |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 32+36+41                                                                         | 22                                                | 22                                            | 22                                     |                                                        | 1.3/16                                                                            | 1,1875 | 30,16  |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            | 11/16W                                                                              | 3/4                | 1,200  | 30,48                |  |                       |  |  |  |  |  |  |  |  |
|                                                                                  |                                                   |                                               |                                        |                                                        | 1.1/4                                                                             | 1,2500 | 31,75  |                          | 3/4                     |                                                                              | 3/4                                                        |                                                                                                          | 3/4                                                                                                      |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 34                                                                               | 22                                                |                                               |                                        | 20                                                     | 1.5/16                                                                            | 1,3125 | 33,34  | 7/8                      |                         | 7/8                                                                          |                                                            | 7/8                                                                                                      |                                                                                                          | 7/8        | 3/4W                                                                                | 7/8                | 1,300  | 33,02                |  |                       |  |  |  |  |  |  |  |  |
| 36+41                                                                            | 24                                                | 24                                            | 24                                     |                                                        | 1.3/8                                                                             | 1,3750 | 34,92  |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            | 13/16W                                                                              | (15/16)            | 1,390  | 35,31                |  |                       |  |  |  |  |  |  |  |  |
|                                                                                  |                                                   |                                               |                                        |                                                        | 1.7/16                                                                            | 1,4375 | 36,51  | 7/8                      |                         | 7/8                                                                          |                                                            | 7/8                                                                                                      |                                                                                                          | 7/8        |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 38*                                                                              |                                                   |                                               |                                        | 22                                                     | 1.1/2                                                                             | 1,5000 | 38,10  | 1                        |                         | 1                                                                            | 1                                                          | 1                                                                                                        | 1                                                                                                        | 1          | 7/8W                                                                                | 1.                 | 1,480  | 37,59                |  |                       |  |  |  |  |  |  |  |  |
| 41+46                                                                            | 27                                                | 27                                            | 27                                     |                                                        | 1.5/8                                                                             | 1,6250 | 41,28  |                          | 1                       |                                                                              | 1                                                          | 1                                                                                                        | 1                                                                                                        | 1          |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
|                                                                                  |                                                   |                                               |                                        | 24                                                     | 1.11/16                                                                           | 1,6875 | 42,86  | 1.1/8                    |                         | 1.1/8                                                                        |                                                            | 1.1/8                                                                                                    |                                                                                                          | 1.1/8      | 1W                                                                                  | 1.1/8              | 1,670  | 42,42                |  |                       |  |  |  |  |  |  |  |  |
| 46+50                                                                            | 30                                                | 30                                            | 30                                     |                                                        | 1.3/4                                                                             | 1,7500 | 44,45  |                          | 1.1/8                   |                                                                              | 1.1/8                                                      |                                                                                                          | 1.1/8                                                                                                    |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
|                                                                                  |                                                   |                                               |                                        | 27                                                     | 1.13/16                                                                           | 1,8125 | 46,04  |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
|                                                                                  |                                                   |                                               |                                        |                                                        | 1.7/8                                                                             | 1,8750 | 47,62  | 1.1/4                    |                         | 1.1/4                                                                        |                                                            | 1.1/4                                                                                                    |                                                                                                          | 1.1/4      | 1.1/8W                                                                              | 1.1/4              | 1,860  | 47,24                |  |                       |  |  |  |  |  |  |  |  |
| 50+55                                                                            | 33                                                | 33                                            | 33                                     |                                                        | 2.                                                                                | 2,0000 | 50,80  | 1.1/4                    |                         | 1.1/4                                                                        |                                                            | 1.1/4                                                                                                    |                                                                                                          | 1.1/4      |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
|                                                                                  |                                                   |                                               |                                        |                                                        | 2.1/16                                                                            | 2,0625 | 52,39  | 1.3/8                    |                         | 1.3/8                                                                        |                                                            | 1.3/8                                                                                                    |                                                                                                          | 1.3/8      | 1.1/4W                                                                              | 1.3/8              | 2,050  | 52,07                |  |                       |  |  |  |  |  |  |  |  |
| 55+60                                                                            | 36                                                | 36                                            | 36                                     |                                                        | 2.3/16                                                                            | 2,1875 | 55,56  |                          | 1.3/8                   |                                                                              | 1.3/8                                                      |                                                                                                          | 1.3/8                                                                                                    |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
|                                                                                  |                                                   |                                               |                                        |                                                        | 2.1/4                                                                             | 2,2500 | 57,15  | 1.1/2                    |                         | 1.1/2                                                                        |                                                            | 1.1/2                                                                                                    |                                                                                                          | 1.1/2      | 1.3/8W                                                                              | 1.1/2              | 2,220  | 56,39                |  |                       |  |  |  |  |  |  |  |  |
| 60+65                                                                            | 39                                                | 39                                            | 39                                     |                                                        | 2.3/8                                                                             | 2,3750 | 60,32  |                          | 1.1/2                   |                                                                              | 1.1/2                                                      |                                                                                                          | 1.1/2                                                                                                    |            | 1.1/2W                                                                              | 1.5/8              | 2,410  | 61,21                |  |                       |  |  |  |  |  |  |  |  |
|                                                                                  |                                                   |                                               |                                        |                                                        | 2.7/16                                                                            | 2,4375 | 61,91  |                          |                         | 1.5/8                                                                        |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 65                                                                               | 42                                                | 42                                            | 42                                     |                                                        | 2.9/16                                                                            | 2,5625 | 65,09  |                          |                         | 1.5/8                                                                        |                                                            | 1.5/8                                                                                                    |                                                                                                          | 1.5/8      | 1.5/8W                                                                              | 1.3/4              | 2,580  | 65,53                |  |                       |  |  |  |  |  |  |  |  |
|                                                                                  |                                                   |                                               |                                        |                                                        | 2.5/8                                                                             | 2,6250 | 66,68  | 1.3/4                    |                         | 1.3/4                                                                        |                                                            | 1.3/4                                                                                                    |                                                                                                          | 1.3/4      |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 70                                                                               | 45                                                | 45                                            | 45                                     |                                                        | 2.3/4                                                                             | 2,7500 | 69,85  | 1.3/4                    |                         |                                                                              | 1.3/4                                                      |                                                                                                          | 1.3/4                                                                                                    |            | 1.3/4W                                                                              | 2.                 | 2,760  | 70,10                |  |                       |  |  |  |  |  |  |  |  |
|                                                                                  |                                                   |                                               |                                        |                                                        | 2.13/16                                                                           | 2,8125 | 71,44  |                          |                         | 1.7/8                                                                        |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 75                                                                               | 48                                                | 48                                            | 48                                     |                                                        | 2.15/16                                                                           | 2,9375 | 74,61  |                          |                         |                                                                              | 1.7/8                                                      |                                                                                                          | 1.7/8                                                                                                    |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
|                                                                                  |                                                   |                                               |                                        |                                                        | 3                                                                                 | 3,0000 | 76,20  | 2                        |                         | 2                                                                            |                                                            |                                                                                                          |                                                                                                          |            | (1.7/8W)                                                                            |                    |        | 76,70                |  |                       |  |  |  |  |  |  |  |  |
| 80                                                                               | 52                                                | 52                                            | 52                                     |                                                        | 3.1/8                                                                             | 3,1250 | 79,38  |                          | 2                       |                                                                              | 2                                                          |                                                                                                          | 2                                                                                                        |            | 2.W                                                                                 | 2.1/4              | 3,150  | 80,01                |  |                       |  |  |  |  |  |  |  |  |
| 85                                                                               | 56                                                | 56                                            | 56                                     |                                                        | 3.3/8                                                                             | 3,3750 | 85,72  |                          |                         | 2.1/4                                                                        |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 90                                                                               | 60                                                | 60                                            | 60                                     |                                                        | 3.1/2                                                                             | 3,5000 | 88,90  |                          |                         |                                                                              | 2.1/4                                                      |                                                                                                          | 2.1/4                                                                                                    |            |                                                                                     | 2.1/2              | 3,550  | 90,17                |  |                       |  |  |  |  |  |  |  |  |
| 95                                                                               | 64                                                | 64                                            | 64                                     |                                                        | 3.3/4                                                                             | 3,7500 | 95,25  |                          |                         | 2.1/2                                                                        |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 100                                                                              | 68                                                | 68                                            | 68                                     |                                                        | 3.7/8                                                                             | 3,8750 | 98,42  |                          |                         |                                                                              | 2.1/2                                                      |                                                                                                          | 2.1/2                                                                                                    |            |                                                                                     | 2.3/4              | 3,890  | 98,81                |  |                       |  |  |  |  |  |  |  |  |
| 105                                                                              | 72                                                | 72                                            | 72                                     |                                                        | 4.1/8                                                                             | 4,1250 | 104,78 |                          |                         | 2.3/4                                                                        |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     | 3                  | 4,180  | 106,17               |  |                       |  |  |  |  |  |  |  |  |
| 110                                                                              | 76                                                | 76                                            | 76                                     |                                                        | 4.1/4                                                                             | 4,2500 | 107,95 |                          |                         |                                                                              | 2.3/4                                                      |                                                                                                          | 2.3/4                                                                                                    |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 115                                                                              | 80                                                | 80                                            | 80                                     |                                                        | 4.1/2                                                                             | 4,5000 | 114,30 |                          |                         | 3                                                                            |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     | 3.1/4              | 4,530  | 115,06               |  |                       |  |  |  |  |  |  |  |  |
| 120                                                                              | 85                                                | 85                                            | 85                                     |                                                        | 4.5/8                                                                             | 4,6250 | 117,48 |                          |                         |                                                                              | 3                                                          |                                                                                                          | 3                                                                                                        |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 125                                                                              |                                                   |                                               |                                        |                                                        | 4.7/8                                                                             | 4,8750 | 123,82 |                          |                         | 3.1/4                                                                        |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     | 3.1/2              | 4,850  | 123,19               |  |                       |  |  |  |  |  |  |  |  |
|                                                                                  |                                                   |                                               |                                        |                                                        | 5                                                                                 | 5,0000 | 127,00 |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     | 3.1/4              |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 130                                                                              | 90                                                | 90                                            | 90                                     |                                                        | 5.1/4                                                                             | 5,2500 | 133,35 |                          |                         | 3.1/2                                                                        |                                                            |                                                                                                          | 3.1/2                                                                                                    |            |                                                                                     | 3.3/4              | 5,180  | 131,57               |  |                       |  |  |  |  |  |  |  |  |
| 135                                                                              | 95                                                | 95                                            | 95                                     |                                                        | 5.3/8                                                                             | 5,3750 | 136,52 |                          |                         |                                                                              |                                                            |                                                                                                          | 3.1/2                                                                                                    |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 140                                                                              |                                                   |                                               |                                        |                                                        | 5.5/8                                                                             | 5,6250 | 142,88 |                          |                         | 3.3/4                                                                        |                                                            |                                                                                                          | 3.3/4                                                                                                    |            |                                                                                     | 4                  | 5,550  | 140,97               |  |                       |  |  |  |  |  |  |  |  |
| 145                                                                              | 100                                               | 100                                           | 100                                    |                                                        | 5.3/4                                                                             | 5,7500 | 146,05 |                          |                         |                                                                              |                                                            |                                                                                                          | 3.3/4                                                                                                    |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 150                                                                              | 105                                               | 105                                           | 105                                    |                                                        | 6                                                                                 | 6,0000 | 152,40 |                          |                         | 4                                                                            |                                                            |                                                                                                          | 4                                                                                                        |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 155                                                                              | 110                                               | 110                                           | 110                                    |                                                        | 6.1/8                                                                             | 6,1250 | 155,58 |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     | 4.1/2              | 6,380  | 162,05               |  |                       |  |  |  |  |  |  |  |  |
| 160                                                                              |                                                   |                                               |                                        |                                                        |                                                                                   |        |        |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |
| 165                                                                              | 115                                               | 115                                           | 115                                    |                                                        |                                                                                   |        |        |                          |                         |                                                                              |                                                            |                                                                                                          |                                                                                                          |            |                                                                                     |                    |        |                      |  |                       |  |  |  |  |  |  |  |  |

\* nicht genormt





**STECKSCHLÜSSEL**  
SOCKET WRENCHES

**03**

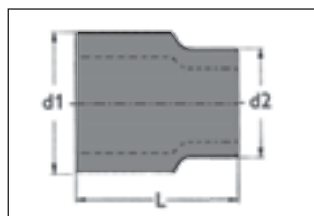


## Steckschlüssel-Einsätze, mm

Sockets, mm  
Douilles, mm  
Vaso, mm



DIN 3124  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208

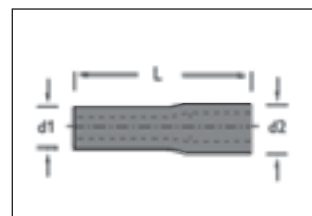


## Steckschlüssel-Einsätze, lang

Sockets, long  
Douilles, profond  
Vaso largo



DIN 3124  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208



| No. | mm  | L  | d1   | d2   |    |    |
|-----|-----|----|------|------|----|----|
| 900 | 4   | 25 | 7    | 12   | 12 | 10 |
|     | 4,5 | 25 | 7,3  | 12   | 12 | 10 |
|     | 5   | 25 | 7,8  | 12   | 12 | 10 |
|     | 5,5 | 25 | 8,7  | 12   | 12 | 10 |
|     | 6   | 25 | 9,3  | 12   | 12 | 10 |
|     | 7   | 25 | 11   | 12   | 12 | 10 |
|     | 8   | 25 | 12   | 12   | 12 | 10 |
|     | 9   | 25 | 13   | 12   | 18 | 10 |
|     | 10  | 25 | 14,5 | 12   | 18 | 10 |
|     | 11  | 25 | 15,7 | 13   | 24 | 10 |
|     | 12  | 25 | 17   | 13,5 | 26 | 10 |
|     | 13  | 25 | 18   | 13,5 | 32 | 10 |
|     | 14  | 25 | 19   | 13,5 | 32 | 10 |

| No. | mm  | L  | d1   | d2   |    |    |
|-----|-----|----|------|------|----|----|
| 911 | 4   | 50 | 6,8  | 12   | 16 | 10 |
|     | 4,5 | 50 | 7    | 12   | 16 | 10 |
|     | 5   | 50 | 7,8  | 12   | 18 | 10 |
|     | 5,5 | 50 | 8,4  | 12   | 19 | 10 |
|     | 6   | 50 | 9,3  | 12   | 20 | 10 |
|     | 7   | 50 | 10,8 | 12   | 20 | 10 |
|     | 8   | 50 | 11,6 | 12   | 24 | 10 |
|     | 9   | 50 | 13   | 12   | 28 | 10 |
|     | 10  | 50 | 14   | 12   | 36 | 10 |
|     | 11  | 50 | 15,8 | 12,4 | 48 | 10 |
|     | 12  | 50 | 16,6 | 13,4 | 50 | 10 |
|     | 13  | 50 | 17,8 | 14   | 62 | 10 |

## Steckschlüssel-Einsätze AF

Sockets, AF  
Douilles, AF  
Vaso, AF



DIN 3124  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208

## Steckschlüssel-Einsätze Torx®

Sockets Torx®  
Douilles Torx®  
Vaso Torx®



DIN 3124  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208

| No.    | AF    | L  | d1   | d2   |    |    |
|--------|-------|----|------|------|----|----|
| 900 AF | 3/16  | 25 | 7,3  | 12   | 12 | 10 |
|        | 7/32  | 25 | 8,7  | 12   | 12 | 10 |
|        | 1/4   | 25 | 9,3  | 12   | 12 | 10 |
|        | 9/32  | 25 | 11   | 12   | 12 | 10 |
|        | 5/16  | 25 | 12   | 12   | 12 | 10 |
|        | 11/32 | 25 | 13   | 12   | 18 | 10 |
|        | 3/8   | 25 | 14,5 | 12   | 18 | 10 |
|        | 7/16  | 25 | 15,7 | 13   | 24 | 10 |
|        | 1/2   | 25 | 18   | 13,5 | 32 | 10 |
| 900 AF | 9/16  | 25 | 19   | 13,5 | 32 | 10 |

| No. |    | L  | d1  | d2   |    |    |
|-----|----|----|-----|------|----|----|
| 912 | 4  | 25 | 5,7 | 12   | 10 | 10 |
|     | 5  | 25 | 7   | 12   | 10 | 10 |
|     | 6  | 25 | 8   | 12   | 12 | 10 |
|     | 7  | 25 | 9,6 | 12   | 12 | 10 |
|     | 8  | 25 | 10  | 12   | 12 | 10 |
|     | 10 | 25 | 12  | 12   | 16 | 10 |
|     | 12 | 25 | 16  | 16   | 28 | 10 |
|     | 14 | 25 | 17  | 12,5 | 30 | 10 |
|     | 16 | 25 | 17  | 13,5 | 42 | 10 |

## Steckschlüssel-Einsätze

### Tamper Torx®

Sockets Tamper Torx®

Douilles Tamper Torx®

Vaso Tamper Torx®



Chrom Vanadium Stahl



| No. |      | L  |    |    |
|-----|------|----|----|----|
| 915 | 8 H  | 32 | 10 | 10 |
|     | 10 H | 32 | 10 | 10 |
|     | 15 H | 32 | 12 | 10 |
|     | 20 H | 32 | 12 | 10 |
|     | 25 H | 32 | 12 | 10 |
|     | 27 H | 32 | 14 | 10 |
|     | 30 H | 32 | 14 | 10 |
|     | 40 H | 32 | 14 | 10 |

## Schraubendreher-Einsätze,

### Sechskant®

For hex screws

Pour vis hexagon

Para tornillo hexagonal



DIN 3120  
Chrom Vanadium Stahl



| No. | mm | L-mm |    |    |
|-----|----|------|----|----|
| 901 | 3  | 32   | 8  | 10 |
|     | 4  | 32   | 9  | 10 |
|     | 5  | 32   | 9  | 10 |
|     | 6  | 32   | 10 | 10 |
|     | 8  | 32   | 12 | 10 |

## Für PH-Schrauben

For cross screws

Pour vis cruziforme

Para tornillo de cruz



DIN 3120  
Chrom Vanadium Stahl



| No. | PH | L-mm |    |    |
|-----|----|------|----|----|
| 902 | 1  | 32   | 7  | 10 |
|     | 2  | 32   | 9  | 10 |
|     | 3  | 32   | 10 | 10 |
|     | 4  | 32   | 11 | 10 |

## Für Schlitz-Schrauben

For slotted screws

Pour vis plates

Para tornillo ranura



DIN 3120  
Chrom Vanadium Stahl



| No. | SB | L-mm |   |    |
|-----|----|------|---|----|
| 903 | 4  | 32   | 7 | 10 |
|     | 6  | 32   | 9 | 10 |

## Hebelumschaltknarre

Ratchet, reversible

Cliquet, reversilble

Carraca, reversilbe



DIN 3122  
Chrom Vanadium Stahl



| No. | L-mm |    |    |
|-----|------|----|----|
| 904 | 130  | 98 | 10 |

### Hebelumschaltknarre

Ratchet, reversible  
Cliquet, reversilble  
Carraca, reversilbe



DIN 3122  
Chrom Vanadium Stahl



| No.   | L-mm |     |    |
|-------|------|-----|----|
| 904 K | 133  | 150 | 10 |

### Scheibenumschaltknarre

Ratchet with disk reverse  
Cliquet avec disque  
Carraca con disco reversilbe



DIN 3122  
Chrom Vanadium Stahl



| No.   | L-mm |    |    |
|-------|------|----|----|
| 904 U | 130  | 98 | 10 |

### Hebelumschaltknarre

Ratchet, reversible  
Cliquet, reversilble  
Carraca, reversilbe



DIN 3122  
Chrom Vanadium Stahl



| No.   | L-mm |     |    |
|-------|------|-----|----|
| 904 H | 145  | 105 | 10 |

### Steckgriff

Holder, Support  
Mango



DIN 3123 Form E



| No. | L-mm |    |    |
|-----|------|----|----|
| 905 | 125  | 60 | 10 |

### Quergriff

Sliding T-handle  
Levier transversal  
Mango de T



DIN 3122  
Chrom Vanadium Stahl



| No. | L-mm |    |    |
|-----|------|----|----|
| 906 | 115  | 40 | 10 |

### Verlängerung

Extension bars  
Allonges  
Barra prolongacion



DIN 3122  
Chrom Vanadium Stahl



| No. | L-mm |    |    |
|-----|------|----|----|
| 907 | 50   | 26 | 10 |
|     | 100  | 48 | 10 |
|     | 150  | 68 | 10 |

### Verlängerung, ausziehbar

Extension bars  
Allonges  
Barra prolongacion



DIN 3122  
Chrom Vanadium Stahl



| No.   | L-mm    |     |    |
|-------|---------|-----|----|
| 907 A | 150-320 | 204 | 10 |

### Verlängerung, schwenkbar

Extension bars, slewabel  
Allonges, tournant  
Barra prolongacion



DIN 3122  
Chrom Vanadium Stahl



| No.   | L-mm |    |    |
|-------|------|----|----|
| 907 K | 50   | 26 | 10 |
|       | 100  | 48 | 10 |
|       | 150  | 68 | 10 |

## Kardangelenk

Universal joint  
Genouillere  
Union universal



DIN 3122 Form C  
Chrom Vanadium Stahl



| No. | L-mm |    |    |
|-----|------|----|----|
| 908 | 50   | 26 | 10 |

## Flexible Verlängerung

Flexible extension  
Extension flexible  
Barra prolongacion flexible



DIN 3122  
Chrom Vanadium Stahl



| No. | L-mm |    |    |
|-----|------|----|----|
| 913 | 150  | 60 | 10 |

## Vergrößerungsstück

Adaptor / Adapter / Adaptador

□ 1/4"

■ 3/8"



DIN 3122 Form A  
Chrom Vanadium Stahl



| No. | L-mm |    |    |
|-----|------|----|----|
| 909 | 26   | 15 | 10 |

## Handgriff mit flexiblen Vierkant

Flexible handle  
Manche avec quatre pans flexible  
Mango flexible



DIN 3122 Form F  
Chrom Vanadium Stahl



| No. | L-mm |    |    |
|-----|------|----|----|
| 914 | 140  | 84 | 10 |

## Reduzierstück

Converters / Reducteurs / Reductor

□ 3/8"

■ 1/4"



DIN 3122 Form A  
Chrom Vanadium Stahl



| No. | L-mm |    |    |
|-----|------|----|----|
| 910 | 26   | 15 | 10 |





## Steckschlüsselgarnitur im Metallkasten

Socket Set in Metall-case

Jeux de douilles et accessoires, en caisse metal

Juego vasos en caja de metal



DIN 3120-3122-312  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208

14-tlg.

| No.                     | Inhalt |     |  |     |     |     |
|-------------------------|--------|-----|--|-----|-----|-----|
| 916                     |        |     |  |     |     | 940 |
| No. 912                 |        | 914 |  | 904 | 908 | 50  |
| E 4-5-6-7-8-10-12-14-16 |        |     |  |     |     | 150 |



27-tlg.

| No.                          | Inhalt |     |     |     |     |      |
|------------------------------|--------|-----|-----|-----|-----|------|
| 918 T                        |        |     |     |     |     | 1130 |
| No. 900                      |        | 905 | 906 | 904 | 908 | 100  |
| 4-4,5-5-5,5-6-7-8-9-10-12-13 |        |     |     |     |     |      |
| No. 901 3-4-5-6-8            |        |     |     |     |     |      |
| No. 915                      |        |     |     |     |     |      |
| T8-10-15-20-25-27-30-40      |        |     |     |     |     |      |



17-tlg.

| No.                         | Inhalt |  |  |     |     |      |
|-----------------------------|--------|--|--|-----|-----|------|
| 917                         |        |  |  |     |     | 1160 |
| No. 911 4-4,5-5-5,5-6-7-8-9 |        |  |  | 904 | 908 | 50   |
| 10-11-12-13                 |        |  |  |     |     | 100  |
|                             |        |  |  |     |     | 150  |



18-tlg.

| No.                         | Inhalt |     |     |     |     |     |
|-----------------------------|--------|-----|-----|-----|-----|-----|
| 919                         |        |     |     |     |     | 960 |
| No. 900 4-4,5-5-5,5-6-7-8-9 |        | 905 | 906 | 904 | 908 | 100 |
| 10-11-12-13-14              |        |     |     |     |     |     |



27-tlg.

| No.                          | Inhalt |     |     |     |     |      |
|------------------------------|--------|-----|-----|-----|-----|------|
| 918                          |        |     |     |     |     | 1180 |
| No. 900                      |        | 905 | 906 | 904 | 908 | 100  |
| 4-4,5-5-5,5-6-7-8-9-10-12-13 |        |     |     |     |     |      |
| No. 901 3-4-5-6-8            |        |     |     |     |     |      |
| No. 902 1-2-3-4              |        |     |     |     |     |      |
| No. 903 SB 4-6               |        |     |     |     |     |      |



14-tlg.

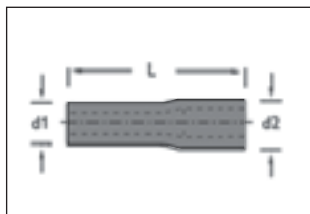
| No.                          | Inhalt |     |  |     |     |     |
|------------------------------|--------|-----|--|-----|-----|-----|
| 919 AF                       |        |     |  |     |     | 950 |
| No. 900 AF                   |        | 914 |  | 904 | 908 | 50  |
| 3/16"-7/32"-1/4"-9/32"-5/16" |        |     |  |     |     | 150 |
| 3/8" 7/16"-1/2"-9/16"        |        |     |  |     |     |     |

## Steckschlüssel-Einsätze, lang

Sockets, long  
Douilles, profond  
Vaso largo



DIN 3124  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208



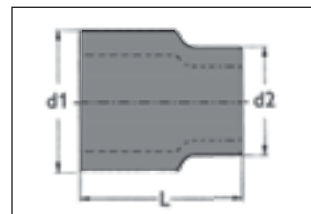
| No. | mm | L  | d1   | d2   |     |    |
|-----|----|----|------|------|-----|----|
| 920 | 6  | 63 | 10   | 17   | 50  | 10 |
|     | 7  | 63 | 10,5 | 17   | 50  | 10 |
|     | 8  | 63 | 12   | 17   | 54  | 10 |
|     | 9  | 63 | 13,5 | 17   | 54  | 10 |
|     | 10 | 63 | 14,5 | 17   | 66  | 10 |
|     | 11 | 63 | 15,5 | 17   | 66  | 10 |
|     | 12 | 63 | 17   | 17,5 | 66  | 10 |
|     | 13 | 63 | 18,5 | 17,5 | 82  | 10 |
|     | 14 | 63 | 19,5 | 18   | 82  | 10 |
|     | 15 | 63 | 20,5 | 19   | 88  | 10 |
|     | 16 | 63 | 22   | 20   | 102 | 10 |
|     | 17 | 63 | 23,5 | 22   | 120 | 10 |
|     | 18 | 63 | 25,5 | 23   | 130 | 10 |
|     | 19 | 63 | 25,5 | 24   | 138 | 10 |
|     | 20 | 63 | 27   | 25   | 176 | 10 |
|     | 21 | 63 | 28   | 25   | 194 | 10 |
|     | 22 | 63 | 29,5 | 25   | 220 | 10 |

## Steckschlüssel-Einsätze

Sockets  
Douilles  
Vaso



DIN 3124  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208



| No. | mm | L  | d1   | d2   |      |    |
|-----|----|----|------|------|------|----|
| 921 | 6  | 30 | 10   | 10   | 10   | 10 |
|     | 7  | 30 | 11   | 11   | 11   | 10 |
|     | 8  | 30 | 12,5 | 12,5 | 12,5 | 10 |
|     | 9  | 30 | 13,6 | 13,6 | 13,6 | 10 |
|     | 10 | 30 | 15   | 15   | 15   | 10 |
|     | 11 | 30 | 16   | 16   | 16   | 10 |
|     | 12 | 30 | 16,5 | 16,5 | 16,5 | 10 |
|     | 13 | 30 | 18   | 18   | 18   | 10 |
|     | 14 | 30 | 20   | 20   | 20   | 10 |
|     | 15 | 30 | 22   | 22   | 22   | 10 |
|     | 16 | 30 | 22   | 22   | 22   | 10 |
|     | 17 | 30 | 24   | 24   | 24   | 10 |
|     | 18 | 30 | 24   | 24   | 24   | 10 |
|     | 19 | 30 | 26   | 26   | 26   | 10 |
|     | 20 | 30 | 28   | 28   | 28   | 10 |
|     | 21 | 30 | 28   | 28   | 28   | 10 |
|     | 22 | 30 | 30   | 30   | 30   | 10 |

## Steckschlüssel-Einsätze, 6-kant

For hex screws  
Pour vis hexagon  
Para tornillo hexagonal



DIN 3120  
Chrom Vanadium Stahl



| No. |    | L  |    |    |
|-----|----|----|----|----|
| 935 | 3  | 50 | 50 | 10 |
|     | 4  | 50 | 50 | 10 |
|     | 5  | 50 | 50 | 10 |
|     | 6  | 50 | 50 | 10 |
|     | 7  | 50 | 56 | 10 |
|     | 8  | 50 | 56 | 10 |
|     | 10 | 50 | 66 | 10 |

## Steckschlüssel-Einsätze Torx<sup>®</sup>

Sockets Torx<sup>®</sup>  
Douilles Torx<sup>®</sup>  
Vaso Torx<sup>®</sup>



Chrom Vanadium Stahl



| No. |    | L  |    |    |
|-----|----|----|----|----|
| 936 | 20 | 50 | 50 | 10 |
|     | 25 | 50 | 50 | 10 |
|     | 27 | 50 | 50 | 10 |
|     | 30 | 50 | 50 | 10 |
|     | 40 | 50 | 56 | 10 |
|     | 45 | 50 | 56 | 10 |
|     | 50 | 50 | 66 | 10 |

### Zündkerzensteckschlüssel-Einsätze mit Gummiring

Socket for spark plugs, with rubber  
Douilles pour bougies, avec boucle  
Vaso para bujia, con goma



| No. | Größe | L-mm |     |    |
|-----|-------|------|-----|----|
| 929 | 16    | 65   | 96  | 10 |
|     | 20,8  | 65   | 118 | 10 |

### Hebelumschaltknarre

Ratchet, reversible  
Cliquet, reversilble  
Carraca, reversilbe



DIN 3122  
Chrom Vanadium Stahl



| No.   | L-mm |     |    |
|-------|------|-----|----|
| 922 H | 200  | 265 | 10 |

### Hebelumschaltknarre

Ratchet, reversible  
Cliquet, reversilble  
Carraca, reversilbe



11°



DIN 3122  
Chrom Vanadium Stahl



| No. | L-mm |     |    |
|-----|------|-----|----|
| 922 | 200  | 250 | 10 |

### Durchsteckknarre

Ratchet / Cliquet / Carraca



5°



DIN 3122 Form D  
Chrom Vanadium Stahl



| No.   | L-mm |     |    |
|-------|------|-----|----|
| 922 D | 280  | 490 | 10 |

### Hebelumschaltknarre

Ratchet, reversible  
Cliquet, reversilble  
Carraca, reversilbe



8°



DIN 3122  
Chrom Vanadium Stahl



| No.   | L-mm |     |    |
|-------|------|-----|----|
| 922 K | 260  | 415 | 10 |

### Verlängerung

Extension bars  
Allonges  
Barra prolongacion



DIN 3122  
Chrom Vanadium Stahl



| No. | L-mm |     |    |
|-----|------|-----|----|
| 923 | 75   | 72  | 10 |
|     | 150  | 165 | 10 |

### Scheibenumschaltknarre

Ratchet with disk reverse  
Cliquet avec disque  
Carraca con disco reversilbe



5°



DIN 3122  
Chrom Vanadium Stahl



| No.   | L-mm |     |    |
|-------|------|-----|----|
| 922 U | 200  | 240 | 10 |

### Verlängerung, schwenkbar

Extension bars, slewabel  
Allonges, tournant  
Barra prolongacion



DIN 3122  
Chrom Vanadium Stahl



| No.   | L-mm |     |    |
|-------|------|-----|----|
| 923 K | 75   | 72  | 10 |
|       | 150  | 165 | 10 |

### Quergriff

Sliding T-handle  
Levier transversal  
Mango de T

DIN 3122  
Chrom Vanadium Stahl



| No. | L-mm |     |    |
|-----|------|-----|----|
| 924 | 200  | 160 | 10 |

### Kardangelenk

Universal joint / Genouillere / Union universal

DIN 3122  
Chrom Vanadium Stahl



| No. | L-mm |    |    |
|-----|------|----|----|
| 925 | 55   | 60 | 10 |

### Vergrößerungsstück

Adaptor / Adapter / Adaptador

□ 3/8"

■ 1/2"



DIN 3122 Form A  
Chrom Vanadium Stahl

| No. | L-mm |    |    |
|-----|------|----|----|
| 926 | 25   | 20 | 10 |

### Reduzierstück

Converters / Reducteurs / Reductor

□ 1/2"

■ 3/8"



DIN 3122 Form A  
Chrom Vanadium Stahl

| No. | L-mm |    |    |
|-----|------|----|----|
| 927 | 30   | 25 | 10 |

### Handgriff mit flexiblen Vierkant

Flexible handle  
Manche avec quatre pans flexible  
Mango flexible

DIN 3122 Form F  
Chrom Vanadium Stahl



| No. | L-mm |     |    |
|-----|------|-----|----|
| 928 | 325  | 350 | 10 |

### Steckschlüsselgarnitur im Metallkasten

Socket Set in Metall-case  
Juego de douilles et accessoires, en caisse metal  
Juego vasos en caja de metal



DIN 3120-3122-3124  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208

18-tlg.

| No.                               | Inhalt |      |
|-----------------------------------|--------|------|
| 930                               |        | 1700 |
|                                   |        |      |
|                                   |        |      |
|                                   |        |      |
| No. 921 6-7-8-9-10-11-12-13-14-15 | 924    | 922H |
| 17-19-20-21-22                    |        |      |
|                                   |        | 150  |



20-tlg.

| No.                               | Inhalt |      |
|-----------------------------------|--------|------|
| 931                               |        | 1900 |
|                                   |        |      |
|                                   |        |      |
|                                   |        |      |
| No. 921 6-7-8-9-10-11-12-13-14-15 | 924    | 922H |
| 17-19-20-21-22                    |        |      |
|                                   |        | 75   |
|                                   |        | 150  |



34-tlg.

| No.                               | Inhalt |      |
|-----------------------------------|--------|------|
| 932                               |        | 3900 |
|                                   |        |      |
|                                   |        |      |
|                                   |        |      |
| No. 920 6-7-8-9-10-11-12-13-14-15 | 924    | 922H |
| 16-17-18-19-22                    |        |      |
| No. 935 3-4-5-6-7-8-10            |        |      |
| No. 936 TX 20-25-27-30-40-45-50   |        |      |
|                                   |        | 75   |
|                                   |        | 150  |



## Steckschlüssel-Einsätze, 12-kant

Sockets 12-point  
Douilles 12-point  
Vasos 12-punto



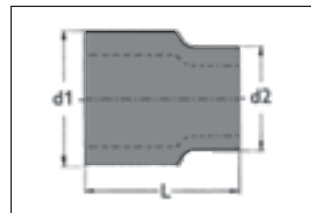
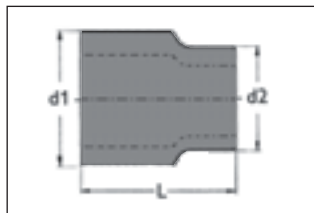
DIN 3124 ISO 2725  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208

## Steckschlüssel-Einsätze AF, 12-kant

Sockets AF, 12-point  
Douilles AF, 12-point  
Vasos AF, 12-punto



DIN 3124 ISO 2725  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208



| No. | mm | L  | d1   | d2 |     |    |
|-----|----|----|------|----|-----|----|
| 940 | 8  | 40 | 11,8 | 22 | 56  | 10 |
|     | 9  | 40 | 14,2 | 22 | 56  | 10 |
|     | 10 | 40 | 15,3 | 22 | 56  | 10 |
|     | 11 | 40 | 16,3 | 22 | 60  | 10 |
|     | 12 | 40 | 18   | 22 | 60  | 10 |
|     | 13 | 40 | 19   | 22 | 62  | 10 |
|     | 14 | 40 | 20   | 22 | 62  | 10 |
|     | 15 | 40 | 22   | 22 | 66  | 10 |
|     | 16 | 40 | 24   | 22 | 66  | 10 |
|     | 17 | 40 | 24   | 22 | 66  | 10 |
|     | 18 | 40 | 26   | 23 | 68  | 10 |
|     | 19 | 40 | 26   | 23 | 72  | 10 |
|     | 20 | 40 | 29   | 24 | 78  | 10 |
|     | 21 | 40 | 29   | 24 | 84  | 10 |
|     | 22 | 40 | 30   | 24 | 92  | 10 |
|     | 23 | 40 | 32   | 25 | 100 | 10 |
|     | 24 | 40 | 32   | 25 | 110 | 10 |
|     | 25 | 45 | 34   | 26 | 118 | 10 |
|     | 26 | 45 | 34   | 26 | 122 | 10 |
|     | 27 | 45 | 36   | 28 | 145 | 10 |
|     | 28 | 45 | 38   | 28 | 150 | 10 |
|     | 29 | 45 | 40   | 28 | 155 | 10 |
|     | 30 | 45 | 40   | 28 | 170 | 10 |
|     | 32 | 45 | 42   | 28 | 195 | 10 |
|     | 36 | 45 | 50   | 32 | 290 | 10 |

| No.    | AF      | L  | d1   | d2 |     |    |
|--------|---------|----|------|----|-----|----|
| 940 AF | 5/16"   | 40 | 11,8 | 22 | 56  | 10 |
|        | 3/8"    | 40 | 14,2 | 22 | 56  | 10 |
|        | 13/32"  | 40 | 14,2 | 22 | 56  | 10 |
|        | 7/16"   | 40 | 16,3 | 22 | 60  | 10 |
|        | 1/2"    | 40 | 19   | 22 | 62  | 10 |
|        | 9/16"   | 40 | 20   | 22 | 62  | 10 |
|        | 19/32"  | 40 | 22   | 22 | 66  | 10 |
|        | 5/8"    | 40 | 24   | 22 | 66  | 10 |
|        | 11/16"  | 40 | 24   | 22 | 66  | 10 |
|        | 3/4"    | 40 | 26   | 23 | 72  | 10 |
|        | 25/32"  | 40 | 29   | 24 | 78  | 10 |
|        | 13/16"  | 40 | 29   | 24 | 84  | 10 |
|        | 7/8"    | 40 | 30   | 24 | 92  | 10 |
|        | 15/16"  | 40 | 32   | 25 | 110 | 10 |
|        | 31/32"  | 45 | 34   | 26 | 110 | 10 |
|        | 1"      | 45 | 34   | 26 | 118 | 10 |
|        | 1.1/16" | 45 | 36   | 28 | 145 | 10 |
|        | 1.1/8"  | 45 | 40   | 28 | 150 | 10 |
|        | 1.3/16" | 45 | 40   | 28 | 170 | 10 |
|        | 1.1/4"  | 45 | 42   | 28 | 195 | 10 |

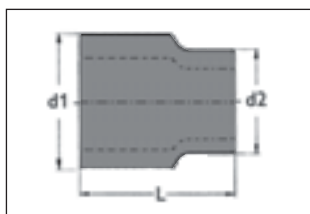


## Steckschlüssel-Einsätze, 6-kant

Sockets 6-point  
Douilles 6-point  
Vasos 6-punto



DIN 3124 ISO 2725  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208



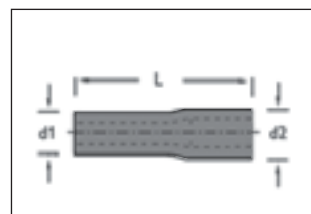
| No. | mm | L  | d1   | d2 |     |    |
|-----|----|----|------|----|-----|----|
| 941 | 8  | 40 | 11,8 | 22 | 56  | 10 |
|     | 9  | 40 | 14,2 | 22 | 56  | 10 |
|     | 10 | 40 | 15,3 | 22 | 56  | 10 |
|     | 11 | 40 | 16,3 | 22 | 60  | 10 |
|     | 12 | 40 | 18   | 22 | 60  | 10 |
|     | 13 | 40 | 19   | 22 | 62  | 10 |
|     | 14 | 40 | 20   | 22 | 62  | 10 |
|     | 15 | 40 | 22   | 22 | 66  | 10 |
|     | 16 | 40 | 24   | 22 | 66  | 10 |
|     | 17 | 40 | 24   | 22 | 66  | 10 |
|     | 18 | 40 | 26   | 23 | 68  | 10 |
|     | 19 | 40 | 26   | 23 | 72  | 10 |
|     | 20 | 40 | 29   | 24 | 78  | 10 |
|     | 21 | 40 | 29   | 24 | 84  | 10 |
|     | 22 | 40 | 30   | 24 | 92  | 10 |
|     | 23 | 40 | 32   | 25 | 100 | 10 |
|     | 24 | 40 | 32   | 25 | 110 | 10 |
|     | 25 | 45 | 34   | 26 | 118 | 10 |
|     | 26 | 45 | 34   | 26 | 122 | 10 |
|     | 27 | 45 | 36   | 28 | 145 | 10 |
|     | 28 | 45 | 38   | 28 | 150 | 10 |
| 942 | 30 | 45 | 40   | 28 | 170 | 10 |
|     | 32 | 45 | 42   | 28 | 195 | 10 |
|     | 33 | 45 | 45   | 28 | 201 | 10 |
|     | 34 | 45 | 45   | 29 | 205 | 10 |
|     | 36 | 45 | 50   | 32 | 290 | 10 |

## Steckschlüssel-Einsätze, 6-kant lange Ausführung

Sockets 6-point long  
Douilles 6-point longe  
Vasos 6-punto largos



DIN 3124 ISO 2725  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208



| No. | mm | L-mm | d1   | d2   |     |    |
|-----|----|------|------|------|-----|----|
| 942 | 10 | 77   | 15   | 22   | 85  | 10 |
|     | 11 | 77   | 16,3 | 22   | 92  | 10 |
|     | 12 | 77   | 17,5 | 22   | 98  | 10 |
|     | 13 | 77   | 18,7 | 22   | 100 | 10 |
|     | 14 | 77   | 20,3 | 22   | 100 | 10 |
|     | 15 | 77   | 21   | 22   | 100 | 10 |
|     | 16 | 77   | 22   | 21,5 | 105 | 10 |
|     | 17 | 77   | 24   | 22   | 127 | 10 |
|     | 18 | 77   | 25,7 | 23,5 | 157 | 10 |
|     | 19 | 77   | 27   | 23,5 | 160 | 10 |
|     | 20 | 77   | 28   | 23,5 | 162 | 10 |
|     | 21 | 77   | 30   | 26   | 173 | 10 |
|     | 22 | 77   | 30   | 26   | 198 | 10 |
|     | 23 | 77   | 32   | 26   | 206 | 10 |
|     | 24 | 77   | 34   | 26   | 211 | 10 |
|     | 26 | 77   | 36   | 27   | 256 | 10 |
|     | 27 | 77   | 36   | 28   | 275 | 10 |

## Steckschlüssel-Einsätze für Außen-Torx®

Sockets Torx®  
Douilles Torx®  
Vaso Torx®



Chrom Vanadium Stahl



## Zündkerzensteckschlüsse-Einsätze mit Gummiring

Socket for spark plugs, with rubber / Douilles pour  
bougies, avec boucle / Vaso para bujia, con goma



DIN 3120  
Chrom Vanadium Stahl



| No. | mm   | Länge |     |    |
|-----|------|-------|-----|----|
| 943 | 16   | 65    | 85  | 10 |
|     | 20,8 | 65    | 136 | 10 |

| No. | E  | L-mm | d1   | d2   |    |    |
|-----|----|------|------|------|----|----|
| 944 | 10 | 38   | 22   | 14   | 48 | 10 |
|     | 11 | 38   | 22   | 15   | 50 | 10 |
|     | 12 | 38   | 22   | 16,5 | 50 | 10 |
|     | 14 | 38   | 22   | 17   | 58 | 10 |
|     | 16 | 38   | 22   | 20   | 60 | 10 |
|     | 18 | 38   | 21,5 | 24   | 74 | 10 |
|     | 20 | 38   | 23   | 26   | 92 | 10 |
| 24  | 38 | 24   | 28   | 128  | 10 |    |

### Steckschlüsse-Einsätze 6-kant

For hex screws

Pour vis hexagon

Para tornillo hexagonal



DIN 3120  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208



| No. |    | L-mm |     |    |
|-----|----|------|-----|----|
| 967 | 4  | 53   | 55  | 10 |
|     | 5  | 53   | 55  | 10 |
|     | 5  | 100  | 106 | 10 |
|     | 6  | 53   | 74  | 10 |
|     | 6  | 100  | 106 | 10 |
|     | 6  | 200  | 140 | 10 |
|     | 7  | 53   | 74  | 10 |
|     | 7  | 100  | 110 | 10 |
|     | 8  | 53   | 84  | 10 |
|     | 8  | 100  | 110 | 10 |
|     | 8  | 200  | 160 | 10 |
|     | 10 | 53   | 84  | 10 |
|     | 10 | 140  | 140 | 10 |
|     | 10 | 200  | 190 | 10 |
|     | 12 | 53   | 84  | 10 |
|     | 12 | 100  | 140 | 10 |
|     | 12 | 200  | 190 | 10 |
|     | 14 | 53   | 90  | 10 |
|     | 14 | 200  | 210 | 10 |
|     | 17 | 60   | 170 | 10 |
|     | 19 | 60   | 195 | 10 |

### Steckschlüssel-Einsätze für Kreuzschrauben

Sockets / Douilles / Vaso



DIN 3120  
Chrom Vanadium Stahl



| No. | PH | L-mm |    |    |
|-----|----|------|----|----|
| 966 | 2  | 56   | 56 | 10 |
|     | 3  | 56   | 65 | 10 |
|     | 4  | 56   | 65 | 10 |

### Steckschlüssel-Einsätze mit Kugelkopf

For hex screws with ball-point

Pour vis hexagon ball point

Para tornillo hexagonal bola



Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208

DIN 3120  
Chrom Vanadium Stahl



| No.   |    | L   | d1 |     |    |
|-------|----|-----|----|-----|----|
| 967 K | 5  | 100 | 23 | 80  | 10 |
|       | 6  | 100 | 23 | 80  | 10 |
|       | 8  | 100 | 23 | 90  | 10 |
|       | 10 | 100 | 23 | 128 | 10 |

### Steckschlüssel-Einsätze für Schlitzschrauben

Sockets / Douilles / Vaso



DIN 3120  
Chrom Vanadium Stahl



| No. | SB | L-mm |    |    |
|-----|----|------|----|----|
| 965 | 8  | 62   | 54 | 10 |
|     | 10 | 62   | 56 | 10 |
|     | 12 | 62   | 60 | 10 |
|     | 14 | 62   | 64 | 10 |

### Steckschlüssel-Einsätze für XZN-Schrauben

Sockets XZN

Douilles XZN

Vaso XZN



Chrom Vanadium Stahl

Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208



| No. | M  | L   | d1 |     |    |
|-----|----|-----|----|-----|----|
| 968 | 5  | 53  | 23 | 72  | 10 |
|     | 6  | 53  | 23 | 74  | 10 |
|     | 8  | 53  | 23 | 74  | 10 |
|     | 8  | 100 | 23 | 108 | 10 |
|     | 10 | 53  | 23 | 76  | 10 |
|     | 10 | 100 | 23 | 110 | 10 |
|     | 12 | 53  | 23 | 82  | 10 |
|     | 12 | 100 | 23 | 124 | 10 |

## Steckschlüssel-Einsätze für Innen-Torx<sup>®</sup>

Sockets Torx<sup>®</sup>  
Douilles Torx<sup>®</sup>  
Vaso Torx<sup>®</sup>



Chrom Vanadium Stahl

Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208



| No. | TX | L  | d1 |     |    |
|-----|----|----|----|-----|----|
| 969 | 20 | 58 | 23 | 70  | 10 |
|     | 25 | 58 | 23 | 72  | 10 |
|     | 27 | 58 | 23 | 72  | 10 |
|     | 30 | 58 | 23 | 72  | 10 |
|     | 40 | 58 | 23 | 74  | 10 |
|     | 45 | 58 | 23 | 76  | 10 |
|     | 50 | 58 | 23 | 78  | 10 |
|     | 55 | 58 | 23 | 112 | 10 |
|     | 60 | 58 | 23 | 117 | 10 |

## Steckschlüssel-Einsätze für Tamper-Torx<sup>®</sup> mit Loch

Sockets Tamper Torx<sup>®</sup> with hole  
Douilles Tamper Torx<sup>®</sup>  
Vaso Tamper Torx<sup>®</sup>



Chrom Vanadium Stahl

Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208



| No.   | TX | L  | d1 |     |    |
|-------|----|----|----|-----|----|
| 969 H | 20 | 55 | 23 | 65  | 10 |
|       | 25 | 55 | 23 | 65  | 10 |
|       | 27 | 55 | 23 | 65  | 10 |
|       | 30 | 55 | 23 | 65  | 10 |
|       | 40 | 55 | 23 | 65  | 10 |
|       | 45 | 55 | 23 | 70  | 10 |
|       | 50 | 55 | 23 | 70  | 10 |
|       | 55 | 55 | 23 | 102 | 10 |
|       | 60 | 55 | 23 | 104 | 10 |

## Kurbel

Speed brace / Vilebrequin / Brazo curvo



DIN 3122 Form B  
Chrom Vanadium Stahl



| No. | L   |     |   |
|-----|-----|-----|---|
| 945 | 410 | 540 | 1 |

## Quergriff

Sliding T-Handle  
Levier Transversal  
Mango de T



DIN 3122 Form A  
Chrom Vanadium Stahl



| No. | L   |     |   |
|-----|-----|-----|---|
| 946 | 300 | 410 | 5 |

## Kardangelenk

Universal Joint  
Genouillere  
Union universal



DIN 3123  
Chrom Vanadium Stahl



| No. | L  |     |   |
|-----|----|-----|---|
| 955 | 65 | 420 | 5 |

## Verlängerung

Extension bars  
Allonges  
Barra prolongacion



DIN 3123 Form D  
Chrom Vanadium Stahl



| No. | mm  |     |    |
|-----|-----|-----|----|
| 960 | 75  | 126 | 10 |
|     | 125 | 185 | 10 |
|     | 250 | 335 | 10 |



### Verlängerung ausziehbar

Extension bars  
Allonges  
Barra prolongacion



DIN 3123 Form D  
Chrom Vanadium Stahl



| No.   | mm        |     |   |
|-------|-----------|-----|---|
| 960 A | 250 - 410 | 656 | 1 |

### Verlängerung, schwenkbar

Extension bars, slewabel  
Allonges, tournant  
Barra prolongacion



DIN 3123 Form D  
Chrom Vanadium Stahl



| No. | mm  |     |    |
|-----|-----|-----|----|
| 961 | 75  | 126 | 10 |
|     | 125 | 185 | 10 |
|     | 250 | 335 | 10 |

### Vergrößerungsstück

Adaptor / Adapter / Adaptador

□ 1/2"

■ 3/4"



DIN 3123 Form A  
Chrom Vanadium Stahl



| No. | L-mm |     |    |
|-----|------|-----|----|
| 962 | 50   | 130 | 10 |

### Reduzierstück

Converters / Reducteurs / Reductor

□ 3/4"

■ 1/2"



DIN 3123 Form A  
Chrom Vanadium Stahl



| No. | L-mm |     |    |
|-----|------|-----|----|
| 963 | 60   | 190 | 10 |

### Handgriff mit flexiblen Vierkant

Flexible handle  
Manche avec quatre pans flexible  
Mango flexible



DIN 3122  
Chrom Vanadium Stahl



| No. | L-mm |     |    |
|-----|------|-----|----|
| 964 | 250  | 470 | 10 |
|     | 375  | 375 | 10 |

### Scheibenumschaltknarre

Ratchet with disk reverse  
Cliquet avec disque  
Carraca con disco reversilbe



5°



DIN 3122 Form D  
Chrom Vanadium Stahl



| No. | L-mm |     |    |
|-----|------|-----|----|
| 947 | 280  | 490 | 10 |

### Hebelumschaltknarre

Ratchet, reversible  
Cliquet, reversilble  
Carraca, reversilbe



5°



DIN 3122 Form D  
Chrom Vanadium Stahl



| No.   | L-mm |     |    |
|-------|------|-----|----|
| 950 H | 250  | 500 | 10 |

### Durchsteckknarre

Ratchet / Cliquet / Carraca



10°



DIN 3122 Form D  
Chrom Vanadium Stahl



| No. | L-mm |     |    |
|-----|------|-----|----|
| 948 | 280  | 490 | 10 |

## Verbindungsvierkant

Square drive / Carres / Guía cuadrada



Chrom Vanadium Stahl

| No. | L-mm |    |    |
|-----|------|----|----|
| 949 | 38   | 45 | 10 |

## High Torque Ratsche

High torque ratchet  
High torque rochet  
High torque carraca



| No. | L-mm |     |   |
|-----|------|-----|---|
| 953 |      | 322 | 1 |

## Hebelumschaltknarre

Ratchet reversible  
Cliquet, interchangeable  
Carraca, reversible



DIN 3122 Form D  
Chrom Vanadium Stahl



| No. | L-mm |     |    |
|-----|------|-----|----|
| 950 | 265  | 530 | 10 |

## Hebelumschaltknarre

Ratchet reversible  
Cliquet, interchangeable  
Carraca, reversible



DIN 3122 Form D  
Chrom Vanadium Stahl



| No. | L-mm |     |    |
|-----|------|-----|----|
| 951 | 296  | 736 | 10 |

## Reparatursätze für 947-951

Replacement set for 947-951  
Jeu des parts à remplacer pour 947-951  
Repuesto para el artículo 947-951



| No.   |   |
|-------|---|
| 947 R | 1 |



| No.   |   |
|-------|---|
| 948 R | 1 |



| No.    |   |
|--------|---|
| 950 R  | 1 |
| 951 R  | 1 |
| 951 HR | 1 |

Hinweis Die Abkürzungen D - U - H - S - Z bedeuten:

D= Durchsteckknarre Nr. 948  
U= Scheiben-Umschaltknarre Nr. 947  
H= Hebel-Umschaltknarre Nr. 950  
S= mit Sechskant-Einsätzen Nr. 941  
Z= mit Zwölfkant-Einsätzen Nr. 940  
Beispiel: Art.-Nr. 973 DZ = mit Ratsche 948 und Einsätzen 940

Indications Les lettres D - U - H - S - Z signifient:

D= Cliquet reversible No. 948  
U= Cliquet avec disque reversible No. 947  
H= Cliquet interchangeable No. 950  
S= avec des douilles 6-pans No. 941  
Z= avec des douilles 12-pans No. 940  
Example: Article 973 DZ = avec cliquet 948 et douilles 940

Indications The letters D - U - H - S - Z are indicating:

D= Push-trough ratchet No. 948  
U= Disk-reverse ratchet No. 947  
H= Interchangeable ratchet No. 950  
S= with 6-point sockets No. 941  
Z= with 12-point sockets No. 940  
Example: Item 973 DZ = with ratchet 948 and sockets 940

Indicaciones Las letras D - U - H - S - Z indican:

D= Carraca reversible N° 948  
U= Carraca reversible de disco N° 947  
H= Carraca intercambiable N° 950  
S= Vaso de 6 cantos N° 941  
Z= Vaso de 12 cantos N° 940  
Ejemplo: Artículo 973 DZ = Carraca 948 y vasos 940

## Steckschlüsselgarnituren, metrisch in Metall-Kassette

Socket wrench Sets, metric in metal case  
Jeux de douilles, metric en caisse métal  
Juego vasos, metricas en caja metalica



10-tlg.

| No.           | Inhalt                  |  |  |      |    |
|---------------|-------------------------|--|--|------|----|
|               | S:  = 941<br>Z:  = 940  |  |  |      |    |
| <b>975 DS</b> | <b>No. 940/941</b>      |  |  | 948  | 75 |
| <b>975 DZ</b> | 10-13-17-19-22-24-27-32 |  |  | 948  | 75 |
| <b>975 US</b> |                         |  |  | 947  | 75 |
| <b>975 UZ</b> |                         |  |  | 947  | 75 |
| <b>975 HS</b> |                         |  |  | 950H | 75 |
| <b>975 HZ</b> |                         |  |  | 950H | 75 |



19-tlg.

| No.           | Inhalt                 |  |     |      |             |
|---------------|------------------------|--|-----|------|-------------|
|               | S:  = 941<br>Z:  = 940 |  |     |      |             |
| <b>977 DS</b> | <b>No. 940/941</b>     |  | 946 | 948  | 955 125/250 |
| <b>977 DZ</b> | 10-11-12-13-14-15-16   |  | 946 | 948  | 955 125/250 |
| <b>977 US</b> | 17-19-22-24-27-30-32   |  | 946 | 947  | 955 125/250 |
| <b>977 UZ</b> |                        |  | 946 | 947  | 955 125/250 |
| <b>977 HS</b> |                        |  | 946 | 950H | 955 125/250 |
| <b>977 HZ</b> |                        |  | 946 | 950H | 955 125/250 |



15-tlg.

| No.           | Inhalt                 |  |     |      |     |
|---------------|------------------------|--|-----|------|-----|
|               | S:  = 941<br>Z:  = 940 |  |     |      |     |
| <b>976 DS</b> | <b>No. 940/941</b>     |  | 946 | 948  | 250 |
| <b>976 DZ</b> | 10-11-12-13-14-15-16   |  | 946 | 948  | 250 |
| <b>976 US</b> | 17-18-19-20-22         |  | 946 | 947  | 250 |
| <b>976 UZ</b> |                        |  | 946 | 947  | 250 |
| <b>976 HS</b> |                        |  | 946 | 950H | 250 |
| <b>976 HZ</b> |                        |  | 946 | 950H | 250 |



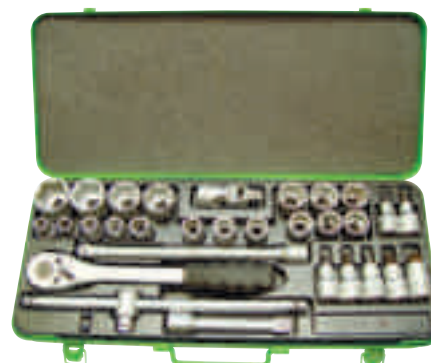
25-tlg.

| No.           | Inhalt                 |  |     |      |             |
|---------------|------------------------|--|-----|------|-------------|
|               | S:  = 941<br>Z:  = 940 |  |     |      |             |
| <b>978 DS</b> | <b>No. 940/941</b>     |  | 946 | 948  | 955 125/250 |
| <b>978 DZ</b> | 0-11-12-13-14-15-16-17 |  | 946 | 948  | 955 125/250 |
| <b>978 US</b> | 18-19-20-21-22-23-24   |  | 946 | 947  | 955 125/250 |
| <b>978 UZ</b> | 25-26-27-30-32         |  | 946 | 947  | 955 125/250 |
| <b>978 HS</b> |                        |  | 946 | 950H | 955 125/250 |
| <b>978 HZ</b> |                        |  | 946 | 950H | 955 125/250 |



26-tlg.

| No.           |                        | Inhalt |     |      |     |         |
|---------------|------------------------|--------|-----|------|-----|---------|
|               | S:  = 941<br>Z:  = 940 |        |     |      |     |         |
| <b>979 DS</b> | <b>No. 940/941</b>     | 945    | 946 | 948  | 955 | 125/250 |
| <b>979 DZ</b> | 10-11-12-13-14-15-16   | 945    | 946 | 948  | 955 | 125/250 |
| <b>979 US</b> | 17-18-19-20-21-22-23   | 945    | 946 | 947  | 955 | 125/250 |
| <b>979 UZ</b> | 24-25-26-27-30-32      | 945    | 946 | 947  | 955 | 125/250 |
| <b>979 HS</b> |                        | 945    | 946 | 950H | 955 | 125/250 |
| <b>979 HZ</b> |                        | 945    | 946 | 950H | 955 | 125/250 |



30-tlg.

| No.           |                        | Inhalt |     |      |     |         |
|---------------|------------------------|--------|-----|------|-----|---------|
|               | S:  = 941<br>Z:  = 940 |        |     |      |     |         |
| <b>982 DS</b> | <b>No. 940/941</b>     |        | 946 | 948  | 955 | 125/250 |
| <b>982 DZ</b> | 10-11-12-13-14-15-16   |        | 946 | 948  | 955 | 125/250 |
| <b>982 US</b> | 17-18-19-21-22-23-24   |        | 946 | 947  | 955 | 125/250 |
| <b>982 UZ</b> | 25-27-30-32            |        | 946 | 947  | 955 | 125/250 |
| <b>982 HS</b> | <b>No. 967</b>         |        | 946 | 950H | 955 | 125/250 |
| <b>982 HZ</b> | 5-6-7-8-10-12-14       |        | 946 | 950H | 955 | 125/250 |



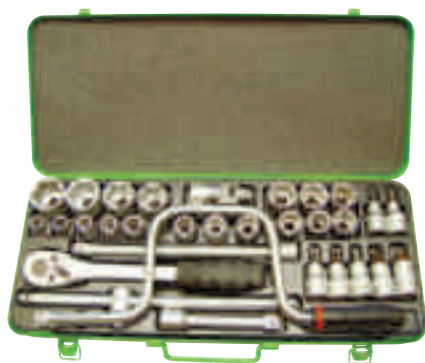
18-tlg.

| No.          |                      | Inhalt |     |      |     |         |
|--------------|----------------------|--------|-----|------|-----|---------|
|              |                      |        |     |      |     |         |
| <b>980 D</b> | <b>No. 942</b>       |        | 946 | 948  | 955 | 125/250 |
| <b>980 U</b> | 10-11-12-13-15-16-17 |        | 946 | 947  | 955 | 125/250 |
| <b>980 H</b> | 18-19-21-22-24-27    |        | 946 | 950H | 955 | 125/250 |



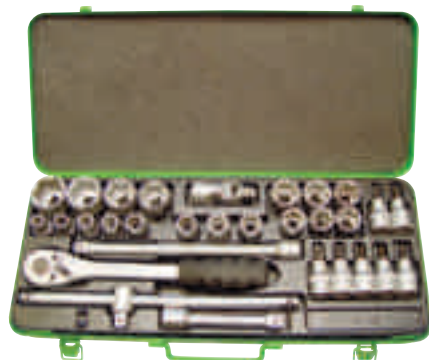
## Steckschlüsselgarnituren, metrisch in Metall-Kassette

Socket wrench Sets, metric in metal case  
Jeux de douilles, metric en caisse métal  
Juego vasos, metricas en caja metalica



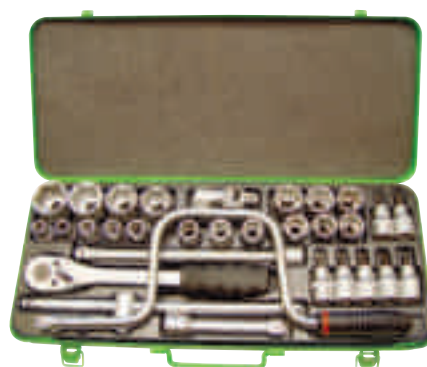
31-tlg.

| No.           | Inhalt                 |     |     |      |     |         |
|---------------|------------------------|-----|-----|------|-----|---------|
|               | S:  = 941<br>Z:  = 940 |     |     |      |     |         |
| <b>983 DS</b> | <b>No. 940/941</b>     | 945 | 946 | 948  | 955 | 125/250 |
| <b>983 DZ</b> | 10-11-12-13-14-15-16   | 945 | 946 | 948  | 955 | 125/250 |
| <b>983 US</b> | 17-18-19-21-22-23-24   | 945 | 946 | 947  | 955 | 125/250 |
| <b>983 UZ</b> | 25-27-30-32            | 945 | 946 | 947  | 955 | 125/250 |
| <b>983 HS</b> | <b>No. 967</b>         | 945 | 946 | 950H | 955 | 125/250 |
| <b>983 HZ</b> | 5-6-7-8-10-12-14       | 945 | 946 | 950H | 955 | 125/250 |



30-tlg.

| No.           | Inhalt                     |  |     |      |     |         |
|---------------|----------------------------|--|-----|------|-----|---------|
|               | S:  = 941<br>Z:  = 940     |  |     |      |     |         |
| <b>984 DS</b> | <b>No. 940/941</b>         |  | 946 | 948  | 955 | 125/250 |
| <b>984 DZ</b> | 10-11-12-13-14-15-16       |  | 946 | 948  | 955 | 125/250 |
| <b>984 US</b> | 17-18-19-21-22-23-24       |  | 946 | 947  | 955 | 125/250 |
| <b>984 UZ</b> | 25-27-30-32                |  | 946 | 947  | 955 | 125/250 |
| <b>984 HS</b> | <b>No. 969</b> T20-T25-T27 |  | 946 | 950H | 955 | 125/250 |
| <b>984 HZ</b> | T30-T40-T45-T50            |  | 946 | 950H | 955 | 125/250 |



31-tlg.

| No.           | Inhalt                     |     |     |      |     |         |
|---------------|----------------------------|-----|-----|------|-----|---------|
|               | S:  = 941<br>Z:  = 940     |     |     |      |     |         |
| <b>985 DS</b> | <b>No. 940/941</b>         | 945 | 946 | 948  | 955 | 125/250 |
| <b>985 DZ</b> | 10-11-12-13-14-15-16       | 945 | 946 | 948  | 955 | 125/250 |
| <b>985 US</b> | 17-18-19-21-22-23-24       | 945 | 946 | 947  | 955 | 125/250 |
| <b>985 UZ</b> | 25-27-30-32                | 945 | 946 | 947  | 955 | 125/250 |
| <b>985 HS</b> | <b>No. 969</b> T20-T25-T27 | 945 | 946 | 950H | 955 | 125/250 |
| <b>985 HZ</b> | T30-T40-T45-T50            | 945 | 946 | 950H | 955 | 125/250 |

## Steckschlüsselgarnitur im Metallkasten

Socket Set in Metall-case  
Jeux de douilles et accessoires, en caisse metal  
Juego vasos en caja de metal



7-tlg.

| No.            | Inhalt                           |        |      |
|----------------|----------------------------------|--------|------|
| <b>986 S 7</b> | <b>967/-5-6-8-10-12-14-17x53</b> | 7-tlg. | 1100 |



9-tlg.

| No.            | Inhalt                            |        |      |
|----------------|-----------------------------------|--------|------|
| <b>986 S 9</b> | <b>967/-4-5-6-7-8-10-12-14-17</b> | 9-tlg. | 1100 |





7-tlg.

| No.     | Inhalt                           |        |      |
|---------|----------------------------------|--------|------|
| 986 T 7 | 969/-T27-T30-T40-T45-T50-T55-T60 | 7-tlg. | 1400 |



9-tlg.

| No.   | Inhalt                  |  |  |      |  |     |
|-------|-------------------------|--|--|------|--|-----|
| 988 D | No. 969                 |  |  | 948  |  | 125 |
| 988 U | TX 20-25-30-40-45-50-55 |  |  | 947  |  | 125 |
| 988 H |                         |  |  | 950H |  | 125 |



9-tlg.

| No.     | Inhalt                                      |        |      |
|---------|---------------------------------------------|--------|------|
| 986 T 9 | 969/-T20-T25-T27-T30-T40-T45-T50<br>T55-T60 | 9-tlg. | 1400 |



40-tlg.



12-tlg.

| No.   | Inhalt                   |  |  |      |  |     |
|-------|--------------------------|--|--|------|--|-----|
| 987 D | No. 967                  |  |  | 948  |  | 125 |
| 987 U | 4-5-6-7-8-10-12-14-17-19 |  |  | 947  |  | 125 |
| 987 H |                          |  |  | 950H |  | 125 |

| No.    | Inhalt                 |     |     |          |         |            |             |
|--------|------------------------|-----|-----|----------|---------|------------|-------------|
|        | S:  = 941<br>Z:  = 940 |     |     |          |         |            |             |
| 989 DS | No. 900                | 914 | 906 | 904/948  | 908/955 | 907/50/100 | 960-125+250 |
| 989 DZ | 4-4,5-5-5,5-6          | 914 | 906 | 904/948  | 908/955 | 907/50/100 | 960-125+250 |
| 989 US | 7-8-9-10-11            | 914 | 906 | 904/947  | 908/955 | 907/50/100 | 960-125+250 |
| 989 UZ | 12-13-14               | 914 | 906 | 904/947  | 908/955 | 907/50/100 | 960-125+250 |
| 989 HS | No. 907                | 914 | 906 | 904/950H | 908/955 | 907/50/100 | 960-125+250 |
| 989 HZ | 8-9-10-11-12           | 914 | 906 | 904/950H | 908/955 | 907/50/100 | 960-125+250 |
|        | 13-14-15-16            |     |     |          |         |            |             |
|        | 17-18-19-22            |     |     |          |         |            |             |
|        | 24-27-30-32            |     |     |          |         |            |             |

## Steckschlüsselgarnituren, AF-Zoll in Metall-Kassette

Socket wrench Sets, AF-inch in metal case  
Jeux de douilles, AF-Zoll en caisse métal  
Juego vasos, pulgadas AF en caja metalica



10-tlg.

| No.      | Inhalt                  |  |  |      |    |
|----------|-------------------------|--|--|------|----|
|          | Z:  = 940 AF            |  |  |      |    |
| 975 AF-D | No. 940 AF 3/8"-1/2"    |  |  | 948  | 75 |
| 975 AF-U | 11/16"-3/4"-7/8"-15/16" |  |  | 947  | 75 |
| 975 AF-H | 1.1/16"-1.1/4"          |  |  | 950H | 75 |



25-tlg.

| No.      | Inhalt                  |  |     |      |             |
|----------|-------------------------|--|-----|------|-------------|
|          | Z:  = 940 AF            |  |     |      |             |
| 978 AF-D | No. 940 AF              |  | 946 | 948  | 955 125/250 |
| 978 AF-U | 5/16"-3/8"-13/32"-7/16" |  | 946 | 947  | 955 125/250 |
| 978 AF-H | 1/2"-9/16"-19/32"-5/8"  |  | 946 | 950H | 955 125/250 |
|          | 1.1/16"-3/4"-25/32"     |  |     |      |             |
|          | 13/16"-7/8"-15/16"      |  |     |      |             |
|          | 31/32"-1"-1.1/16"       |  |     |      |             |
|          | 1.1/8"-1.3/16"-1.1/4"   |  |     |      |             |



14-tlg.

| No.      | Inhalt                    |  |  |      |    |
|----------|---------------------------|--|--|------|----|
|          | Z:  = 940 AF              |  |  |      |    |
| 976 AF-D | No. 940 AF 7/16"-1/2"     |  |  | 948  | 75 |
| 976 AF-U | 9/16"-19/32"-5/8"-11/16"  |  |  | 947  | 75 |
| 976 AF-H | 3/4"-13/16"-7/8"-5/16"-1" |  |  | 950H | 75 |



26-tlg.

| No.      | Inhalt                  |     |     |      |             |
|----------|-------------------------|-----|-----|------|-------------|
|          | Z:  = 940 AF            |     |     |      |             |
| 979 AF-D | No. 940 AF              | 945 | 946 | 948  | 955 125/250 |
| 979 AF-U | 5/16"-3/8"-13/32"-7/16" | 945 | 946 | 947  | 955 125/250 |
| 979 AF-H | 1/2"-9/16"-19/32"-5/8"  | 945 | 946 | 950H | 955 125/250 |
|          | 11/16"-3/4"-25/32"      |     |     |      |             |
|          | 13/16"-7/8"-15/16"      |     |     |      |             |
|          | 31/32"-1"-1.1/16"       |     |     |      |             |
|          | 1.1/8"-1.3/16"-1.1/4"   |     |     |      |             |



14-tlg.

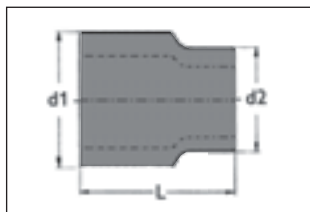
| No.      | Inhalt                  |  |     |      |             |
|----------|-------------------------|--|-----|------|-------------|
|          | Z:  = 940 AF            |  |     |      |             |
| 977 AF-D | No. 940 AF 3/8"-7/16"   |  | 946 | 948  | 955 125/250 |
| 977 AF-U | 1/2"-9/16"-19/32"-5/8"  |  | 946 | 947  | 955 125/250 |
| 977 AF-H | 11/16"-3/4"-13/16"-7/8" |  | 946 | 950H | 955 125/250 |
|          | 1.1/16"-1/8"-1.1/4"     |  |     |      |             |

### Steckschlüssel-Einsätze, 12-kant

Sockets 12-point  
Douilles 12-point  
Vasos 12-punto



DIN 3124 ISO 2725  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208



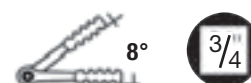
| No. | mm | L  | d1   | d2 |      |   |
|-----|----|----|------|----|------|---|
| 990 | 19 | 50 | 29   | 36 | 200  | 5 |
|     | 21 | 50 | 31   | 36 | 205  | 5 |
|     | 22 | 50 | 32,5 | 36 | 210  | 5 |
|     | 23 | 50 | 33   | 36 | 215  | 5 |
|     | 24 | 50 | 34   | 36 | 225  | 5 |
|     | 27 | 50 | 38   | 36 | 250  | 5 |
|     | 28 | 50 | 39   | 37 | 270  | 5 |
|     | 29 | 50 | 40   | 38 | 300  | 5 |
|     | 30 | 55 | 42   | 38 | 320  | 5 |
|     | 32 | 55 | 44   | 38 | 330  | 5 |
|     | 33 | 55 | 46   | 38 | 340  | 5 |
|     | 34 | 55 | 47   | 38 | 350  | 5 |
|     | 36 | 57 | 50   | 42 | 440  | 5 |
|     | 38 | 60 | 52   | 45 | 500  | 5 |
|     | 41 | 65 | 56   | 45 | 600  | 5 |
|     | 46 | 65 | 62   | 48 | 700  | 1 |
|     | 50 | 70 | 68   | 48 | 900  | 1 |
|     | 55 | 75 | 75   | 48 | 1070 | 1 |
|     | 60 | 80 | 81   | 48 | 1200 | 1 |

| No.    | AF     | L  | d1   | d2 |     |   |
|--------|--------|----|------|----|-----|---|
| 990 AF | 3/4    | 50 | 29   | 36 | 200 | 5 |
|        | 13/16  | 50 | 31   | 36 | 205 | 5 |
|        | 7/8    | 50 | 32,5 | 36 | 210 | 5 |
|        | 15/16  | 50 | 34   | 36 | 225 | 5 |
|        | 31/32  | 50 | 34   | 36 | 235 | 5 |
|        | 1"     | 50 | 34   | 36 | 235 | 5 |
|        | 1.1/16 | 50 | 38   | 36 | 250 | 5 |
|        | 1.1/8  | 50 | 39   | 37 | 270 | 5 |
|        | 1.3/16 | 55 | 42   | 38 | 320 | 5 |
|        | 1.1/4  | 55 | 44   | 38 | 330 | 5 |
|        | 1.5/16 | 55 | 46   | 38 | 340 | 5 |
|        | 1.3/8  | 57 | 50   | 42 | 350 | 5 |
|        | 1.7/16 | 57 | 50   | 42 | 440 | 5 |

| No.    | AF      | L  | d1 | d2 |      |   |
|--------|---------|----|----|----|------|---|
| 990 AF | 1.1/2   | 60 | 52 | 45 | 500  | 5 |
|        | 1.9/16  | 60 | 52 | 45 | 600  | 5 |
|        | 1.5/8   | 65 | 56 | 45 | 600  | 5 |
|        | 1.3/4   | 65 | 62 | 48 | 625  | 5 |
|        | 1.13/16 | 65 | 62 | 48 | 700  | 5 |
|        | 1.7/8   | 65 | 62 | 48 | 700  | 1 |
|        | 2"      | 70 | 68 | 48 | 900  | 1 |
|        | 2.1/16  | 70 | 68 | 48 | 910  | 1 |
|        | 2.1/8   | 70 | 68 | 48 | 1000 | 1 |
|        | 2.3/16  | 75 | 75 | 48 | 1070 | 1 |
|        | 2.1/4   | 75 | 75 | 48 | 1100 | 1 |
|        | 2.3/8   | 80 | 81 | 48 | 1200 | 1 |

### Scheibenumschaltknarre

Ratchet with disk reverse  
Cliquet avec disque  
Carraca con disco reversilbe



DIN 3122 Form D  
Chrom Vanadium Stahl



| No. | mm  |      |   |
|-----|-----|------|---|
| 992 | 500 | 2000 | 1 |

### Durchsteckknarre

Ratchet / Cliquet / Carraca



DIN 3122 Form D  
Chrom Vanadium Stahl



| No. | mm  |      |   |
|-----|-----|------|---|
| 993 | 500 | 2000 | 1 |

### Reparatursätze für 992-993

Replacement set for 992-993  
Jeu des parts à remplacer pour 992-993  
Repuesto para el artículo 992-993

DIN 3122 Form D  
Chrom Vanadium Stahl



| No.   |     |   |
|-------|-----|---|
| 992 R | 530 | 1 |

| No.   |     |   |
|-------|-----|---|
| 993 R | 520 | 1 |



### Quergriff

Sliding T-handle  
Levier transversal  
Mango de T



DIN 3122 Form A  
Chrom Vanadium Stahl



| No. | mm  |      |   |
|-----|-----|------|---|
| 994 | 450 | 1460 | 1 |

### Kardangelenk

Universal joint / Genouillere  
Union universel



DIN 3123 Form A  
Chrom Vanadium Stahl



| No. | mm |     |   |
|-----|----|-----|---|
| 998 | 70 | 385 | 5 |

### Verlängerung

Extension bars  
Allonges  
Barra prolongacion



DIN 3122 Form A  
Chrom Vanadium Stahl



| No. | mm  |      |   |
|-----|-----|------|---|
| 995 | 200 | 590  | 5 |
|     | 400 | 1120 | 2 |

### Steckschlüsselgarnitur im Metallkasten

Socket Set in Metall-case  
Jeu de douilles et accessoires, en caisse metal  
Juego vasos en caja de metal



14-tlg.

### Kardangelenk

Universal joint / Genouillere / Union universel



DIN 3123 Form B  
Chrom Vanadium Stahl



| No. | mm  |     |   |
|-----|-----|-----|---|
| 996 | 100 | 460 | 5 |

### Kardangelenk

Universal joint / Genouillere  
Union universel



DIN 3123 Form A  
Chrom Vanadium Stahl



| No. | mm |     |   |
|-----|----|-----|---|
| 997 | 55 | 260 | 5 |

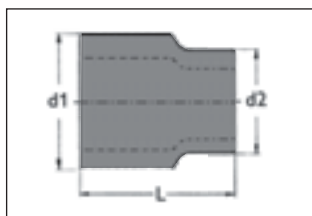
| No.            | Inhalt                      |     |     |     |            |            |
|----------------|-----------------------------|-----|-----|-----|------------|------------|
|                | = 12-kant                   | 992 | 993 | 994 | 995<br>200 | 995<br>400 |
|                | <b>No. 990/990 AF</b>       |     |     |     |            |            |
| <b>1000</b>    | 22-24-27-30-32-36           | X   |     | X   | X          | X          |
|                | 38-41-46-50                 |     |     |     |            |            |
| <b>1001</b>    | 22-24-27-30-32-36           |     | X   | X   | X          | X          |
|                | 38-41-46-50                 |     |     |     |            |            |
| <b>1002 AF</b> | 7/8-15/16-1"-1.1/16-1.1/4   | X   |     | X   | X          | X          |
|                | 7/16-1.1/2-1.5/8-1.13/16-2" |     |     |     |            |            |
| <b>1003 AF</b> | 7/8-15/16-1"-1.1/16-1.1/4   |     | X   | X   | X          | X          |
|                | 7/16-1.1/2-1.5/8-1.13/16-2" |     |     |     |            |            |

## Steckschlüssel-Einsätze, 12-kant

Sockets 12-point  
Douilles 12-point  
Vasos 12-punto



DIN 3124 ISO 2725  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208



| No.  | mm | L   | d1  | d2 |      |
|------|----|-----|-----|----|------|
| 1020 | 36 | 65  | 51  | 45 | 525  |
|      | 38 | 65  | 54  | 45 | 595  |
|      | 41 | 70  | 57  | 45 | 615  |
|      | 46 | 75  | 65  | 50 | 720  |
|      | 50 | 75  | 70  | 55 | 950  |
|      | 55 | 80  | 76  | 57 | 1030 |
|      | 60 | 84  | 82  | 57 | 1325 |
|      | 65 | 87  | 88  | 57 | 1540 |
|      | 70 | 93  | 94  | 68 | 1775 |
|      | 75 | 97  | 100 | 68 | 2200 |
|      | 80 | 103 | 105 | 68 | 2630 |

| No.     | AF      | L   | d1  | d2 |      |
|---------|---------|-----|-----|----|------|
| 1020 AF | 1.7/16  | 65  | 51  | 45 | 525  |
|         | 1.1/2   | 65  | 54  | 45 | 595  |
|         | 1.5/8   | 70  | 57  | 45 | 615  |
|         | 1.13/16 | 75  | 65  | 50 | 720  |
|         | 1.7/8   | 75  | 67  | 57 | 865  |
|         | 2"      | 75  | 70  | 57 | 950  |
|         | 2.1/4   | 80  | 78  | 57 | 1030 |
|         | 2.3/8   | 84  | 82  | 57 | 1325 |
|         | 2.5/8   | 90  | 90  | 57 | 1540 |
|         | 2.3/4   | 93  | 94  | 68 | 1775 |
|         | 3"      | 103 | 102 | 68 | 2200 |
|         | 3.1/8   | 103 | 105 | 68 | 2630 |

## Umschaltknarre

Ratchet with disk reverse  
Cliquet avec disque  
Carraca con disco reversilbe



DIN 3122 Form D  
Chrom Vanadium Stahl



| No.  | L-mm |      |   |
|------|------|------|---|
| 1022 | 610  | 3375 | 1 |

## Quergriff

Sliding T-handle  
Levier transversal  
Mango de T



DIN 3122  
Chrom Vanadium Stahl



| No.  | L-mm |      |   |
|------|------|------|---|
| 1024 | 490  | 2480 | 1 |

## Verlängerung

Extension bars  
Allonges  
Barra prolongacion



DIN 3123 Form B  
Chrom Vanadium Stahl



| No.  | L-mm |      |   |
|------|------|------|---|
| 1025 | 210  | 1040 | 1 |
|      | 490  | 1850 | 1 |

## Steckschlüsselgarnitur im Metallkasten

Socket Set in Metall-case  
Jeux de douilles et accessoires,  
en caisse metal  
Juego vasos en caja de metal



DIN 3123 Form B  
Chrom Vanadium Stahl



14-tlg.

| No.     | Inhalt                                                           |       |
|---------|------------------------------------------------------------------|-------|
|         | = 12-kant                                                        |       |
|         | 1025 210 1022<br>420 1024                                        |       |
|         | No. 990/990 AF                                                   |       |
| 1030    | 36-41-46-50-55-60-65-70<br>75-80                                 | 27100 |
| 1031 AF | 1.7/16-1.1/2-1.5/8-1.13/16<br>1.7/8-2-2.1/4-2.3/8-2.5/8<br>3.1/8 | 27100 |

## Kraftschrauber-Einsätze "Impact"

Impact Sockets

Douilles et accessoires Impact

Vasos Impact



DIN 3129 ISO 2725  
Chrom Molybdän  
Stahl brüniert

## Kraftschrauber-Einsätze "Impact"

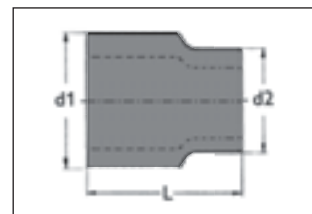
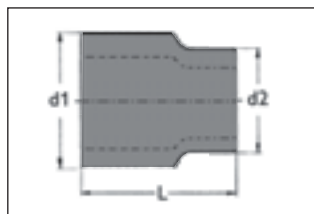
Impact Sockets

Douilles et accessoires Impact

Vasos Impact



DIN 3129 ISO 2725  
Chrom Molybdän  
Stahl brüniert



| No.  | mm | L  | d1   | d2 | t  |     |    |
|------|----|----|------|----|----|-----|----|
| 1045 | 6  | 30 | 11   | 19 | 4  | 40  | 10 |
|      | 7  | 30 | 12,5 | 19 | 8  | 40  | 10 |
|      | 8  | 30 | 13,8 | 19 | 8  | 40  | 10 |
|      | 9  | 30 | 15   | 19 | 8  | 40  | 10 |
|      | 10 | 30 | 16   | 19 | 8  | 40  | 10 |
|      | 11 | 30 | 17,5 | 19 | 9  | 41  | 10 |
|      | 12 | 30 | 19   | 19 | 9  | 43  | 10 |
|      | 13 | 30 | 20   | 22 | 9  | 56  | 10 |
|      | 14 | 30 | 21   | 22 | 9  | 60  | 10 |
|      | 15 | 30 | 22   | 22 | 11 | 63  | 10 |
|      | 16 | 30 | 24   | 22 | 11 | 70  | 10 |
|      | 17 | 30 | 25   | 22 | 11 | 76  | 10 |
|      | 18 | 30 | 26   | 22 | 11 | 80  | 10 |
|      | 19 | 30 | 27,5 | 22 | 11 | 85  | 10 |
|      | 20 | 30 | 28   | 22 | 12 | 94  | 10 |
|      | 21 | 30 | 30   | 22 | 13 | 100 | 10 |
|      | 22 | 30 | 32   | 23 | 13 | 110 | 10 |

## Impact Verlängerung

Extension bars impact

Allonges Impact

Barra prolongacion Impact



Chrom Molybdän  
Stahl brüniert



| No.  | L-mm |     |    |
|------|------|-----|----|
| 1046 | 75   | 90  | 10 |
|      | 150  | 170 | 10 |

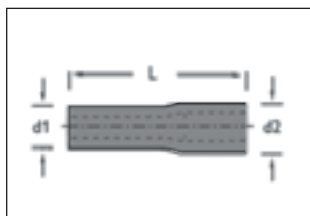
| No.  | mm | L  | d1   | d2 | t  |     |   |
|------|----|----|------|----|----|-----|---|
| 1050 | 8  | 38 | 15   | 25 | 9  | 68  | 5 |
|      | 10 | 38 | 17,5 | 25 | 12 | 68  | 5 |
|      | 11 | 38 | 18,7 | 25 | 12 | 70  | 5 |
|      | 12 | 38 | 20   | 25 | 12 | 70  | 5 |
|      | 13 | 38 | 21   | 25 | 12 | 72  | 5 |
|      | 14 | 38 | 22,5 | 25 | 12 | 72  | 5 |
|      | 15 | 38 | 23,7 | 30 | 12 | 76  | 5 |
|      | 16 | 38 | 25   | 30 | 12 | 76  | 5 |
|      | 17 | 38 | 26   | 30 | 13 | 86  | 5 |
|      | 18 | 38 | 27,5 | 30 | 13 | 86  | 5 |
|      | 19 | 38 | 28,7 | 30 | 13 | 102 | 5 |
|      | 20 | 38 | 30   | 30 | 13 | 120 | 5 |
|      | 21 | 38 | 30   | 30 | 13 | 120 | 5 |
|      | 22 | 38 | 32   | 30 | 13 | 146 | 5 |
|      | 23 | 38 | 32   | 30 | 13 | 146 | 5 |
|      | 24 | 45 | 35   | 30 | 20 | 146 | 5 |
|      | 25 | 45 | 36   | 30 | 20 | 168 | 5 |
|      | 26 | 50 | 38   | 30 | 22 | 174 | 5 |
|      | 27 | 50 | 38,7 | 30 | 22 | 174 | 5 |
|      | 28 | 50 | 40   | 30 | 22 | 192 | 5 |
|      | 30 | 50 | 42   | 30 | 22 | 210 | 5 |
|      | 32 | 50 | 44   | 30 | 28 | 218 | 5 |

## Kraftschrauber-Einsätze "Impact", lange Ausführung

Impact Sockets deep  
Douilles et accessoires  
Impact profond  
Vasos Impact largos



DIN 3129 ISO 2725  
Chrom Molybdän  
Stahl brüniert



| No.  | mm | L  | d1   | d2 | t  |     |     |
|------|----|----|------|----|----|-----|-----|
| 1058 | 10 | 78 | 17,5 | 25 | 14 | 130 | 130 |
|      | 13 | 78 | 21   | 25 | 14 | 150 | 150 |
|      | 14 | 78 | 22,5 | 25 | 17 | 175 | 175 |
|      | 16 | 78 | 25   | 30 | 17 | 200 | 200 |
|      | 17 | 78 | 26   | 30 | 17 | 225 | 225 |
|      | 18 | 78 | 27,5 | 30 | 17 | 230 | 230 |
|      | 19 | 78 | 28,7 | 30 | 19 | 240 | 240 |
|      | 21 | 78 | 30   | 30 | 24 | 260 | 260 |
|      | 22 | 78 | 32   | 30 | 24 | 300 | 300 |
|      | 23 | 78 | 32   | 30 | 24 | 300 | 300 |
|      | 24 | 78 | 35   | 30 | 24 | 310 | 310 |
|      | 27 | 78 | 38,7 | 30 | 54 | 360 | 360 |
|      | 30 | 78 | 42   | 30 | 54 | 390 | 390 |
|      | 32 | 78 | 44   | 30 | 54 | 400 | 400 |

## Kraftschrauber-Einsätze "Impact", lange Ausführung, Set

Impact Sockets deep, Set  
Douilles et accessoires, Set  
Impact profond  
Vasos Impact largos, Set



DIN 3129 ISO 2725  
Chrom Molybdän  
Stahl brüniert



3-tlg.

| No.  | L-mm     |      |   |
|------|----------|------|---|
| 1053 | 17-19-21 | 1400 | 1 |

## Kraftschrauber-Einsätze "Impact", lange Ausführung, Set

Impact Sockets deep, Set  
Douilles et accessoires, Set  
Impact profond  
Vasos Impact largos, Set



DIN 3129 ISO 2725  
Chrom Molybdän  
Stahl brüniert



5-tlg.

| No.  | L-mm           |      |   |
|------|----------------|------|---|
| 1054 | 17-19-21-22-24 | 1530 | 1 |

## Impact Verlängerung

Extension bars impact  
Allonges Impact  
Barra prolongacion Impacta



Chrom Molybdän  
Stahl brüniert



5-tlg.

| No.  | L-mm |     |   |
|------|------|-----|---|
| 1055 | 75   | 170 | 5 |
|      | 125  | 125 | 5 |
|      | 150  | 250 | 5 |

## Sicherungs-Gummiringe

Safety rubbers  
Boucles  
Goma seguridad



| No.  | L-mm  |    |    |
|------|-------|----|----|
| 1056 | 8-14  | 10 | 10 |
|      | 15-32 | 10 | 10 |

## Sicherungs-Stifte

Safety bolts / Goupilles / Perno seguridad



| No.  | L-mm  |    |    |
|------|-------|----|----|
| 1057 | 8-14  | 10 | 10 |
|      | 15-32 | 10 | 10 |



## Kraftschrauber-Einsätze "Impact"

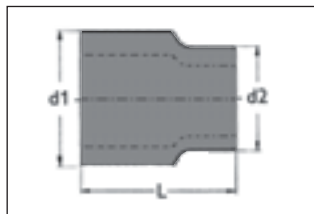
Impact Sockets

Douilles et accessoires Impact

Vasos Impact



DIN 3129 ISO 2725  
Chrom Molybdän  
Stahl brüniert



| No.  | mm | L  | d1 | d2 | t  |     |   |
|------|----|----|----|----|----|-----|---|
| 1065 | 17 | 50 | 31 | 44 | 12 | 375 | 5 |
|      | 18 | 50 | 32 | 44 | 12 | 375 | 5 |
|      | 19 | 50 | 33 | 44 | 14 | 375 | 5 |
|      | 22 | 50 | 37 | 44 | 16 | 375 | 5 |
|      | 24 | 50 | 39 | 44 | 16 | 388 | 5 |
|      | 27 | 54 | 43 | 44 | 16 | 395 | 5 |
|      | 28 | 54 | 44 | 44 | 23 | 400 | 5 |
|      | 29 | 54 | 45 | 44 | 23 | 410 | 5 |
|      | 30 | 54 | 47 | 44 | 23 | 420 | 5 |
|      | 32 | 56 | 49 | 44 | 23 | 470 | 5 |
|      | 33 | 56 | 51 | 44 | 23 | 470 | 5 |
|      | 34 | 56 | 52 | 44 | 23 | 500 | 5 |
|      | 36 | 56 | 54 | 44 | 23 | 530 | 5 |
|      | 38 | 58 | 57 | 44 | 24 | 560 | 5 |
|      | 41 | 58 | 60 | 44 | 24 | 625 | 5 |
|      | 46 | 63 | 67 | 44 | 27 | 770 | 5 |

## Impact Verlängerung

Extension bars impact

Allonges Impact

Barra prolongacion Impacta



Chrom Molybdän  
Stahl brüniert



| No.  | L-mm |      |   |
|------|------|------|---|
| 1070 | 100  | 600  | 5 |
|      | 175  | 770  | 5 |
|      | 250  | 1030 | 5 |

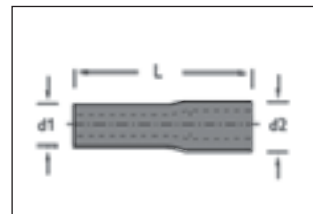
## Kraftschrauber-Einsätze "Impact", lange Ausführung

Impact Sockets deep / Douilles et accessoires

Impact profond / Vasos Impact largos



DIN 3129 ISO 2725  
Chrom Molybdän  
Stahl brüniert



| No.  | mm | L  | d1 | d2 | t  |     |   |
|------|----|----|----|----|----|-----|---|
| 1066 | 17 | 95 | 31 | 44 | 12 | 375 | 5 |
|      | 18 | 95 | 32 | 44 | 12 | 375 | 5 |
|      | 19 | 95 | 33 | 44 | 14 | 375 | 5 |
|      | 22 | 95 | 37 | 44 | 16 | 375 | 5 |
|      | 24 | 95 | 39 | 44 | 16 | 388 | 5 |
|      | 27 | 95 | 43 | 44 | 16 | 395 | 5 |
|      | 30 | 95 | 47 | 44 | 23 | 400 | 5 |
|      | 32 | 95 | 49 | 44 | 23 | 410 | 5 |
|      | 33 | 95 | 51 | 44 | 23 | 420 | 5 |
|      | 34 | 95 | 52 | 44 | 23 | 470 | 5 |
|      | 36 | 95 | 54 | 44 | 23 | 470 | 5 |
|      | 38 | 95 | 57 | 44 | 23 | 500 | 5 |
|      | 41 | 95 | 60 | 44 | 23 | 530 | 5 |
|      | 46 | 95 | 67 | 44 | 24 | 560 | 5 |
|      | 50 | 95 | 71 | 54 | 24 | 625 | 5 |

## Sicherungs-Gummiringe

Safety rubbers

Boucles

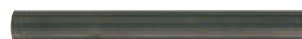
Goma seguridad



| No.  | L-mm  |  |    |
|------|-------|--|----|
| 1071 | 17-49 |  | 10 |
|      | 50-70 |  | 10 |

## Sicherungs-Stifte

Safety bolts / Goupilles / Perno seguridad



| No.  | L-mm  |  |    |
|------|-------|--|----|
| 1072 | 17-49 |  | 10 |
|      | 50-70 |  | 10 |

## Kraftschrauber-Einsätze "Impact"

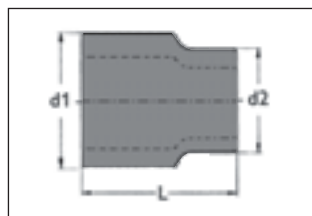
Impact Sockets

Douilles et accessoires Impact

Vasos Impact



DIN 3129 ISO 2725  
Chrom Molybdän  
Stahl brüniert



| No.  | mm | L   | d1  | d2 | t  |      |
|------|----|-----|-----|----|----|------|
| 1075 | 22 | 58  | 40  | 54 | 17 | 655  |
|      | 24 | 58  | 42  | 54 | 17 | 655  |
|      | 27 | 58  | 46  | 54 | 17 | 650  |
|      | 30 | 60  | 50  | 54 | 21 | 670  |
|      | 32 | 60  | 52  | 54 | 21 | 670  |
|      | 34 | 62  | 55  | 54 | 21 | 680  |
|      | 36 | 62  | 56  | 54 | 30 | 690  |
|      | 38 | 62  | 59  | 54 | 30 | 725  |
|      | 41 | 62  | 63  | 54 | 31 | 820  |
|      | 42 | 74  | 64  | 54 | 36 | 900  |
|      | 46 | 74  | 69  | 54 | 36 | 1020 |
|      | 50 | 80  | 74  | 54 | 42 | 1210 |
|      | 55 | 84  | 80  | 54 | 44 | 1540 |
|      | 60 | 87  | 86  | 54 | 44 | 1875 |
|      | 65 | 90  | 92  | 54 | 46 | 2170 |
|      | 70 | 96  | 99  | 54 | 51 | 2500 |
|      | 75 | 98  | 104 | 86 | 52 | 3830 |
|      | 80 | 100 | 109 | 86 | 52 | 4285 |

## Impact Verlängerung

Extension bars impact

Allonges Impact

Barra prolongacion Impacta



Chrom Molybdän  
Stahl brüniert



| No.  | L-mm |      |
|------|------|------|
| 1077 | 175  | 1440 |
|      | 325  | 2400 |

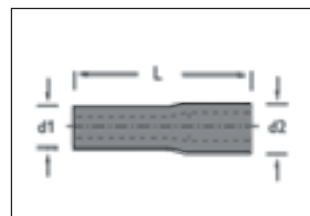
## Kraftschrauber-Einsätze "Impact", lange Ausführung

Impact Sockets deep / Douilles et accessoires

Impact profond / Vasos Impact largos



DIN 3129 ISO 2725  
Chrom Molybdän  
Stahl brüniert



| No.  | mm | L   | d1 | d2 | t  |      |
|------|----|-----|----|----|----|------|
| 1076 | 24 | 100 | 42 | 54 | 21 | 885  |
|      | 27 | 100 | 46 | 54 | 23 | 1055 |
|      | 30 | 100 | 50 | 54 | 50 | 1130 |
|      | 32 | 100 | 52 | 54 | 50 | 1115 |
|      | 33 | 100 | 53 | 54 | 50 | 1120 |
|      | 34 | 100 | 55 | 54 | 50 | 1125 |
|      | 36 | 100 | 56 | 54 | 64 | 1150 |
|      | 38 | 100 | 59 | 54 | 64 | 1220 |
|      | 41 | 100 | 63 | 54 | 64 | 1285 |
|      | 46 | 100 | 69 | 54 | 62 | 1500 |
|      | 50 | 100 | 74 | 54 | 62 | 1600 |

## Sicherungs-Gummiringe

Safety rubbers

Boucles

Goma seguridad



| No.  | L-mm  |  |    |
|------|-------|--|----|
| 1078 | 22-70 |  | 10 |
|      | 75-80 |  | 10 |

## Sicherungs-Stifte

Safety bolts / Goupilles / Perno seguridad



| No.  | L-mm  |  |    |
|------|-------|--|----|
| 1079 | 22-70 |  | 10 |
|      | 75-80 |  | 10 |

[illegible]

The background of the entire page is a photograph of an aircraft fuselage under construction in a large factory. Scaffolding and support structures are visible around the white body of the plane. In the upper left, two screwdrivers are shown: one with a black handle and green accents, and another with a red handle and yellow accents. To their right is an open black case containing a variety of screwdriver bits, each with a different colored top. The text 'SCHRAUBENDREHER' and 'SREW DRIVER' is printed in yellow on a black background in the upper right.

**SCHRAUBENDREHER**  
SREW DRIVER

**04**



## **padre soft High Torque Schraubendreher**

**Der Griff, der allen Anwendungen gerecht wird.**

**TOP-Qualität in Ergonomie, Drehmoment und Griffigkeit. Die Power in der Hand!**

## **padre soft high Torque screwdriver**

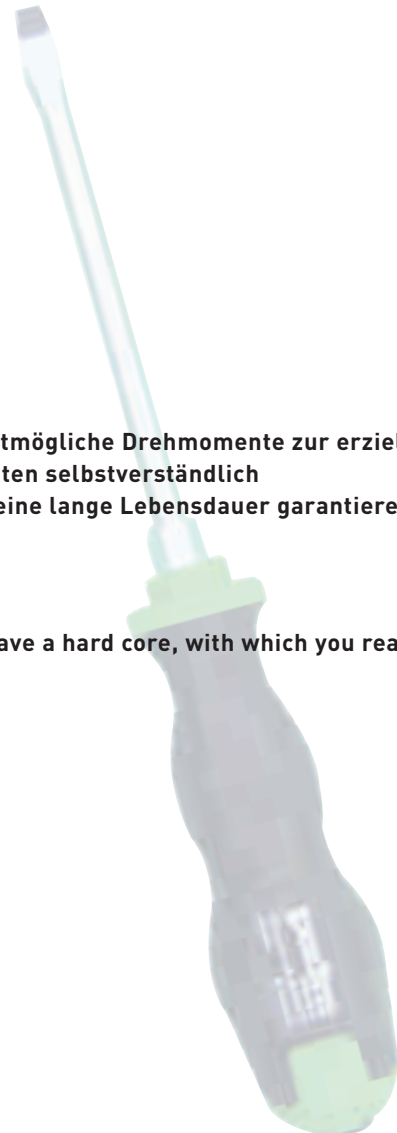
**The handle which meets any request from the user. TOP quality in ergonomics, torque and shid-resisting properties. The power in your hand!**

### **Die Vorteile auf einen Blick:**

- Aus spezial soft Material gefertigte Griffzone mit hartem Kern, um größtmögliche Drehmomente zur erzielen
- Dank optimal ergonomisch geformten Griffen ist ein komfortables Arbeiten selbstverständlich
- Klingen aus höchstbelastbarem Chrom Molybdän Stahl hergestellt, die eine lange Lebensdauer garantieren

### **The advantages in one view:**

- made of special soft material with manufactured handle-zones, which have a hard core, with which you reach an utmost torque
- an optimal ergonomic formed handle which offers a supple working
- the blades are made from Chrome Molybdän steel for a long life time



## Werkstatt-Schraubendreher mit durchgehender Sechskantklinge und Schlagkopfplatte

Workshop-screwdriver with hexagonal  
Tournevis avec hexagone  
Destornillador con hexagono  
para apriete con llave

DIN 5264 / 5268 ISO 2380  
Chrom-Molybdän  
Stahl



| No. | mm  |     | ⊖    |        |     |    |
|-----|-----|-----|------|--------|-----|----|
| 468 | 100 | 5,5 | 5    | 105x30 | 72  | 10 |
|     | 125 | 6,5 | 6,25 | 115x34 | 108 | 10 |
|     | 150 | 8   | 8    | 125x40 | 187 | 10 |
|     | 175 | 8   | 8    | 125x40 | 197 | 10 |
|     | 200 | 10  | 10   | 125x40 | 231 | 10 |
|     | 250 | 14  | 10   | 125x40 | 346 | 10 |

## Kreuzschlitz-Schraubendreher "Phillips" mit durchgehender Sechskantklinge und Schlagkopfplatte

Screwdriver for "Phillips"  
with hexagonal  
Tournevis avec hexagone "Phillips"  
Destornillador "Phillips"  
con hexagono para apriete con llave

DIN 5260 / 5268 ISO 8764  
Chrom-Molybdän  
Stahl



| No. | mm    | Für Schrauben | ⊕    |        |     |    |
|-----|-------|---------------|------|--------|-----|----|
| 469 | 1x80  | M2-M3         | 5    | 105x30 | 82  | 10 |
|     | 2x100 | M4-M5         | 6,25 | 115x34 | 130 | 10 |
|     | 3x150 | M6            | 8    | 125x40 | 216 | 10 |
|     | 4x200 | M8-M10        | 10   | 125x40 | 312 | 10 |

## Kreuzschlitz-Schraubendreher "Pozidrive" mit durchgehender Sechskantklinge und Schlagkopfplatte

Screwdriver for "Pozidrive"  
with hexagonal  
Tournevis avec hexagone "Pozidrive"  
Destornillador "Pozidrive" con hexagono  
para apriete con llave

DIN 5260 / 5268 ISO 8764  
Chrom-Molybdän  
Stahl



| No. | mm    | Für Schrauben | ⊕    |        |     |    |
|-----|-------|---------------|------|--------|-----|----|
| 470 | 1x80  | M2-M3         | 5    | 105x30 | 82  | 10 |
|     | 2x100 | M4-M5         | 6,25 | 115x34 | 130 | 10 |
|     | 3x150 | M6            | 8    | 125x40 | 216 | 10 |
|     | 4x200 | M8-M10        | 10   | 125x40 | 312 | 10 |

## Schraubendrehersätze in umweltfreundlicher Verpackung mit durchgehender Sechskantklinge und Schlagkopfplatte

Screwdriver-sets in ecological beneficial carton packing  
Jeux de tournevis en emballage biodégradable  
Juegos de destornilladores envasados en cajas de carton ecologico



7-tlg.

|     |     |     | ⊖    |        |     |   |
|-----|-----|-----|------|--------|-----|---|
| 475 | 468 | 100 | 5,5  | 105x30 | 900 | 1 |
|     | 468 | 125 | 6,5  | 115x34 |     |   |
|     | 468 | 150 | 8    | 125x40 |     |   |
|     | 469 | 80  | PH 1 | 105x30 |     |   |
|     | 469 | 100 | PH 2 | 115x34 |     |   |
|     | 470 | 80  | PZ 1 | 105x30 |     |   |
|     | 470 | 100 | PZ 2 | 115x34 |     |   |

## Verkaufsständer mit 52 Schraubendrehern

Display stand with 52 screwdrivers  
Présentoirs 52 tournevis  
Expositor con 52 destornilladores



Verkaufsständer wird kostenlos mitgeliefert

| No. | Inhalt |     |      |        | Stück |      |   |
|-----|--------|-----|------|--------|-------|------|---|
| 476 | 468    | 100 | 5,5  | 105x30 | 8     | 7500 | 1 |
|     | 468    | 125 | 6,5  | 115x34 | 8     |      |   |
|     | 468    | 150 | 8    | 125x40 | 6     |      |   |
|     | 469    | 80  | PH 1 | 150x30 | 8     |      |   |
|     | 469    | 100 | PH 2 | 115x34 | 7     |      |   |
|     | 470    | 80  | PZ 1 | 105x30 | 8     |      |   |
|     | 470    | 100 | PZ 2 | 115x34 | 7     |      |   |
|     | 1920   | 1 x |      |        |       |      |   |
|     | 1921   | 1 x |      |        |       |      |   |
|     | 1922   | 7 x |      |        |       |      |   |

### Elektriker-Schraubendreher

Electricians screwdriver  
Tournevis pour électriciens  
Destornillador electricista



DIN 5265 /5264  
Chrom Vanadium  
Molybdän Stahl



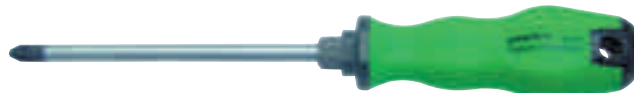
| No. |     |     |     |        |     |    |
|-----|-----|-----|-----|--------|-----|----|
| 460 | 75  | 2,4 | 0,4 | 84x25  | 29  | 10 |
|     | 100 | 3,5 | 0,6 | 84x25  | 35  | 10 |
|     | 125 | 3,5 | 0,8 | 84x25  | 37  | 10 |
|     | 150 | 5,5 | 1,0 | 105x30 | 70  | 10 |
|     | 200 | 6,5 | 1,0 | 115x34 | 127 | 10 |

### Kreuzschlitz-Schraubendreher "Pozidrive"

Screwdriver for "Pozidrive"  
Tournevis pour vis façon "Pozidrive"  
Destornillador "Pozidrive"



DIN 5262  
Chrom Vanadium  
Molybdän Stahl



| No. |      |     | Ø   |        |     |    |
|-----|------|-----|-----|--------|-----|----|
| 464 | PZ 0 | 60  | 3,5 | 84x25  | 29  | 10 |
|     | PZ 1 | 80  | 5   | 105x30 | 60  | 10 |
|     | PZ 2 | 100 | 6   | 115x34 | 90  | 10 |
|     | PZ 3 | 150 | 8   | 126x40 | 165 | 10 |
|     | PZ 4 | 200 | 9,5 | 126x40 | 230 | 10 |

### Werkstatt-Schraubendreher

Workshop-screwdriver  
Tournevis mécanicien  
Destornillador mecanico



DIN 5265 /5264  
Chrom Vanadium  
Molybdän Stahl



| No. |     |     | Ø   |        |     |    |
|-----|-----|-----|-----|--------|-----|----|
| 462 | 75  | 4   | 4   | 84x25  | 30  | 10 |
|     | 100 | 5,5 | 5   | 105x30 | 55  | 10 |
|     | 125 | 6,5 | 6   | 115x34 | 105 | 10 |
|     | 150 | 8   | 7   | 126x40 | 165 | 10 |
|     | 200 | 10  | 8   | 126x40 | 182 | 10 |
|     | 250 | 12  | 9,5 | 126x40 | 256 | 10 |

### Werkstatt-Schraubendreher mit Sechskant

Workshop-screwdriver with hexagonal  
Tournevis avec hexagone  
Destornillador con hexagono  
para apriete con llave



DIN 5264 A  
Chrom Vanadium  
Molybdän Stahl



| No. |     |     | Ø |        |     |    |
|-----|-----|-----|---|--------|-----|----|
| 465 | 100 | 5,5 | 5 | 105x30 | 68  | 10 |
|     | 125 | 6,5 | 7 | 115x35 | 110 | 10 |
|     | 150 | 8   | 8 | 126x40 | 152 | 10 |

### Kreuzschlitz-Schraubendreher "Phillips"

Screwdriver for "Phillips"  
Tournevis pour vis façon "Phillips"  
Destornillador "Phillips"



DIN 5262  
Chrom Vanadium  
Molybdän Stahl



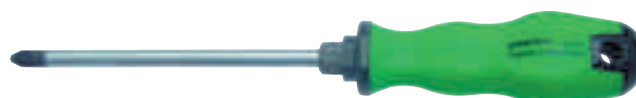
| No. |      |     | Ø   |        |     |    |
|-----|------|-----|-----|--------|-----|----|
| 463 | PH 0 | 60  | 3,5 | 84x25  | 29  | 10 |
|     | PH 1 | 80  | 5   | 105x30 | 60  | 10 |
|     | PH 2 | 100 | 6   | 115x34 | 90  | 10 |
|     | PH 3 | 150 | 8   | 126x40 | 165 | 10 |
|     | PH 4 | 200 | 9,5 | 126x40 | 230 | 10 |

### Kreuzschlitz-Schraubendreher "Phillips" mit Sechskant

Screwdriver for "Phillips" with hexagonal  
Tournevis avec hexagone "Phillips"  
Destornillador "Phillips" con hexagono  
para apriete con llave



DIN 5262  
Chrom Vanadium  
Molybdän Stahl



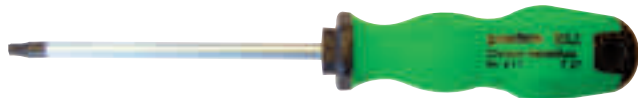
| No. |      |     | Ø |        |     |    |
|-----|------|-----|---|--------|-----|----|
| 466 | PH 1 | 80  | 5 | 105x30 | 61  | 10 |
|     | PH 2 | 100 | 6 | 115x34 | 90  | 10 |
|     | PH 3 | 150 | 8 | 126x40 | 140 | 10 |

**Schraubendreher für Torx®-Schrauben**

Screwdriver for Torx®-screws

Tournevis pour vis Torx®

Destornillador Torx®

Chrom Vanadium  
Molybdän Stahl

| No. |  |  |  |  |  |  |
|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 467 | T 6                                                                               | 60                                                                                | 3                                                                                 | 85x25                                                                             | 31                                                                                | 10                                                                                |
|     | T 7                                                                               | 60                                                                                | 3                                                                                 | 85x25                                                                             | 31                                                                                | 10                                                                                |
|     | T 8                                                                               | 60                                                                                | 3                                                                                 | 85x25                                                                             | 31                                                                                | 10                                                                                |
|     | T 9                                                                               | 60                                                                                | 3                                                                                 | 85x25                                                                             | 54                                                                                | 10                                                                                |
|     | T 10                                                                              | 80                                                                                | 4                                                                                 | 105x30                                                                            | 56                                                                                | 10                                                                                |
|     | T 15                                                                              | 80                                                                                | 4                                                                                 | 105x30                                                                            | 56                                                                                | 10                                                                                |
|     | T 20                                                                              | 100                                                                               | 4                                                                                 | 105x30                                                                            | 58                                                                                | 10                                                                                |
|     | T 25                                                                              | 100                                                                               | 5                                                                                 | 105x30                                                                            | 68                                                                                | 10                                                                                |
|     | T 27                                                                              | 115                                                                               | 6                                                                                 | 115x35                                                                            | 98                                                                                | 10                                                                                |
|     | T 30                                                                              | 115                                                                               | 6                                                                                 | 115x35                                                                            | 98                                                                                | 10                                                                                |
|     | T 40                                                                              | 130                                                                               | 7                                                                                 | 115x35                                                                            | 118                                                                               | 10                                                                                |
|     | T 45                                                                              | 130                                                                               | 8                                                                                 | 125x40                                                                            | 160                                                                               | 10                                                                                |

**Vergaserschraubendreher,  
DIN 5265 ISO 2380**

Carburettor screwdriver

Tournevis pour carburateurs

Destornillador carburador plano

Chrom Vanadium  
Stahl

| No. |  |  |  |  |  |  |  |
|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 457 | 25                                                                                  | 5,5                                                                                 | 1,0                                                                                 | 5,5                                                                                 | 50x35                                                                               | 36                                                                                  | 10                                                                                  |
|     | 25                                                                                  | 6,5                                                                                 | 1,0                                                                                 | 6,5                                                                                 | 50x35                                                                               | 40                                                                                  | 10                                                                                  |

**Vergaserschraubendreher "Phillips"  
DIN 5265 ISO 8764**

Carburettor screwdriver "Phillips"

Tournevis pour carburateurs "Phillips"

Destornillador carburador plano "Phillips"

Chrom Vanadium  
Stahl

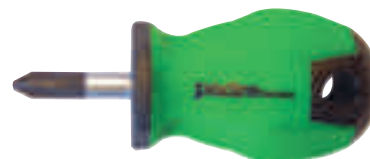
| No. |  |  |  |  |  |    |
|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|
| 458 | PH 1 x 25                                                                           |                                                                                     | 5                                                                                   | 50x35                                                                               | 34                                                                                  | 10 |
|     | PH 2 x 25                                                                           |                                                                                     | 6                                                                                   | 50x35                                                                               | 38                                                                                  | 10 |

**Vergaserschraubendreher "Pozidrive"  
DIN 5265 ISO 8764**

Carburettor screwdriver "Pozidrive"

Tournevis pour carburateurs "Pozidrive"

Destornillador carburador plano "Pozidrive"

Chrom Vanadium  
Stahl

| No. |  |  |  |  |    |
|-----|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|
| 459 | PH 1 x 25                                                                          | 5                                                                                   | 50x35                                                                               | 34                                                                                  | 10 |
|     | PH 2 x 25                                                                          | 6                                                                                   | 50x35                                                                               | 38                                                                                  | 10 |

**Steckschlüssel mit Griff**

Socket wrenches

Clés à douilles

Destornillador punta vaso

DIN 3125 ISO 2725

Chrom Vanadium  
Stahl

| No. |  |  |  |  |  |  |
|-----|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 461 | 5,5                                                                                | 125                                                                                 | 6                                                                                   | 105x30                                                                              | 78                                                                                  | 10                                                                                  |
|     | 6                                                                                  | 125                                                                                 | 6                                                                                   | 115x35                                                                              | 104                                                                                 | 10                                                                                  |
|     | 7                                                                                  | 125                                                                                 | 7                                                                                   | 115x35                                                                              | 106                                                                                 | 10                                                                                  |
|     | 8                                                                                  | 125                                                                                 | 7                                                                                   | 115x35                                                                              | 119                                                                                 | 10                                                                                  |
|     | 9                                                                                  | 125                                                                                 | 7                                                                                   | 115x35                                                                              | 121                                                                                 | 10                                                                                  |
|     | 10                                                                                 | 125                                                                                 | 7                                                                                   | 125x40                                                                              | 169                                                                                 | 10                                                                                  |
|     | 11                                                                                 | 125                                                                                 | 8                                                                                   | 125x40                                                                              | 173                                                                                 | 10                                                                                  |
|     | 12                                                                                 | 125                                                                                 | 8                                                                                   | 125x40                                                                              | 176                                                                                 | 10                                                                                  |
|     | 13                                                                                 | 125                                                                                 | 8                                                                                   | 125x40                                                                              | 180                                                                                 | 10                                                                                  |

**Verkaufsständer mit  
40 Steckschlüssel mit Griff**Display stand with 40 Socket  
wrenches, with handles

Présentoirs 40 clés à douilles, manche

Expositor con 40 destornillador  
punta vaso

Verkaufsständer wird kostenlos mitgeliefert

| No. | Inhalt |  |  |  | Stück | <br>g |  |
|-----|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 472 | 461    | 125                                                                                   | 6                                                                                     | 115x35                                                                                | 7     | 7500                                                                                       | 1                                                                                     |
|     | 461    | 125                                                                                   | 7                                                                                     | 115x35                                                                                | 7     |                                                                                            |                                                                                       |
|     | 461    | 125                                                                                   | 8                                                                                     | 115x35                                                                                | 7     |                                                                                            |                                                                                       |
|     | 461    | 125                                                                                   | 10                                                                                    | 125x40                                                                                | 6     |                                                                                            |                                                                                       |
|     | 461    | 125                                                                                   | 12                                                                                    | 125x40                                                                                | 6     |                                                                                            |                                                                                       |
|     | 461    | 125                                                                                   | 13                                                                                    | 125x40                                                                                | 6     |                                                                                            |                                                                                       |
|     | 1920   | 1 x                                                                                   |                                                                                       |                                                                                       |       |                                                                                            |                                                                                       |
|     | 1921   | 1 x                                                                                   |                                                                                       |                                                                                       |       |                                                                                            |                                                                                       |
|     | 1922   | 9 x                                                                                   |                                                                                       |                                                                                       |       |                                                                                            |                                                                                       |



### Steckschlüsselsatz mit Griff und mit Aufhänge-Loch

Socketset wrenches, handles with hang up hole  
Clés à douilles, manche avec ouverture de pendre  
Destornillador punta vaso, con agujero para colgar



6-tlg.

| No. |     | mm                  |     |   |
|-----|-----|---------------------|-----|---|
| 471 | 461 | 6, 7, 8, 10, 12, 13 | 930 | 1 |



7-tlg.

| No.   |         |     | Ø         |        |     |   |
|-------|---------|-----|-----------|--------|-----|---|
| 484   | 460     | 75  | 2,4       | 84x25  | 620 | 1 |
|       | 460     | 100 | 3,5       | 105x30 |     |   |
| 484 P | 462     | 100 | 5,5       | 105x30 |     |   |
|       | 462     | 125 | 6,5       | 115x34 |     |   |
|       | 462     | 150 | 8         | 126x40 |     |   |
|       | 463/464 | 80  | PH 1-PZ 1 | 105x30 |     |   |
|       | 463/464 | 100 | PH 2-PZ 2 | 115x34 |     |   |

### Schraubendrehersätze in umweltfreundlicher Verpackung

Screwdriver-sets in ecological beneficial carton packing  
Jeux de tournevis en emballage biodégradable  
Juegos de destornilladores envasados en cajas de cartón ecologico



5-tlg.

| No.   |         |     | Ø         |        |     |   |
|-------|---------|-----|-----------|--------|-----|---|
| 480   | 460     | 100 | 3,5       | 105x30 | 480 | 1 |
|       | 462     | 125 | 6,5       | 115x34 |     |   |
| 480 P | 462     | 150 | 8         | 126x40 |     |   |
|       | 463/464 | 80  | PH 1-PZ 1 | 105x30 |     |   |
|       | 463/464 | 100 | PH 2-PZ 2 | 115x34 |     |   |
|       |         |     |           |        |     |   |



7-tlg.

| No. |     |     | Ø    |        |     |   |
|-----|-----|-----|------|--------|-----|---|
| 485 | 462 | 75  | 4    | 105x30 | 635 | 1 |
|     | 462 | 125 | 6,5  | 115x34 |     |   |
|     | 462 | 150 | 8    | 126x40 |     |   |
|     | 463 | 80  | PH 1 | 105x30 |     |   |
|     | 463 | 100 | PH 2 | 115x34 |     |   |
|     | 464 | 80  | PZ 1 | 105x30 |     |   |
|     | 464 | 100 | PZ 2 | 115x34 |     |   |

### Schraubendrehersätze in umweltfreundlicher Verpackung

Screwdriver-sets in ecological beneficial carton packing  
Jeux de tournevis en emballage biodégradable  
Juegos de destornilladores envasados en cajas de cartón ecologico



6-tlg.

| No.   |         |     | Ø         |        |     |   |
|-------|---------|-----|-----------|--------|-----|---|
| 481   | 462     | 75  | 4         | 105x30 | 580 | 1 |
|       | 462     | 100 | 5,5       | 105x30 |     |   |
|       | 462     | 125 | 6,5       | 115x34 |     |   |
| 481 P | 462     | 150 | 8         | 126x40 |     |   |
|       | 463/464 | 80  | PH 1-PZ 1 | 105x30 |     |   |
|       | 463/464 | 100 | PH 2-PZ 2 | 115x34 |     |   |

### Schraubendrehersätze für Torx®-Schrauben in umweltfreundlicher Papp-Verpackung

Screwdriver Sets for Torx®-screws in ecological beneficial carton packing / Jeux de tournevis pour vis Torx® en emballage biodégradable / Juegos de Destornilladores Torx® envasados en cajas de cartón ecologico



6-tlg.

| No. |     | Größe | Ø |        |     |   |
|-----|-----|-------|---|--------|-----|---|
| 488 | 467 | T10   | 4 | 105x30 | 540 | 1 |
|     | 467 | T15   | 4 | 105x30 |     |   |
|     | 467 | T20   | 4 | 105x30 |     |   |
|     | 467 | T25   | 5 | 105x30 |     |   |
|     | 467 | T27   | 6 | 115x35 |     |   |
|     | 467 | T30   | 6 | 115x35 |     |   |
|     |     |       |   |        |     |   |

**Elektriker-Schraubendreher**

Electricians screwdriver  
Tournevis pour électriciens  
Destornillador electricista



DIN 7437  
Chrom Vanadium  
Stahl



| No. |  |  |  |  |  |  |
|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 490 | 75                                                                                | 2,4                                                                               | 0,4                                                                               | 84x25                                                                             | 34                                                                                | 10                                                                                |
|     | 100                                                                               | 3,5                                                                               | 0,8                                                                               | 105x30                                                                            | 58                                                                                | 10                                                                                |
|     | 125                                                                               | 5,5                                                                               | 1                                                                                 | 115x34                                                                            | 91                                                                                | 10                                                                                |
|     | 150                                                                               | 6,5                                                                               | 1,2                                                                               | 126x40                                                                            | 122                                                                               | 10                                                                                |

**Kreuzschlitz-Schraubendreher, "Phillips"**

Electricians screwdriver, "Phillips"  
Tournevis pour électriciens, "Phillips"  
Destornillador electricista, "Phillips"



DIN 7437  
Chrom Vanadium  
Stahl



| No. |      |  |  |  |  |  |
|-----|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 493 | PH 0 | 60                                                                                  | 3,5                                                                                 | 84x25                                                                               | 36                                                                                  | 10                                                                                  |
|     | PH 1 | 80                                                                                  | 5                                                                                   | 105x30                                                                              | 60                                                                                  | 10                                                                                  |
|     | PH 2 | 100                                                                                 | 6                                                                                   | 115x34                                                                              | 92                                                                                  | 10                                                                                  |
|     | PH 3 | 150                                                                                 | 8                                                                                   | 126x40                                                                              | 185                                                                                 | 10                                                                                  |

**Kreuzschlitz-Schraubendreher, "Pozidrive"**

Electricians screwdriver, "Pozidrive"  
Tournevis pour électriciens, "Pozidrive"  
Destornillador electricista, "Pozidrive"



DIN 7437  
Chrom Vanadium  
Stahl



| No. |      |  |  |  |  |  |
|-----|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 494 | PZ 0 | 60                                                                                  | 3,5                                                                                 | 84x25                                                                               | 36                                                                                  | 10                                                                                  |
|     | PZ 1 | 80                                                                                  | 5                                                                                   | 105x30                                                                              | 60                                                                                  | 10                                                                                  |
|     | PZ 2 | 100                                                                                 | 6                                                                                   | 115x34                                                                              | 92                                                                                  | 10                                                                                  |

**Schraubendrehersätze in umweltfreundlicher Papp-Verpackung**

Screwdriver Sets in ecological beneficial carton packing  
Jeux de tournevis en emballage biodégradable  
Juegos de Destornilladores envasados en cajas de cartón ecológico



6-tlg.

| No.   |         |  |  |  |  |  |
|-------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 495   | 490     | 75                                                                                  | 2,4                                                                                 | 84x25                                                                               | 471                                                                                 | 1                                                                                   |
|       | 490     | 100                                                                                 | 3,5                                                                                 | 105x30                                                                              |                                                                                     |                                                                                     |
| 495 P | 490     | 125                                                                                 | 5,5                                                                                 | 115x34                                                                              |                                                                                     |                                                                                     |
|       | 493/494 | 80                                                                                  | PH 1-PZ 1                                                                           | 105x30                                                                              |                                                                                     |                                                                                     |
|       | 493/494 | 100                                                                                 | PH 2-PZ 2                                                                           | 115x34                                                                              |                                                                                     |                                                                                     |
|       | 350     | 65                                                                                  | 3                                                                                   | 75x15                                                                               |                                                                                     |                                                                                     |



7-tlg.

| No.   |         |  |  |  |  |  |
|-------|---------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 496   | 490     | 75                                                                                    | 2,4                                                                                   | 84x25                                                                                 | 590                                                                                   | 1                                                                                     |
|       | 490     | 100                                                                                   | 3,5                                                                                   | 105x30                                                                                |                                                                                       |                                                                                       |
| 496 P | 490     | 125                                                                                   | 5,5                                                                                   | 115x34                                                                                |                                                                                       |                                                                                       |
|       | 490     | 80                                                                                    | 6,5                                                                                   | 126x40                                                                                |                                                                                       |                                                                                       |
|       | 493/494 | 100                                                                                   | PH 1-PZ 1                                                                             | 105x30                                                                                |                                                                                       |                                                                                       |
|       | 493/494 | 65                                                                                    | PH 2-PZ 2                                                                             | 115x34                                                                                |                                                                                       |                                                                                       |
|       | 350     |                                                                                       | 3                                                                                     | 75x15                                                                                 |                                                                                       |                                                                                       |

**Verkaufsständer mit 55 Schraubendrehern**

Display stand with 55 screwdrivers  
Présentoirs 55 tournevis  
Expositor con 55 destornilladores



| No. | Inhalt |  |  |  |  |  |
|-----|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 497 | 490    | 100                                                                                   | 3,5                                                                                   | 105x30                                                                                | 6.000                                                                                 | 1                                                                                     |
|     | 490    | 125                                                                                   | 5,5                                                                                   | 115x34                                                                                |                                                                                       |                                                                                       |
|     | 490    | 150                                                                                   | 6,5                                                                                   | 126x40                                                                                |                                                                                       |                                                                                       |
|     | 493    | 80                                                                                    | PH1                                                                                   | 105x30                                                                                |                                                                                       |                                                                                       |
|     | 493    | 100                                                                                   | PH 2                                                                                  | 115x34                                                                                |                                                                                       |                                                                                       |
|     | 494    | 80                                                                                    | PZ1                                                                                   | 105x30                                                                                |                                                                                       |                                                                                       |
|     | 494    | 100                                                                                   | PZ 2                                                                                  | 115x34                                                                                |                                                                                       |                                                                                       |
|     | 1920   | 1 x                                                                                   |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|     | 1921   | 1 x                                                                                   |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|     | 1922   | 7 x                                                                                   |                                                                                       |                                                                                       |                                                                                       |                                                                                       |

## Elektriker-Schraubendreher

Electricians screwdriver  
Tournevis pour électriciens  
Destornillador electricista



DIN 5265 / 5264  
Chrom Vanadium  
Molybdän Stahl



| No. |     |     |     |     |    |     |    |
|-----|-----|-----|-----|-----|----|-----|----|
| 40  | 75  | 2,5 | 2,5 | 0,4 | 70 | 34  | 10 |
|     | 100 | 3,5 | 3,5 | 0,6 | 80 | 48  | 10 |
|     | 125 | 4   | 4   | 0,8 | 90 | 70  | 10 |
|     | 150 | 4   | 4   | 0,8 | 90 | 78  | 10 |
|     | 175 | 5   | 5   | 0,8 | 90 | 81  | 10 |
|     | 200 | 5   | 5   | 0,8 | 90 | 84  | 10 |
|     | 300 | 5   | 5   | 0,8 | 90 | 100 | 10 |

## Werkstatt-Schraubendreher

Workshop-screwdriver  
Tournevis mécanicien  
Destornillador mecanico



DIN 5265 / 5264  
Chrom-Molybdän  
Stahl



| No. |     |     |    |     |     |     |    |
|-----|-----|-----|----|-----|-----|-----|----|
| 42  | 75  | 4   | 4  | 0,8 | 90  | 36  | 10 |
|     | 100 | 5   | 5  | 0,8 | 90  | 54  | 10 |
|     | 125 | 5,5 | 5  | 1   | 100 | 83  | 10 |
|     | 150 | 6,5 | 6  | 1,2 | 100 | 120 | 10 |
|     | 175 | 8   | 7  | 1,2 | 110 | 157 | 10 |
|     | 200 | 10  | 9  | 1,6 | 110 | 198 | 10 |
|     | 250 | 11  | 10 | 1,6 | 110 | 225 | 10 |

## Kreuzschlitz-Schraubendreher "Phillips"

Screwdriver for "Phillips"  
Tournevis pour vis façon "Phillips"  
Destornillador "Phillips"



DIN 5262  
Chrom Vanadium  
Molybdän Stahl



| No. |       | Für Schrauben | Ø   |     |     |    |  |
|-----|-------|---------------|-----|-----|-----|----|--|
| 43  | 0x60  | M1-M2         | 3,5 | 80  | 45  | 10 |  |
|     | 1x80  | M2-M3         | 5   | 90  | 55  | 10 |  |
|     | 1x450 | M2-M3         | 5   | 90  | 90  | 10 |  |
|     | 2x100 | M4-M5         | 6   | 100 | 82  | 10 |  |
|     | 2x300 | M4-M5         | 6   | 100 | 130 | 10 |  |
|     | 2x450 | M4-M5         | 6   | 110 | 160 | 10 |  |
|     | 3x150 | M6            | 8   | 110 | 190 | 10 |  |
|     | 4x200 | M8-M10        | 10  | 110 | 230 | 10 |  |

## Kreuzschlitz-Schraubendreher "Pozidrive"

Screwdriver for "Pozidrive"  
Tournevis pour vis façon "Pozidrive"  
Destornillador "Pozidrive"



DIN 5262  
Chrom Vanadium  
Molybdän Stahl



| No. |       | Für Schrauben | Ø   |     |     |    |  |
|-----|-------|---------------|-----|-----|-----|----|--|
| 44  | 0x60  | M1-M2         | 3,5 | 80  | 45  | 10 |  |
|     | 1x80  | M2-M3         | 5   | 90  | 55  | 10 |  |
|     | 1x250 | M2-M3         | 5   | 90  | 90  | 10 |  |
|     | 2x100 | M4-M5         | 6   | 100 | 82  | 10 |  |
|     | 2x250 | M4-M5         | 6   | 100 | 130 | 10 |  |
|     | 3x150 | M6            | 8   | 110 | 160 | 10 |  |
|     | 3x250 | M6            | 8   | 110 | 190 | 10 |  |
|     | 4x200 | M8-M10        | 10  | 110 | 230 | 10 |  |

## Werkstatt-Schraubendreher mit Sechskant

Workshop-screwdriver with hexagonal  
Tournevis avec hexagone  
Destornillador con hexagono  
para apriete con llave



DIN 5264 A  
Chrom Vanadium  
Stahl



| No. |     |     |     |     |     |     |    |
|-----|-----|-----|-----|-----|-----|-----|----|
| 45  | 100 | 5,5 | 5,5 | 1   | 100 | 74  | 10 |
|     | 125 | 6,5 | 7   | 1,2 | 100 | 118 | 10 |
|     | 150 | 8   | 8   | 1,2 | 110 | 145 | 10 |
|     | 175 | 10  | 9   | 1,6 | 110 | 213 | 10 |
|     | 200 | 12  | 10  | 2   | 110 | 240 | 10 |
|     | 250 | 14  | 10  | 2,5 | 110 | 280 | 10 |

## Kreuzschlitz-Schraubendreher "Phillips" mit Sechskant

Screwdriver for "Phillips" with hexagonal  
Tournevis avec hexagone "Phillips"  
Destornillador "Phillips" con hexagono  
para apriete con llave



DIN 5262  
Chrom Vanadium  
Molybdän Stahl



| No. |       | Für Schrauben | Ø   |     |     |    |  |
|-----|-------|---------------|-----|-----|-----|----|--|
| 46  | 1x80  | M2-M3         | 4,5 | 90  | 80  | 10 |  |
|     | 2x100 | M4-M5         | 6   | 100 | 108 | 10 |  |
|     | 3x150 | M6            | 8   | 110 | 140 | 10 |  |
|     | 4x200 | M8-M10        | 10  | 110 | 158 | 10 |  |

## Schraubendreher für Torx®-Schrauben

Screwdriver for Torx®-screws

Tournevis pour vis Torx®

Destornillador Torx®



Chrom Vanadium  
Molybdän Stahl



| No. |      |     |     |     |     |
|-----|------|-----|-----|-----|-----|
| 47  | T 6  | 70  | z3  | 80  | 30  |
|     | T 7  | 70  | 3   | 80  | 30  |
|     | T 8  | 70  | 3   | 80  | 30  |
|     | T 9  | 70  | 3   | 80  | 30  |
|     | T 10 | 80  | 3   | 90  | 42  |
|     | T 15 | 80  | 3,5 | 90  | 43  |
|     | T 20 | 90  | 4   | 90  | 48  |
|     | T 25 | 90  | 4,5 | 90  | 66  |
|     | T 27 | 110 | 5,5 | 100 | 110 |
|     | T 30 | 110 | 6   | 100 | 115 |
|     | T 40 | 120 | 7   | 110 | 130 |
|     | T 45 | 120 | 8   | 110 | 136 |
|     | T 50 | 120 | 9   | 110 | 162 |

## Kugelpopf-Schraubendreher für Innensechskant-Schrauben

Ball point screwdriver

Tournevis ball pointe

Destornillador punta bola



Chrom Vanadium  
Molybdän Stahl



| No. |     |     |     |     |
|-----|-----|-----|-----|-----|
| 48  | 1,5 | 75  | 70  | 30  |
|     | 2   | 100 | 80  | 40  |
|     | 2,5 | 100 | 80  | 42  |
|     | 3   | 100 | 80  | 45  |
|     | 4   | 100 | 90  | 50  |
|     | 5   | 100 | 90  | 60  |
|     | 6   | 125 | 100 | 100 |
|     | 8   | 150 | 100 | 150 |
|     | 10  | 150 | 110 | 240 |
|     | 12  | 150 | 110 | 370 |

## Vergaserschraubendreher DIN 5265

Carburettor screwdriver

Tournevis pour carburateurs

Destornillador carburador plano



Chrom Vanadium  
Stahl



| No. |    |   |     |   |
|-----|----|---|-----|---|
| 49  | 25 | 4 | 0,8 | 4 |
|     | 25 | 6 | 1   | 6 |

## Vergaserschraubendreher DIN 5265

Carburettor screwdriver

Tournevis pour carburateurs

Destornillador carburador plano



Chrom Vanadium  
Stahl



| No. |           |  |   |    |
|-----|-----------|--|---|----|
| 50  | PH 1 x 25 |  | 4 | 50 |
|     | PH 2 x 25 |  | 6 | 50 |





## Schraubendrehersätze in umweltfreundlicher Papp-Verpackung

Screwdriver Sets in ecological beneficial carton packing

Jeux de tournevis en emballage biodégradable

Juegos de Destornilladores envasados en cajas de cartón ecologico



5-tlg.

| No. | Inhalt Nr. |  |  |  |  |  |
|-----|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 60  | 40         | 100                                                                               | 3,5                                                                               | 80                                                                                | 450                                                                               | 1                                                                                 |
|     | 42         | 125                                                                               | 5,5                                                                               | 90                                                                                |                                                                                   |                                                                                   |
|     | 42         | 150                                                                               | 6,5                                                                               | 100                                                                               |                                                                                   |                                                                                   |
|     | 43         | PH 1x80                                                                           | 5                                                                                 | 90                                                                                |                                                                                   |                                                                                   |
|     | 43         | PH 2x100                                                                          | 6                                                                                 | 100                                                                               |                                                                                   |                                                                                   |



6-tlg.

| No.   | Inhalt Nr. |  |  |  |  |  |
|-------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 61    | 40         | 100                                                                                 | 3,5                                                                                 | 80                                                                                  | 505                                                                                 | 1                                                                                   |
|       | 42         | 125                                                                                 | 5,5                                                                                 | 100                                                                                 |                                                                                     |                                                                                     |
| 61 EX | 42         | 150                                                                                 | 6,5                                                                                 | 100                                                                                 |                                                                                     |                                                                                     |
|       | 43         | PH 1x80                                                                             | 5                                                                                   | 90                                                                                  |                                                                                     |                                                                                     |
|       | 43         | PH 2x100                                                                            | 6                                                                                   | 100                                                                                 |                                                                                     |                                                                                     |
|       | 350/361    | 65                                                                                  | 3                                                                                   |                                                                                     |                                                                                     |                                                                                     |



8-tlg.

| No.    | Inhalt Nr. |  |  |  |  |  |
|--------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 62     | 40         | 75                                                                                  | 2,5                                                                                 | 2,5                                                                                 | 600                                                                                 | 1                                                                                   |
| 62 P   | 40         | 100                                                                                 | 3,5                                                                                 | 3,5                                                                                 |                                                                                     |                                                                                     |
| 62 EX  | 42         | 125                                                                                 | 5,5                                                                                 | 5,5                                                                                 |                                                                                     |                                                                                     |
| 62 PEX | 42         | 150                                                                                 | 6,5                                                                                 | 6,5                                                                                 |                                                                                     |                                                                                     |
|        | 43/44      | PH 1/PZ 1                                                                           | 5                                                                                   | 5                                                                                   |                                                                                     |                                                                                     |
|        | 43/44      | PH 2/PZ 2                                                                           | 6                                                                                   | 6                                                                                   |                                                                                     |                                                                                     |
|        | 49         | 25                                                                                  | 6                                                                                   | 6                                                                                   |                                                                                     |                                                                                     |
|        | 350/361    | 65                                                                                  | 3                                                                                   | 3                                                                                   |                                                                                     |                                                                                     |



6-tlg.

| No. | Inhalt Nr. |  |  |  |  |  |
|-----|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 63  | 45         | 100                                                                                 | 5,5                                                                                 | 100                                                                                 | 800                                                                                 | 1                                                                                   |
|     | 45         | 125                                                                                 | 6,5                                                                                 | 100                                                                                 |                                                                                     |                                                                                     |
|     | 45         | 150                                                                                 | 8                                                                                   | 110                                                                                 |                                                                                     |                                                                                     |
|     | 45         | 175                                                                                 | 10                                                                                  | 110                                                                                 |                                                                                     |                                                                                     |
|     | 46         | PH 1x80                                                                             | 4,5                                                                                 | 90                                                                                  |                                                                                     |                                                                                     |
|     | 46         | PH 2x100                                                                            | 6                                                                                   | 100                                                                                 |                                                                                     |                                                                                     |

## Schraubendrehersätze für Torx®-Schrauben in umweltfreundlicher Papp-Verpackung

Screwdriver Sets for Torx®-screws in ecological beneficial carton packing / Jeux de tournevis pour vis Torx® en emballage biodégradable / Juegos de Destornilladores Torx® envasados en cajas de cartón ecologico



6-tlg.

| No. | Inhalt Nr. |  mm | Ø   |  |  |  |
|-----|------------|------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 67  | 47         | T 6                                                                                      | 3   | 80                                                                                    | 244                                                                                   | 1                                                                                     |
|     | 47         | T 7                                                                                      | 3   | 80                                                                                    |                                                                                       |                                                                                       |
|     | 47         | T 8                                                                                      | 3   | 80                                                                                    |                                                                                       |                                                                                       |
|     | 47         | T 9                                                                                      | 3   | 80                                                                                    |                                                                                       |                                                                                       |
|     | 47         | T 10                                                                                     | 3   | 90                                                                                    |                                                                                       |                                                                                       |
|     | 47         | T 15                                                                                     | 3,5 | 90                                                                                    |                                                                                       |                                                                                       |



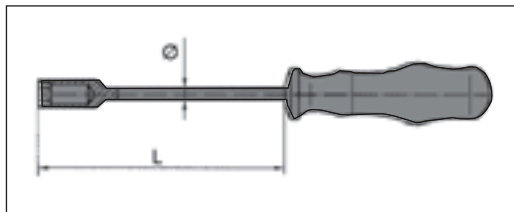
6-tlg.

| No. | Inhalt Nr. |  mm | Ø   |  |  |  |
|-----|------------|------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 68  | 47         | T 10                                                                                     | 3   | 90                                                                                    | 380                                                                                   | 1                                                                                     |
|     | 47         | T 15                                                                                     | 3,5 | 90                                                                                    |                                                                                       |                                                                                       |
|     | 47         | T 20                                                                                     | 4   | 90                                                                                    |                                                                                       |                                                                                       |
|     | 47         | T 25                                                                                     | 4,5 | 90                                                                                    |                                                                                       |                                                                                       |
|     | 47         | T 27                                                                                     | 5,5 | 100                                                                                   |                                                                                       |                                                                                       |
|     | 47         | T 30                                                                                     | 6   | 100                                                                                   |                                                                                       |                                                                                       |

### Steckschlüssel mit Griff und mit Aufhänge-Loch

Socket wrenches, handles with  
hang up hole / Clés à douilles, manche avec ouverture de pendre  
Destornillador punta vaso, con agujero para colgar

DIN 3125  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208 verchromt



| No. | Ø   | L   | Ø | g   | g   | g  |
|-----|-----|-----|---|-----|-----|----|
| 200 | 4   | 125 | 6 | 90  | 78  | 10 |
|     | 4,5 | 125 | 6 | 90  | 78  | 10 |
|     | 5   | 125 | 6 | 90  | 78  | 10 |
|     | 5,5 | 125 | 6 | 90  | 78  | 10 |
|     | 6   | 125 | 6 | 90  | 94  | 10 |
|     | 7   | 125 | 7 | 100 | 104 | 10 |
|     | 8   | 125 | 7 | 100 | 104 | 10 |
|     | 9   | 125 | 7 | 100 | 104 | 10 |
|     | 10  | 125 | 7 | 100 | 114 | 10 |
|     | 11  | 125 | 8 | 110 | 149 | 10 |
|     | 12  | 125 | 8 | 110 | 149 | 10 |
|     | 13  | 125 | 8 | 110 | 159 | 10 |
|     | 14  | 125 | 8 | 110 | 159 | 10 |
|     | 15  | 125 | 8 | 110 | 179 | 10 |
|     | 16  | 125 | 8 | 110 | 179 | 10 |
|     | 17  | 125 | 8 | 110 | 189 | 10 |

### Steckschlüssel AF mit Griff und mit Aufhänge-Loch

Socket wrenches AF, handles with hang up hole  
Clés à douilles AF, manche avec ouverture de pendre  
Destornillador punta vaso AF, con agujero para colgar

| No.    | AF   | L   | Ø | g   | g   | g  |
|--------|------|-----|---|-----|-----|----|
| 200 AF | 3/16 | 125 | 6 | 90  | 78  | 10 |
|        | 1/4  | 125 | 6 | 90  | 94  | 10 |
|        | 5/16 | 125 | 7 | 100 | 104 | 10 |
|        | 3/8  | 125 | 7 | 100 | 104 | 10 |
|        | 7/16 | 125 | 8 | 110 | 149 | 10 |
|        | 1/2  | 125 | 8 | 110 | 159 | 10 |
|        | 5/8  | 125 | 8 | 110 | 179 | 10 |

### Steckschlüsselsatz mit Griff und mit Aufhänge-Loch

Socketset wrenches, handles with hang up hole  
Clés à douilles, manche avec ouverture de pendre  
Destornillador punta vaso, con agujero para colgar



| No. | mm                  | g   | g |
|-----|---------------------|-----|---|
| 198 | 6, 7, 8, 10, 12, 13 | 835 |   |

| No.    | mm                             | g   | g |
|--------|--------------------------------|-----|---|
| 198 AF | 3/16, 1/4, 3/8, 7/16, 1/2, 5/8 | 835 |   |



### Steckschlüssel mit Griff

Socket wrenches, with handles

Clés à douilles, manche

Destornillador punta vaso

DIN 3125  
Chrom Vanadium Stahl 31 Cr V 3  
W. - No. 1.2208 verchromt



| No. | Ø   | L   | Ø |     |     |    |
|-----|-----|-----|---|-----|-----|----|
| 201 | 5,5 | 125 | 6 | 90  | 76  | 10 |
|     | 6   | 125 | 6 | 90  | 76  | 10 |
|     | 7   | 125 | 6 | 90  | 86  | 10 |
|     | 8   | 125 | 6 | 90  | 86  | 10 |
|     | 8   | 230 | 6 | 90  | 92  | 10 |
|     | 8   | 350 | 6 | 90  | 140 | 10 |
|     | 9   | 125 | 6 | 90  | 86  | 10 |
|     | 9   | 230 | 6 | 90  | 98  | 10 |
|     | 9   | 350 | 6 | 90  | 140 | 10 |
|     | 10  | 125 | 6 | 90  | 98  | 10 |
|     | 10  | 230 | 6 | 90  | 110 | 10 |
|     | 10  | 350 | 6 | 90  | 168 | 10 |
|     | 11  | 125 | 7 | 90  | 116 | 10 |
|     | 11  | 230 | 7 | 90  | 155 | 10 |
|     | 11  | 350 | 7 | 90  | 224 | 10 |
|     | 12  | 125 | 7 | 90  | 116 | 10 |
|     | 12  | 230 | 7 | 110 | 160 | 10 |
|     | 12  | 350 | 7 | 110 | 224 | 10 |
|     | 13  | 125 | 7 | 110 | 126 | 10 |
|     | 13  | 230 | 7 | 110 | 165 | 10 |
|     | 13  | 350 | 7 | 110 | 252 | 10 |
|     | 14  | 125 | 7 | 110 | 126 | 10 |
|     | 14  | 350 | 7 | 110 | 252 | 10 |
|     | 15  | 125 | 8 | 110 | 146 | 10 |
|     | 16  | 125 | 8 | 110 | 146 | 10 |
|     | 17  | 125 | 8 | 110 | 156 | 10 |

### Steckschlüssel mit Gelenk

Socket wrench with joint

Clés à douilles avec jointure

Destornillador con acople



| No. | Ø  | L   |  |     |     |   |
|-----|----|-----|--|-----|-----|---|
| 202 | 10 | 450 |  | 175 | 400 | 5 |
|     | 11 | 450 |  | 175 | 400 | 5 |
|     | 12 | 450 |  | 175 | 400 | 5 |
|     | 13 | 450 |  | 175 | 400 | 5 |
|     | 14 | 500 |  | 180 | 406 | 5 |
|     | 15 | 500 |  | 180 | 410 | 5 |
|     | 17 | 500 |  | 180 | 415 | 5 |
|     | 19 | 500 |  | 220 | 850 | 5 |
|     | 22 | 500 |  | 220 | 860 | 5 |

### Flexible Steckschlüssel

Flexible socket wrenches,

Clés à douilles, flexible

Destornillador punta vaso flexible



| No. | Ø | L   | Ø |     |     |    |
|-----|---|-----|---|-----|-----|----|
| 205 | 5 | 150 | 8 | 100 | 155 | 10 |
|     | 6 | 150 | 8 | 100 | 155 | 10 |
|     | 7 | 150 | 8 | 100 | 160 | 10 |
|     | 8 | 150 | 8 | 110 | 162 | 10 |

## Elektriker-Schraubendreher

Electricians screwdriver  
Tournevis pour électriciens  
Destornillador electricista



DIN 7437  
ChromVanadium  
Molybdän Stahl



| No. |     |     |     |     |     |    |
|-----|-----|-----|-----|-----|-----|----|
| 130 | 75  | 2,5 | 0,4 | 0,4 | 25  | 10 |
|     | 100 | 3,5 | 0,6 | 0,6 | 50  | 10 |
|     | 100 | 4   | 0,8 | 0,8 | 54  | 10 |
|     | 125 | 5,5 | 1   | 1   | 88  | 10 |
|     | 150 | 6,5 | 1,2 | 1,2 | 140 | 10 |
|     | 175 | 8   | 1,2 | 1,2 | 185 | 10 |
|     | 200 | 10  | 1,6 | 1,6 | 250 | 10 |

## Schraubendrehersätze in umweltfreundlicher Papp-Verpackung

Screwdriver Sets in ecological beneficial carton packing  
Jeux de tournevis en emballage biodégradable  
Juegos de Destornilladores envasados en cajas de cartón ecológico



6-tlg.

| No.   | Inhalt Nr. |     | Ø         |     |     |   |
|-------|------------|-----|-----------|-----|-----|---|
| 136   | 130        | 75  | 2,5       | 70  | 471 | 1 |
|       | 130        | 100 | 3,5       | 80  |     |   |
|       | 130        | 125 | 5,5       | 90  |     |   |
|       | 133/134    | 80  | PH 1-PZ 1 | 90  |     |   |
|       | 133/134    | 100 | PH 2-PZ 2 | 100 |     |   |
| 136 P | 350        | 65  | 3         | 75  |     |   |

## Kreuzschlitz-Schraubendreher "Phillips"

Electricians screwdriver "Phillips", Tournevis pour électriciens "Phillips", Destornillador electricista "Phillips"



DIN 7438  
ChromVanadium  
Molybdän Stahl



| No. |      |     | Ø   |     |     |    |
|-----|------|-----|-----|-----|-----|----|
| 133 | PH 0 | 60  | 3,5 | 80  | 45  | 10 |
|     | PH 1 | 80  | 5   | 90  | 65  | 10 |
|     | PH 2 | 100 | 6   | 100 | 95  | 10 |
|     | PH 3 | 150 | 8   | 110 | 165 | 10 |



7-tlg.

| No.   | Inhalt Nr. |     | Ø         |     |     |   |
|-------|------------|-----|-----------|-----|-----|---|
| 137   | 130        | 75  | 2,5       | 70  | 590 | 1 |
|       | 130        | 100 | 3,5       | 80  |     |   |
|       | 130        | 125 | 5,5       | 90  |     |   |
|       | 130        | 150 | 6,5       | 100 |     |   |
|       | 133/134    | 80  | PH 1-PZ 1 | 90  |     |   |
|       | 133/134    | 100 | PH 2-PZ 2 | 100 |     |   |
| 137 P | 350        | 65  | 3         | 75  |     |   |

## Kreuzschlitz-Schraubendreher "Pozidrive"

Electricians screwdriver "Pozidrive"  
Tournevis pour électriciens "Pozidrive"  
Destornillador electricista "Pozidrive"



DIN 7438  
ChromVanadium  
Molybdän Stahl



| No. |      |     | Ø   |     |     |    |
|-----|------|-----|-----|-----|-----|----|
| 134 | PZ 0 | 60  | 3,5 | 80  | 45  | 10 |
|     | PZ 1 | 80  | 5   | 90  | 65  | 10 |
|     | PZ 2 | 100 | 6   | 100 | 95  | 10 |
|     | PZ 3 | 150 | 8   | 110 | 165 | 10 |





## Elektronik Programm

Electronic range / Série électronique / Serie electronica

**Klinge Chrom Vanadium Stahl verchromt,  
mit schwarzer Spitze, Griffe ergonomisch geformt,  
schwarz gedeckt**

Blades of Chrom Vanadium Steel chrome-plated with black tip,  
Handles black / Lames d'acier Chrom Vanadium, chromée avec  
pointe noir, Manches noir matt / Hoja de acero cromo-vanadio,  
mango negro mate

### Elektronik-Schraubendreher

Electronic screwdriver

Tournevis electronic

Destornillador electronica



| No. |    |     | Ø   |    |    |    |
|-----|----|-----|-----|----|----|----|
| 140 | 40 | 1,2 | 2   | 82 | 14 | 10 |
|     | 40 | 1,5 | 2   | 82 | 14 | 10 |
|     | 40 | 1,8 | 2   | 82 | 14 | 10 |
|     | 40 | 2,0 | 2   | 82 | 15 | 10 |
|     | 40 | 2,4 | 2,4 | 82 | 16 | 10 |

### Elektronik-Schraubendreher "Phillips"

Electronic screwdriver "Phillips"

Tournevis electronic "Phillips"

Destornillador "Phillips" electronica



| No. |     |    | Ø   |    |    |    |
|-----|-----|----|-----|----|----|----|
| 141 | 000 | 40 | 2   | 82 | 14 | 10 |
|     | 00  | 40 | 2,4 | 82 | 16 | 10 |
|     | 0   | 75 | 3   | 82 | 19 | 10 |
|     | 01  | 75 | 4   | 82 | 24 | 10 |

### Elektronik-Schraubendreher "Pozidrive"

Electronic screwdriver "Pozidrive"

Tournevis electronic "Pozidrive"

Destornillador electronica "Pozidrive"



| No. |       |    | Ø   |    |    |    |
|-----|-------|----|-----|----|----|----|
| 142 | PZ 00 | 40 | 2,4 | 82 | 16 | 10 |
|     | PZ 0  | 75 | 3   | 82 | 19 | 10 |
|     | PZ 1  | 75 | 4   | 82 | 24 | 10 |

### Elektronik-Schraubendreher "Phillips"

Electronic screwdriver "Phillips"

Tournevis electronic "Phillips"

Destornillador "Phillips" electronica



| No. |       |    | Ø   |    |    |    |
|-----|-------|----|-----|----|----|----|
| 143 | TX 5  | 40 | 2   | 82 | 16 | 10 |
|     | TX 6  | 40 | 2   | 82 | 16 | 10 |
|     | TX 7  | 40 | 2,4 | 82 | 16 | 10 |
|     | TX 8  | 40 | 2,4 | 82 | 16 | 10 |
|     | TX 9  | 75 | 3   | 82 | 18 | 10 |
|     | TX 10 | 75 | 3   | 82 | 18 | 10 |

### Elektronik-Schraubendreher für Schrauben mit Innensechskant

Electronic screwdriver for hex screws

Tournevis electronic / Destornillador electronica



| No. |     |    | Ø |    |    |    |
|-----|-----|----|---|----|----|----|
| 144 | 1,5 | 40 | 2 | 82 | 14 | 10 |

### Elektronik-Steckschlüssel

Electronic socket wrenches / Clés à douilles electronic

Destornillador punta vaso electronico



| No. |     |    | Ø |    |    |    |
|-----|-----|----|---|----|----|----|
| 145 | 2,5 | 75 |   | 82 | 30 | 10 |
|     | 3   | 75 |   | 82 | 30 | 10 |
|     | 3,5 | 75 |   | 82 | 31 | 10 |

### Elektronik-Schraubendrehersätze

Electronic Screwdriver-Set / Jeux de tournevis electronique  
Juego destornilladores electronica



8-tlg.

| No. |  |  |  |  |
|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 147 | 2,0                                                                               | 75                                                                                |                                                                                   | 1                                                                                 |
|     | 2,4                                                                               | 75                                                                                |                                                                                   |                                                                                   |
|     | 3,0                                                                               | 75                                                                                |                                                                                   |                                                                                   |
|     | 3,5                                                                               | 75                                                                                |                                                                                   |                                                                                   |
|     | 4,0                                                                               | 75                                                                                |                                                                                   |                                                                                   |
|     | PH 00                                                                             |                                                                                   | 75                                                                                |                                                                                   |
|     | PH 0                                                                              |                                                                                   | 75                                                                                |                                                                                   |
|     | PH 1                                                                              |                                                                                   | 75                                                                                |                                                                                   |

### Elektronik-Schraubendrehersätze Torx®

Electronic Screwdriver Torx®-Set,  
Jeux de tournevis electronique Torx®  
Juego destornilladores electronica Torx®



8-tlg.

| No. |  |  |  |  |
|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|
| 149 | TX 5                                                                                | 40                                                                                  |  | 1                                                                                   |
|     | TX 6                                                                                | 40                                                                                  |  |                                                                                     |
|     | TX 7                                                                                | 40                                                                                  |  |                                                                                     |
|     | TX 8                                                                                | 40                                                                                  |  |                                                                                     |
|     | TX 9                                                                                | 40                                                                                  |  |                                                                                     |
|     | TX 10                                                                               | 40                                                                                  |  |                                                                                     |
|     | TX 15                                                                               | 40                                                                                  |  |                                                                                     |
|     | TX 20                                                                               | 40                                                                                  |  |                                                                                     |

### Elektronik-Steckschlüsselsätze

Electronic Screwdriver-Set / Jeux de tournevis  
electronique / Juego destornilladores electronica



6-tlg.

| No. |  |  |  |  |
|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|
| 148 | 3,2                                                                                 | 75                                                                                  |  | 1                                                                                   |
|     | 4,0                                                                                 | 75                                                                                  |  |                                                                                     |
|     | 5,0                                                                                 | 75                                                                                  |  |                                                                                     |
|     | 5,5                                                                                 | 75                                                                                  |  |                                                                                     |
|     | 1/8"                                                                                | 75                                                                                  |  |                                                                                     |
|     | 3/16"                                                                               | 75                                                                                  |  |                                                                                     |

### Elektronik-Schraubendrehersätze

Electronic Screwdriver-Set / Jeux de tournevis  
electronique / Juego destornilladores electronica



20-tlg.

| No. |                                                                                                   | Inhalt |  |  |
|-----|---------------------------------------------------------------------------------------------------|--------|--|---------------------------------------------------------------------------------------|
| 150 |  2,0-2,5       | 4      |  | 1                                                                                     |
|     |  3,0-4,0       |        |  |                                                                                       |
|     |  PH 0-00       | 2      |  |                                                                                       |
|     |  1,5-2,0-2,5   | 3      |  |                                                                                       |
|     |  TX 6-7-8-9-10 | 5      |  |                                                                                       |
|     |  PZ 0-00       | 2      |  |                                                                                       |
|     | SW 1,5-2,0-2,5                                                                                    | 3      |  |                                                                                       |
|     | Bithalter                                                                                         | 1      |  |                                                                                       |

## Werkstatt-Schraubendreher mit Sechskant und Lederkappe

Screwdriver with hexagonal spanner drive  
Tournevis avec hexagone / Destornillador  
con hexagono para apriete con llave



DIN 5264 A  
Chrom Vanadium  
Stahl



| No. |     |     | Ø   |        |     |    |
|-----|-----|-----|-----|--------|-----|----|
| 155 | 75  | 3,5 | 5   | 95x24  | 44  | 10 |
|     | 90  | 4,5 | 5   | 95x24  | 47  | 10 |
|     | 100 | 5,5 | 5   | 100x24 | 60  | 10 |
|     | 125 | 7   | 6,5 | 110x26 | 108 | 10 |
|     | 150 | 9   | 8   | 120x29 | 158 | 10 |
|     | 175 | 10  | 9   | 125x32 | 210 | 10 |
|     | 200 | 12  | 10  | 130x32 | 264 | 10 |
|     | 250 | 14  | 10  | 140x34 | 323 | 10 |

## Kreuzschlitz-Schraubendreher mit Sechskant und Lederkappe

Screwdriver with hexagonal spanner drive "Phillips"  
Tournevis avec hexagone "Phillips"  
Destornillador con hexagono para apriete  
con llave "Phillips"



DIN 5262  
Chrom Vanadium  
Stahl



| No. |       |      | Ø  |        |     |    |
|-----|-------|------|----|--------|-----|----|
| 156 | 1x80  | PH 1 | 5  | 95x24  | 45  | 10 |
|     | 2x100 | PH 2 | 6  | 110x26 | 65  | 10 |
|     | 3x150 | PH 3 | 8  | 120x29 | 158 | 10 |
|     | 4x200 | PH 4 | 10 | 130x32 | 264 | 10 |

## Schraubendrehersatz

Screwdriversets  
Jeu de tournevis  
Juego destornilladores, en bolsa



| No. | Inhalt Nr. |          | Ø   |        |     |   |
|-----|------------|----------|-----|--------|-----|---|
| 158 | 156        | PH 1x80  | 5   | 95x24  | 685 | 1 |
|     | 156        | PH 2x100 | 6   | 110x26 |     |   |
|     | 155        | 75x3,5   | 5   | 95x24  |     |   |
|     | 155        | 100x5,5  | 5   | 100x24 |     |   |
|     | 155        | 125x7    | 6,5 | 110x26 |     |   |
|     | 155        | 150x9    | 8   | 120x29 |     |   |

6-tlg.

## Betonbindedrähte-Drahtsackverschlüsse in Bunden a 5000 Stück

Concrete binder wire in bond of 5000 pcs.



| No. | Drahtstärke mm | Länge mm |   |
|-----|----------------|----------|---|
| 174 | ø 1,2          | 120      | 1 |
|     | ø 1,4          | 120      | 1 |

## Drillapparat:

Automatischer Rücklauf-Rechtsgang-Linksgang,  
verchromt, poliert, 3 Umdrehungen pro Zug.

Zum Verdrillen von Ösendraht an Eisenmatten im  
Stahlbetonbau sowie zum Verschließen von Säcken.

Sack-closer: Spiral ratchet-screwdrivers with automatic return  
for right and left, for professionals

Appareil à fermer de sac: Tournevis automatiques-pour tous  
travaux de série professionnel

Destornillador trinquete en espiral con retorno automatico a  
derecha e izquierda, para profesional



| No. | Länge mm |     |   |
|-----|----------|-----|---|
| 177 | 200      | 225 | 1 |
| 178 | 325      | 350 | 1 |

## Radio Schraubendreher, vernickelt

Radio screwdriver / Tournevis radio  
Destornillador radio



| No. |    |   | Ø |       |    |    |
|-----|----|---|---|-------|----|----|
| 179 | 40 | 2 | 2 | 40x7  | 3  | 20 |
| 180 | 40 | 3 | 3 | 60x12 | 8  | 20 |
|     | 60 | 3 | 3 | 60x12 | 9  | 20 |
|     | 80 | 3 | 3 | 60x12 | 10 | 20 |

## Radio Schraubendreher, vernickelt mit Clip

Radio screwdriver with clip / Tournevis radio avec clip  
Destornillador radio con clip



| No. |    |   | Ø |       |    |    |
|-----|----|---|---|-------|----|----|
| 181 | 40 | 3 | 3 | 60x12 | 8  | 20 |
|     | 60 | 3 | 3 | 60x12 | 9  | 20 |
|     | 80 | 3 | 3 | 60x12 | 10 | 20 |

**Verkaufsständer mit 60 Radio  
Schraubendrehern 40, 60, 80 mm**

Display stand with 60 radio screwdrivers 40, 60, 80 mm  
Présentoirs 60 tournevis radio 40, 60, 80 mm  
Expositor con 60 destornilladores radio 40, 60, 80 mm



| No. |          |   |   |       |     |   |
|-----|----------|---|---|-------|-----|---|
| 185 | 40-60-80 | 3 | 3 | 60x12 | 550 | 1 |

**Verkaufsständer mit 60 Radio  
Schraubendrehern mit Clip 40, 60, 80 mm**

Display stand with 60 radio screwdrivers with plastic clip 40, 60, 80 mm / Présentoirs 60 tournevis radio avec plastic clip 40, 60, 80 mm / Expositor con 60 destornilladores radio con plastic clip 40, 60, 80 mm



| No. |          |   |   |       |     |   |
|-----|----------|---|---|-------|-----|---|
| 186 | 40-60-80 | 3 | 3 | 60x12 | 620 | 1 |

**Verkaufsständer  
mit 60 Feinmechanikerschraubendreher**

Display stand with 60 radio-screwdriver  
Présentoirs 60 tournevis baby  
Expositor con 60 destornilladores radio pequenos



| No. |    |   |   |      |     |   |
|-----|----|---|---|------|-----|---|
| 187 | 40 | 2 | 2 | 40x7 | 184 | 1 |

**Nagelheber, vernickelt**

Nail-iron / Pied de biche / Sujeta puntas



| No. |     |           |   |     |    |    |
|-----|-----|-----------|---|-----|----|----|
| 210 | 100 | 1,3 - 1,4 | 7 | 100 | 89 | 10 |

**Vergaserschraubendreher, Werkzeugstahl,  
vernickelt mit leichtem Plastikheft**

Carburettor screwdrivers, with light plastic handle  
Tournevis pour carburateurs, manche plastique  
Destornillador carburador mango plastico



| No. |    |     |     |    |    |    |
|-----|----|-----|-----|----|----|----|
| 291 | 35 | 4,5 | 4,5 | 55 | 27 | 10 |
|     | 35 | 6   | 6   | 55 | 29 | 10 |



| No. |           |  |     |    |    |    |
|-----|-----------|--|-----|----|----|----|
| 293 | PH 1 x 35 |  | 4,5 | 55 | 30 | 10 |
|     | PH 2 x 35 |  | 6   | 55 | 35 | 10 |

**Vergaserschraubendreher,  
Werkzeugstahl,  
vernickelt mit leichtem Plastikheft**

Carburettor screwdrivers, with light plastic handle  
Tournevis pour carburateurs, manche plastique  
Destornillador carburador mango plastico



| No. |    |      |   |    |    |    |
|-----|----|------|---|----|----|----|
| 295 | 40 | PH 2 | 6 | 55 | 40 | 10 |

**Umsteckschraubendreher,  
Werkzeugstahl, vernickelt**

Screwdriver with reversible blade carbon steel  
Lame reversible W.S / Destornillador reversible W.S.



| No. |    |           |   |       |    |    |
|-----|----|-----------|---|-------|----|----|
| 296 | 60 | SB 6-PH 2 | 6 | 90x21 | 52 | 10 |
| 297 | 60 | PH1+2     | 6 | 90x21 | 52 | 10 |



### Vorstecher mit Holzheft (Rundspitze), vernickelt

Awl with wooden handle  
vAlène avec manche bois  
Punzon mango madera



| No. |     |  | Ø   |    |    |    |
|-----|-----|--|-----|----|----|----|
| 300 | 65  |  | 2,7 | 49 | 18 | 10 |
|     | 100 |  | 4   | 61 | 36 | 10 |

### Vorstecher mit leichtem Plastikheft (Rundspitze), vernickelt

Awl with light plastic handle  
Alène avec manche plastique  
Punzon mango plastico



| No. |     |  | Ø |    |    |    |
|-----|-----|--|---|----|----|----|
| 302 | 100 |  | 6 | 90 | 69 | 10 |

### Vorstecher mit Plastikheft (Rundspitze), vernickelt

Awl with plastic handle  
Alène avec manche plastique  
Punzon mango plastico



| No. |     |  | Ø |    |     |    |
|-----|-----|--|---|----|-----|----|
| 303 | 100 |  | 6 | 90 | 136 | 10 |

### Aufreiber mit leichtem Plastikheft (Vierkantspitze), vernickelt

Reamer with light plastic handle  
Alésoires avec manche plastique  
Punzon mango plastico



| No. |     |  | Ø |    |    |    |
|-----|-----|--|---|----|----|----|
| 304 | 100 |  | 6 | 90 | 69 | 10 |

### Aufreiber mit Plastikheft (Vierkantspitze), vernickelt

Reamer with plastic handle  
Alésoires avec manche plastique  
Punzon mango plastico



| No. |     |  | Ø |    |     |    |
|-----|-----|--|---|----|-----|----|
| 305 | 100 |  | 6 | 90 | 136 | 10 |

### Schneckenbohrer, Werkzeugstahl

Gimlets  
Vrilles  
Barrenas



Din 6445 Form A

| No. | Ø |  |    |    |
|-----|---|--|----|----|
| 308 | 2 |  | 9  | 10 |
|     | 3 |  | 12 | 10 |
|     | 4 |  | 20 | 10 |
|     | 5 |  | 28 | 10 |

### Winkelschraubendreher 0-90°, vernickelt

Angle screwdrivers  
Tournevis coudées  
Destornillador en angulo



DIN 5200



| No. | mm  |     | Ø |     |     |    |
|-----|-----|-----|---|-----|-----|----|
| 324 | 90  | 3,5 | 4 | 0,6 | 13  | 10 |
|     | 100 | 4,0 | 5 | 0,8 | 21  | 10 |
|     | 125 | 5,5 | 6 | 1,0 | 34  | 10 |
|     | 150 | 8,0 | 7 | 1,2 | 58  | 10 |
|     | 175 | 10  | 8 | 1,6 | 81  | 10 |
|     | 200 | 12  | 9 | 2,0 | 120 | 10 |

### Winkelschraubendreher 0-90°, vernickelt

Angle screwdrivers  
Tournevis coudées  
Destornillador en angulo



DIN 5208



| No. | mm  |        | Ø |  |    |    |
|-----|-----|--------|---|--|----|----|
| 325 | 100 | PH 1+2 | 6 |  | 26 | 10 |
|     | 150 | PH 3+4 | 8 |  | 72 | 10 |

**Spannungsprüfer**

Voltage tester  
Contrôleur de voltage  
Busca polos

150-250 Volt



nach 0680



| No. |  |  |  |  |  |  |
|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 350 | 65                                                                                | 3                                                                                 | 3                                                                                 | 75x15                                                                             | 23                                                                                | 10                                                                                |

**Spannungsprüfer**

Voltage tester  
Contrôleur de voltage  
Busca polos

150-250 Volt



nach 0680



| No. |  |  |  |  |  |  |
|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 351 | 100                                                                               | 3,5                                                                               | 3,5                                                                               | 90x18                                                                             | 30                                                                                | 10                                                                                |

**Spannungsprüfer mit Messingkappe**

Voltage tester with brass cap  
Contrôleur de voltage avec capuchon en laiton  
Busca polos con caperuza de latón

100-500 Volt



nach 0680



| No.   |  |  |  |  |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 352   | 60                                                                                  | 3                                                                                   | 3                                                                                   | 75x15                                                                               | 17                                                                                  | 10                                                                                  |
| 352 G | 60                                                                                  | 3                                                                                   | 3                                                                                   | 75x15                                                                               | 17                                                                                  | 10                                                                                  |

**Spannungsprüfer**

Voltage tester  
Contrôleur de voltage  
Busca polos

125-250 Volt



nach 0680



| No. |  |  |  |  |  |  |
|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 355 | 150                                                                                 | 3                                                                                   | 3                                                                                   | 90                                                                                  | 25                                                                                  | 10                                                                                  |
| 356 | 190                                                                                 | 3,5                                                                                 | 3,5                                                                                 | 90                                                                                  | 40                                                                                  | 10                                                                                  |

**Spannungsprüfer**

Voltage tester  
Contrôleur de voltage  
Busca polos

100-500 Volt



nach 0680



| No.   |  |  |  |  |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 361   | 60                                                                                  | 3                                                                                   | 3                                                                                   | 75x15                                                                               | 17                                                                                  | 10                                                                                  |
| 361 G | 60                                                                                  | 3                                                                                   | 3                                                                                   | 75x15                                                                               | 17                                                                                  | 10                                                                                  |

**Spannungsprüfer mit Messingkappe**

Voltage tester with brass cap  
Contrôleur de voltage avec capuchon en laiton  
Busca polos con caperuza de latón

100-500 Volt



nach 0680



| No.   |  |  |  |  |  |  |
|-------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 364   | 100                                                                                | 4                                                                                   | 4                                                                                   | 87x16                                                                               | 34                                                                                  | 10                                                                                  |
| 364 G | 100                                                                                | 4                                                                                   | 4                                                                                   | 87x16                                                                               | 34                                                                                  | 10                                                                                  |

**Spannungsprüfer**

Voltage tester  
Contrôleur de voltage  
Busca polos

100-500 Volt



nach 0680



| No.   |  |  |  |  |  |  |
|-------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 362   | 100                                                                                | 4                                                                                   | 4                                                                                   | 87x16                                                                               | 34                                                                                  | 10                                                                                  |
| 362 G | 100                                                                                | 4                                                                                   | 4                                                                                   | 87x16                                                                               | 34                                                                                  | 10                                                                                  |

**Zündkerzenprüfer**

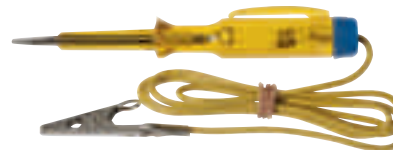
Spark plug tester  
Contrôleur bougies auto  
Busca polos de bujía



| No. |  |  |  |  |  |  |
|-----|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 371 | 45                                                                                   | 3                                                                                     | 3                                                                                     | 75                                                                                    | 17                                                                                    | 10                                                                                    |

**Autolichtprüfer, 6-24 Volt mit Kabel**

Car-reflector-tester 6-24 Volt, with cable  
Contrôleur de courant auto 6-24 Volt, avec câble  
Busca polos para coches 6-24 Volt con cable



| No. |  |  |  |  |  |  |
|-----|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 380 | 45                                                                                   | 3                                                                                     | 3                                                                                     | 68                                                                                    | 20                                                                                    | 10                                                                                    |

**Autolichtprüfer, mit Messinggehäuse 6-24 Volt mit Kabel in SB Tasche**

Car-reflector-tester 6-24 Volt, with cable in SB pouch  
Contrôleur de courant auto 6-24 Volt, avec câble en poche  
Busca polos para coches 6-24 Volt con cable, de latón en bolsa de plástico



| No. |  |  |  |  |  |  |
|-----|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 384 | 10                                                                                   | Spitze                                                                                |                                                                                       | 120                                                                                   | 75                                                                                    | 10                                                                                    |

## Für Schlitz Schrauben

For slotted screws

Pour vis fissure

Para tornillos de renura



DIN 3126  
C 6,3 ISO 1173  
Chrom Vanadium  
Molybdän Stahl

| No. | Größe mm/Inch | Länge mm | Ø |    |
|-----|---------------|----------|---|----|
| 600 | 0,5x3,0       | 25       |   | 10 |
|     | 0,6x3,5       | 25       |   | 10 |
|     | 0,5x4,0       | 25       |   | 10 |
|     | 0,8x4,0       | 25       |   | 10 |
|     | 1,0x5,0       | 25       |   | 10 |
|     | 1,2x6,5       | 25       |   | 10 |
|     | 1,2x8,0       | 25       |   | 10 |
|     | 1,6x8,0       | 25       |   | 10 |
|     | 1,2x8,0       | 36       |   | 10 |

## Für Kreuzschlitz Schrauben "Phillips"

For cross-blade screws "Phillips"

Pour vis cruziforme "Phillips"

Para tornillos en cruz "Phillips"



DIN 3126  
C 6,3 ISO 1173  
Chrom Vanadium  
Molybdän Stahl

| No. | Größe mm/Inch | Länge mm | Ø |    |
|-----|---------------|----------|---|----|
| 601 | PH 0          | 25       |   | 10 |
|     | PH 1          | 25       |   | 10 |
|     | PH 2          | 25       |   | 10 |
|     | PH 3          | 25       |   | 10 |
|     | PH 3          | 32       |   | 10 |
|     | PH 4          | 32       |   | 10 |
|     | PH 1          | 50       |   | 10 |
|     | PH 2          | 50       |   | 10 |
|     | PH 3          | 50       |   | 10 |

## Für Kreuzschlitz Schrauben "Pozidriv"

For cross-blade screws "Pozidriv"

Pour vis cruziforme "Pozidriv"

Para tornillos "Pozidriv"



DIN 3126  
C 6,3 ISO 1173  
Chrom Vanadium  
Molybdän Stahl

| No. | Größe mm/Inch | Länge mm | Ø |    |
|-----|---------------|----------|---|----|
| 602 | PZ 0          | 25       |   | 10 |
|     | PZ 1          | 25       |   | 10 |
|     | PZ 2          | 25       |   | 10 |
|     | PZ 3          | 25       |   | 10 |
|     | PZ 4          | 32       |   | 10 |
|     | PZ 1          | 50       |   | 10 |
|     | PZ 2          | 50       |   | 10 |

## Für Innensechskantschrauben

For inside-hex screws

Pour vis hexagonal-dedans

Para tornillos hexagonales

de toma interior



DIN 3126  
C 6,3 ISO 1173  
Chrom Vanadium  
Molybdän Stahl

| No.    | Größe mm   | Länge mm | Ø |    |
|--------|------------|----------|---|----|
| 603    | 1,5        | 25       |   | 10 |
|        | 2          | 25       |   | 10 |
|        | 2,5        | 25       |   | 10 |
|        | 3          | 25       |   | 10 |
|        | 4          | 25       |   | 10 |
|        | 5          | 25       |   | 10 |
|        | 6          | 25       |   | 10 |
|        | 7          | 25       |   | 10 |
|        | 8          | 25       |   | 10 |
|        | 10         | 25       |   | 10 |
|        | Größe Inch |          |   |    |
| 603 AF | 1/16"      | 25       |   | 10 |
|        | 5/64"      | 25       |   | 10 |
|        | 3/32"      | 25       |   | 10 |
|        | 7/64"      | 25       |   | 10 |
|        | 1/8"       | 25       |   | 10 |
|        | 9/64"      | 25       |   | 10 |
|        | 5/32"      | 25       |   | 10 |
|        | 3/16"      | 25       |   | 10 |
|        | 7/32"      | 25       |   | 10 |
|        | 1/4"       | 25       |   | 10 |
|        | 5/16"      | 25       |   | 10 |

## Für Torx® Schrauben

For Torx® screws

Pour vis Torx®

Para tornillos Torx®



DIN 3126  
C 6,3 ISO 1173  
Chrom Vanadium  
Molybdän Stahl

| No. | Größe mm/Inch | Länge mm | Ø |    |
|-----|---------------|----------|---|----|
| 604 | T 5           | 25       |   | 10 |
|     | T 6           | 25       |   | 10 |
|     | T 7           | 25       |   | 10 |
|     | T 8           | 25       |   | 10 |
|     | T 9           | 25       |   | 10 |
|     | T 10          | 25       |   | 10 |
|     | T 15          | 25       |   | 10 |
|     | T 20          | 25       |   | 10 |
|     | T 25          | 25       |   | 10 |
|     | T 27          | 25       |   | 10 |
|     | T 30          | 25       |   | 10 |
|     | T 40          | 25       |   | 10 |
|     | T 45          | 25       |   | 10 |
|     | T 50          | 25       |   | 10 |

## Für Torx® Schrauben mit Bohrung

For Torx® screws with bore hole

Pour vis Torx®

Para tornillos Torx®



DIN 3126  
C 6,3 ISO 1173  
Chrom Vanadium  
Molybdän Stahl

| No. | Größe mm/Inch | Länge mm | Ø |    |
|-----|---------------|----------|---|----|
| 605 | T 7           | 25       |   | 10 |
|     | T 8           | 25       |   | 10 |
|     | T 9           | 25       |   | 10 |
|     | T 10          | 25       |   | 10 |
|     | T 15          | 25       |   | 10 |
|     | T 20          | 25       |   | 10 |
|     | T 25          | 25       |   | 10 |
|     | T 27          | 25       |   | 10 |
|     | T 30          | 25       |   | 10 |
|     | T 40          | 25       |   | 10 |

## Für Schlitz Schrauben

For slotted screws

Pour vis fissure

Para tornillos de  
renura



DIN 3126  
E 6,3 ISO 1173  
Chrom Vanadium  
Molybdän Stahl

| No. | Größe mm/Inch | Länge mm | Ø   |    |
|-----|---------------|----------|-----|----|
| 606 | 0,5x3,0       | 50       | 3   | 10 |
|     | 0,5x3,0       | 70       | 3   | 10 |
|     | 0,5x4,0       | 50       | 4   | 10 |
|     | 0,6x3,5       | 50       | 3,5 | 10 |
|     | 0,6x3,5       | 70       | 3,5 | 10 |
|     | 0,6x3,5       | 152      | 3,5 | 10 |
|     | 0,6x4,5       | 50       | 4,5 | 10 |
|     | 0,6x4,5       | 89       | 4,5 | 10 |
|     | 0,8x4,0       | 50       | 4   | 10 |
|     | 0,8x4,0       | 70       | 4   | 10 |
|     | 0,8x4,0       | 89       | 4   | 10 |
|     | 0,8x4,0       | 152      | 4   | 10 |
|     | 0,8x5,5       | 50       | 5,5 | 10 |
|     | 1,0x5,5       | 50       | 5,5 | 10 |
|     | 1,0x5,5       | 70       | 5,5 | 10 |
|     | 1,0x5,5       | 89       | 5,5 | 10 |
|     | 1,0x5,5       | 152      | 5,5 | 10 |
|     | 1,0x6,0       | 50       | 6   | 10 |
|     | 1,2x6,5       | 50       | 6,5 | 10 |
|     | 1,2x6,5       | 70       | 6,5 | 10 |
|     | 1,2x6,5       | 89       | 6,5 | 10 |
|     | 1,2x6,5       | 152      | 6,5 | 10 |
|     | 1,2x8,0       | 50       | 8   | 10 |
|     | 1,2x8,0       | 89       | 8   | 10 |
|     | 1,6x8,0       | 50       | 8   | 10 |
|     | 1,6x8,0       | 89       | 8   | 10 |

## Für Kreuzschlitz Schrauben "Phillips" TORSONIC®

For cross-blade screws "Phillips", TORSONIC®

Pour vis cruciforme "Phillips", TORSONIC®

Para tornillos en cruz "Phillips", TORSONIC®



DIN 3126  
E 6,3 ISO 1173  
Chrom Vanadium  
Molybdän Stahl

| No. | Größe mm/Inch | Länge mm | Ø   |    |
|-----|---------------|----------|-----|----|
| 607 | PH 0          | 50       | 3   | 10 |
|     | PH 1          | 50       | 4,5 | 10 |
|     | PH 2          | 50       | 6   | 10 |
|     | PH 3          | 50       | 6   | 10 |

## Für Kreuzschlitz Schrauben "Phillips"

For cross-blade screws "Phillips"

Pour vis cruciforme "Phillips"

Para tornillos en cruz "Phillips"



DIN 3126  
E 6,3 ISO 1173  
Chrom Vanadium  
Molybdän Stahl

| No. | Größe mm/Inch | Länge mm | Ø   |    |
|-----|---------------|----------|-----|----|
| 608 | PH 0          | 70       | 4,5 | 10 |
|     | PH 0          | 90       | 6   | 10 |
|     | PH 0          | 152      | 6   | 10 |
|     | PH 1          | 50       | 4,5 | 10 |
|     | PH 1          | 65       | 4,5 | 10 |
|     | PH 1          | 70       | 4,5 | 10 |
|     | PH 1          | 89       | 4,5 | 10 |
|     | PH 1          | 152      | 4,5 | 10 |
|     | PH 2          | 50       | 6   | 10 |
|     | PH 2          | 65       | 6   | 10 |
|     | PH 2          | 70       | 6   | 10 |
|     | PH 2          | 89       | 6   | 10 |
|     | PH 2          | 152      | 6   | 10 |
|     | PH 3          | 50       | 6   | 10 |
|     | PH 3          | 70       | 6   | 10 |
|     | PH 3          | 89       | 6   | 10 |
|     | PH 3          | 152      | 6   | 10 |

## Handschaubendreher mit Magnet für 1/4" Bits mit schwarzem Kunststoffgriff

Magnetic screwdriver for 1/4" bits with black handle

Tournevis à main magnétique pour bits 1/4" avec manche plastique

Destornillador magnetico, mango, plastico para Bits, entrada de 1/4"



| No. |     |        |  |     |    |
|-----|-----|--------|--|-----|----|
| 616 | 30  | 95x30  |  | 86  | 10 |
| 617 | 130 | 105x33 |  | 142 | 10 |



## Für Kreuzschlitz Schrauben "Pozidrive"

For cross-blade screws "Pozidrive"

Pour vis cruziforme "Pozidriv"

Para tornillos "Pozidriv"



DIN 3126  
E 6,3 ISO 1173  
Chrom Vanadium  
Molybdän Stahl



| No. | Größe mm/Inch | Länge mm | Ø   |    |
|-----|---------------|----------|-----|----|
| 609 | PZ 1          | 70       | 4,5 | 10 |
|     | PZ 1          | 89       | 4,5 | 10 |
|     | PZ 1          | 110      | 4,5 | 10 |
|     | PZ 1          | 152      | 4,5 | 10 |
|     | PZ 2          | 70       | 6   | 10 |
|     | PZ 2          | 89       | 6   | 10 |
|     | PZ 2          | 110      | 6   | 10 |
|     | PZ 2          | 152      | 6   | 10 |
|     | PZ 3          | 70       | 6   | 10 |
|     | PZ 3          | 89       | 6   | 10 |
|     | PZ 3          | 110      | 6   | 10 |
|     | PZ 3          | 152      | 6   | 10 |

## Für Innensechskantschrauben

For inside-hex screws

Pour vis hexagonal-dedans

Para tornillos hexagonales

de toma interior



DIN 3126  
E 6,3 ISO 1173  
Chrom Vanadium  
Molybdän Stahl



| No.    | Größe mm | Länge mm | Ø |    |
|--------|----------|----------|---|----|
| 610    | 2        | 50       |   | 10 |
|        | 2,5      | 50       |   | 10 |
|        | 3        | 50       |   | 10 |
|        | 4        | 50       |   | 10 |
|        | 5        | 50       |   | 10 |
|        | 6        | 50       |   | 10 |
|        | 8        | 50       |   | 10 |
|        | Inch     |          |   |    |
| 610 AF | 5/64"    | 50       | 4 | 10 |
|        | 3/32"    | 50       | 4 | 10 |
|        | 7/64"    | 50       | 4 | 10 |
|        | 1/8"     | 50       | 4 | 10 |
|        | 9/64"    | 50       | 5 | 10 |
|        | 5/32"    | 50       | 5 | 10 |
|        | 3/16"    | 50       | 6 | 10 |
|        | 7/32"    | 50       |   | 10 |
|        | 1/4"     | 50       |   | 10 |

## Für Torx® Schrauben

For Torx® screws

Pour vis Torx®

Para tornillos Torx®



DIN 3126  
E 6,3 ISO 1173  
Chrom Vanadium  
Molybdän Stahl



| No. | Größe mm/Inch | Länge mm | Ø    |    |
|-----|---------------|----------|------|----|
| 611 | T 6           | 50       | 3,2  | 10 |
|     | T 6           | 70       | 3,2  | 10 |
|     | T 6           | 89       | 3,2  | 10 |
|     | T 6           | 152      | 3,2  | 10 |
|     | T 8           | 50       | 3,2  | 10 |
|     | T 7           | 50       | 3,2  | 10 |
|     | T 8           | 70       | 3,2  | 10 |
|     | T 7           | 70       | 3,2  | 10 |
|     | T 8           | 89       | 3,2  | 10 |
|     | T 8           | 152      | 3,2  | 10 |
|     | T 9           | 50       | 3,2  | 10 |
|     | T 9           | 70       | 3,2  | 10 |
|     | T 10          | 50       | 4    | 10 |
|     | T 10          | 70       | 4    | 10 |
|     | T 10          | 89       | 4    | 10 |
|     | T 10          | 152      | 4    | 10 |
|     | T 15          | 50       | 4    | 10 |
|     | T 15          | 70       | 4    | 10 |
|     | T 15          | 89       | 4    | 10 |
|     | T 15          | 152      | 4    | 10 |
|     | T 20          | 50       | 4,8  | 10 |
|     | T 20          | 70       | 4,8  | 10 |
|     | T 20          | 89       | 4,8  | 10 |
|     | T 20          | 152      | 4,8  | 10 |
|     | T 25          | 50       | 4,8  | 10 |
|     | T 25          | 70       | 4,8  | 10 |
|     | T 25          | 89       | 4,8  | 10 |
|     | T 25          | 152      | 4,8  | 10 |
|     | T 27          | 50       | 6    | 10 |
|     | T 27          | 70       | 6    | 10 |
|     | T 27          | 89       | 6    | 10 |
|     | T 27          | 152      | 6    | 10 |
|     | T 30          | 50       | 6    | 10 |
|     | T 30          | 70       | 6    | 10 |
|     | T 30          | 89       | 6    | 10 |
|     | T 30          | 152      | 6    | 10 |
|     | T 40          | 50       | 6,35 | 10 |
|     | T 40          | 70       | 6,35 | 10 |
|     | T 40          | 89       | 6,35 | 10 |
|     | T 40          | 152      | 6,35 | 10 |

## Für Torx® Schrauben mit Bohrung

For Torx® screws with bore hole

Pour vis Torx®

Para tornillos Torx®



DIN 3126  
E 6,3 ISO 1173  
Chrom Vanadium  
Molybdän Stahl



| No. | Größe mm/Inch | Länge mm | Ø    |    |
|-----|---------------|----------|------|----|
| 612 | T 8           | 70       | 3,2  | 10 |
|     | T 8           | 89       | 3,2  | 10 |
|     | T 9           | 89       | 3,2  | 10 |
|     | T10           | 50       | 4    | 10 |
|     | T 10          | 70       | 4    | 10 |
|     | T 10          | 89       | 4    | 10 |
|     | T15           | 50       | 4    | 10 |
|     | T 15          | 70       | 4    | 10 |
|     | T 15          | 89       | 4    | 10 |
|     | T20           | 50       | 4,8  | 10 |
|     | T 20          | 70       | 4,8  | 10 |
|     | T 20          | 89       | 4,8  | 10 |
|     | T25           | 50       | 4,8  | 10 |
|     | T 25          | 70       | 4,8  | 10 |
|     | T 25          | 89       | 4,8  | 10 |
|     | T27           | 50       | 6    | 10 |
|     | T 27          | 70       | 6    | 10 |
|     | T 27          | 89       | 6    | 10 |
|     | T30           | 50       | 6    | 10 |
|     | T 30          | 70       | 6    | 10 |
|     | T 30          | 89       | 6    | 10 |
|     | T40           | 50       | 6,35 | 10 |
|     | T 40          | 70       | 6,35 | 10 |
|     | T 40          | 89       | 6,35 | 10 |

## Für XZN® Schrauben

For XZN® screws

Pour vis XZN®

Para tornillos XZN®



DIN 3126  
C 6,3 ISO 1173  
Chrom Vanadium  
Molybdän Stahl



| No. | Größe mm/Inch | Länge mm | Ø |    |
|-----|---------------|----------|---|----|
| 613 | M 4           | 25       |   | 10 |
|     | M 5           | 25       |   | 10 |
|     | M 6           | 25       |   | 10 |
|     | M 8           | 25       |   | 10 |
|     | M 10          | 25       |   | 10 |

## Für Kreuzschlitz Schrauben "Phillips"

For cross-blade screws "Phillips"

Pour vis cruziforme "Phillips"

Para tornillos en cruz "Phillips"



DIN 3126  
C 6,3 ISO 1173  
Chrom Vanadium  
Molybdän Stahl



| No. | Größe mm/Inch | Länge mm | Ø |    |
|-----|---------------|----------|---|----|
| 661 | PH 1          | 25       |   | 10 |
|     | PH 2          | 25       |   | 10 |
|     | PH 3          | 25       |   | 10 |

## Für Kreuzschlitz Schrauben "Pozidrive"

For cross-blade screws "Pozidrive"

Pour vis cruziforme "Pozidriv"

Para tornillos "Pozidriv"



DIN 3126  
C 6,3 ISO 1173  
Chrom Vanadium  
Molybdän Stahl



| No. | Größe mm/Inch | Länge mm | Ø |    |
|-----|---------------|----------|---|----|
| 662 | PZ 1          | 25       |   | 10 |
|     | PZ 2          | 25       |   | 10 |
|     | PZ 3          | 25       |   | 10 |

## Für Torx® Schrauben

For Torx® screws, Pour vis Torx®, Para tornillos Torx®



DIN 3126  
C 6,3 ISO 1173  
Chrom Vanadium  
Molybdän Stahl



| No. | Größe mm/Inch | Länge mm | Ø |    |
|-----|---------------|----------|---|----|
| 664 | T 10          | 25       |   | 10 |
|     | T 15          | 25       |   | 10 |
|     | T 20          | 25       |   | 10 |
|     | T 25          | 25       |   | 10 |
|     | T 30          | 25       |   | 10 |
|     | T 40          | 25       |   | 10 |

## PH2 Bit mit Anschlag, zur Verschraubung von Gipskartonplatten

PH2 Bit Drywall, for Drywall applications



| No. | Größe mm/Inch | Länge mm | Ø |    |
|-----|---------------|----------|---|----|
| 621 | PH2           | 25       |   | 10 |

## Magnethalter

Magnetic bit holder

Support magnétique pour bits

Alargadera para Bits magnetica

DIN 3126 E 6,3 ISO 1173



| No. | Größe mm/Inch | Länge mm | Ø |   |
|-----|---------------|----------|---|---|
| 618 | 1/4"          | 50       |   | 5 |
| 619 | 1/4"          | 75       |   | 5 |
| 623 | 1/4"          | 100      |   | 5 |
| 624 | 1/4"          | 150      |   | 5 |

## Magnethalter SDS plus® magnetisch

Magnetic bit holder SDS plus®

Support magnétique pour bits

Alargadera para Bits magnetica

DIN 3126 E 6,3 ISO 1173



| No. | Größe mm/Inch | Länge mm | Ø |   |
|-----|---------------|----------|---|---|
| 614 | 1/4"          | 75       |   | 5 |

## Magnethalter

Magnetic bit holder

Support magnétique pour bits

Alargadera para Bits magnetica

DIN 3126 E 6,3 ISO 1173



| No. | Größe mm/Inch | Länge mm | Ø |   |
|-----|---------------|----------|---|---|
| 620 | 1/4"          | 50       |   | 5 |
|     | 1/4"          | 60       |   | 5 |
|     | 1/4"          | 75       |   | 5 |

## Magnethalter, mit Sprengring, Edelstahl

Magnetic bit holder magnetic, with C-ring

Support magnétique pour bits

Alargadera para Bits magnetica

DIN 3126 E 6,3 ISO 1173



| No. | Größe mm/Inch | Länge mm | Ø |   |
|-----|---------------|----------|---|---|
| 625 | 1/4"          | 50       |   | 5 |
|     | 1/4"          | 60       |   | 5 |
|     | 1/4"          | 75       |   | 5 |
|     | 1/4"          | 150      |   | 5 |

## Steckschlüssel-Bit-Adapter

Socket- Bit-Adaptor

Douille-Bit-Connection

Adaptador para vasos

DIN 3126 C 6,3 ISO 1173



|     |      |      | Länge |    |    |
|-----|------|------|-------|----|----|
| 622 | 6,35 | 6,35 | 25    | 15 | 10 |

## Magnethalter, mit Kugel

Magnetic bit holder magnetic, with ball

Support magnétique pour bits

Alargadera para Bits magnetica

DIN 3126 E 6,3 ISO 1173



|     |      |      | Länge |    |    |
|-----|------|------|-------|----|----|
| 630 | 6,35 | 6,35 | 25    | 8  | 10 |
| 631 | 6,35 | 6,35 | 50    | 18 | 10 |

## Magazin Schraubendreher incl. Bits 6-tlg.

Magazin Screwdriver with 6 Bits

Magazin Tournevis avec 6 bits

Magazin Destornillador 6 bits



| No. |     |     | Ø    | Inhalt                         |     |    |
|-----|-----|-----|------|--------------------------------|-----|----|
| 655 | 125 | 68  | 1/4" | 1x 600/0,8x5,5-1,2x6,5         | 86  | 10 |
| 656 | 150 | 110 | 1/4" | 1x 601/PH 1-2<br>1x 602/PZ 1-2 | 142 | 10 |

## Steckschlüssel, unmagnetisch, kurz

Nutsetter, Non magnetic, short style



DIN 3126 E 6,3 ISO 1173

| No.    | Größe mm/Inch | Länge mm | Ø  |   |
|--------|---------------|----------|----|---|
| 626    | 6             | 45       | 11 | 5 |
|        | 7             | 45       | 11 | 5 |
|        | 8             | 45       | 13 | 5 |
|        | 9             | 45       | 13 | 5 |
|        | 10            | 45       | 15 | 5 |
|        | 11            | 45       | 15 | 5 |
|        | 12            | 45       | 18 | 5 |
|        | 13            | 45       | 19 | 5 |
| 626 AF | 1/4"          | 45       | 11 | 5 |
|        | 5/16"         | 45       | 13 | 5 |
|        | 3/8"          | 45       | 15 | 5 |
|        | 7/16"         | 45       | 16 | 5 |

**Steckschlüssel, unmagnetisch, lang**  
Nutsetter, Non magnetic, short style



DIN 3126 E 6,3 ISO 1173



| No.    | Größe mm/Inch | Länge mm | Ø  |   |
|--------|---------------|----------|----|---|
| 627    | 6             | 65       | 11 | 5 |
|        | 7             | 65       | 11 | 5 |
|        | 8             | 65       | 13 | 5 |
|        | 9             | 65       | 13 | 5 |
|        | 10            | 65       | 15 | 5 |
|        | 11            | 65       | 16 | 5 |
|        | 12            | 65       | 18 | 5 |
| 627 AF | 1/4"          | 65       | 11 | 5 |
|        | 5/16"         | 65       | 13 | 5 |
|        | 3/8"          | 65       | 15 | 5 |

**Steckschlüssel, magnetisch, kurz**  
Nutsetter, magnetic, short style



DIN 3126 E 6,3 ISO 1173



| No.    | Größe mm/Inch | Länge mm | Ø  |   |
|--------|---------------|----------|----|---|
| 628    | 5,5           | 50       | 11 | 5 |
|        | 6             | 50       | 11 | 5 |
|        | 7             | 50       | 11 | 5 |
|        | 8             | 50       | 13 | 5 |
|        | 9             | 50       | 13 | 5 |
|        | 10            | 50       | 15 | 5 |
|        | 11            | 50       | 15 | 5 |
|        | 12            | 45       | 18 | 5 |
| 628 AF | 1/4"          | 45       | 11 | 5 |
|        | 5/16"         | 45       | 13 | 5 |
|        | 3/8"          | 45       | 15 | 5 |
|        | 7/16"         | 45       | 16 | 5 |

**Steckschlüssel, magnetisch, lang**  
Nutsetter, magnetic, short style



DIN 3126 E 6,3 ISO 1173



| No.    | Größe mm/Inch | Länge mm | Ø  |   |
|--------|---------------|----------|----|---|
| 629    | 6             | 65       | 11 | 5 |
|        | 7             | 65       | 11 | 5 |
|        | 8             | 65       | 13 | 5 |
|        | 10            | 65       | 15 | 5 |
|        | 11            | 65       | 15 | 5 |
|        | 12            | 65       | 18 | 5 |
|        | 13            | 65       | 19 | 5 |
|        | 17            | 65       | 24 | 5 |
| 629 AF | 1/4"          | 65       | 11 | 5 |
|        | 5/16"         | 65       | 13 | 5 |
|        | 3/8"          | 65       | 15 | 5 |

**Box, 7tlg.**  
**Bits S2,**  
**Magnetischer**  
**Universalhalter**  
Bits S2,  
Magnetic Bitholder



Chrom-Vanadium-Molybdän Stahl  
DIN 3126 C 6,3, ISO 1173

| No.    | Beschreibung                                              | Länge mm |    |
|--------|-----------------------------------------------------------|----------|----|
| 641    | BitBox x7                                                 | 75x55x17 | 10 |
| Inhalt | 1x 5,5; 6,5<br>1x PH1, 1x PH2<br>1x PZ1, 1x PZ2<br>1x 620 |          |    |
| 641 T  | BitBox 7tlg.                                              | 75x55x17 | 10 |
| Inhalt | 1x T10, T15, T20, T25, T30, T40<br>1x 620                 |          |    |
| 641 PZ | BitBox 7tlg.                                              | 75x55x17 | 10 |
| Inhalt | 2x PZ1, 3x PZ2, 1x PZ3<br>1x 620                          |          |    |

**Box, 10tlg.**  
**Bits S2, Magnetischer Schnellwechselhalter**  
Bits S2, Magnetic Quick Release Bitholder



Mit Display  
with Display

Chrom-Vanadium-Molybdän Stahl  
DIN 3126 C 6,3, ISO 1173

| No.   | Beschreibung                                                                   | Länge mm |    |
|-------|--------------------------------------------------------------------------------|----------|----|
| 645   | BitBox x10                                                                     | 95x55x20 | 12 |
|       | 1x 4,5; 5,5; 6,5<br>1x PH1, 1x PH2, 1x PH3<br>1x PZ1, 1x PZ2, 1x PZ3<br>1x 618 |          |    |
| 645 T | BitBox x10                                                                     | 95x55x20 | 12 |
|       | 1x T8, T9, T10, T15, T20, T25, T27, T30, T40<br>1x 618                         |          |    |





### SHOCKPROOF-Box, 32tlg.

**Bits S2, mit Farbring, Magnetischer Schnellwechselhalter, Handhalter mit Schnellwechselhalter**

Bits S2, with colored ring, Magnetic Quick Release Holder  
Screwdriver with Magnetic Quick Release Chuck

Mit Display  
with Display



Chrom-Vanadium-Molybdän Stahl  
DIN 3126 C 6,3, ISO 1173

| No.    | Beschreibung                                                                                                                                                                                                           | Länge mm   |   |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---|
| 644 F  | BitBox x32                                                                                                                                                                                                             | 160x105x45 | 6 |
| Inhalt | 1x SL 3, 4, 5, 6<br>1x PH1, 2x PH2, 1x PH3<br>1x PZ1, 2x PZ2, 1x PZ3<br>1x 3 mm, 4 mm, 5 mm, 6 mm<br>1x T10, T15, T20, T25, T27, T30, T40<br>1x TT10, TT15, TT20, TT25, TT27, TT30, TT40<br>1x Bit Handgriff<br>1x 618 |            |   |

### ABS-Box, 56tlg.

**Bits S2, mit Farbring Magnetischer Schnellwechselhalter**

Bits S2, with colored ring  
Magnetic Quick Release Holder



Chrom-Vanadium-Molybdän Stahl  
DIN 3126 C 6,3, ISO 1173

| No.    | Beschreibung                                                                                                                                                                                                                                                         | Länge mm   |    |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----|
| 649    | BitBox x56                                                                                                                                                                                                                                                           | 120x100x38 | 12 |
| Inhalt | 2x 3, 4, 5, 6<br>3x PH1, 3x PH2, 3x PH3<br>3x PZ1, 3x PZ2, 3x PZ3<br>1x 3 mm, 4 mm, 5 mm, 6 mm<br>2x T10, T15, T20, T25, T27, T30, T40<br>1x TT10, TT15, TT20, TT25, TT27, TT30, TT40<br>1x 618<br>1x PH1 x 75, 1x PH2 x 75<br>1x T20 x 75, 1x T25 x 75<br>1x 6 x 75 |            |    |

### SHOCKPROOF-Box, 32tlg.

**Bits S2, mit Farbring, Magnetischer Schnellwechselhalter, mit Auswurffunktion, Gürtelclip**

Bits S2, with colored ring, Magnetic Quick Release Holder, with  
Jump-out function, Belt Clip

Mit Display  
with Display



Chrom-Vanadium-Molybdän  
Stahl, DIN 3126 C 6,3, ISO 1173

| No.    | Beschreibung                                                                                                                                                                                                                 | Länge mm  |    |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----|
| 651    | BitBox x32                                                                                                                                                                                                                   | 110x70x35 | 12 |
| Inhalt | 1x SL 3, 4, 5, 6<br>1x PH1, 2x PH2, 1x PH3<br>1x PZ1, 2x PZ2, 1x PZ3<br>1x 3 mm, 4 mm, 5 mm, 6 mm<br>1x T10, T15, T20, T25, T27, T30, T40<br>1x TT10, TT15, TT20, TT25, TT27, TT30, TT40<br>1x Adaptor 1/4" x 1/4"<br>1x 618 |           |    |



### Allround Torsonic® mit Handhalter

Allround Torsonic®  
with Bitholding  
screwdriver

Mit Display  
with Display



Chrom-Vanadium-Molybdän Stahl  
DIN 3126 C 6,3, ISO 1173

| No.    | Beschreibung        |                  |                | Länge mm       |  |
|--------|---------------------|------------------|----------------|----------------|-----------------------------------------------------------------------------------|
| 615    | BitBox Allround x32 |                  |                | 145x101x45     | 1                                                                                 |
| Inhalt | je 1 Stk.           | 0,6 x 4,5 x 25   | 1,0 x 5,5 x 25 | 1,2 x 6,5 x 25 |                                                                                   |
|        |                     | SW 4,0/25        | SW 5,0/25      | SW 6,0/25      |                                                                                   |
|        |                     | TX 10/25         | TX 15/25       | TX 20/25       |                                                                                   |
|        |                     | TX 25/25         | TX 30/25       | TX 40/25       |                                                                                   |
|        |                     | 1x 618           |                |                |                                                                                   |
|        | je 3 Stk.           | PH 1/25          | PH 2/25        | PH 3/25        |                                                                                   |
|        |                     | PZ 1/25          | PZ 2/25        | PZ 3/25        |                                                                                   |
|        |                     | 1x Bit Handgriff |                |                |                                                                                   |
|        |                     |                  |                |                |                                                                                   |
|        |                     |                  |                |                |                                                                                   |

### HOLZ Torsonic® mit Handhalter

Wood Torsonic®  
with Bitholding  
screwdriver

Mit Display  
with Display



Chrom-Vanadium-Molybdän Stahl  
DIN 3126 C 6,3, ISO 1173

| No.    | Beschreibung    |                  |          | Länge mm   |  |
|--------|-----------------|------------------|----------|------------|-------------------------------------------------------------------------------------|
| 615 T  | BitBox HOLZ x32 |                  |          | 145x101x45 | 1                                                                                   |
| Inhalt | je 2 Stk.       | TX 10/25         | TX 15/25 | TX 20/25   |                                                                                     |
|        |                 | TX 30/25         |          |            |                                                                                     |
|        |                 | TX 40/25         | PH 2/25  |            |                                                                                     |
|        |                 | je 4 Stk.        | TX 25/25 |            |                                                                                     |
|        |                 | je 5 Stk..       | PZ 1/25  | PZ 2/25    |                                                                                     |
|        | je 5 Stk.       | PH 1/25          | PH 2/25  | PH 3/25    |                                                                                     |
|        |                 | je 1 Stk.        | TX 27/25 |            |                                                                                     |
|        |                 | 1x 618           |          |            |                                                                                     |
|        |                 | 1x Bit Handgriff |          |            |                                                                                     |
|        |                 |                  |          |            |                                                                                     |

### Box, 31tlg. Bits S2, Magnetischer Schnellwechselhalter

Bits S2, Magnetic Quick Release Bitholder

Mit Display  
with Display



Chrom-Vanadium-Molybdän Stahl  
DIN 3126 C 6,3, ISO 1173

| No.    | Beschreibung                    | Länge mm  |  |
|--------|---------------------------------|-----------|-------------------------------------------------------------------------------------|
| 659    | BitBox x32                      | 105x60x40 | 12                                                                                  |
| Inhalt | 1x 4,5, 5,5; 6,5                |           |                                                                                     |
|        | 2x PH1, 2x PH2, 1x PH3          |           |                                                                                     |
|        | 2x PZ1, 3x PZ2, 1x PZ3          |           |                                                                                     |
|        | 1x 3 mm, 4 mm, 5 mm, 6 mm       |           |                                                                                     |
|        | 2x T10, T15, T20, T25, T30, T40 |           |                                                                                     |
|        | 1x 618                          |           |                                                                                     |
|        |                                 |           |                                                                                     |

### Bit- Box, 32-tlg.

Bit-Box, 32 pcs., Bit-Box, 32 pcs.  
Bit Box, 32 pza.



| No.    | Beschreibung               |  |  |
|--------|----------------------------|--|---------------------------------------------------------------------------------------|
| 644    | BitBox x32                 |  | 1                                                                                     |
| Inhalt | 3x 600/4.5,5.5,6.5         |  |                                                                                       |
|        | 9x 601/PH1x2,2x5,3x2       |  |                                                                                       |
|        | 9x 602/PZ1x2,2x5,3x2       |  |                                                                                       |
|        | 6x 604/TH10,15,20,25,30,40 |  |                                                                                       |
|        | 3x 603/HX4.0,5.0,6.0       |  |                                                                                       |
|        | 1x 620                     |  |                                                                                       |
|        |                            |  |                                                                                       |

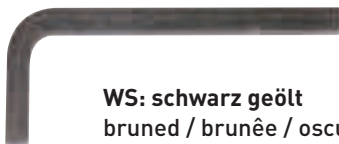
## Sechskant-Winkelschraubendreher

Hexagen key wrenches / Clés mâles 6 pans  
Llaves allen acodadas



**C.V.: vernickelt**  
nickel plated / nickele / niquelada

ISO 2936  
ChromVanadium  
Molybdän Stahl  
59 Cr Mo V 4



**WS: schwarz geölt**  
bruned / brunée / oscuras

ISO 2936  
Werkzeugstahl

| No.                          | mm         |           |      |    |
|------------------------------|------------|-----------|------|----|
| <b>702 C.V.<br/>700 W.S.</b> | <b>1,5</b> | 46,5x15,5 | 1    | 10 |
|                              | <b>2</b>   | 52x18     | 2    | 10 |
|                              | <b>2,5</b> | 58,5x20,5 | 3,5  | 10 |
|                              | <b>3</b>   | 66x23     | 5    | 10 |
|                              | <b>3,5</b> | 69,5x25,5 | 8    | 10 |
|                              | <b>4</b>   | 74x29     | 10   | 10 |
|                              | <b>4,5</b> | 80x30,5   | 15   | 10 |
|                              | <b>5</b>   | 85x33     | 18   | 10 |
|                              | <b>6</b>   | 96x38     | 30   | 10 |
|                              | <b>7</b>   | 102x41    | 43   | 10 |
|                              | <b>8</b>   | 108x44    | 59   | 10 |
|                              | <b>9</b>   | 114x47    | 79   | 10 |
|                              | <b>10</b>  | 122x50    | 103  | 10 |
|                              | <b>11</b>  | 129x53    | 131  | 10 |
|                              | <b>12</b>  | 137x57    | 160  | 10 |
|                              | <b>13</b>  | 145x63    | 215  | 10 |
|                              | <b>14</b>  | 154x70    | 260  | 10 |
|                              | <b>15</b>  | 161x73    | 290  | 10 |
|                              | <b>16</b>  | 161x73    | 290  | 10 |
|                              | <b>17</b>  | 177x80    | 430  | 5  |
|                              | <b>19</b>  | 199x89    | 620  | 5  |
|                              | <b>22</b>  | 222x102   | 950  | 5  |
|                              | <b>24</b>  | 248x114   | 1250 | 1  |
|                              | <b>27</b>  | 277x127   | 1740 | 1  |
|                              | <b>30</b>  | 315x142   | 2460 | 1  |
|                              | <b>32</b>  | 347x157   | 3080 | 1  |

## Sechskant-Winkelschraubendreher AF

Hexagen key wrenches AF / Clés mâles 6 pans AF  
Llaves allen acodadas AF



**C.V.: vernickelt**  
nickel plated / nickele / niquelada

ISO 2936 L  
ChromVanadium  
Molybdän Stahl  
59 Cr Mo V 4

| No.                      | AF           |         |      |    |
|--------------------------|--------------|---------|------|----|
| <b>703 C.V.<br/>A.F.</b> | <b>1/16</b>  | 47x16   | 1    | 10 |
|                          | <b>5/64</b>  | 52x18   | 2    | 10 |
|                          | <b>3/32</b>  | 58x20   | 4    | 10 |
|                          | <b>1/8</b>   | 66x23   | 5    | 10 |
|                          | <b>9/64</b>  | 72x26   | 8    | 10 |
|                          | <b>5/32</b>  | 74x29   | 10   | 10 |
|                          | <b>3/16</b>  | 85x33   | 18   | 10 |
|                          | <b>7/32</b>  | 91x36   | 24   | 10 |
|                          | <b>1/4</b>   | 96x38   | 30   | 10 |
|                          | <b>9/32</b>  | 102x42  | 43   | 10 |
|                          | <b>5/16</b>  | 108x44  | 59   | 10 |
|                          | <b>11/32</b> | 114x47  | 79   | 10 |
|                          | <b>3/8</b>   | 122x50  | 103  | 10 |
|                          | <b>7/16</b>  | 130x53  | 131  | 10 |
|                          | <b>1/2</b>   | 145x63  | 215  | 10 |
|                          | <b>9/16</b>  | 154x69  | 260  | 5  |
|                          | <b>5/8</b>   | 176x76  | 400  | 5  |
|                          | <b>3/4</b>   | 199x89  | 620  | 5  |
|                          | <b>7/8</b>   | 222x102 | 950  | 5  |
|                          | <b>1"</b>    | 275x125 | 1740 | 5  |

## Sechskant-Winkelschraubendreher lange Ausführung

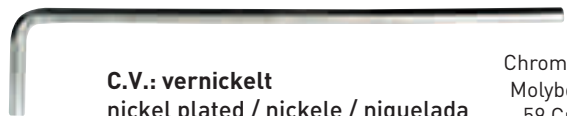
Hexagen key wrenches extra long / Clés mâles 6 pans,  
super longueur / Llaves allen acodadas, extra larga



| No.             | mm         |            |      |    |
|-----------------|------------|------------|------|----|
| <b>704 C.V.</b> | <b>1,5</b> | 91,5x15,5  | 2    | 10 |
|                 | <b>2</b>   | 102x18     | 4    | 10 |
|                 | <b>2,5</b> | 114,5x20,5 | 6    | 10 |
|                 | <b>3</b>   | 129x23     | 9    | 10 |
|                 | <b>3,5</b> | 129x23     | 12   | 10 |
|                 | <b>4</b>   | 144x29     | 17   | 10 |
|                 | <b>4,5</b> | 144x29     | 19   | 10 |
|                 | <b>5</b>   | 165x33     | 33   | 10 |
|                 | <b>5,5</b> | 165x33     | 40   | 10 |
|                 | <b>6</b>   | 186x38     | 54   | 10 |
|                 | <b>7</b>   | 197x41     | 80   | 10 |
|                 | <b>8</b>   | 208x44     | 105  | 10 |
|                 | <b>10</b>  | 234x50     | 185  | 10 |
|                 | <b>12</b>  | 262x57     | 295  | 10 |
|                 | <b>14</b>  | 294x70     | 460  | 5  |
|                 | <b>17</b>  | 337x80     | 750  | 5  |
|                 | <b>19</b>  | 379x89     | 1100 | 5  |

### Sechskant-Winkelschraubendreher lange Ausführung

Hexagen key wrenches extra long / Clés mâles 6 pans,  
super longueur / Llaves allen acodadas, extra larga



C.V.: vernickelt  
nickel plated / nickele / niquelada

ChromVanadium  
Molybdän Stahl  
59 Cr Mo V 4

| No.              | mm    |        |      |    |
|------------------|-------|--------|------|----|
| 705 C.V.<br>A.F. | 1/16  | 92x16  | 2    | 10 |
|                  | 5/64  | 52x18  | 4    | 10 |
|                  | 3/32  | 114x20 | 6    | 10 |
|                  | 1/8   | 129x23 | 9    | 10 |
|                  | 9/64  | 140x26 | 13   | 10 |
|                  | 5/32  | 144x29 | 19   | 10 |
|                  | 3/16  | 165x33 | 32   | 10 |
|                  | 7/32  | 176x36 | 42   | 10 |
|                  | 1/4   | 186x38 | 56   | 10 |
|                  | 9/32  | 207x42 | 80   | 10 |
|                  | 5/16  | 208x44 | 105  | 10 |
|                  | 11/32 | 233x47 | 146  | 10 |
|                  | 3/8   | 234x50 | 183  | 10 |
|                  | 7/16  | 261x53 | 247  | 10 |
|                  | 1/2   | 293x63 | 360  | 10 |
|                  | 9/16  | 294x69 | 470  | 10 |
|                  | 5/8   | 336x76 | 665  | 5  |
|                  | 3/4   | 379x89 | 1100 | 5  |

### Am Ring, in SB Tasche

Hexagen key wrenches on a ring, in wallet  
Clés mâles 6 pans, enclavier, en pochette  
Juego llaves allen hexagonales con anilla



| No.    | Inhalt                                            |     |    |
|--------|---------------------------------------------------|-----|----|
| 706 WS | 1,5-2-2,5-3-4-5-6                                 | 106 | 10 |
| 707 CV | 1,5-2-2,5-3-4-5-6                                 | 106 | 10 |
| 708 WS | 1/16"-5/64"-3/32"-1/8"-5/32"-3/16"-<br>7/32"-1/4" | 125 | 10 |
|        |                                                   |     |    |
| 713 WS | 2-2,5-3-4-5-6-8-10                                | 270 | 10 |
| 714 CV | 2-2,5-3-4-5-6-8-10                                | 270 | 10 |

### In Kunststofftasche

Hexagen key wrenches, in wallet  
Clés mâles 6 pans, en pochette  
Juego llaves allen hexagonales en bolsa de plastico



| No.    | Inhalt                                                       |     |    |
|--------|--------------------------------------------------------------|-----|----|
| 716 WS | 1,5-2-2,5-3-4-5-6                                            | 86  | 10 |
| 718 WS | 1/16"-5/64"-3/32"-1/8"-5/32"-3/16"-<br>7/32"-1/4"            | 125 | 10 |
|        |                                                              |     |    |
| 722 WS | 2-2,5-3-4-5-6-8-10                                           | 250 | 10 |
| 723 CV | 2-2,5-3-4-5-6-8-10                                           | 250 | 10 |
| 725 WS | 1/16"-5/64"-3/32"-1/8"-5/32"-3/16"-<br>7/32"-1/4"-5/16"-3/8" | 291 | 10 |
|        |                                                              |     |    |

### Im Kunststoffhalter

In plastic holder / En support plastique  
En petaca de plastico



| No.    | Inhalt                 |     |    |
|--------|------------------------|-----|----|
| 726 WS | 1,5-2-2,5-3-4-5-6-8-10 | 251 | 10 |
| 727 CV | 1,5-2-2,5-3-4-5-6-8-10 | 251 | 10 |



### In Kunststoffschiebekassette

Hexagonal angle spanners in plastic box  
Clés mâles en box plastique  
Juego llaves allen en caja de plastico



729 CV



729 AF

| No.    | Inhalt                                       |     |   |
|--------|----------------------------------------------|-----|---|
| 729 CV | 2-2,5-3-4-5-6-8-10                           | 290 | 5 |
| 729 AF | 5/64"-3/32"-1/8"-5/32"-3/16"-1/4"-5/16"-3/8" | 290 | 5 |

### In Kunststoffschiebekassette

Hexagonal angle spanners in plastic box  
Clés mâles en box plastique  
Juego llaves allen en caja de plastico



| No.    | Inhalt                                       |     |   |
|--------|----------------------------------------------|-----|---|
| 730 WS | 2-2,5-3-4-5-6-8-10                           | 290 | 5 |
| 730 CV | 2-2,5-3-4-5-6-8-10                           | 290 | 5 |
| 731 WS | 5/64"-3/32"-1/8"-5/32"-3/16"-1/4"-5/16"-3/8" | 285 | 5 |
| 731 CV | 5/64"-3/32"-1/8"-5/32"-3/16"-1/4"-5/16"-3/8" | 285 | 5 |

### Im Kunststoffhalter, lang

In plastic holder, long / En support plastique  
En petaca de plastico



| No.    | Inhalt                 |     |    |
|--------|------------------------|-----|----|
| 728 CV | 1,5-2-2,5-3-4-5-6-8-10 | 430 | 10 |

### In Kunststoffschiebekassette

Hexagonal angle spanners in plastic box  
Clés mâles en box plastique  
Juego llaves allen en caja de plastico



| No.    | Inhalt                                       |     |   |
|--------|----------------------------------------------|-----|---|
| 732 CV | 2-2,5-3-4-5-6-8-10                           | 510 | 5 |
| 733 CV | 5/64"-3/32"-1/8"-5/32"-3/16"-1/4"-5/16"-3/8" | 510 | 5 |

### In Kunststofftasche

Hexagen key wrenches, in wallet  
Clés mâles pans, en pochette  
Juego llaves allen hexagonales en bolsa de plastico



| No.    | Inhalt                                       |     |    |
|--------|----------------------------------------------|-----|----|
| 734 CV | 2-2,5-3-4-5-6-8-10                           | 350 | 10 |
| 734 AF | 5/64"-3/32"-1/8"-5/32"-3/16"-1/4"-5/16"-3/8" | 430 | 10 |

### In SB-Tasche

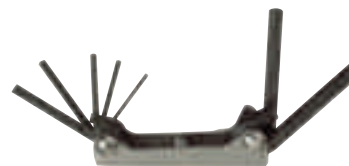
In wallet / En pochette / Bolsa de plastico



| No.      | Inhalt                                       |     |    |
|----------|----------------------------------------------|-----|----|
| 734 CV T | 2-2,5-3-4-5-6-8-10                           | 350 | 10 |
| 734 AF T | 5/64"-3/32"-1/8"-5/32"-3/16"-1/4"-5/16"-3/8" | 430 | 10 |

### In Metallhandklapphalter

Hexagon key wrenches in folding set  
Clés mâles en porteur á main  
Juego llaves allen en navaja de metall



| No.    | Inhalt                                   |     |   |
|--------|------------------------------------------|-----|---|
| 735 CV | 1,5-2-2,5-3-4-5-6                        | 150 | 5 |
| 736 CV | 2,5-3-4-5-6-8                            | 220 | 5 |
| 738 CV | 1/16"-5/64"-3/32"-1/8"-5/32"-3/16"-7/32" | 150 | 5 |
| 739 CV | 3/32"-1/8"-3/16"-7/32"-1/4"-5/16"-3/8"   | 370 | 5 |

### Sechskantschraubendreher mit Quergriff

Hexagonal angle spanners with T-handle,  
Clés mâles 6 pans avec T-manche  
Llave allen hexagonal con mango T



ChromVanadium  
Molybdän Stahl  
59 Cr Mo V 4



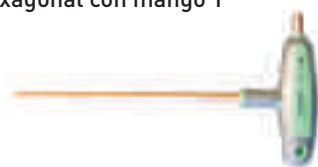
| No.      | mm  | Länge |     |     |    |  |
|----------|-----|-------|-----|-----|----|--|
| 742 C.V. | 2,5 | 100   | 70  | 24  | 10 |  |
|          | 3   | 100   | 70  | 24  | 10 |  |
|          | 3   | 150   | 70  | 30  | 10 |  |
|          | 3   | 200   | 70  | 32  | 10 |  |
|          | 4   | 100   | 70  | 40  | 10 |  |
|          | 4   | 150   | 70  | 47  | 10 |  |
|          | 4   | 200   | 70  | 53  | 10 |  |
|          | 5   | 100   | 90  | 51  | 10 |  |
|          | 5   | 150   | 90  | 60  | 10 |  |
|          | 5   | 200   | 90  | 68  | 10 |  |
|          | 6   | 100   | 90  | 58  | 10 |  |
|          | 6   | 150   | 90  | 77  | 10 |  |
|          | 6   | 200   | 90  | 84  | 10 |  |
|          | 8   | 100   | 90  | 85  | 10 |  |
|          | 8   | 150   | 90  | 105 | 10 |  |
|          | 8   | 200   | 90  | 125 | 10 |  |
|          | 10  | 200   | 110 | 223 | 10 |  |

### Sechskantschraubendreher mit Quergriff

Hexagonal angle spanners with T-handle,  
Clés mâles 6 pans avec T-manche  
Llave allen hexagonal con mango T



ChromVanadium  
Molybdän Stahl  
59 Cr Mo V 4



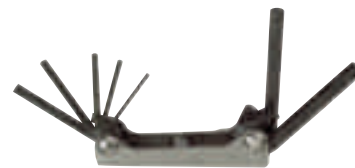
| No. | mm  | Länge |     |     |    |  |
|-----|-----|-------|-----|-----|----|--|
| 741 | 2   | 100   | 90  | 40  | 10 |  |
|     | 2,5 | 100   | 90  | 40  | 10 |  |
|     | 3   | 100   | 90  | 45  | 10 |  |
|     | 4   | 100   | 90  | 54  | 10 |  |
|     | 5   | 150   | 90  | 66  | 10 |  |
|     | 6   | 150   | 115 | 113 | 10 |  |
|     | 8   | 200   | 115 | 138 | 10 |  |
|     | 10  | 200   | 115 | 240 | 10 |  |

### In Kunststoffhalter

Hexagon key wrenches in folding set / Clés mâles  
en porteur à main / Juego llaves allen en navaja



740 CV



737 CV

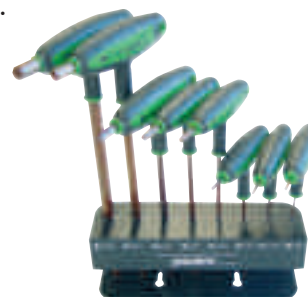
| No.    | Inhalt           |     |   |
|--------|------------------|-----|---|
| 737 CV | 2,5-3-4-5-6-8-10 | 350 | 5 |
| 740 CV | 2,5-3-4-5-6-8-10 | 280 | 5 |

### Sechskantschraubendreher mit Quergriff in Ständer, 9-tlg.

Hexagonal angle spanners with T-handle,  
in holder, 9 pcs. / Clés mâles 6 pans  
avec T-manche, en support, 9 pcs.  
Llave allen hexagonal con mango T,  
en petaca, 9 pza.



ChromVanadium  
Molybdän Stahl  
59 Cr Mo V 4



| No.    | Inhalt             |      |   |
|--------|--------------------|------|---|
| 741 HS | 2-2,5-3-4-5-6-8-10 | 1150 | 1 |

### Sechskantschraubendreher mit Zapfen

Hexagon key wrenches with around lug  
Clés mâles 6 pans avec tourillon de guidage  
Llave allen hexagonal con guía



| No.      | mm |         |      |    |
|----------|----|---------|------|----|
| 743 C.V. | 3  | 66x23   | 5    | 10 |
|          | 4  | 74x29   | 10   | 10 |
|          | 5  | 85x33   | 18   | 10 |
|          | 6  | 96x38   | 30   | 10 |
|          | 8  | 108x44  | 59   | 10 |
|          | 10 | 122x50  | 103  | 10 |
|          | 12 | 137x57  | 160  | 10 |
|          | 14 | 154x70  | 260  | 5  |
|          | 17 | 177x80  | 430  | 5  |
|          | 19 | 199x89  | 617  | 5  |
|          | 22 | 222x102 | 920  | 5  |
|          | 24 | 248x114 | 1238 | 5  |
|          | 27 | 277x127 | 1740 | 5  |
|          | 32 | 347x157 | 3080 | 5  |

### Winkelschraubendreher für Schrauben mit Innenvielzahn

Hollowscrew spanners for XZN-screws

Clés pour vis XZN creuses à XZN

Llave acodada para tornillos XZN



| No. |      |        |     |    |
|-----|------|--------|-----|----|
| 745 | M 5  | 75x30  | 15  | 10 |
|     | M 6  | 86x34  | 23  | 10 |
|     | M 8  | 98x40  | 40  | 10 |
|     | M 10 | 110x46 | 90  | 10 |
|     | M 12 | 124x52 | 130 | 10 |
|     | M 14 | 139x59 | 200 | 5  |
|     | M 16 | 156x72 | 310 | 5  |
|     | M 18 | 178x81 | 350 | 5  |

### Torx®-Schraubendreher mit Quergriff

Screwdriver for Torx® screws with T-handle

Tournevis pour vis Torx® avec T-manche

Llave para tornillo Torx®, con mango en forma de T



| No.      |    | Länge |     |     |    |
|----------|----|-------|-----|-----|----|
| 761 C.V. | 9  | 100   | 70  | 35  | 10 |
|          | 10 | 100   | 70  | 35  | 10 |
|          | 15 | 100   | 70  | 35  | 10 |
|          | 20 | 100   | 90  | 50  | 10 |
|          | 25 | 100   | 90  | 55  | 10 |
|          | 27 | 100   | 90  | 65  | 10 |
|          | 30 | 100   | 90  | 65  | 10 |
|          | 40 | 100   | 90  | 80  | 10 |
|          | 45 | 155   | 110 | 140 | 10 |
|          | 50 | 155   | 110 | 160 | 10 |
|          | 55 | 155   | 110 | 230 | 10 |
|          | 60 | 155   | 110 | 285 | 10 |

### Torx®Winkelschraubendreher

Angle screwdriver for Torx®-screws

Tournevis pour vis Torx®

Llave acodada para tornillos Torx®



| No. |       |        |     |    |
|-----|-------|--------|-----|----|
| 760 | TX 6  | 45x19  | 2   | 10 |
|     | TX 7  | 51x19  | 2   | 10 |
|     | TX 8  | 51x19  | 3   | 10 |
|     | TX 9  | 51x19  | 3   | 10 |
|     | TX 10 | 54x20  | 4   | 10 |
|     | TX 15 | 58x22  | 5   | 10 |
|     | TX 20 | 61x23  | 7   | 10 |
|     | TX 25 | 65x25  | 10  | 10 |
|     | TX 27 | 70x26  | 15  | 10 |
|     | TX 30 | 76x30  | 20  | 10 |
|     | TX 40 | 83x33  | 30  | 5  |
|     | TX 45 | 91x37  | 43  | 5  |
|     | TX 50 | 104x41 | 65  | 5  |
|     | TX 55 | 120x47 | 120 | 5  |
|     | TX 60 | 134x52 | 190 | 5  |

### Torx-Winkelschraubendreher® in Kunststoffschiebekassette

Torx® wrenches in sliding plastic box

Clés Torx® en box plastique

Juego llaves acodadas Torx®, en caja de plástico



| No. | Inhalt                    |     |    |
|-----|---------------------------|-----|----|
| 762 | TX:9-10-15-20-25-27-30-40 | 110 | 10 |

### Torx®-Schraubendreher in Metallhalter

Torx® wrenches in folding metal holder

Clés Torx® en porteur à main

Juego llaves Torx® con mangometalico



| No. | Inhalt                    |     |    |
|-----|---------------------------|-----|----|
| 763 | TX:9-10-15-20-25-27-30-40 | 260 | 10 |

### Torx® in Kunststoffhalter

Torx® wrenches in plastic holder / Clés Torx® en porteur à plastique / Juego llaves Torx® con mango plastico



| No. | Inhalt                    |     |    |
|-----|---------------------------|-----|----|
| 764 | TX:9-10-15-20-25-27-30-40 | 260 | 10 |

### Im Kunststoffhalter

In plastic holder / En support plastique / En petaca de plastico



| No.          | Inhalt          |    |    |
|--------------|-----------------|----|----|
| 772 CV 6tlg. | 1,5-2-2,5-3-4-5 | 80 | 10 |

### Sechskant-Winkelschraubendreher mit Kugelkopf lange Ausführung

Hexagon key wrenches extra long with ballpoint / Clés mâles 6 pans, super longueur, ball-pointe / Llaves allen acodadas, extra larga, con bola



ChromVanadium  
Molybdän Stahl  
59 Cr Mo V 4

| No.      | mm  |            |     |    |
|----------|-----|------------|-----|----|
| 770 C.V. | 1,5 | 91,5x15,5  | 2   | 10 |
|          | 2   | 102x18     | 4   | 10 |
|          | 2,5 | 114,5x20,5 | 6   | 10 |
|          | 3   | 129x23     | 9   | 10 |
|          | 4   | 144x29     | 19  | 10 |
|          | 5   | 165x33     | 33  | 10 |
|          | 6   | 186x38     | 54  | 10 |
|          | 7   | 197x41     | 80  | 10 |
|          | 8   | 208x44     | 105 | 10 |
|          | 10  | 234x50     | 148 | 10 |
|          | 12  | 262x57     | 295 | 10 |

### Im Kunststoffhalter

In plastic holder / En support plastique / En petaca de plastico



| No.          | Inhalt                 |     |   |
|--------------|------------------------|-----|---|
| 773 CV 6tlg. | 1,5-2-2,5-3-4-5-6-8-10 | 380 | 5 |

### In Kunststoffschiebekassette

Hexagonal angle spanners in plastic box / Clés mâles en box plastique / Juego llaves allen en caja de plastico



| No.          | Inhalt                                       |     |   |
|--------------|----------------------------------------------|-----|---|
| 774 CV       | 2-2,5-3-4-5-6-8-10                           | 510 | 5 |
| 775 CV 8tlg. | 5/64"-3/32"-1/8"-5/32"-3/16"-1/4"-5/16"-3/8" | 510 | 5 |

### Sechskant-Schraubendreher mit Kugelkopf und Quergriff

Ball point screwdriver, with T-handle / Tournevis ball point coudée / Llave allen bola con mango en T



ChromVanadium  
Molybdän Stahl  
59 Cr Mo V 4

| No.      | mm | Länge |     |     |    |
|----------|----|-------|-----|-----|----|
| 771 C.V. | 3  | 100   | 70  | 24  | 10 |
|          | 4  | 100   | 70  | 40  | 10 |
|          | 5  | 100   | 90  | 51  | 10 |
|          | 6  | 150   | 90  | 77  | 10 |
|          | 8  | 150   | 90  | 105 | 10 |
|          | 10 | 200   | 110 | 223 | 10 |

### Im Kunststoffhalter

In plastic holder / En support plastique / En petaca de plastico

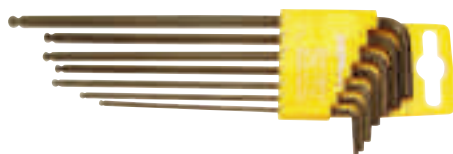


| No.          | Inhalt                 |     |  |
|--------------|------------------------|-----|--|
| 776 CV 9tlg. | 1,5-2-2,5-3-4-5-6-8-10 | 380 |  |



### Im Kunststoffhalter

In plastic holder / En support plastique  
En petaca de plastico



| No.          | Inhalt                                       |     |   |
|--------------|----------------------------------------------|-----|---|
| 777 CV 7tlg. | 5/64"-3/32"-1/16"-1/8"-9/64"-<br>5/32"-3/16" | 380 | 5 |

### Im Kunststoffhalter

In plastic holder / En support plastique  
En petaca de plastico



| No.          | Inhalt                 |     |    |
|--------------|------------------------|-----|----|
| 778 CV 9tlg. | 1,5-2-2,5-3-4-5-6-8-10 | 430 | 10 |

### Winkelschraubendreher mit Kugelkopf mit Halter und Anti-slip Beschichtung

Angle ball wrenches in plastic holder with anti-slip isolation / Clés ball pointe en porteur, anti-glissement / Llave bola, en caja plastico, antiderrapante



| No. | Inhalt                 |     |    |
|-----|------------------------|-----|----|
| 779 | 1,5-2-2,5-3-4-5-6-8-10 | 422 | 10 |

### Winkelschraubendreher für Tamper Torx® Schrauben mit Sicherheitsstift

Angle screwdriver for Tamper Torx®-screws with hole  
Tournevis pour vis Tamper Torx®, avec ouverture  
Llave Tamper-Torx® con agujero interior



| No. |       | Länge  |    |    |
|-----|-------|--------|----|----|
| 780 | TX 9  | 59x19  | 4  | 10 |
|     | TX 10 | 65x20  | 6  | 10 |
|     | TX 15 | 76x21  | 7  | 10 |
|     | TX 20 | 87x22  | 11 | 10 |
|     | TX 25 | 95x23  | 16 | 10 |
|     | TX 27 | 106x26 | 28 | 10 |
|     | TX 30 | 111x30 | 33 | 10 |
|     | TX 40 | 119x33 | 49 | 10 |

### Tamper Torx®-Schlüssel in Kunststoffschiebekassette

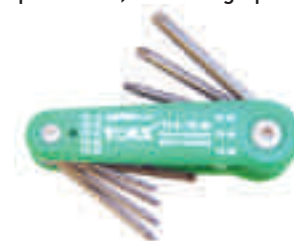
Tamper Torx® wrenches in sliding plastic box  
Clés Tamper Torx® en box plastique / Juego llaves acodadas Tamper Torx®, en caja de plastico



| No. | Inhalt                    |     |    |
|-----|---------------------------|-----|----|
| 782 | TX:9-10-15-20-25-27-30-40 | 110 | 10 |

### Tamper Torx®-Schlüssel in Kunststoffhalter

Tamper Torx® wrenches in plastic holder  
Clés Tamper Torx® en porteur plastique / Juego llaves acodadas Tamper Torx®, con mango plastico



| No. | Inhalt                    |     |    |
|-----|---------------------------|-----|----|
| 783 | TX:9-10-15-20-25-27-30-40 | 260 | 10 |

### Torx®-Winkelschraubendreher mit Kugelkopf im Halter

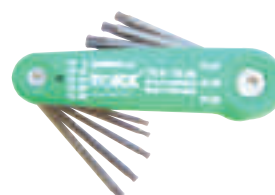
Torx® ball wrenches in plastic holder  
Clés Torx® ball pointe en porteur à main  
Llave bola Torx®, en caja plastico



| No. | Inhalt                    |     |    |
|-----|---------------------------|-----|----|
| 792 | TX:9-10-15-20-25-27-30-40 | 160 | 10 |

### Torx®-Winkelschraubendreher mit Kugelkopf im Halter

Torx® ball wrenches in plastic holder  
Clés Torx® ball pointe en porteur à main  
Llave bola Torx®, en caja plastico



| No. | Inhalt                    |     |    |
|-----|---------------------------|-----|----|
| 793 | TX:9-10-15-20-25-27-30-40 | 260 | 10 |



**ZANGEN - VDE PROGRAMM**  
PLIER - VDE PROGRAMME

**05**

**Köpfe matt verchromt,  
Griffe rot gedeckt**

Heads matt chrom plated, handles  
red non transparent  
Têtes chromée mat, manches rouge  
non transparent  
Cabeza cromada plateada mate,  
mango rojo no transparente

DIN ISO 5746

**Kombizange**

Combination Plier / Pince universelles / Alicata universal



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1201 | 165 | 6.1/2" | 210 | 5 |
|      | 180 | 7"     | 270 | 5 |
|      | 200 | 8"     | 340 | 5 |

**Langbeck-Flachzange**

Long flat nose pliers / Pince à becs plats longs  
Alicata plano

DIN ISO 5745



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1206 | 160 | 6.1/4" | 130 | 5 |

**Langbeck-Rundzange**

Long round nose pliers / Pince à becs ronds longs  
Alicata redondo

DIN ISO 5745

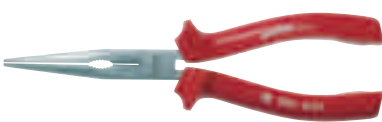


| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1211 | 160 | 6.1/4" | 130 | 5 |

**Radiozange**

Chain nose radio pliers / Pince pour radio  
Alicata punta con corte

DIN ISO 5745



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1216 | 170 | 6.3/4" | 160 | 5 |
|      | 205 | 8"     | 220 | 5 |

**Radiozange, Spitze abgebogen**

Chain nose radio pliers, bent nose  
pince pour radio, becs pliés  
Alicata curvo

DIN ISO 5745



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1221 | 170 | 6.3/4" | 160 | 5 |
|      | 205 | 8"     | 220 | 5 |

**Seitenschneider**

Diagonal cutting nippers / Pince coupantes de côte  
Alicata corte diagonal

DIN ISO 5749



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1226 | 145 | 5.3/4" | 190 | 5 |
|      | 160 | 6.1/4" | 220 | 5 |
|      | 180 | 7"     | 280 | 5 |

**Kraftseitenschneider**

Heavy duty diagonal cutting nippers  
Pince coupantes de côte, pour fil dur  
Alicata corte diagonal, extra fuerte

DIN ISO 5749



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1231 | 150 | 6"     | 190 | 5 |
|      | 180 | 7"     | 275 | 5 |
|      | 200 | 8"     | 300 | 5 |
|      | 240 | 9.1/2" | 420 | 5 |

**Hebel Kraftseitenschneider,  
40 % Kraftersparnis**

Heavy duty diagonal cutting nippers, 40 % reduced effort  
Pince coupantes de côte, 40 % reduction de force  
Alicata corte diagonal, extra fuerte, 40 % reduccion de fuerza

DIN ISO 5749



| No.  | mm  | Zoll |     |   |
|------|-----|------|-----|---|
| 1232 | 180 | 7"   | 270 | 5 |



**Kraftvornschneider**

DIN ISO 5748

Heavy duty front cutting nippers  
Pinces coupantes de tête, pour fil dur  
Alicate corte frontal, extra fuerte

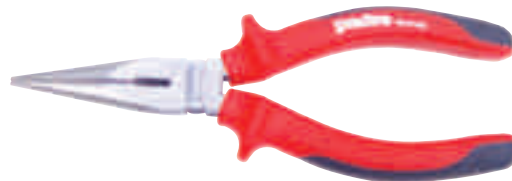


| No.  | mm  | Zoll   |  |  |
|------|-----|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1236 | 160 | 6.1/4" | 255                                                                               | 5                                                                                 |
|      | 180 | 7"     | 250                                                                               | 5                                                                                 |

**Radiozange**

DIN ISO 5745

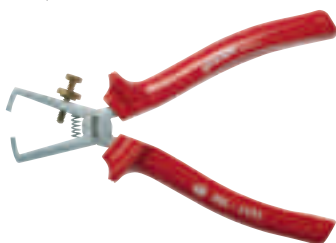
Chain nose radio pliers / Pinces pour radio  
Alicate punta con corte



| No.  | mm  | Zoll   |  |  |
|------|-----|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1217 | 160 | 6.1/4" | 110                                                                                 | 5                                                                                   |
|      | 200 | 8"     | 160                                                                                 | 5                                                                                   |

**Abisoliierzange**

Wire Stripping Pliers / Pince à desisoler avec ressort  
Alicate corte frontal, extra fuerte



| No.  | mm  | Zoll   |  |  |
|------|-----|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1241 | 160 | 6.1/4" | 165                                                                                 | 5                                                                                   |

**Radiozange, Spitze abgebogen**

DIN ISO 5745

Chain nose radio pliers, bent nose  
pinces pour radio, becs pliés  
Alicate curvo



| No.  | mm  | Zoll |  |  |
|------|-----|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1222 | 200 | 8"   | 230                                                                                   | 5                                                                                     |

**Industrie Finish  
mit 2-Komponenten-Griffen**

Industrial Finish with  
2-Components-Handles  
Firnish d'industriel avec  
du manche en 2-Composante  
Poligono con 2-Copaniete Plastico

**PREISWERTE ALTERNATIVE**  
CHEAPER ALTERNATIVE  
ALTERNATIVE FAVORABLE  
ALTERNATIVA BARATA

**Seitenschneider**

DIN ISO 5749

Diagonal cutting nippers / Pinces coupantes de côte  
Alicate corte diagonal



| No.  | mm  | Zoll   |  |  |
|------|-----|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1227 | 160 | 6.1/4" | 220                                                                                   | 5                                                                                     |

DIN ISO 5746

**Kombizange**

Combination Plier / Pinces universelles / Alicate universal



| No.  | mm  | Zoll |  |  |
|------|-----|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1202 | 180 | 7"   | 280                                                                                 | 5                                                                                   |
|      | 200 | 8"   | 350                                                                                 | 5                                                                                   |

**Abisoliierzange**Ø 5 mm-10 mm<sup>2</sup>

Wire Stripping Pliers / Pince à desisoler avec ressort  
Alicate corte frontal, extra fuerte



| No.  | mm  | Zoll   |  |  |
|------|-----|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1240 | 160 | 6.1/4" | 160                                                                                   | 5                                                                                     |



## Sprengringzangen Chrom Vanadium Stahl für Außenringe

Outside circlip pliers  
Pince à segment de pistons extérieur  
Alicates para arandelas exteriores

DIN 5254 A

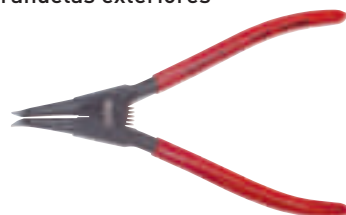


| No.  | mm  |     |        |     |   |
|------|-----|-----|--------|-----|---|
| 1245 | 135 | A 0 | 3-10   | 80  | 5 |
|      | 140 | A 1 | 10-25  | 96  | 5 |
|      | 180 | A 2 | 19-60  | 150 | 5 |
|      | 220 | A 3 | 40-100 | 250 | 5 |
|      | 310 | A 4 | 85-165 | 325 | 5 |

## Sprengringzangen Chrom Vanadium Stahl für Außenringe abgewinkelt

Outside circlip pliers angled 90°  
Pince à segment de pistons extérieur  
Alicates para arandelas exteriores

DIN 5254 B

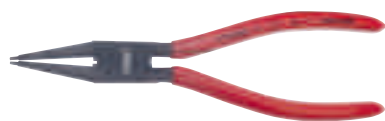


| No.  | mm  |      |        |     |   |
|------|-----|------|--------|-----|---|
| 1246 | 135 | A 01 | 3-10   | 80  | 5 |
|      | 140 | A 11 | 10-25  | 96  | 5 |
|      | 180 | A 21 | 19-60  | 150 | 5 |
|      | 220 | A 31 | 40-100 | 250 | 5 |
|      | 310 | A 41 | 85-165 | 325 | 5 |

## Sprengringzangen Chrom Vanadium Stahl für Innenringe

Inside circlip pliers  
Pince à segment de pistons intérieur  
Alicates para arandelas interiores

DIN 5266 A

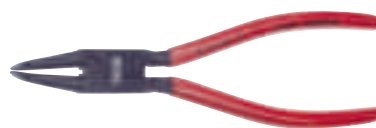


| No.  | mm  |     |        |     |   |
|------|-----|-----|--------|-----|---|
| 1247 | 140 | J 0 | 8-13   | 80  | 5 |
|      | 140 | J 1 | 10-25  | 90  | 5 |
|      | 180 | J 2 | 19-60  | 150 | 5 |
|      | 220 | J 3 | 40-100 | 250 | 5 |

## Sprengringzangen Chrom Vanadium Stahl für Innenringe abgewinkelt

Inside circlip pliers angled 90°  
Pince à segment de pistons intérieur  
Alicates para arandelas interiores

DIN 5256 B



| No.  | mm  |      |        |     |   |
|------|-----|------|--------|-----|---|
| 1248 | 130 | J 01 | 8-13   | 90  | 5 |
|      | 130 | J 11 | 12-25  | 150 | 5 |
|      | 165 | J 21 | 19-60  | 250 | 5 |
|      | 200 | J 31 | 40-100 | 310 | 5 |

## Rabbitzange Hebelübersetzt

Rabbitz pincers / Pincas coupantes / Tenaza tipo ruso

DIN ISO 9242 Form A



| No.  | mm  |  |     |    |
|------|-----|--|-----|----|
| 1253 | 230 |  | 350 | 10 |
|      | 260 |  | 460 | 10 |
|      | 300 |  | 480 | 5  |

## Rabbitzange

Rabbitz pincers / Pincas coupantes / Tenaza tipo ruso

DIN ISO 9242 Form A

**PREISWERTE ALTERNATIVE**  
CHEAPER ALTERNATIVE  
ALTERNATIVE FAVORABLE  
ALTERNATIVA BARATA



| No.    | mm  |  |     |    |
|--------|-----|--|-----|----|
| 1253 S | 220 |  | 341 | 10 |
|        | 250 |  | 420 | 5  |
|        | 280 |  | 490 | 5  |

## Kantenzange

Carpenter pincers / Pincas coupantes / Tenaza carpintero

DIN ISO 9243



| No.  | mm  |  |     |    |
|------|-----|--|-----|----|
| 1254 | 180 |  | 320 | 10 |
|      | 210 |  | 420 | 10 |
|      | 250 |  | 640 | 5  |

**Kantenzange**

DIN ISO 9243

Carpenter pincers / Pincas coupantes / Tenaza carpintero

**PREISWERTE ALTERNATIVE**  
CHEAPER ALTERNATIVE  
ALTERNATIVE FAVORABLE  
ALTERNATIVA BARATA



| No.    | mm  |  |  |  |  |
|--------|-----|--|--|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1254 S | 150 |  |  | 225                                                                               | 10                                                                                |
|        | 175 |  |  | 270                                                                               | 10                                                                                |
|        | 200 |  |  | 320                                                                               | 5                                                                                 |

**Wasserpumpenzange**

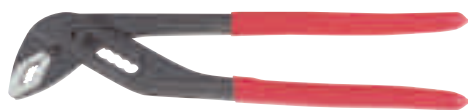
DIN ISO 8976 C

**mit durchgestecktem Gewerbe**Waterpump plier, box joint / Pincas multiprices, charnière double  
Alicate corredera doble

| No.  | mm  | Zoll |  |  |  |
|------|-----|------|--|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1258 | 180 | 7    |  | 165                                                                                 | 5                                                                                   |
|      | 240 | 10   |  | 365                                                                                 | 5                                                                                   |
|      | 300 | 12   |  | 620                                                                                 | 5                                                                                   |

**Wasserpumpenzange**

DIN ISO 8976 C

**mit durchgestecktem Gewerbe**Waterpump plier, box joint / Pincas multiprices, charnière double  
Alicate corredera doble

| No.    | mm  | Zoll |  |  |  |
|--------|-----|------|--|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1258 S | 180 | 7    |  | 165                                                                                 | 5                                                                                   |
|        | 240 | 10   |  | 365                                                                                 | 5                                                                                   |
|        | 300 | 12   |  | 620                                                                                 | 5                                                                                   |

**Wasserpumpenzange**

DIN ISO 8976 C

Waterpump plier / Pincas multiprices / Alicate corredera



| No.  | mm  | Zoll   |  |  |  |
|------|-----|--------|--|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1252 | 250 | 10     |  | 250                                                                                 | 5                                                                                   |
|      | 320 | 12,5   |  | 320                                                                                 | 5                                                                                   |
|      | 400 | 15 3/4 |  | 400                                                                                 | 5                                                                                   |

**Wasserpumpenzange**

DIN ISO 8976 C

**mit durchgestecktem Gewerbe**Waterpump plier, box joint / Pincas multiprices, charnière double  
Alicate corredera doble

| No.    | mm  | Zoll   |  |  |  |
|--------|-----|--------|--|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1258 H | 240 | 9.1/2" |  | 385                                                                                  | 5                                                                                    |

**Wasserpumpenzangensatz in Tasche Rot**Waterpump plier in pouch red / Pincas multiprices  
Alicate corredera bolsa de plastico

3-tlg.

| No.  | mm  | Zoll |  |  |  |
|------|-----|------|--|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1258 | 180 | 7    |  | 1030                                                                                  | 5                                                                                     |
|      | 240 | 10   |  |                                                                                       |                                                                                       |
|      | 300 | 12   |  |                                                                                       |                                                                                       |

**Wasserpumpenzangensatz in Tasche mit isolierten Griffen**Waterpump plier in pouch with isolation handle  
Pincas multiprices / Alicate corredera bolsa de plastico

3-tlg.

| No.    | mm  | Zoll |  |  |  |
|--------|-----|------|--|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1258 S | 180 | 7    |  | 1040                                                                                  | 5                                                                                     |
|        | 240 | 10   |  |                                                                                       |                                                                                       |
|        | 300 | 12   |  |                                                                                       |                                                                                       |

### Wasserpumpenzange mit durchgestecktem Gewerbe

DIN ISO 8976 C

Waterpump plier, box joint / Pince multiprises, charnière double  
Alicate corredera doble



| No.  | mm  | Zoll |  |     |   |
|------|-----|------|--|-----|---|
| 1259 | 250 | 10   |  | 400 | 5 |

### Eckrohrzange, schwedische Form

DIN 5234 Form B  
Chrom Vanadium Stahl

Pipe wrenches swedish pattern  
Serre tubes modèle suédoise  
Llaves dulan modelo sueco



| No.  | mm  | Zoll   | Spannweite |      |   |
|------|-----|--------|------------|------|---|
| 1260 | 340 | 1"     | 45         | 760  | 1 |
|      | 400 | 1.1/2" | 62         | 1500 | 1 |
|      | 530 | 2"     | 76         | 2580 | 1 |

### Eckrohrzange "S" Maul

DIN 5234 Form C  
Chrom Vanadium Stahl

Pipe wrenches "S" type  
Serre tubes, modèle "S"  
Llaves dulan modelo "S"



| No.  | mm  | Zoll   | Spannweite |      |   |
|------|-----|--------|------------|------|---|
| 1261 | 270 | 1/2"   | 38         | 460  | 1 |
|      | 320 | 1"     | 50         | 820  | 1 |
|      | 420 | 1.1/2" | 66         | 1540 | 1 |
|      | 570 | 2"     | 80         | 2580 | 1 |
|      | 700 | 3"     | 110        | 4140 | 1 |

### Eckrohrzange 90 Grad schwedische Form C.V.Stahl

Chrom Vanadium Stahl  
DIN 5234 Form A

Pipe wrenches "90° bended / Serre tubes, 90° biege  
Llaves Dullan, en angulo de 90°



| No.  | mm  | Zoll   | Spannweite |      |   |
|------|-----|--------|------------|------|---|
| 1262 | 340 | 1"     | 45         | 780  | 1 |
|      | 400 | 1.1/2" | 62         | 1480 | 1 |
|      | 530 | 2"     | 76         | 2540 | 1 |

### Rohrzange "S" Maul mit Schnellverstellung

Chrom Vanadium Stahl  
DIN 5234 Form C

Pipe wrenches "S" type  
Serre tubes, modèle "S"  
Llaves dulan modelo "S"



| No.  | mm  | Zoll  | Spannweite |       |   |
|------|-----|-------|------------|-------|---|
| 1263 | 320 | 1     | 50         | 820   | 1 |
|      | 420 | 1.1/2 | 66         | 1.540 | 1 |

### Toiletten Schlüssel

Plumber's wrench  
Clés à serrage pour armatures  
Llave ajustable para armador



| No.  | mm  | Rohrweite | Maul     |     |
|------|-----|-----------|----------|-----|
| 1265 | 275 | 65        | 8,5/12,5 | 750 |

### Ersatz Kunststoff Backen zu Art.-Nr. 1265

Replacement plastic caps for Art.-Nr. 1265  
Têtes de réchange matière plastique pour Art.-Nr. 1265  
Repuesto cabezal de plastico para Art.-Nr. 1265

| No.  |  | Maul |         |
|------|--|------|---------|
| 1266 |  | 20   | 10 Paar |

### Rohrzange amerikanisches Modell extra schwere Ausführung

Chrom Vanadium  
Molybdän Stahl

Pipe wrenches heavy duty / Serre tubes modèle  
Llaves dulan modelo



| No.  | mm  | Zoll | Spannweite |      |   |
|------|-----|------|------------|------|---|
| 1268 | 190 | 8"   | 27         | 745  | 5 |
|      | 250 | 10"  | 35         | 1400 | 5 |
|      | 300 | 12"  | 47         | 2390 | 5 |
|      | 355 | 14"  | 50         | 4150 | 5 |
|      | 450 | 18"  | 63         | 4850 | 5 |
|      | 610 | 24"  | 80         | 6600 | 3 |
|      | 915 | 36"  | 105        | 8300 | 1 |

**Wasserpumpenzange  
mit durchgestecktem Gewerbe**

Waterpump plier, box joint  
Pincas multiprises, charnière double  
Alicate corredera doble

DIN ISO 8976



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1269 | 240 | 9.1/2" | 385 | 5 |

**Industrie Finish mit 2-Komponenten-Griffen**

Industrial Finish with 2-Components-Handles  
Firnish d'industriel avec manche en 2-Composante  
Poligono con 2-Copaniete Plastico

**Kombizange**

Combination Plier / Pincas universelles  
Alicate universal

DIN ISO 5745



| No.  | mm  | Zoll |     |   |
|------|-----|------|-----|---|
| 1270 | 180 | 7"   | 270 | 5 |
|      | 205 | 8"   | 340 | 5 |

**Langbeck-Flachzange**

Long flat nose pliers  
Pince à becs plats longs  
Alicate plano

DIN ISO 5745



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1271 | 160 | 6.1/4" | 130 | 5 |

**Langbeck-Rundzange**

Long round nose pliers  
Pince à becs ronds longs  
Alicate redondo

DIN ISO 5745



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1272 | 160 | 6.1/4" | 130 | 5 |

**Radiozange**

Chain nose radio pliers  
Pincas pour radio  
Alicate punta con corte

DIN ISO 5745



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1273 | 170 | 6 3/4" | 165 | 5 |
|      | 205 | 8"     | 220 | 5 |

**Radiozange, Spitze abgebogen**

Chain nose radio pliers, bent nose  
Pincas pour radio, becs plies  
Alicate pontas curvas

DIN ISO 5745



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1274 | 170 | 6 3/4" | 165 | 5 |
|      | 205 | 8"     | 220 | 5 |

**Seitenschneider**

Diagonal cutting nippers  
Pincas coupantes de côté  
Alicate corte diagonal

DIN ISO 5745



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1275 | 145 | 5.3/4" | 190 | 5 |
|      | 160 | 6.1/4" | 220 | 5 |
|      | 180 | 7"     | 280 | 5 |



### Kraftseitenschneider

Heavy duty diagonal cutting nippers  
Pinces coupantes de côté  
Alicate corte diagonal, extra fuerte

DIN ISO 5749



| No.  | mm  | Zoll |     |   |
|------|-----|------|-----|---|
| 1276 | 180 | 7"   | 285 | 5 |
|      | 200 | 8"   | 310 | 5 |
|      | 250 | 10"  | 420 | 5 |

### Abisolierzange

Wire Stripping Pliers / Pince à désisoler avec ressort  
Alicate corta y pelacables

DIN ISO 5745



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1277 | 160 | 6.1/4" | 165 | 5 |

### Kabelschneider

Cable Cutter / Pince coupante / Corta cable

DIN ISO 5745



| No.  | mm  | Zoll   | Schneidleistung    |     |   |
|------|-----|--------|--------------------|-----|---|
| 1278 | 160 | 6.1/4" | 14 mm <sup>2</sup> | 220 | 5 |
|      | 210 | 8.1/4" | 70 mm <sup>2</sup> | 340 |   |

### Elektriker Seitenschneider mit 3 Funktionen

Diagonal cutting nippers with 3 functions  
Pinces coupantes avec 3 fonctions  
Corta cable lateral con tres funciones

DIN ISO 5745



| No.  | mm  | Zoll | Schneidleistung |     |   |
|------|-----|------|-----------------|-----|---|
| 1279 | 175 | 7"   |                 | 235 | 5 |

### Ader Endhülsen Sortiment in Kunststoffbox, 1003 tlg.

Assortment of cable end sleeves in plastic box, 1003 pcs.  
Jeu d embouts en box plastique, 1003 pcs.  
Surtido de terminales en caja de plastico, 1003 pcs.



| No.  | Inhalt                                                                                                                  |     |   |
|------|-------------------------------------------------------------------------------------------------------------------------|-----|---|
| 1283 | Aderendhülszange 0,5 - 10 mm<br>2 Wechseleinsätze für isolierte und unisolierte Kabelschuhe<br>1000 diverse Kabelschuhe | 350 | 1 |

### Ader Endhülsen Preßzange mit Trapezprofil

Pressing plier for cable end sleeves, trapezoid crimping  
Pince à sertir pour manchons, sertissage trapézoidal  
Pone terminales trapezoidal



| No.  | mm  | mm <sup>2</sup> |     |   |
|------|-----|-----------------|-----|---|
| 1280 | 160 | 0,34-2,5        | 175 | 5 |

**Ader Endhülsen Preßzange mit Kabelschneider**

Pressing plier for cable end sleeves, with cutter  
Pince à sertir pour manchons, avec coupe cable  
Pone terminales, con corte



| No.  | mm  | mm <sup>2</sup> |  |  |
|------|-----|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1281 | 190 | 0,5-16          | 310                                                                               | 5                                                                                 |

**Ader Endhülsen Preßzange**

Pressing plier for cable end sleeves  
Pince à sertir pour manchons  
Pone terminales



| No.  | mm  | mm <sup>2</sup> |  |  |
|------|-----|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1282 | 225 | 0,5-6           | 370                                                                                 | 5                                                                                   |

**Ader Endhülsen in Plastikbox**

Cable end sleeves in plastic box  
Embouts en box plastique  
Pone terminales en caja de plastico



| No.  | mm | mm   | Inhalt |  |
|------|----|------|--------|-------------------------------------------------------------------------------------|
| 1285 | 6  | 0,5  | 1000   | 5                                                                                   |
|      | 6  | 0,75 | 1000   | 5                                                                                   |
|      | 6  | 1    | 1000   | 5                                                                                   |
|      | 7  | 1,5  | 1000   | 5                                                                                   |
|      | 7  | 2,5  | 1000   | 5                                                                                   |
|      | 9  | 4    | 100    | 5                                                                                   |
|      | 10 | 6    | 250    | 5                                                                                   |
|      | 12 | 10   | 250    | 5                                                                                   |
|      | 12 | 16   | 250    | 5                                                                                   |

**Ader-Endhülsen-Sortiment in Kunststoff-Box, ohne Isolation, 500 Stk.**

Assortment of cable-end-sleeves in plastic box, without isolation, 500 pcs.

Jeu d'embouts en box plastique, sans isolation, 500 pcs.

Pone terminales en caja de plastico, sin aislante, 500 pcs.



| No.  | mm      | Inhalt |  |  |
|------|---------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1287 | 0,5-2,5 | 500    | 60                                                                                  | 1                                                                                   |

**Ader-Endhülsen-Sortiment in Kunststoff-Box, mit Isolation, 150 Stk.**

Assortment of cable-end-sleeves in plastic box, with isolation, 150 pcs.

Jeu d'embouts en box plastique, avec isolation, 150 pcs.

Pone terminales en caja de plastico, con aislante, 150 pcs.



| No.  | mm      | Inhalt |  |  |
|------|---------|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1288 | 0,5-2,5 | 150    | 60                                                                                    | 1                                                                                     |

**Ader Endhülsen Sortiment in Kunststoffbox, 300 tlg.**

Assortment of cable end sleeves in plastic box, 300 pcs.

Jeu d'embouts en box plastique, 300 pcs.

Surtido de terminales en caja de plastico, 300 pcs.



| No.  | mm      | Inhalt |  |  |
|------|---------|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1289 | 0,5-1,6 | 1281   | 460                                                                                   | 1                                                                                     |
|      |         | 1285   |                                                                                       |                                                                                       |

**Mit ESD "Soft Gripp Griffen"** (Oberfläche Widerstand 106 bis 108 Ohm)

zum Schutz vor elektrostatisch gefährdeten Bauelementen und zur Vermeidung von Störungen im Schaltkreis

**With ESD "Soft Gripp handles"** (surfaces resistance 106-108 Ohm)

for protecting electrostatic sensitive devices and for avoiding defects in electronic circuits.

**Avec ESD "Soft Gripp manche"** (surface résistance 106-108 Ohm)

pour protection de élément electrostatic dangereux et pour éviter une dérangement en le circuit electronic.

**Con ESD "Soft Gripp mano"** (superficie resistencia 106-108 Ohm)

para protección de elemento electrostatico peligroso para evitar una perturbacion en el circuito electronico.

**Kombizange**

Combination Plier / Pincers universelles / Alicates universal



| No.  | mm  | Zoll   |  |  |
|------|-----|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1190 | 120 | 4.3/4" | 80                                                                                | 5                                                                                 |

**Kettenzange**

Chain nose pliers / Pince / Alicates



| No.  | mm  | Zoll   |  |  |
|------|-----|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1193 | 115 | 4.1/2" | 80                                                                                  | 5                                                                                   |

**Flachzange**

Flat Nose Plier / Pincers à becs plats / Alicates plano



| No.  | mm  | Zoll   |  |  |
|------|-----|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1191 | 115 | 4.1/2" | 80                                                                                  | 5                                                                                   |

**Kettenzange gebogen**

Chain nose pliers / Pince / Alicates



| No.  | mm  | Zoll   |  |  |
|------|-----|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1194 | 115 | 4.3/4" | 80                                                                                    | 5                                                                                     |

**Rundzange**

Round nose pliers / Pince à becs ronds / Alicates redondo



| No.  | mm  | Zoll   |  |  |
|------|-----|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1192 | 115 | 4.1/2" | 80                                                                                  | 5                                                                                   |

**Seitenschneider**

Diagonal cutting nippers / Pincers coupantes de côte  
Alicates corte diagonal



| No.  | mm  | Zoll   |  |  |
|------|-----|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1195 | 115 | 4.1/2" | 80                                                                                    | 5                                                                                     |

**Chrom Vanadium Stahl, vernickelt**

Chrom Vanadium Steel, nickle plated  
Acier Chrom Vanadium, niquelée  
Acero cromo vanadio, niquel plateado

**Universal Gripzange**

Universal Griplier / Pince étaux universel  
Mordaza Grip, tipo universal



| No.  | mm  | Zoll | Spannweite |  |  |
|------|-----|------|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1295 | 250 | 10   | 50         | 570                                                                               | 1                                                                                 |

**Universal Gripzange**

Universal Griplier / Pince étaux universel  
Mordaza Grip, tipo universal



| No.  | mm  | Zoll | Spannweite |  |  |
|------|-----|------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1300 | 150 | 6    | 30         | 190                                                                                 | 1                                                                                   |
|      | 180 | 7    | 35         | 370                                                                                 | 1                                                                                   |
|      | 250 | 10   | 50         | 540                                                                                 | 1                                                                                   |
|      | 300 | 12   | 65         | 930                                                                                 | 1                                                                                   |

**Parallel Gripzange**

Parallel grip-plier / Pince étaux parallel  
Mordaza Grip, paralela



| No.  | mm  | Zoll | Spannweite |  |  |
|------|-----|------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1301 | 250 | 10   | 45         | 570                                                                                 | 1                                                                                   |

**Schweißer Gripzange**

welding grip plier / Pince étaux à souder  
Mordaza Grip, horquilla



| No.  | mm  | Zoll | Spannweite |  |  |
|------|-----|------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1302 | 280 | 11   | 60         | 830                                                                                 | 1                                                                                   |

**Rohrschweißer Gripzange**

Welding grip plier for tubes / Pince à souder pour tubes  
Mordaza Grip, para tubos



| No.  | mm  | Zoll | Spannweite |  |  |
|------|-----|------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1303 | 280 | 11   | 10-90      | 750                                                                                 | 1                                                                                   |

**Klammer Gripzange**

C-clamp grip / Grip serre joint / Mordaza Grip, cuello de cisne



| No.  | mm  | Zoll | Spannweite |  |  |
|------|-----|------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1304 | 280 | 11   | 90         | 710                                                                                 | 1                                                                                   |
|      | 460 | 18   | 220        | 1090                                                                                | 1                                                                                   |
|      | 600 | 24   | 320        | 1345                                                                                | 1                                                                                   |

**Mit schwarzer Pulverbeschichtung und Speziallösehebel**

With black powder coating and special opening mechanism  
Avec surface de poudre noir et déblocage spécial  
Recubierta en negro, con mecanismo de apertura especial

**Universal Gripzange**

Universal Griplier / Pince étaux universel  
Mordaza Grip, tipo universal



| No.    | mm  | Zoll | Spannweite |  |  |
|--------|-----|------|------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1295 S | 250 | 10   | 50         | 570                                                                                   | 1                                                                                     |

**Universal Gripzange mit geraden Backen**

Universal Griplier with straight jaws  
Pince étaux avec becs droit / Mordaza Grip, con boca recta



| No.    | mm  | Zoll | Spannweite |  |  |
|--------|-----|------|------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1296 S | 250 | 10   | 50         | 540                                                                                   | 1                                                                                     |



### Schweißer-Gripzange mit Klemmplatten

Welding grip with clamps / Grip à souder  
Mordaza Grip, con sujetador



| No.    | mm  | Zoll | Spannweite |  |  |
|--------|-----|------|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1298 S | 180 | 7    | 30         | 520                                                                               | 1                                                                                 |

### Rohrschweißer Gripzange

Welding grip plier for tubes / Pince à souder pour tubes  
Mordaza Grip, para tubos



| No.    | mm  | Zoll | Spannweite |  |  |
|--------|-----|------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1303 S | 280 | 11   | 10-90      | 750                                                                                 | 1                                                                                   |

### Universal Gripzange

Universal Griplier / Pince étaux universel  
Mordaza Grip, tipo universal



| No.    | mm  | Zoll | Spannweite |  |  |
|--------|-----|------|------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 1300 S | 150 | 6    | 30         | 190                                                                                | 1                                                                                  |
|        | 180 | 7    | 35         | 370                                                                                | 1                                                                                  |
|        | 250 | 10   | 50         | 540                                                                                | 1                                                                                  |
|        | 300 | 12   | 65         | 930                                                                                | 1                                                                                  |

### Klammer Gripzange

C-clamp grip / Grip serre joint / Mordaza Grip, cuello de cisne



| No.    | mm  | Zoll | Spannweite |  |  |
|--------|-----|------|------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1304 S | 280 | 11   | 90         | 750                                                                                  | 1                                                                                    |

### Parallel Gripzange

Parallel grip-plier / Pince étaux parallel  
Mordaza Grip, paralela



| No.    | mm  | Zoll | Spannweite |  |  |
|--------|-----|------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1301 S | 250 | 10   | 45         | 570                                                                                 | 1                                                                                   |

### Klammer Gripzange mit Gelenkbacken

C-clamp grip / Grip serre joint / Mordaza Grip, cuello de cisne



| No.    | mm  | Zoll | Spannweite |  |  |
|--------|-----|------|------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1305 S | 280 | 11   | 90         | 760                                                                                   | 1                                                                                     |

### Schweißer Gripzange

welding grip plier / Pince étaux à souder  
Mordaza Grip, horquilla



| No.    | mm  | Zoll | Spannweite |  |  |
|--------|-----|------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1302 S | 280 | 11   | 60         | 830                                                                                 | 1                                                                                   |

### Prisma Gripzange

Universal grip - plier with prism / Pince étaux avec prisme  
Mordaza Grip, con boca prisma



| No.    | mm  | Zoll | Spannweite |  |  |
|--------|-----|------|------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1306 S | 180 | 7    | 30         | 370                                                                                   | 1                                                                                     |
|        | 250 | 10   | 35         | 540                                                                                   | 1                                                                                     |
|        | 300 | 12   | 50         | 930                                                                                   | 1                                                                                     |



**ISOLIERTE WERKZEUGE EN 60900**  
SAFETY TOOLS EN 60900





## Elektriker-Schraubendreher

Electricians screwdriver  
Tournevis pour électriciens  
Destornillador electricista



DIN 7437  
Chrom Vanadium  
Stahl



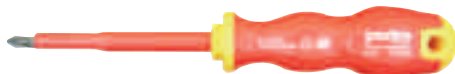
| No. |     |     |     |        |     |    |
|-----|-----|-----|-----|--------|-----|----|
| 490 | 75  | 2,4 | 0,4 | 84x25  | 34  | 10 |
|     | 100 | 3,5 | 0,8 | 105x30 | 58  | 10 |
|     | 125 | 5,5 | 1   | 115x34 | 91  | 10 |
|     | 150 | 6,5 | 1,2 | 126x40 | 122 | 10 |

## Kreuzschlitz-Schraubendreher, "Phillips"

Electricians screwdriver, "Phillips"  
Tournevis pour électriciens, "Phillips"  
Destornillador electricista, "Phillips"



DIN 7437  
Chrom Vanadium  
Stahl



| No. |      |     |     |        |     |    |
|-----|------|-----|-----|--------|-----|----|
| 493 | PH 0 | 60  | 3,5 | 84x25  | 36  | 10 |
|     | PH 1 | 80  | 5   | 105x30 | 60  | 10 |
|     | PH 2 | 100 | 6   | 115x34 | 92  | 10 |
|     | PH 3 | 150 | 8   | 126x40 | 185 | 10 |

## Kreuzschlitz-Schraubendreher, "Pozidrive"

Electricians screwdriver, "Pozidrive"  
Tournevis pour électriciens, "Pozidrive"  
Destornillador electricista, "Pozidrive"



DIN 7437  
Chrom Vanadium  
Stahl



| No. |      |     |     |        |    |    |
|-----|------|-----|-----|--------|----|----|
| 494 | PZ 0 | 60  | 3,5 | 84x25  | 36 | 10 |
|     | PZ 1 | 80  | 5   | 105x30 | 60 | 10 |
|     | PZ 2 | 100 | 6   | 115x34 | 92 | 10 |

## Schraubendrehersätze in umweltfreundlicher Papp-Verpackung

Screwdriver Sets in ecological beneficial carton packing  
Jeux de tournevis en emballage biodégradable  
Juegos de Destornilladores envasados en cajas de cartón ecologico



6-tlg.

| No.   |         |     |           |        |     |   |
|-------|---------|-----|-----------|--------|-----|---|
| 495 P | 490     | 75  | 2,4       | 84x25  | 471 | 1 |
|       | 490     | 100 | 3,5       | 105x30 |     |   |
|       | 490     | 125 | 5,5       | 115x34 |     |   |
|       | 493/494 | 80  | PH 1-PZ 1 | 105x30 |     |   |
|       | 493/494 | 100 | PH 2-PZ 2 | 115x34 |     |   |
|       | 350     | 65  | 3         | 75x15  |     |   |



7-tlg.

| No.   |         |     |           |        |     |   |
|-------|---------|-----|-----------|--------|-----|---|
| 496 P | 490     | 75  | 2,4       | 84x25  | 590 | 1 |
|       | 490     | 100 | 3,5       | 105x30 |     |   |
|       | 490     | 125 | 5,5       | 115x34 |     |   |
|       | 490     | 150 | 6,5       | 126x40 |     |   |
|       | 493/494 | 80  | PH 1-PZ 1 | 105x30 |     |   |
|       | 493/494 | 100 | PH 2-PZ 2 | 115x34 |     |   |
|       | 350     | 65  | 3         | 75x15  |     |   |



## Verkaufsständer mit 55 Schraubendrehern

Display stand with 55 screwdrivers  
Présentoirs 55 tournevis  
Expositor con 55 destornilladores

| No. | Inhalt |     |      |        | Stück |       |   |
|-----|--------|-----|------|--------|-------|-------|---|
| 497 | 490    | 100 | 3,5  | 105x30 | 10    | 6.000 | 1 |
|     | 490    | 125 | 5,5  | 115x34 | 8     |       |   |
|     | 490    | 150 | 6,5  | 126x40 | 7     |       |   |
|     | 493    | 80  | PH1  | 105x30 | 8     |       |   |
|     | 493    | 100 | PH 2 | 115x34 | 7     |       |   |
|     | 494    | 80  | PZ1  | 105x30 | 8     |       |   |
|     | 494    | 100 | PZ 2 | 115x34 | 7     |       |   |
|     | 1920   | 1 x |      |        |       |       |   |
|     | 1921   | 1 x |      |        |       |       |   |
|     | 1922   | 7 x |      |        |       |       |   |

## Elektriker-Schraubendreher

Electricians screwdriver  
Tournevis pour électriciens  
Destornillador electricista



DIN 7437  
ChromVanadium  
Molybdän Stahl



| No. |     |     |     |     |     |    |
|-----|-----|-----|-----|-----|-----|----|
| 130 | 75  | 2,5 | 0,4 | 0,4 | 25  | 10 |
|     | 100 | 3,5 | 0,6 | 0,6 | 50  | 10 |
|     | 100 | 4   | 0,8 | 0,8 | 54  | 10 |
|     | 125 | 5,5 | 1   | 1   | 88  | 10 |
|     | 150 | 6,5 | 1,2 | 1,2 | 140 | 10 |
|     | 175 | 8   | 1,2 | 1,2 | 185 | 10 |
|     | 200 | 10  | 1,6 | 1,6 | 250 | 10 |

## Schraubendrehersätze in umweltfreundlicher Papp-Verpackung

Screwdriver Sets in ecological beneficial carton packing  
Jeux de tournevis en emballage biodégradable  
Juegos de Destornilladores envasados en cajas de cartón ecologico



6-tlg.

| No. | Inhalt Nr. |     | Ø         |     |     |   |
|-----|------------|-----|-----------|-----|-----|---|
| 136 | 130        | 75  | 2,5       | 70  | 471 | 1 |
|     | 130        | 100 | 3,5       | 80  |     |   |
|     | 130        | 125 | 5,5       | 90  |     |   |
|     | 133/134    | 80  | PH 1-PZ 1 | 90  |     |   |
|     | 133/134    | 100 | PH 2-PZ 2 | 100 |     |   |
| 350 | 65         | 3   | 75        |     |     |   |

## Kreuzschlitz-Schraubendreher "Phillips"

Electricians screwdriver "Phillips"  
Tournevis pour électriciens "Phillips"  
Destornillador electricista "Phillips"



DIN 7438  
ChromVanadium  
Molybdän Stahl



| No. |      |  | Ø   |  |  |  |
|-----|------|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 133 | PH 0 | 60                                                                                  | 3,5 | 80                                                                                  | 45                                                                                  | 10                                                                                  |
|     | PH 1 | 80                                                                                  | 5   | 90                                                                                  | 65                                                                                  | 10                                                                                  |
|     | PH 2 | 100                                                                                 | 6   | 100                                                                                 | 95                                                                                  | 10                                                                                  |
|     | PH 3 | 150                                                                                 | 8   | 110                                                                                 | 165                                                                                 | 10                                                                                  |



7-tlg.

| No. | Inhalt Nr. |     | Ø         |     |     |   |
|-----|------------|-----|-----------|-----|-----|---|
| 137 | 130        | 75  | 2,5       | 70  | 590 | 1 |
|     | 130        | 100 | 3,5       | 80  |     |   |
|     | 130        | 125 | 5,5       | 90  |     |   |
|     | 130        | 150 | 6,5       | 100 |     |   |
|     | 133/134    | 80  | PH 1-PZ 1 | 90  |     |   |
|     | 133/134    | 100 | PH 2-PZ 2 | 100 |     |   |
| 350 | 65         | 3   | 75        |     |     |   |

## Kreuzschlitz-Schraubendreher "Pozidrive"

Electricians screwdriver "Pozidrive"  
Tournevis pour électriciens "Pozidrive"  
Destornillador electricista "Pozidrive"



DIN 7438  
ChromVanadium  
Molybdän Stahl



| No. |      |  | Ø   |  |  |  |
|-----|------|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 134 | PZ 0 | 60                                                                                  | 3,5 | 80                                                                                  | 45                                                                                  | 10                                                                                  |
|     | PZ 1 | 80                                                                                  | 5   | 90                                                                                  | 65                                                                                  | 10                                                                                  |
|     | PZ 2 | 100                                                                                 | 6   | 100                                                                                 | 95                                                                                  | 10                                                                                  |
|     | PZ 3 | 150                                                                                 | 8   | 110                                                                                 | 165                                                                                 | 10                                                                                  |





### Wasserpumpenzange mit durchgestecktem Gewerbe

Waterpump plier, box joint  
Pinces multiprises, charnière double  
Alicate corredera doble

DIN ISO 8976



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1269 | 240 | 9.1/2" | 385 | 5 |

### Langbeck-Rundzange

Long round nose pliers  
Pince à becs ronds longs  
Alicate redondo

DIN ISO 5745



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1272 | 160 | 6.1/4" | 130 | 5 |

### Industrie Finish mit 2-Komponenten-Griffen

Industrial Finish with 2-Components-Handles  
Firnish d'industriel avec manche en 2-Composante  
Poligono con 2-Copaniete Plastico

### Radiozange

Chain nose radio pliers  
Pinces pour radio  
Alicate punta con corte

DIN ISO 5745



### Kombizange

Combination Plier / Pinces universelles  
Alicate universal

DIN ISO 5746



| No.  | mm  | Zoll |     |   |
|------|-----|------|-----|---|
| 1270 | 180 | 7"   | 270 | 5 |
|      | 205 | 8"   | 340 | 5 |

### Langbeck-Flachzange

Long flat nose pliers  
Pince à becs plats longs  
Alicate plano

DIN ISO 5745



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1271 | 160 | 6.1/4" | 130 | 5 |

### Radiozange, Spitze abgebogen

Chain nose radio pliers, bent nose  
Pinces pour radio, becs plies  
Alicate pontas curvas

DIN ISO 5745



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1274 | 170 | 6 3/4" | 165 | 5 |
|      | 205 | 8"     | 220 | 5 |

### Seitenschneider

Diagonal cutting nippers  
Pincas coupantes de côté  
Alicate corte diagonal

DIN ISO 5749



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1275 | 145 | 5.3/4" | 190 | 5 |
|      | 160 | 6.1/4" | 220 | 5 |
|      | 180 | 7"     | 280 | 5 |

### Kabelschneider

Cable Cutter  
Pince coupante  
Corta cable

DIN ISO 5745



| No.  | mm  | Zoll   | Schneidleistung    |     |   |
|------|-----|--------|--------------------|-----|---|
| 1278 | 160 | 6.1/4" | 14 mm <sup>2</sup> | 220 | 5 |
|      | 210 | 8.1/4" | 70 mm <sup>2</sup> | 340 |   |

### Kraftseitenschneider

Heavy duty diagonal cutting nippers  
Pincas coupantes de côté  
Alicate corte diagonal, extra fuerte

DIN ISO 5749



| No.  | mm  | Zoll |     |   |
|------|-----|------|-----|---|
| 1276 | 180 | 7"   | 285 | 5 |
|      | 200 | 8"   | 310 | 5 |
|      | 250 | 10"  | 420 | 5 |

### Elektriker Seitenschneider mit 3 Funktionen

Diagonal cutting nippers with 3 functions  
Pincas coupantes avec 3 fonctions  
Corta cable lateral con tres funciones

DIN ISO 5745



| No.  | mm  | Zoll | Schneidleistung |     |   |
|------|-----|------|-----------------|-----|---|
| 1279 | 175 | 7"   |                 | 235 | 5 |

### Abisolierzange

Wire Stripping Pliers / Pince à désisoler avec ressort  
Alicate corta y pelacables

DIN ISO 5745



| No.  | mm  | Zoll   |     |   |
|------|-----|--------|-----|---|
| 1277 | 160 | 6.1/4" | 165 | 5 |



**Isolierte Maulschlüssel**  
**DIN 7446, Chrom Vanadium Stahl,**  
**(DIN 3110) geschmiedet,**  
**Maulstellung 15°**

Isolated open end wrenches, DIN 7446,  
forged from chrome-vanadium-steel  
(DIN 3110), offset 15°

Clé plates à une ouverture isolée, DIN  
7446, Acier Chrome-Vanadium, (DIN 3110),  
position du fourché 15°

Llaves fija de una boca VDE aislada,  
DIN 7446, Acero Chromo-Vanadio,  
(DIN 3110), posición de boca 15°

DIN 7446



**Einringschlüssel**  
**DIN 7447, Chrom-Vanadium-Stahl,**  
**(DIN 838) geschmiedet, tief gekropft**

Ring Spanners, DIN 7447, forged from  
Chrome-Vanadium-Steel (DIN 838) deep cranked  
Cles a oeil multiplan isolee, DIN 7447, Acier  
Chrome-Vanadium (DIN 838), coude profonde  
Llaves polygonales de una boca VDE acodada  
DIN 7447, Acero Chromo-Vanadio (DIN 838),  
mixta profundo

DIN 7447



| No.  | Größe |     |    |
|------|-------|-----|----|
| 1160 | 6     | 32  | 10 |
|      | 7     | 32  | 10 |
|      | 8     | 34  | 10 |
|      | 9     | 38  | 10 |
|      | 10    | 40  | 10 |
|      | 11    | 46  | 10 |
|      | 12    | 54  | 10 |
|      | 13    | 65  | 10 |
|      | 14    | 80  | 10 |
|      | 15    | 92  | 10 |
|      | 16    | 115 | 10 |
|      | 17    | 115 | 10 |
|      | 18    | 115 | 10 |
|      | 19    | 150 | 10 |
|      | 22    | 190 | 10 |
|      | 24    | 300 | 10 |
|      | 27    | 390 | 10 |
|      | 30    | 510 | 10 |
|      | 32    | 550 | 10 |

| No.  | Größe |     |    |
|------|-------|-----|----|
| 1161 | 6     | 46  | 10 |
|      | 7     | 60  | 10 |
|      | 8     | 60  | 10 |
|      | 9     | 60  | 10 |
|      | 10    | 80  | 10 |
|      | 11    | 86  | 10 |
|      | 12    | 100 | 10 |
|      | 13    | 110 | 10 |
|      | 14    | 160 | 10 |
|      | 15    | 170 | 10 |
|      | 16    | 202 | 10 |
|      | 17    | 260 | 10 |
|      | 18    | 290 | 10 |
|      | 19    | 290 | 10 |
|      | 22    | 320 | 10 |
|      | 24    | 490 | 10 |
|      | 27    | 540 | 10 |
|      | 30    | 580 | 10 |
|      | 32    | 590 | 10 |



**Ratschen-Ringschlüssel  
vollisoliert, Chrom-Vanadium-Stahl,  
Drehmoment ISO 3110**

Gear wrench, safety insulated to IEC 60900 specification, Chrom-Vanadium-Steel, Torque tested ISO 3110 / Cle rochet polygonale Isolation totale, Acier Chrome-Vanadium, moment de rotation ISO 3110 / Llaves anular a carraca Aislamiento total, Acero Chromo-Vanadio, par de rotacion ISO 3310



| No.  | Größe |  |  |
|------|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1162 | 8     | r50                                                                               |                                                                                   |
|      | 9     | 52                                                                                |                                                                                   |
|      | 10    | 56                                                                                |                                                                                   |
|      | 11    | 56                                                                                |                                                                                   |
|      | 12    | 68                                                                                |                                                                                   |
|      | 13    | 80                                                                                |                                                                                   |
|      | 14    | 86                                                                                |                                                                                   |
|      | 15    | 120                                                                               |                                                                                   |
|      | 16    | 144                                                                               |                                                                                   |
|      | 17    | 174                                                                               |                                                                                   |
|      | 18    | 200                                                                               |                                                                                   |
|      | 19    | 208                                                                               |                                                                                   |

**Gegenhalter aus 31 CrV3-Stahl**

Counter-Hold spanners from 31 CrV3 Steel  
Contres les titulaires d'Acier CrV3  
Lunetas de Acero 31 CrV3



| No.  | Größe |  |  |
|------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1163 | 10    | 100                                                                                 |                                                                                     |
|      | 12    | 110                                                                                 |                                                                                     |
|      | 13    | 110                                                                                 |                                                                                     |
|      | 14    | 130                                                                                 |                                                                                     |
|      | 15    | 160                                                                                 |                                                                                     |
|      | 16    | 220                                                                                 |                                                                                     |
|      | 17    | 240                                                                                 |                                                                                     |
|      | 18    | 280                                                                                 |                                                                                     |
|      | 19    | 290                                                                                 |                                                                                     |
|      | 20    | 290                                                                                 |                                                                                     |
|      | 22    | 310                                                                                 |                                                                                     |
|      | 24    | 360                                                                                 |                                                                                     |

**Gegenhalter zur besseren Handhabung  
von Schraubverbindern bei der Muffen-  
montage, stufenlos verstellbar,  
auch bei Straßenleuchten einsetzbar, für  
Schraubverbindungen, 0-15 mm Größe**

Counter-Hold-Spanner used for easier assem-  
blance of cables with connectors, stepless  
adjustable, diameter between 0-15 mm, adjustable  
Contres les titulaires / Lunetas



| No.  | Größe |  |  |
|------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1164 | 240   | 280                                                                                 |                                                                                     |

**Gegenhalter zur besseren Handhabung  
von Schraubverbindern bei der Muffen-  
montage, stufenlos verstellbar, auch bei  
Straßenleuchten einsetzbar, für  
Schraubverbindungen, 15-40 mm Größe**

Counter-Hold-Spanner used for easier assem-  
blance, of cables with connectors, stepless,  
adjustable, diameter between 15-40 mm, adjustable  
Contres les titulaires / Lunetas



| No.  | Größe |  |  |
|------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1165 | 220   | 380                                                                                   |                                                                                       |

**Gegenhalter zur besseren Handhabung  
von Schraubverbindern bei der Muffen-  
montage, stufenlos verstellbar, auch bei  
Straßenleuchten einsetzbar, für  
Schraubverbindungen, 25-50 mm Größe**

Counter-Hold-Spanner used for easier assem-  
blance, of cables with connectors, stepless,  
adjustable, diameter between 25-50 mm, adjustable  
Contres les titulaires / Lunetas



| No.  | Größe |  |  |
|------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1166 | 300   | 610                                                                                   |                                                                                       |



**Steckschlüssel-Einsätze 1/4"**  
**DIN 7448, mit 1/4"-Vierkant-Antrieb,**  
**6-kant, aus Chrom-Vanadium-Stahl,**  
**geschmiedet, ölgehärtet, mit**  
**Innenrillen zur Aufnahme von**  
**Feststellvorrichtungen an den**  
**Betätigungswerkzeugen**

6-Point Sockets 1/4" DIN 7448, with 1/4"-  
Square Drive, hexagon, from chrome-  
vanadium-steel, forged, oil-hardened, with in-  
side grooves to accept the fixing devices at  
the operation tools

6-Point-Douilles 1/4" DIN 7448, excitation  
isolée, 1/4" carré-commande, Acier Chrome-  
Vanadium

6-Punto-Vasos 1/4" DIN 7448, guía aislado,  
1/4" cuadrado-mando, Acero Chromo-Vanadio



DIN 7448



**Steckschlüssel-Einsätze 3/8"**  
**DIN 7448, mit 3/8"-Vierkant-Antrieb,**  
**12-kant, aus Chrom-Vanadium-Stahl,**  
**geschmiedet, ölgehärtet, mit**  
**Innenrillen zur Aufnahme von**  
**Feststellvorrichtungen an den**  
**Betätigungswerkzeugen**

12-Point Sockets 3/8" DIN 7448, with 3/8"-  
Square Drive, bi-hex., from chrome-vanadium-  
steel, forged, oil-hardened, with inside grooves  
to accept the fixing devices at the operation tools  
12-Point-Douilles 3/8" DIN 7448, excitation  
isolée, 3/8" carré-commande, Acier Chrome-  
Vanadium

12-Punto-Vasos 3/8" Acero Chromo-Vanadio



DIN 7448



| No.  | Größe |    |    |
|------|-------|----|----|
| 1140 | 4     | 12 | 10 |
|      | 5     | 12 | 10 |
|      | 6     | 12 | 10 |
|      | 7     | 15 | 10 |
|      | 8     | 15 | 10 |
|      | 9     | 16 | 10 |
|      | 10    | 18 | 10 |
|      | 11    | 18 | 10 |
|      | 12    | 24 | 10 |
|      | 13    | 26 | 10 |
|      | 14    | 29 | 10 |

| No.  | Größe |    |    |
|------|-------|----|----|
| 1141 | 6     | 30 | 10 |
|      | 7     | 30 | 10 |
|      | 8     | 30 | 10 |
|      | 9     | 35 | 10 |
|      | 10    | 35 | 10 |
|      | 11    | 35 | 10 |
|      | 12    | 40 | 10 |
|      | 13    | 40 | 10 |
|      | 14    | 40 | 10 |
|      | 15    | 45 | 10 |
|      | 16    | 45 | 10 |
|      | 17    | 50 | 10 |
|      | 18    | 50 | 10 |
|      | 19    | 60 | 10 |
|      | 20    | 60 | 10 |
|      | 21    | 60 | 10 |
|      | 22    | 60 | 10 |
|      | 23    | 65 | 10 |
|      | 24    | 70 | 10 |



**Steckschlüssel-Einsätze 3/8"**  
**DIN 7448, mit 3/8"-Vierkant-Antrieb,**  
**12-kant, aus Chrom-Vanadium-Stahl,**  
**geschmiedet, ölgehärtet, mit**  
**Innenrillen zur Aufnahme von**  
**Feststellvorrichtungen an den**  
**Betätigungswerkzeugen**

12-Point-Sockets 3/8" DIN 7448, with 3/8"-  
Square Drive, bi-hexagon, from chrome-  
vanadium-steel, forged, oil-hardened, with  
inside grooves to accept the fixing devices at  
the operation tools / 12-Point-Douilles 3/8"  
DIN 7448, excitation isolée, 3/8" carré-com-  
mande, Acier Chrome-Vanadium / 12-Punto-  
Vasos 3/8" DIN 7448, guía aislado, 3/8"  
cuadrado-mando, Acero Chromo-Vanadio



DIN 7448



**Steckschlüssel-Einsätze (lang) 3/8"**  
**DIN 7448, mit 3/8"-Vierkant-Antrieb,**  
**12-kant-Schlüsselweiten, aus**  
**Chrom-Vanadium-Stahl, geschmiedet,**  
**ölgehärtet, mit Innenrillen zur Auf-**  
**nahme von Feststellvorrichtungen an**  
**den Betätigungswerkzeugen,**  
**Länge 55-65 mm**

Sockets (long) 3/8", DIN 7448, with 3/8"-  
Square Drive, bi-hex.key width, from chrome-  
vanadium-steel, forged, oil-hardened, with inside  
grooves to accept the fixing devices at the  
operation tools, length 55-65 mm / Douilles  
(longues) 3/8", DIN 7448, 3/8" carre, bi-hexagon,  
Acier Chrome-Vanadium / Vasos (largos) 3/8",  
DIN 7448, 3/8" mando cuadrado, bi-hexagono  
Acero Chrom-Vanadio, guía aislado



DIN 7448



| No.     | Zoll   |    |    |
|---------|--------|----|----|
| 1141 AF | 1/4"   | 30 | 10 |
|         | 5/16"  | 30 | 10 |
|         | 3/8"   | 35 | 10 |
|         | 7/16"  | 35 | 10 |
|         | 1/2"   | 40 | 10 |
|         | 9/16"  | 40 | 10 |
|         | 5/8"   | 45 | 10 |
|         | 11/16" | 50 | 10 |
|         | 3/4"   | 60 | 10 |
|         | 13/16" | 60 | 10 |
|         | 7/8"   | 60 | 10 |
|         | 15/16" | 65 | 10 |

| No.  | Größe |     |    |
|------|-------|-----|----|
| 1142 | 10    | 60  | 10 |
|      | 11    | 60  | 10 |
|      | 12    | 70  | 10 |
|      | 13    | 70  | 10 |
|      | 14    | 80  | 10 |
|      | 15    | 80  | 10 |
|      | 16    | 110 | 10 |
|      | 17    | 110 | 10 |
|      | 18    | 145 | 10 |
|      | 19    | 180 | 10 |
|      | 22    | 180 | 10 |
|      | 24    | 185 | 10 |

**Steckschlüssel-Einsätze**  
**(extra-lang) 3/8" mit 3/8"-Vierkant-**  
**Antrieb, 12-kant, Länge ca. 125 mm**

Deep Sockets (extra-long) 3/8" with 3/8"-  
Square Drive, bi-hex., length approx. 125 mm  
Douilles (extra-longue) 3/8", 3/8" carre,  
bi-hexagon, longueur approche 125 mm  
Vasos (extra-largos) 3/8, 3/8" mando cua-  
drado, bi-hexagono, longitut aprox. 125 mm



| No.  | Größe |     |    |
|------|-------|-----|----|
| 1143 | 10    | 180 | 10 |
|      | 11    | 185 | 10 |
|      | 12    | 200 | 10 |
|      | 13    | 210 | 10 |
|      | 14    | 220 | 10 |
|      | 17    | 240 | 10 |
|      | 19    | 260 | 10 |
|      | 22    | 280 | 10 |

**Steckschlüssel-Einsätze 1/2"**  
**DIN 7448, mit 1/2"-Vierkant-Antrieb,**  
**6-kant-Schlüsselweite, aus Chrom-**  
**Vanadium-Stahl, geschmiedet,**  
**ölgehärtet, mit Innenrillen zur**  
**Aufnahme von Feststellvorrichtungen**  
**an den Betätigungswerkzeugen**

6-Point Sockets 1/2" DIN 7448, with 1/2"-  
Square Drive, hexagon, from chrome-vana-  
dium-steel, forged, oil-hardened, with inside  
grooves to accept the fixing devices at the  
operation tools

6-Point-Douilles 1/2" DIN 7448, excitation  
isolée, 1/2" carré-commande, Acier Chrome-  
Vanadium / 6-Punto-Vasos 1/2" DIN 7448,  
guia aislado, 1/2" cuadrado-mando, Acero  
Chromo-Vanadio



DIN 7448



**Steckschlüssel-Einsätze 1/2"**  
**DIN 7448, mit 1/2"-Vierkant-Antrieb,**  
**12-kant Schlüsselweite AF, aus**  
**Chrom-Vanadium geschmiedet,**  
**mit Innenrillen zur Aufnahme von**  
**Feststellvorrichtungen an den**  
**Betätigungswerkzeugen**

Sockets 1/2" DIN ISO 7448, 12-point socket AF,  
1/2 Square Drive, Chrom-Vanadium-Steel, with  
inside grooves to accept the fixing devices at  
the operation tools

Douilles 1/2" DIN ISO 7448, 12-point douille AF,  
1/2" carre, Acier Chrom-Vanadium, excitation  
isolee

Vasos 1/2" DIN ISO 7448, 12-punto vaso AF, 1/2"  
mando cuadrado, Acero Chromo-Vanadio, guia  
aislado



DIN 7448



| No.  | Größe |     |    |
|------|-------|-----|----|
| 1167 | 8     | 65  | 10 |
|      | 9     | 65  | 10 |
|      | 10    | 70  | 10 |
|      | 11    | 75  | 10 |
|      | 12    | 75  | 10 |
|      | 13    | 75  | 10 |
|      | 14    | 80  | 10 |
|      | 15    | 80  | 10 |
|      | 16    | 85  | 10 |
|      | 17    | 90  | 10 |
|      | 18    | 85  | 10 |
|      | 19    | 100 | 10 |
|      | 20    | 100 | 10 |
|      | 21    | 120 | 10 |
|      | 22    | 120 | 10 |
|      | 23    | 125 | 10 |
|      | 24    | 140 | 10 |
|      | 26    | 175 | 10 |
|      | 27    | 195 | 10 |
|      | 28    | 190 | 10 |
|      | 30    | 230 | 10 |
|      | 32    | 280 | 10 |

| No.     | Zoll  |     |    |
|---------|-------|-----|----|
| 1167 AF | 5/16  | 70  | 10 |
|         | 3/8   | 70  | 10 |
|         | 7/16  | 75  | 10 |
|         | 15/32 | 75  | 10 |
|         | 1/2   | 75  | 10 |
|         | 9/16  | 80  | 10 |
|         | 5/8   | 85  | 10 |
|         | 11/16 | 90  | 10 |
|         | 25/32 | 85  | 10 |
|         | 3/4   | 100 | 10 |
|         | 7/8   | 120 | 10 |
|         | 15/16 | 140 | 10 |
|         | 1     | 175 | 10 |
|         | 1.1/8 | 190 | 10 |
|         | 1.1/4 | 280 | 10 |

**Steckschlüssel-Einsätze (lang) 1/2"**  
**DIN 7448, mit 1/2"-Vierkant-Antrieb,**  
**6-kant-Schlüsselweiten, aus Chrom-**  
**Vanadium-Stahl, geschmiedet,**  
**ölgehartet, mit Innenrillen zur Auf-**  
**nahme von Feststellvorrichtungen an**  
**den Betätigungswerkzeugen,**  
**Länge 80 mm**

Sockets (long) 1/2", DIN 7448, with 1/2"-Square Drive, hex.key width, from chrome-vanadium-steel, forged, oil-hardened, with inside grooves to accept the fixing devices at the operation tools, length 80 mm

Douilles (longues) 1/2", DIN 7448, 1/2" carre, hexagon, Acier Chrome-Vanadium

Vasos (largos) 1/2", DIN 7448, 1/2" mando cuadrado, hexagono Acero Chrom-Vanadio



DIN 7448



| No.  | Größe | g   | kg |
|------|-------|-----|----|
| 1144 | 8     | 105 | 10 |
|      | 10    | 110 | 10 |
|      | 11    | 130 | 10 |
|      | 12    | 145 | 10 |
|      | 13    | 145 | 10 |
|      | 14    | 145 | 10 |
|      | 15    | 145 | 10 |
|      | 16    | 160 | 10 |
|      | 17    | 180 | 10 |
|      | 18    | 190 | 10 |
|      | 19    | 210 | 10 |
|      | 21    | 215 | 10 |
|      | 22    | 230 | 10 |
|      | 23    | 235 | 10 |
|      | 24    | 250 | 10 |
|      | 27    | 390 | 10 |
|      | 30    | 420 | 10 |
|      | 32    | 460 | 10 |

**Steckschlüssel-Einsätze 3/4"**  
**DIN 3124, mit 3/4"-Vierkant-Antrieb,**  
**Chrom-Vanadium-Stahl**

6-Point-Sockets (long) 3/4", DIN 3124, 3/4" female drive, Chrom-Vanadium-Steel

Douilles (longues) 3/4", DIN 3124, 6-point douille mm, 3/4" carre, Acier Chrom-Vanadium

Vasos (largos) 3/4", DIN 3124, 6-punto vaso, 3/4" mando cuadrado, Acero Chrom-Vanadio, guía aislado



DIN 3124



| No.  | Größe | g   | kg |
|------|-------|-----|----|
| 1145 | 19    | 200 | 5  |
|      | 21    | 210 | 5  |
|      | 22    | 230 | 5  |
|      | 24    | 230 | 5  |
|      | 26    | 240 | 5  |
|      | 27    | 270 | 5  |
|      | 28    | 290 | 5  |
|      | 30    | 310 | 5  |
|      | 32    | 320 | 5  |
|      | 36    | 460 | 5  |
|      | 38    | 500 | 5  |
|      | 41    | 540 | 5  |
|      | 46    | 630 | 5  |
|      | 50    | 750 | 5  |
|      | 55    | 860 | 5  |
|      | 60    | 910 | 5  |

**Steckschlüssel-Einsätze (extra-**  
**lang) 1/2" mit 1/2"-Vierkant-**  
**Antrieb, 6-kant, Länge ca. 125 mm**

Deep Sockets (extra long) 1/2" with 1/2"-Square Drive, hex., length approx. 125 mm / Douilles (extra-longue) 1/2"1/2 carre, hexagon, longueur approche 125 mm / Vasos (extra-largos) 1/2", 1/2 mando cuadrado, hexagono, longitud aprox. 125 mm



| No.  | Größe | g   | kg |
|------|-------|-----|----|
| 1146 | 13    | 250 | 5  |
|      | 14    | 260 | 5  |
|      | 17    | 280 | 5  |
|      | 19    | 295 | 5  |
|      | 22    | 310 | 5  |
|      | 24    | 330 | 5  |
|      | 27    | 350 | 5  |
|      | 30    | 380 | 5  |
|      | 32    | 410 | 5  |



### T-Steckschlüssel

**DIN 7440, aus Präzisions-Stahlrohr, gehärtet, Innen-Sechskant, warm gestaut, zur Aufnahme besonders langer Gewindebolzen**

T-handle Socket Wrenches, DIN 7440, from precision steel tube, hardened, hex., heat-treated, from extremely long threaded bolts  
T-manche, DIN 7440, isolee, hexagon  
Llave con mango en forma de T, DIN 7440, hexagono

DIN 7440



**Einsatz für Innensechskant-Schrauben 1/4" aus Chrom-Vanadium-Stahl, geschmiedet, völgelärtet, mit Innenrillen zur Aufnahme der Feststellvorrichtungen an den Antriebswerkzeugen, Antrieb 1/4" Vierkant**

Hexagon Sockets 1/4" from chrome vanadium steel, forged oil-hardened, with insidegrooves to accept fixing devices at the driving tools, 1/4" Square Drive  
Douilles isolée 1/4" avec hexagone, 1/4" excitation  
Vaso aislado con hexagono, 1/4" guia



| No.  |          |     |   |
|------|----------|-----|---|
| 1150 | 10 x 200 | 320 | 1 |
|      | 11 x 200 | 380 | 1 |
|      | 12 x 200 | 370 | 1 |
|      | 13 x 200 | 370 | 1 |
|      | 14 x 200 | 370 | 1 |
|      | 16 x 200 | 420 | 1 |
|      | 17 x 200 | 430 | 1 |
|      | 18 x 200 | 460 | 1 |
|      | 19 x 200 | 440 | 1 |
|      | 20 x 200 | 500 | 1 |
|      | 22 x 200 | 570 | 1 |
|      | 24 x 200 | 590 | 1 |
|      | 8 x 300  | 350 | 1 |
|      | 10 x 300 | 380 | 1 |
|      | 11 x 300 | 430 | 1 |
|      | 12 x 300 | 430 | 1 |
|      | 13 x 300 | 420 | 1 |
|      | 14 x 300 | 440 | 1 |
|      | 17 x 300 | 520 | 1 |
|      | 19 x 300 | 590 | 1 |
|      | 22 x 300 | 690 | 1 |
|      | 24 x 300 | 780 | 1 |

| No.  | Größe |    |    |
|------|-------|----|----|
| 1147 | 3     | 13 | 10 |
|      | 4     | 13 | 10 |
|      | 5     | 14 | 10 |
|      | 6     | 15 | 10 |
|      | 8     | 19 | 10 |

### VDE- Elektriker Koffer, leer

Eletrican's bag, empty  
Coffre pour électriciens, vide  
Maleta electricistas, vacia



| No.  | Größe       |      |   |
|------|-------------|------|---|
| 1715 | 430x360x180 | 3750 | 1 |

**Einsätze für Innensechskant-Schrauben 3/8" aus Chrom-Vanadium-Stahl, geschmiedet, ölgehärtet, mit Innenrillen zur Aufnahme der Feststellvorrichtungen an den Antriebswerkzeugen, Antrieb 3/8" Vierkant**

Hexagon Sockets 3/8" from chrome-vanadium-steel, forged, oil-hardened, with inside grooves to accept fixing devices at the driving tools, 3/8" Square Drive  
Douilles isolée 3/8" avec hexagone, 1/4" excitation  
Vasos aislados con hexagono, 3/8" guía



AC 1000 V  
EN 60900

**Einsätze für Innensechskant-Schrauben aus Chrom-Vanadium-Stahl, geschmiedet, ölgehärtet, mit Innenrillen zur Aufnahme der Feststellvorrichtungen an den Antriebswerkzeugen, Antrieb 1/2" Vierkant**

Hexagon Sockets from chrome-vanadium-steel, forged, oil-hardened, with inside grooves to accept fixing devices at the driving tools, 1/2" Square drive  
Douilles Hexagone Acier Chrome-Vanadium, 1/2" carré  
Vasos aislados Hexagona Acero Chromo-vVanadio, 1/2" cuadrado



AC 1000 V  
EN 60900



| No.  | Größe    |     |    |
|------|----------|-----|----|
| 1148 | 4 x 65   | 45  | 10 |
|      | 5 x 65   | 50  | 10 |
|      | 6 x 65   | 50  | 10 |
|      | 8 x 65   | 65  | 10 |
|      | 10 x 65  | 80  | 10 |
|      | 12 x 65  | 85  | 10 |
|      | 4 x 100  | 70  | 10 |
|      | 5 x 100  | 75  | 10 |
|      | 6 x 100  | 76  | 10 |
|      | 8 x 100  | 75  | 10 |
|      | 10 x 100 | 80  | 10 |
|      | 12 x 100 | 85  | 10 |
|      | 5 x 140  | 100 | 10 |
|      | 6 x 140  | 100 | 10 |
|      | 5 x 250  | 115 | 10 |
|      | 6 x 250  | 120 | 10 |
|      | 8 x 250  | 140 | 10 |
|      | 10 x 250 | 170 | 10 |

Kurze Ausführung / extra short version

| No.  | Größe  |    |    |
|------|--------|----|----|
| 1149 | 4 x 45 | 40 | 10 |
|      | 5 x 45 | 40 | 10 |
|      | 6 x 45 | 40 | 10 |
|      | 8 x 45 | 40 | 10 |

| No.  | Größe   |     |    |
|------|---------|-----|----|
| 1171 | 4 x 70  | 80  | 10 |
|      | 5 x 70  | 80  | 10 |
|      | 6 x 70  | 85  | 10 |
|      | 8 x 70  | 95  | 10 |
|      | 10 x 70 | 105 | 10 |
|      | 12 x 70 | 125 | 10 |
|      | 14 x 70 | 170 | 10 |
|      | 17 x 70 | 185 | 10 |
|      | 19 x 70 | 195 | 10 |

| No.  | Größe    |     |    |
|------|----------|-----|----|
| 1171 | 4 x 100  | 95  | 10 |
|      | 5 x 100  | 100 | 10 |
|      | 6 x 100  | 100 | 10 |
|      | 8 x 100  | 110 | 10 |
|      | 10 x 100 | 110 | 10 |
|      | 12 x 100 | 160 | 10 |

| No.  | Größe    |     |    |
|------|----------|-----|----|
| 1171 | 5 x 140  | 110 | 10 |
|      | 6 x 140  | 110 | 10 |
|      | 5 x 250  | 125 | 10 |
|      | 6 x 250  | 145 | 10 |
|      | 8 x 250  | 155 | 10 |
|      | 10 x 250 | 190 | 10 |

### Einsätze für PZ-FL-Schrauben Chrom-Vanadium-Stahl, Antrieb 3/8", zum Festziehen von PZ-FL-Schrauben, z.B. mit Dreh- momentschlüssel

Sockets for PZ-FL Screws Chrom-Vanadium-Steel 3/8" female drive, for tightening PZ-FL Screws, for example with torque wrench  
Douilles pour PZ-FL Vis Acier Chrome-Vanadium, 3/8" commande  
Vasos aislados para PZ-FL Tornillos Acero Chromo-Vanadio, 3/8" mando



| No.  | Größe |    |    |
|------|-------|----|----|
| 1153 | 1     | 60 | 10 |
|      | 2     | 65 | 10 |
|      | 3     | 70 | 10 |

### Isolierte Verlängerungen 1/4"-3/8"-1/2"-Antrieb

Isolated extension bar 1/4"-3/8"-1/2"-drive  
Allonges isolé 1/4"-3/8"-1/2"excitation  
Barra prolongacion aislada 1/4"-3/8"-1/2" guia



| No.  | Zoll | Länge |     |    |
|------|------|-------|-----|----|
| 1168 | 1/4" | 50    | 40  | 10 |
|      | 1/4" | 75    | 45  | 10 |
|      | 1/4" | 100   | 56  | 10 |
|      | 1/4" | 150   | 68  | 10 |
|      | 3/8" | 125   | 140 | 10 |
|      | 3/8" | 250   | 280 | 10 |
|      | 1/2" | 125   | 200 | 10 |
|      | 1/2" | 250   | 250 | 10 |

### Isolierte T-Griff 1/4"-3/8"-1/2"-Antrieb

Isolated T-handle 1/4"-3/8"-1/2"-drive  
T-manche isolée 1/4"-3/8"-1/2"excitation  
Llave con mango en forma de T, 1/4"-3/8"-1/2" guia



### Quergriff-Schraubendreher - massiv für Innensechskant-Schrauben, aus 50CrV4-Stahl, ölgehärtet

Hexagon Screwdrivers with T-Shaped Handle for hexagon screws, from 50 CrV4-Stahl, oil-hardened

Clés males isolées 6 pans avec T-Manches pour vis hexagones

Llaves allen hexagonal aislada con mango T para tornillos hexagonos



| No.  | Größe    |     |   |
|------|----------|-----|---|
| 1154 | 3 x 120  | 80  | 5 |
|      | 4 x 120  | 85  | 5 |
|      | 4 x 160  | 145 | 5 |
|      | 4 x 200  | 150 | 5 |
|      | 4 x 250  | 186 | 5 |
|      | 5 x 120  | 85  | 5 |
|      | 5 x 160  | 250 | 5 |
|      | 5 x 200  | 150 | 5 |
|      | 5 x 250  | 168 | 5 |
|      | 6 x 120  | 110 | 5 |
|      | 6 x 160  | 250 | 5 |
|      | 6 x 200  | 150 | 5 |
|      | 6 x 250  | 168 | 5 |
|      | 8 x 160  | 260 | 5 |
|      | 8 x 200  | 325 | 5 |
|      | 8 x 250  | 360 | 5 |
|      | 10 x 200 | 390 | 5 |
|      | 10 x 250 | 420 | 5 |
|      | 10 x 300 | 450 | 5 |
|      | 11 x 200 | 400 | 5 |
|      | 12 x 200 | 420 | 5 |
|      | 13 x 200 | 450 | 5 |
|      | 14 x 200 | 490 | 5 |
|      | 17 x 200 | 640 | 5 |

| No.  | Zoll | Länge |     |   |
|------|------|-------|-----|---|
| 1169 | 1/4" | 160   | 115 | 1 |
|      | 3/8" | 200   | 350 | 1 |
|      | 1/2" | 200   | 480 | 1 |

### Isolierte Umschaltknarre 1/4"-3/8"-1/2"-Antrieb

Isolated reversible ratchet  
1/4"-3/8"-1/2"-drive  
Cliquet interchangeable isolée  
1/4"-3/8"-1/2" excitation  
Carraca reversible aislada  
1/4"-3/8"-1/2" guía

DIN 7436



| No.  | Zoll | Länge |     |   |
|------|------|-------|-----|---|
| 1170 | 1/4" | 190   | 350 | 5 |
|      | 3/8" | 190   | 350 | 5 |
|      | 1/2" | 260   | 660 | 5 |

### Isolierter Drehmomentschlüssel 1/4"-3/8"-1/2"-Antrieb

Isolated Torque Wrench, 1/4"-3/8"-1/2"-drive  
Clé dynamométrique, 1/4"-3/8"-1/2"  
Llaves dinamométricas, 1/4"-3/8"-1/2" guía



| No.  | Antrieb | Drehmomentbereich | Länge |      |   |
|------|---------|-------------------|-------|------|---|
| 1178 | 1/4"    | 2-12 Nm           |       | 400  | 1 |
|      | 1/4"    | 5-25 Nm           |       | 420  | 1 |
|      | 3/8"    | 5-25 Nm           |       | 920  | 1 |
|      | 1/2"    | 5-50 Nm           |       | 1100 | 1 |
|      | 1/2"    | 20-100 Nm         |       | 1200 | 1 |
|      | 1/2"    | 40-220 Nm         |       | 1300 | 1 |

### Isolierte Steckschlüsselschraubendreher

Isolated Socket Screwdriver  
Clé à douilles emmanchées  
Destornillador aislado para vaso



DIN 7445



| No.  |    | Länge |     |    |
|------|----|-------|-----|----|
| 1172 | 5  | 220   | 58  | 10 |
|      | 6  | 220   | 66  | 10 |
|      | 7  | 220   | 88  | 10 |
|      | 8  | 220   | 98  | 10 |
|      | 9  | 220   | 98  | 10 |
|      | 10 | 220   | 104 | 10 |
|      | 11 | 220   | 150 | 10 |
|      | 13 | 220   | 165 | 10 |

### Isolierte Kabelschneider, bis 20 mm Durchmesser

Isolated Cable Cutetr, caput to 20 mm  
Coupe Câbles pour câble multifibres  
Cortador de cable aislado, hasta 20 mm



| No.  | Länge |  |   |
|------|-------|--|---|
| 1173 | 200   |  | 1 |

### Isoliertes Kabelmesser

Cable Knife  
Couteau pour câbles  
Navaja electricista aislada con cuchilla derecha



| No.  | Länge |    |    |
|------|-------|----|----|
| 1174 | 180   | 60 | 10 |

### Isoliertes Kabelmesser

Cable Knife  
Couteau pour câbles  
Navaja electricista aislada con cuchilla derecha



| No.    | Länge |    |    |
|--------|-------|----|----|
| 1174 R | 180   | 60 | 10 |

### Isoliertes Kabelmesser

Cable Knife  
Couteau pour câbles  
Navaja electricista aislada con cuchilla derecha



| No.  | Länge |    |    |
|------|-------|----|----|
| 1175 | 180   | 60 | 10 |



### Isolierter Sägebogen, Blatt auswechselbar

Isolated saw frame / Archet de scies

Arco de sierra aislada, Hoja puede cambiar



| No.  | Länge |     |   |
|------|-------|-----|---|
| 1176 | 150   | 180 | 5 |

### Isolierter Sägebogen, Blatt auswechselbar

Isolated saw frame / Archet de scies

Arco de sierra aislada, Hoja puede cambiar



| No.  | Länge |     |   |
|------|-------|-----|---|
| 1177 | 300   | 640 | 1 |

### Kabelschere

Schneidkopf geschmiedet aus Vanadiumstahl, geringer Kraftaufwand und leichter, sauberer Schnitt durch neue Schneidengeometrie, nachstellbares Schraubgelenk, für quetschenfreies Schneiden von Cu- und Al-Kabeln bis 150 mm<sup>2</sup>, Öffnungsweite ø 27 mm, nicht für Stahldraht und hartgezogenen Kupferleiter geeignet

Cable Cutters, from alloyed steel, induction-hardened and chromium-plated cutting edges, opening width 27 mm



| No.  | Länge |      |   |
|------|-------|------|---|
| 1155 | 500   | 1480 | 1 |

### Isolierter Werkzeugsatz im Koffer, 12-tlg.

Set of isolated tools, in portable box, 12 pcs.

Jeu d'outils en boîte de plastique, 12 pcs.

Juego de herramientas aisladas, en maletas, 12 pza.



| No.  | Inhalt            |         |  |  |
|------|-------------------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1183 | 130               | 100x4   | 2720                                                                                | 1                                                                                   |
|      | 130               | 150x6,5 |                                                                                     |                                                                                     |
|      | 133               | 0x60    |                                                                                     |                                                                                     |
|      | 133               | 1x80    |                                                                                     |                                                                                     |
|      | 133               | 2x100   |                                                                                     |                                                                                     |
|      | 355               | 150 mm  |                                                                                     |                                                                                     |
|      | 1174              | 180 mm  |                                                                                     |                                                                                     |
|      | 1270              | 180 mm  |                                                                                     |                                                                                     |
|      | 1273              | 205 mm  |                                                                                     |                                                                                     |
|      | 1275              | 160 mm  |                                                                                     |                                                                                     |
|      | 1277              | 160 mm  |                                                                                     |                                                                                     |
|      | T-Inbus Schlüssel | 5 mm    |                                                                                     |                                                                                     |

### Bolzenschneider

mit Stahlrohrschenkel und Externachstellung, Kopf aus Spezialstahl vergütet, induktivgehärtet, austauschbarer Kopf, schneidet bis zu 11 mm

Bolt Cutters, head from special steel, induction hardened, replaceable head, cuts up to 11 mm



| No.  | Länge |      |   |
|------|-------|------|---|
| 1156 | 610   | 2700 | 1 |

### Isolierter Werkzeugsatz im Koffer, 32-tlg.

Set of isolated tools, in portable box, 32 pcs.

Jeu d'outils en boîte de plastique, 32 pcs.

Juego de herramientas aisladas, en maletas, 32 pza.



| No.  | Inhalt |                      |      |   |
|------|--------|----------------------|------|---|
| 1184 | 130    | 75x2,5               | 7920 | 1 |
|      | 130    | 100x4                |      |   |
|      | 130    | 125x5,5              |      |   |
|      | 130    | 125x6,5              |      |   |
|      | 133    | 1x80                 |      |   |
|      | 133    | 2x100                |      |   |
|      | 1172   | 6,7,8,10,13 mm       |      |   |
|      | 1170   | 260 mm               |      |   |
|      | 1168   | 125-250 mm           |      |   |
|      | 1167   | 10,11,12,13,14,17,19 |      |   |
|      | 1160   | 10,11,12,13,14,17,19 |      |   |
|      | 1270   | 180 mm               |      |   |
|      | 1273   | 205 mm               |      |   |
|      | 1275   | 160 mm               |      |   |
|      | 1278   | 160 mm               |      |   |
|      | 1715   | 430x360x180 mm       |      |   |

### Kreuzschlüssel mit 4 Schlüsselweiten

Cross wrenches with 4 wrench size

Clés de croix avec 4 Largeurs / Llaves de cruz con 4 anchuras



| No.  | Länge       |     |   |
|------|-------------|-----|---|
| 1185 | 10-11-12-13 | 480 | 1 |
|      | 10-11-13-17 | 480 | 1 |
|      | 10-11-14-17 | 480 | 1 |
|      | 10-12-14-17 | 480 | 1 |
|      | 10-13-14-17 | 480 | 1 |
|      | 11-12-13-17 | 480 | 1 |
|      | 11-13-14-17 | 480 | 1 |
|      | 13-17-19-22 | 480 | 1 |
|      | 14-17-19-22 | 480 | 1 |

### Montage Pinzette gerade

Tweezers for montage, straight

Pinces pour montage, droit

Pinzas de montaje, derecho



| No.  | Länge |    |    |
|------|-------|----|----|
| 1186 | 150   | 60 | 10 |

### Montage Pinzette abgewinkelt

Tweezers for montage, bended

Pinces pour montage, angle

Pinzas pour montage, ángulada



| No.  | Länge |    |    |
|------|-------|----|----|
| 1187 | 150   | 60 | 10 |

### Kabelmesser für Kabel von ø 4-28 mm<sup>2</sup>

Kable Knife from ø 4-28 mm<sup>2</sup> / Couteau de câble de ø 4-28 mm<sup>2</sup>

Navaja electricista, para cable ø 4-28 mm<sup>2</sup>



| No.  | Länge |    |    |
|------|-------|----|----|
| 1188 |       | 80 | 10 |

### Abisolierzange, automatisch für Kabel von 0,2-6 mm

Wire stripping plier, automatic for wire 0,2-6 mm

Pince à de isolé automatique pour cable de 0,2-6 mm

Alicate corta y pela cables automatico para cable 0,2-6 mm



| No.  | Inhalt |     |   |
|------|--------|-----|---|
| 1189 |        | 100 | 5 |

### Kabelmesser

Cable knife / Couteau de cable / Navaja electricista



| No.  | Länge | Zoll |    |    |
|------|-------|------|----|----|
| 1499 | 195   |      | 80 | 10 |







**AUTOMOBILWERKZEUGE**  
CAR TOOLS

**06**



### Universal Abzieher, als Außen- und Innenabzieher verwendbar

Universal Puller, for inside and outside application  
Arracheurs universels, à prise intérieure et extérieure  
Extractor Universal, para interior exterior



| No. | Spannweite mm | Spanntiefe mm |  |  |
|-----|---------------|---------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 870 | 15-85         | 100           | 1200                                                                              | 1                                                                                 |
|     | 15-125        | 100           | 2000                                                                              | 1                                                                                 |
|     | 20-160        | 150           | 3500                                                                              | 1                                                                                 |
|     | 20-200        | 150           | 6000                                                                              | 1                                                                                 |
|     | 40-250        | 200           | 7500                                                                              | 1                                                                                 |
|     | 40-350        | 200           | 8000                                                                              | 1                                                                                 |
|     | 40-530        | 200           | 11000                                                                             | 1                                                                                 |

### Universal Abzieher, als Außen- und Innenabzieher verwendbar

Universal Puller, for inside and outside application  
Arracheurs universels, à prise intérieure et extérieure  
Extractor Universal, para interior exterior



| No. | Spannweite mm | Spanntiefe mm |  |  |
|-----|---------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 871 | 25-80         | 100           | 1000                                                                                | 1                                                                                   |
|     | 25-130        | 100           | 1200                                                                                | 1                                                                                   |
|     | 50-160        | 150           | 3000                                                                                | 1                                                                                   |
|     | 60-200        | 150           | 3200                                                                                | 1                                                                                   |
|     | 80-250        | 200           | 7000                                                                                | 1                                                                                   |
|     | 80-350        | 200           | 8000                                                                                | 1                                                                                   |
|     | 110-520       | 200           | 14000                                                                               | 1                                                                                   |
|     | 170-640       | 225           | 23500                                                                               | 1                                                                                   |

### Innenauszieher zum Ausziehen von Kugellagern, Büchsen

Inside puller for bearings / Arracheurs universels, à prise  
intérieure pour roulement à billes et boîte  
Rodamiento Extractor Universal, para interior



| No.   | Für Haken           |  |  |
|-------|---------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 872-1 | 873-1/873-2         | 200                                                                                 | 1                                                                                   |
| 872-2 | 873-3,/873-4,/873-5 | 300                                                                                 | 1                                                                                   |
| 872-3 | 873-4,/873-5,/873-6 | 400                                                                                 | 1                                                                                   |
| 872-4 | 873-5,/873-7,/873-8 | 700                                                                                 | 1                                                                                   |
| 872-5 | 873-5,/873-6,/873-8 | 1100                                                                                | 1                                                                                   |

### Abzugshaken, zu Art.-No. 872, 1 Satz entspricht 4 Stück

Hooks for Art.-No. 872, 1 Set is 4 pieces  
Crochet pour Art.-No. 872, 1 Serie avec 4 pièce  
Gancho para el Art.-No. 872, 1 juego tiene 4 piezas



| No.   | L-mm | Für Abzieher |  |  |
|-------|------|--------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 873-1 | 140  | 872-1        | 100                                                                                   | 1                                                                                     |
| 873-2 | 145  | 872-1        | 100                                                                                   | 1                                                                                     |
| 873-3 | 175  | 872-2        | 200                                                                                   | 1                                                                                     |
| 873-4 | 175  | 872-2,/872-3 | 200                                                                                   | 1                                                                                     |
| 873-5 | 185  | 872-2,/872-5 | 300                                                                                   | 1                                                                                     |
| 873-6 | 190  | 872-3,/872-5 | 400                                                                                   | 1                                                                                     |
| 873-7 | 235  | 872-4        | 600                                                                                   | 1                                                                                     |
| 873-8 | 235  | 872-4,/872-5 | 800                                                                                   | 1                                                                                     |

**Innenauszieher zum Ausziehen von Kugellagern, Büchsen**

Inside puller for bearings / Arracheurs universels, à prise intérieure pour roulement à billes et boîte  
Rodamiento Extractor Universal, para interior



| No.        | Spannweite mm |  |  |
|------------|---------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>874</b> | 5-6           | 100                                                                               | 1                                                                                 |
|            | 6-8           | 100                                                                               | 1                                                                                 |
|            | 8-12          | 100                                                                               | 1                                                                                 |
|            | 12-16         | 110                                                                               | 1                                                                                 |
|            | 16-20         | 120                                                                               | 1                                                                                 |
|            | 20-27         | 130                                                                               | 1                                                                                 |
|            | 24-30         | 160                                                                               | 1                                                                                 |
|            | 27-36         | 370                                                                               | 1                                                                                 |
|            | 36-46         | 470                                                                               | 1                                                                                 |
|            | 46-58         | 550                                                                               | 1                                                                                 |
|            | 58-70         | 600                                                                               | 1                                                                                 |

**Gleithammer Abzieher für Art.-No. 874**

Impact Puller for Art.-No. 874  
Arracheurs pour Art.-No. 874  
Extractor transmission para Art.-No. 874



| No.          | Spannweite mm |  |  |
|--------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>875-1</b> | 5-27 mm       | 600                                                                                 | 1                                                                                   |
| <b>875-2</b> | 24-46 mm      | 1200                                                                                | 1                                                                                   |
| <b>875-3</b> | 46-100 mm     | 2100                                                                                | 1                                                                                   |

**Abzieher, 2-armig**

Gear pullers, 2-jaws  
Arracheurs universel  
Extractor transmission, 2 mordazas



| No.        | Spannweite mm | Spanntiefe mm |  |  |
|------------|---------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>876</b> | 15-85         | 85            | 300                                                                                 | 1                                                                                   |
|            | 20-120        | 120           | 400                                                                                 | 1                                                                                   |
|            | 20-165        | 145           | 800                                                                                 | 1                                                                                   |
|            | 35-230        | 220           | 2100                                                                                | 1                                                                                   |
|            | 50-300        | 270           | 4500                                                                                | 1                                                                                   |
|            | 50-400        | 400           | 6500                                                                                | 1                                                                                   |
|            | 50-500        | 500           | 7400                                                                                | 1                                                                                   |
|            | 55-650        | 500           | 13000                                                                               | 1                                                                                   |

**Abzieher, 3-armig**

Gear pullers, 3-jaws  
Arracheurs universel  
Extractor transmission, 3 mordazas



| No.        | Spannweite mm | Spanntiefe mm |  |  |
|------------|---------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>877</b> | 15-85         | 85            | 500                                                                                 | 1                                                                                   |
|            | 20-120        | 120           | 700                                                                                 | 1                                                                                   |
|            | 20-165        | 145           | 1000                                                                                | 1                                                                                   |
|            | 35-230        | 220           | 2700                                                                                | 1                                                                                   |
|            | 50-300        | 270           | 6000                                                                                | 1                                                                                   |
|            | 50-400        | 400           | 7800                                                                                | 1                                                                                   |
|            | 50-500        | 500           | 10500                                                                               | 1                                                                                   |
|            | 55-650        | 500           | 17500                                                                               | 1                                                                                   |

**Gegenstütze für Art.-No. 874**

Support Puller for Art.-No. 874  
Arracheurs pour Art.-No. 874  
Extractor transmission, para Art.-No. 874



| No.          | Spannweite mm |  |  |
|--------------|---------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>878-1</b> | 5-27 mm       | 600                                                                                   | 1                                                                                     |
| <b>878-2</b> | 24-46 mm      | 1500                                                                                  | 1                                                                                     |
| <b>878-3</b> | 46-100 mm     | 2400                                                                                  | 1                                                                                     |

**Gleithammer Ausziehersatz zum Ausziehen von Stiften mit Innengewinde**

Screw Adapter  
Fileter Adaptateur  
Rosca Adaptador



| No.        | Spannweite mm |  |  |
|------------|---------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>879</b> | M4-M12        | 1100                                                                                  | 1                                                                                     |

### Gewindeadapter für Art.-No. 879

Screw Adapter for Art.-No. 879

Fileter Adaptateur pour Art.-No. 879

Rosca Adaptador para Art.-No. 879



| No.    | Gewinde |  |  |
|--------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 879-4  | M 4     |                                                                                   | 10                                                                                |
| 879-5  | M 5     |                                                                                   | 10                                                                                |
| 879-6  | M 6     |                                                                                   | 10                                                                                |
| 879-8  | M 8     |                                                                                   | 10                                                                                |
| 879-10 | M10     |                                                                                   | 10                                                                                |
| 879-12 | M 12    |                                                                                   | 10                                                                                |

### Abzieher, mit zweiseitigen Haken

Pullers, with 2 jaws arms

Arracheurs avec bilatéral

Extractor mordazas bilateral



| No. | Spannweite mm | Spanntiefe mm |  |  |
|-----|---------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 880 | 20-150 mm     | 80            | 600                                                                                 | 1                                                                                   |
|     | 40-200 mm     | 130           | 1600                                                                                | 1                                                                                   |

### Abzieher, mit zweiseitigen Haken

Pullers, with 2 jaws arms

Arracheurs avec bilatéral

Extractor mordazas bilateral



| No. | Spannweite mm | Spanntiefe mm |  |  |
|-----|---------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 885 | 20-150 mm     | 80            | 800                                                                                 | 1                                                                                   |
|     | 40-200 mm     | 130           | 2200                                                                                | 1                                                                                   |

### Trenn- und Abziehvorrichtung

Device for pulling and separating

Appareil à retirer et séparer

Dispositivo para extractores y separadores



| No. | Spannweite mm | Passend zu     |  |  |
|-----|---------------|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 887 | 5-60 mm       | No.888/100+130 | 500                                                                                 | 1                                                                                   |
|     | 12-75 mm      | No.888/130     | 900                                                                                 | 1                                                                                   |
|     | 22-115 mm     | No.888/165+205 | 1800                                                                                | 1                                                                                   |
|     | 30-155 mm     | No.888/260+355 | 4500                                                                                | 1                                                                                   |
|     | 30-200 mm     | No.888/355     | 6000                                                                                | 1                                                                                   |
|     | 40-280 mm     | No.888/530     | 15500                                                                               | 1                                                                                   |

### Trenn- und Abziehvorrichtung

Device for pulling and separating

Appareil à retirer et séparer

Dispositivo para extractores y separadores



| No. | Spannw. mm | Spannt. mm | Passend zu           |  |  |
|-----|------------|------------|----------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 888 | 100        | 110        | No.887/5-60          | 800                                                                                   | 1                                                                                     |
|     | 130        | 110        | No.887/12-75         | 900                                                                                   | 1                                                                                     |
|     | 165        | 185        | No.887/22-115        | 2900                                                                                  | 1                                                                                     |
|     | 205        | 185        | No.887/22-115        | 3100                                                                                  | 1                                                                                     |
|     | 260        | 260        | No.887/30-155        | 6900                                                                                  | 1                                                                                     |
|     | 355        | 260        | No.887/30-155+30-200 | 7900                                                                                  | 1                                                                                     |
|     |            |            |                      |                                                                                       |                                                                                       |
|     | 430        | 320        | No.887/530           | 11000                                                                                 | 1                                                                                     |

**Universal Federspanner**

Spring spanner

Appareil à détruire des écrous

Diiposito para destruir tuercas



| No. | Spannweite mm | Anzahl |  |  |
|-----|---------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 890 | 200           | 2      | 550                                                                               | 1                                                                                 |
|     | 300           | 2      | 650                                                                               | 1                                                                                 |
|     | 400           | 2      | 750                                                                               | 1                                                                                 |

**Kugelgelenk-Abzieher**

Gear puller (for cars)

Appareil à retirer (pour voitures)

Extractor transmission (para coches)



| No. | Spannweite mm | Spanntiefe mm |  |  |
|-----|---------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 892 | 22            | 7/8"          | 600                                                                                 | 1                                                                                   |

**Muttersprenger**

Device for destroying nuts

Appareil à détruire des écrous

Diiposito para destruir tuercas



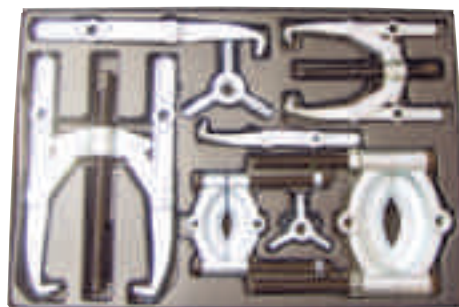
| No. | Spannweite mm | Spanntiefe mm |  |  |
|-----|---------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 893 | SW 4-10       | bis M6        | 100                                                                                 | 1                                                                                   |
|     | SW 10-18      | bis M10       | 200                                                                                 | 1                                                                                   |
|     | SW 18-27      | bis M 18      | 400                                                                                 | 1                                                                                   |
|     | SW 27-36      | bis M 24      | 600                                                                                 | 1                                                                                   |

**Universalabziehgarnitur in Metallkasten, 8-tlg.**

Universal puller set in metalcase, 8-pcs.

Arracheurs universel en caisse de metal, 8-pcs.

Extractor transmission en caja metalica, 8-pza.



| No. |           | Spannw. mm | Spannt. mm |  |  |
|-----|-----------|------------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 881 | 876       | 20-165     | 145        | 10800                                                                               | 1                                                                                   |
|     | 876       | 35-230     | 220        |                                                                                     |                                                                                     |
|     | 887       | 12-75      |            |                                                                                     |                                                                                     |
|     | 887       | 22-115     |            |                                                                                     |                                                                                     |
|     | + Zubehör |            |            |                                                                                     |                                                                                     |

**Abzieher, 2-armig**

Slender-hook puller

Extracteurs de Tijera

Extracteurs a griffes largesa



| No. | Spannweite mm | Spanntiefe mm |  |  |
|-----|---------------|---------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 882 | 6-100         | 70-85         | 400                                                                                   | 1                                                                                     |
|     | 10-140        | 85-120        | 800                                                                                   |                                                                                       |
|     | 15-140        | 125-155       | 1000                                                                                  |                                                                                       |



**Innenauszieher zum Ausziehen von Kugellagern, Büchsen im Metallkasten, 7-tlg.**

Inside puller for bearings in metalcase, 7-pcs.

Arracheurs universels, à prise intérieure pour roulement à billes et boîte, 7-pcs.

Rodamiento Extractor Universal, para interior, 7-pza.



| No.   |       | Spannweite mm |  |  |
|-------|-------|---------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 883-1 | 874   | 8-16          | 4400                                                                              | 1                                                                                 |
|       | 874   | 16-20         |                                                                                   |                                                                                   |
|       | 874   | 20-27         |                                                                                   |                                                                                   |
|       | 874   | 27-36         |                                                                                   |                                                                                   |
|       | 874   | 36-46         |                                                                                   |                                                                                   |
|       | 878-1 | 5-27          |                                                                                   |                                                                                   |
|       | 878-2 | 24-46         |                                                                                   |                                                                                   |

**Innenauszieher zum Ausziehen von Kugellagern, Büchsen im Metallkasten, 9-tlg.**

Inside puller for bearings in metalcase, 9-pcs.

Arracheurs universels, à prise intérieure pour roulement à billes et boîte, 9-pcs.

Rodamiento Extractor Universal, para interior, 9-pza.



| No.   |       | Spannweite mm |  |  |
|-------|-------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 883-2 | 874   | 8-16          | 6400                                                                                | 1                                                                                   |
|       | 874   | 16-20         |                                                                                     |                                                                                     |
|       | 874   | 20-27         |                                                                                     |                                                                                     |
|       | 874   | 27-36         |                                                                                     |                                                                                     |
|       | 874   | 36-46         |                                                                                     |                                                                                     |
|       | 874   | 46-58         |                                                                                     |                                                                                     |
|       | 874   | 58-70         |                                                                                     |                                                                                     |
|       | 878-1 | 5-27          |                                                                                     |                                                                                     |
|       | 878-2 | 24-46         |                                                                                     |                                                                                     |

**Abziehgarnitur, 3-tlg.**

Puller set, 3-pcs.

Arracheurs set, 3-pcs.

Extractor set, 3-pza.



| No.   | Spannweite mm | Spanntiefe mm |  |  |
|-------|---------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 891-1 | 45-100        | 110           | 2800                                                                                | 1                                                                                   |
|       | 5-60          |               |                                                                                     |                                                                                     |
|       | Verlängerung  |               |                                                                                     |                                                                                     |
| 891-2 | 55-140        | 155           | 3000                                                                                | 1                                                                                   |
|       | 12-75         |               |                                                                                     |                                                                                     |
|       | Verlängerung  |               |                                                                                     |                                                                                     |
| 891-3 | 60-215        | 200           | 9200                                                                                | 1                                                                                   |
|       | 22-115        |               |                                                                                     |                                                                                     |
|       | Verlängerung  |               |                                                                                     |                                                                                     |
| 891-4 | 85-295        | 315           | 14200                                                                               | 1                                                                                   |
|       | 30-155        |               |                                                                                     |                                                                                     |
|       | Verlängerung  |               |                                                                                     |                                                                                     |
| 891-5 | 120-350       | 320           | 25900                                                                               | 1                                                                                   |
|       | 30-200        |               |                                                                                     |                                                                                     |
|       | Verlängerung  |               |                                                                                     |                                                                                     |

**Stehbolzenausdreher für Stehbolzen**

**Rechts- und Linksgewinde**

Stud Extractors for studs with right and left hand thread

Leve Arracheur pour Boulon avec vis Gauche ou droite

Extractores de esparragos



| No. | Spannbereich |  |  |
|-----|--------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 884 | 4-13         | 280                                                                                   | 1                                                                                     |
|     | 8-19         | 450                                                                                   |                                                                                       |
|     | 17-28        | 500                                                                                   |                                                                                       |

## Universal Radnarbenabzieher

Universal wheel hub puller  
Extracteur de moyeux de roues  
Extractor de cubos de ruedas



| No.   | Spannweite mm |               |      |   |
|-------|---------------|---------------|------|---|
| 886-3 | bis 225       | 3 Abzugshaken | 4000 | 1 |
| 886-4 | bis 225       | 4 Abzugshaken | 4500 | 1 |
| 886-5 | bis 225       | 5 Abzugshaken | 5000 | 1 |

## Trenn- und Montagegabel

Seperate-mounting fork  
Fourchette à retirer et separer  
Extractor de rotulas



| No.   | Gabelöffnung | Für Kugelzapfen | Ø  |      |   |
|-------|--------------|-----------------|----|------|---|
| 889-1 | 18           | 15-25           | 21 | 700  | 1 |
| 889-2 | 23           | 25-35           | 22 | 750  | 1 |
| 889-3 | 29           | 30-45           | 23 | 800  | 1 |
| 889-4 | 40           | 40-60           | 24 | 1000 | 1 |
| 889-5 | 45           | 50-70           | 25 | 1100 | 1 |

## Universal Öldienstschlüssel

Drain plug wrench / Clés de bouchon / Llave bujia



| No. | Größe        | Länge |     |   |
|-----|--------------|-------|-----|---|
| 842 | 10 Abmessung | 220   | 450 | 5 |

## Zündkerzenschlüssel mit Gelenk

Spark plug spanner with joint / Clés à bougies avec jointure / Vaso para bujia con acople



| No. | Größe | Länge |     |    |
|-----|-------|-------|-----|----|
| 849 | 16    | M 10  | 290 | 10 |
|     | 20,8  | M 14  | 290 | 10 |

## Zündkerzensteckschlüsseleinsätze mit Gummiring

Socket for spark plugs, with rubber  
Douilles pour bougies, avec boucle  
Vaso para bujia, con goma



| No. | Größe | Länge |     |    |
|-----|-------|-------|-----|----|
| 929 | 16    | 65    | 96  | 10 |
|     | 20,8  | 65    | 118 | 10 |

## Zündkerzensteckschlüsseleinsätze mit Gummiring

Socket for spark plugs, with rubber  
Douilles pour bougies, avec boucle  
Vaso para bujia, con goma



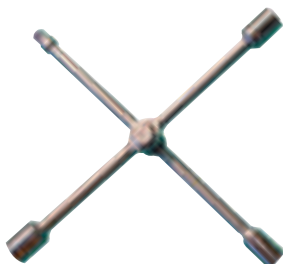
| No. | Größe | Länge |     |    |
|-----|-------|-------|-----|----|
| 943 | 16    | 65    | 85  | 10 |
|     | 20,8  | 65    | 136 | 10 |

### Kreuzschlüssel klappbar

Wheel nut wrench, foldable

Clés à croix pour écrous de roues pour voitures, pliable

Llave cruz rueda para camiones, plegable



| No.    | Größe           | Länge |      |   |
|--------|-----------------|-------|------|---|
| 853-17 | 17x19x22x13/16" | 380   | 2340 | 1 |

### Kreuzschlüssel

mit gesenkgeschmiedetem Mittelstück, verchromt

Wheel nut wrench chrome

Clés à croix pour écrous de roues pour voitures, chromé

Llave cruz rueda para camiones, chrome



DIN 3119

| No. | Größe       | Länge |      |   |
|-----|-------------|-------|------|---|
| 855 | 24x27x30x32 | 750   | 5500 | 1 |
| 856 | 24x27x38x32 | 750   | 5750 | 1 |

### Kreuzschlüssel steckbar

mit gesenkgeschmiedetem Mittelstück, verchromt

Wheel nut wrench chrome

Clés à croix pour écrous de roues pour voitures, chromé

Llave cruz rueda para camiones, chrome



DIN 3119

| No. | Größe           | Länge |      |   |
|-----|-----------------|-------|------|---|
| 857 | 24x27x30x32     | 750   | 5500 | 1 |
| 858 | 24x27x38x32     | 750   | 5750 | 1 |
| 859 | 24x27x32x13/16" | 750   | 5500 | 1 |

### Kreuzschlüssel ganz gehärtet und lackiert

Wheel nut wrench laquered

Clés à croix pour écrous de roues pour voitures, laquée

Llave cruz rueda para camiones, lacada



DIN 3119

| No. | Größe           | Länge |      |   |
|-----|-----------------|-------|------|---|
| 861 | 17x19x22x13/16" | 380   | 1300 | 1 |
| 863 | 24x27x32x3/4"   | 700   | 4500 | 1 |
| 864 | 19x22x24x27     | 500   | 3000 | 1 |

### Kreuzschlüssel ganz gehärtet und lackiert

Wheel nut wrench laquered

Clés à croix pour écrous de roues pour voitures, laquée

Llave cruz rueda para camiones, lacada



Chrom Vanadium Stahl

| No. | Größe | Abmessung |      |   |
|-----|-------|-----------|------|---|
| 865 | 300   | 20x12     | 400  | 5 |
|     | 400   | 20x12     | 650  | 5 |
|     | 500   | 20x12     | 1000 | 5 |
|     | 600   | 20x12     | 1200 | 5 |

## Reifenheber, verchromt

Tyre levers / Demonte-pneus / Desmontadores



Chrom Vanadium Stahl

| No. | Größe | Abmessung |      |   |
|-----|-------|-----------|------|---|
| 866 | 300   | 20x12     | 430  | 5 |
|     | 400   | 20x12     | 650  | 5 |
|     | 500   | 20x12     | 1000 | 5 |
|     | 600   | 20x12     | 1200 | 5 |

## Reifenheber, verchromt

Tyre levers / Demonte-pneus / Desmontadores



| No. | Größe | Abmessung |      |   |
|-----|-------|-----------|------|---|
| 867 | 300   | 26x11     | 430  | 5 |
|     | 400   | 26x11     | 650  | 5 |
|     | 500   | 26x11     | 1000 | 5 |
|     | 600   | 26x11     | 1200 | 5 |

## Rollkopf-Hebeleisen, verzinkt

Pry Bar Round Head, galvanized

Levier, zingué

Palanca polivalente



| No. | Größe | Ø  |     |   |
|-----|-------|----|-----|---|
| 860 | 400   | 16 | 550 | 5 |

## Radmutterschlüssel für LKW aus Spezialstahl geschmiedet

Wheel Nut Wrenches for Trucks drop forged

Clés à croix pour écrous de roues pour voitures, laquée

Llave cruz rueda para camiones, lacada



DIN 896 A

| No. | Größe | Abmessung | D1 mm | D1 mm |      |   |
|-----|-------|-----------|-------|-------|------|---|
| 868 | 19x22 | 380       | 30    | 34    | 980  | 1 |
|     | 19x24 | 400       | 30    | 37    | 1000 | 1 |
|     | 22x24 | 400       | 34    | 37    | 1000 | 1 |
|     | 22x27 | 400       | 34    | 41    | 1200 | 1 |
|     | 24x27 | 400       | 37    | 41    | 1300 | 1 |
|     | 27x30 | 400       | 41    | 45    | 1400 | 1 |
|     | 27x32 | 400       | 41    | 48    | 1350 | 1 |
|     | 30x32 | 400       | 45    | 47    | 1700 | 1 |
|     | 28x33 | 400       | 42    | 48    | 1700 | 1 |

## Drehstift gehärtet für Art.-No. 868

Tommy bar hardened for Art.-No 868 / Broches pour Art.-No. 868

Varilla telescópica para Art.-No. 868



DIN 900 A 18

| No. | Größe | Ø  |      |   |
|-----|-------|----|------|---|
| 869 | 500   | 18 | 1000 | 1 |

## Bremsfederzange

Brake spring pliers

Pincers à ressorts de freins

Alicates saltador de frenos



| No.  | Abmessung |     |   |
|------|-----------|-----|---|
| 1330 | 220       | 245 | 1 |
| 1331 | 330       | 395 | 1 |

## Türfederzange, vernickelt

Door spring pincers

Pince pour ressorts de portes

Alicates saltador de puerta



| No.  | Abmessung |    |   |
|------|-----------|----|---|
| 1333 | 210       | 98 | 1 |

## Auswuchtgewichtzange

Balancing tongs

Tenaille à équilibrage

Tenaza para equilibrado



| No.  | Abmessung |     |   |
|------|-----------|-----|---|
| 1337 | 240       | 340 | 1 |



### Kolbenringzange

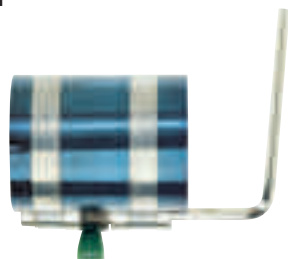
Piston ring pliers  
Pinces à segments  
Alicates para piston



| No.  | Abmessung | Länge |  |  |
|------|-----------|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1340 | 50-100    | 200   | 250                                                                               | 1                                                                                 |
| 1341 | 90-140    | 240   | 370                                                                               | 1                                                                                 |
| 1342 | 80-120    | 240   | 250                                                                               | 1                                                                                 |

### Kolbenringspannbänder

Piston ring tightening straps  
Colliers à segments  
Tiador para piston



| No.  | Abmessung | Länge |  |  |
|------|-----------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1350 | 40-75     | 50    | 125                                                                                 | 1                                                                                   |
| 1351 | 57-125    | 80    | 300                                                                                 | 1                                                                                   |
| 1352 | 90-175    | 80    | 340                                                                                 | 1                                                                                   |
| 1353 | 90-175    | 165   | 640                                                                                 | 1                                                                                   |

### Ventilfeder-Spannapparat leichte Ausführung

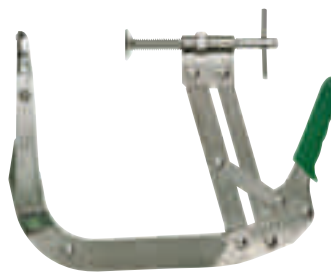
Valve spring stretcher sets, light type for cars  
Appareils de serrage pour ressorts de soupape type léger  
Estirador de valvulas, tipo ligero



| No.  | Abmessung | Länge |  |  |
|------|-----------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1359 | 75-225    | 290   | 1150                                                                                | 1                                                                                   |

### Ventilfeder-Spannapparat für LKW

Valve spring stretcher sets, for trucks  
Appareils de serrage pour camions  
Estirador de valvulas, para camion



| No.  | Abmessung | Länge |  |  |
|------|-----------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1361 | 115-290   | 390   | 3250                                                                                | 1                                                                                   |

### Bremsfederzange mit beweglicher Krallen

Brake spring with self-adjustable claw  
Pince pour ressort de frein avec griffe mobile



| No.  | Länge |  |  |
|------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1343 | 330   | 470                                                                                   | 1                                                                                     |

### Kolben-Nuten-Reiniger

Piston-groove cleaning tool  
Outil à nettoyer les rainures des pistons



| No.  | Abmessung | Inch  |  |  |
|------|-----------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1344 | 50-175    | 2"-7" | 550                                                                                   | 1                                                                                     |

### Schlauchklemmen-Zange

Tube-clamp tongs  
Tenaille pour attche-tuyau



mit drehbaren Backen  
with turning jaws / avec machoires mobile

| No.  | Abmessung | Inch   |  |  |
|------|-----------|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1345 | 200       | 7.7/8" | 180                                                                                   | 1                                                                                     |



in 3 Stufen arretierbar

locking in 3 steps / arrêtable en 3 étages

| No.  | Abmessung | Inch   |  |  |
|------|-----------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1345 | 220       | 8.5/8" | 300                                                                               | 1                                                                                 |

**Schlauchklemmen-Zange**

Tube-clamp tongs

Tenaille pour attche-tuyau



| No.  | Abmessung | Inch    |  |  |
|------|-----------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1346 | 270       | 10.5/8" | 380                                                                                 | 1                                                                                   |

**Auspuffrohr-Kettenabschneider**

Exhaust and Tailpipe Cutter

Coupe-tuyaux d'échappement

Cortabuos de cadena



| No.  | Abmessung | Inch  | Länge |  |  |
|------|-----------|-------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1347 | 25-75     | 1"-3" | 265   | 510                                                                                 | 1                                                                                   |

**Auspuffrohr-Kettenabschneider, stufenlos mit Drehgriff, auch für Edelstahlrohre bis 1,8 mm**

Exhaust and Tailpipe Cutter, continous adjustable, turning handle, also for special steel tube up to 1,8 mm

Coupe-tuyaux d'échappement, avec poignées (à vis), utilisable également pour échappements catalysés (épaisseur 1,8 mm)

Cortabuos de cadena



| No.  | Abmessung | Inch   |  |  |
|------|-----------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1348 | 200       | 7.7/8" | 180                                                                                 | 1                                                                                   |

**Bremsseilfeder-Zange**

Hand Brake Cable Spring Plier

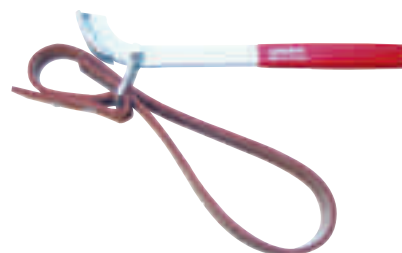
Pince pour cable frein a main



| No.  | Abmessung | Inch   |  |  |
|------|-----------|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1349 | 215       | 8.1/2" | 175                                                                                   | 1                                                                                     |

**Bandschlüssel**

Strap-Key / Clef à bande / Llvae del filtro



| No.  | Ø   |  |  |
|------|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1371 | 160 | 300                                                                                   | 1                                                                                     |
| 1371 | 240 | 350                                                                                   | 1                                                                                     |

**Ersatzband für 1371**

Substitute belt for 1371

| No.  | Ø x |  |  |
|------|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1372 | 160 | 100                                                                                   | 1                                                                                     |
| 1372 | 240 | 130                                                                                   | 1                                                                                     |

### Ölfilterschlüssel für 1/2" Vierkant

Oil filter wrench for 1/2" drive

Clés à filtre oil pour 1/2"

Llaves del filtro



| No.  | Ø      | Inch     | Länge | Inch   |     |   |
|------|--------|----------|-------|--------|-----|---|
| 1373 | 60-80  | 2.3/8"-  | 130   | 5.1/8" | 180 | 1 |
|      |        | 3.5/32"  |       |        |     |   |
|      | 80-110 | 3.5/32"- | 150   | 5.7/8" | 215 | 1 |
|      |        | 4.5/16"  |       |        |     |   |

### Ölfilterschlüssel

Oil filter wrench

Clés à filtre oil

Llaves del filtro



| No.  | Ø      | Inch     | Länge | Inch    |     |   |
|------|--------|----------|-------|---------|-----|---|
| 1374 | 60-80  | 2.3/8"-  | 220   | 8.5/8"  | 280 | 1 |
|      |        | 3.5/32"  |       |         |     |   |
|      | 80-110 | 3.5/32"- | 240   | 9.7/16" | 315 | 1 |
|      |        | 4.5/16"  |       |         |     |   |

### Magnetschlüssel, biegsames Modell verchromt

Magnetic tester

Chargeur magnétique

Destornillador magnetico



| No.  | Abmessung | Länge | Ø  |     |   |
|------|-----------|-------|----|-----|---|
| 1375 | 1000 g    | 460   | 12 | 80  | 1 |
|      | 1800 g    | 520   | 15 | 220 | 1 |
|      | 3000 g    | 520   | 19 | 320 | 1 |

### Ölkanne/Ölspritzkanne

Oiler / Burette d'huile / Aceiteras



No. 1378



No. 1382



No. 1380

| No.  | Abmessung ml |    |    |
|------|--------------|----|----|
| 1378 | 125          | 35 | 20 |
|      | 250          | 48 | 20 |
|      | 500          | 65 | 20 |

| No.  | Abmessung ml |    |    |
|------|--------------|----|----|
| 1380 | 150          | 75 | 12 |

| No.  | Abmessung ml |     |    |
|------|--------------|-----|----|
| 1382 | 200          | 400 | 12 |
|      | 300          | 500 | 12 |
|      | 500          | 700 | 12 |

### Ölkanne mit Flexrohr transparent 210 mm

Oiler with flex pipe transparent 210 mm

Burette d'huile avec canon flexible transparent 210 mm

Aceiteras estándar, con extensión flexible, transparente



| No.  | Abmessung ml |     |    |
|------|--------------|-----|----|
| 1379 | 350          | 225 | 12 |
|      | 500          | 250 | 12 |

### Industriezerstäuber

Industrial sprayer

Pulvérisateur industriel

Pulverizador industrial



| No.  | Abmessung ml |     |    |
|------|--------------|-----|----|
| 1381 | 750          | 120 | 12 |

### Trichter aus Weißblech

Funnel, tin plate  
Entonnoir en fer-blanc  
Embudo metálico



| No.  | Ø   | Abmessung ml |     |   |
|------|-----|--------------|-----|---|
| 1383 | 160 | 1300         | 250 | 6 |
|      | 200 | 3200         | 450 | 6 |

### Messbecher aus Weißblech

Measure, tin plate, calibratable  
Brocverseur gradué en fer-blanc, talonné  
Medida, de hojalata blanca, homologado para transacciones fiscales



| No.  | Abmessung ml |     |   |
|------|--------------|-----|---|
| 1384 | 500          | 200 | 5 |
|      | 1000         | 350 | 5 |
|      | 2000         | 650 | 5 |

### Saug- und Druckspritze

Suctiongun, silver painted, zinc cap  
Seringue, couleur argent, conv zinc  
Inyector, lacado plateado, tapadera de zinc



| No.  | Abmessung ml |     |   |
|------|--------------|-----|---|
| 1386 | 500          | 900 | 1 |

### Industriezerstäuber

Industrial sprayer  
Pulvérisateur industriel  
Pulverizador industrial



| No.  | Abmessung ml |     |    |
|------|--------------|-----|----|
| 1387 | 1000         | 340 | 12 |

### Industriezerstäuber

Industrial sprayer  
Pulvérisateur industriel  
Pulverizador industrial



| No.  | Abmessung ml |     |   |
|------|--------------|-----|---|
| 1388 | 2000         | 420 | 1 |

### Flexibles Auslaufrohr aus Metall

Flex discharge spout, metal  
Flexible d'écoulement, métallique  
Extensión flexible, metálica



| No.  | Ø  | Abmessung ml |     |   |
|------|----|--------------|-----|---|
| 1389 | 18 | 300          | 170 | 1 |

### Trichtersatz aus PE

Funnel-Set, Polyethylene  
Assortiment d'entonnoirs en PE  
Set de embudos de PE



| No.  | Ø                 | Länge/Breite |     |   |
|------|-------------------|--------------|-----|---|
| 1393 | 50, 75, 100, 120, | 200/160      | 245 | 5 |
|      | 150, 160          |              |     |   |

### Messbecher aus Polypropylen

Measures  
Broc verseur gradué  
Medida de polipropileno



| No.  | Abmessung ml |     |    |
|------|--------------|-----|----|
| 1394 | 500          | 60  | 12 |
|      | 1000         | 110 | 6  |
|      | 2000         | 187 | 6  |



### Katalysator-Trichter aus PE

Katalysator funnd, PE  
Entonnoir PE avec filtre  
Embudo catalizador de PE



| No.  | Ø   | Inhalt ml | Länge/Breite |     |    |
|------|-----|-----------|--------------|-----|----|
| 1395 | 160 | 1200      | 195/160 mm   | 130 | 12 |

### Spraydose Rostlöser

Rustremover aerosol spray can  
Dégrippant rouille  
Desoxidante spray



| No.  | ml  |     |    |
|------|-----|-----|----|
| 1398 | 400 | 390 | 12 |

### Kombitrichter aus PE mit WAL

Funnd, PE with WAL  
Entonnoir en PE avec WAL  
Embudo acodado de PE, con WAL



| No.  | Ø   | Inhalt ml | Länge/Breite |     |    |
|------|-----|-----------|--------------|-----|----|
| 1396 | 160 | 1200      | 195/160 mm   | 140 | 10 |

### Spraydose "Öl das alles kann"

Multipurpose oil spray  
L'huile qui peut tout  
Aceite multiuso spray



| No.  | ml  |     |    |
|------|-----|-----|----|
| 1399 | 400 | 390 | 12 |

### Vorratskanne aus Weißblech

Storage can, tin plate  
Bidon en fer blanc  
Bidón para almacenamiento de aceite



| No.  | Abmessung ml |      |   |
|------|--------------|------|---|
| 1397 | 3000         | 580  | 5 |
|      | 5000         | 700  | 2 |
|      | 10000        | 1100 | 2 |

### Spraydose Elektro-Kontakt-Spray

Electro contact spray  
Aérosol entretien contacts électriques  
Spray para contactos eléctricos



| No.  | ml  |     |    |
|------|-----|-----|----|
| 1310 | 400 | 390 | 12 |

### Spraydose Keilriemen-Spray

Drive belt spray  
Adhérent courroies  
Spray para la correa trapezoidal



| No.  | ml  |     |    |
|------|-----|-----|----|
| 1311 | 400 | 390 | 12 |

**Spraydose Schmierfett - weiß**

Lubricating grease (white)  
Graisse universelle (blanche)  
Grasa lubricante (blanca)



| No.  | ml  |     |    |
|------|-----|-----|----|
| 1313 | 400 | 380 | 12 |

**Spraydose PTFE-Trockengleit-Spray**

PTFE Dry-Film Lubricant  
Lubrifiant à sec PTFE  
Spray de lubricante PTFE para el  
deslizamiento en seco



| No.  | ml  |     |    |
|------|-----|-----|----|
| 1312 | 400 | 350 | 12 |

**Spraydose Haft- und Fett-Spray**

Adhesive grease spray  
Adhérent universel  
Spray de grasa adherente



| No.  | ml  |     |    |
|------|-----|-----|----|
| 1314 | 400 | 380 | 12 |

**Kleb-und Dichtstoffentferner**

Paint remover spray  
Colle et nettoyeur joints  
Pegamento eleminariar



| No.  | ml  |     |    |
|------|-----|-----|----|
| 1354 | 400 | 350 | 12 |

**Spraydose Silikon Spray**

Silicone Spray  
Huile siliconée  
Spray silicona



| No.  | ml  |     |    |
|------|-----|-----|----|
| 1316 | 400 | 380 | 12 |

**Lecksuch-Spray**

Leak detector aerosol  
Détecteur de fuite pulvérisation  
Gotera busco spray



| No.  | ml  |     |    |
|------|-----|-----|----|
| 1355 | 400 | 350 | 12 |

**Spraydose Bremsreiniger**

Brake cleanser  
Nettoyant pour freins  
Limpia-frenos



| No.  | ml  |     |    |
|------|-----|-----|----|
| 1317 | 500 | 480 | 12 |

**Profi-Sprühreiniger**

Profi cleaner aerosol  
Nettoyant professionnel pulvérisation  
Profesional ascar spray



| No.  | ml  |     |    |
|------|-----|-----|----|
| 1356 | 500 | 480 | 12 |

### Gewindedichtung

**mittelfest, Hydraulik- und Pneumatikdichtung, zugelassen für Gas**

Threadsealing medium-strength, hydraulic and pneumatic connections, approved for gas



| No.  | Gewinde max.<br>Spaltfüllvermögen<br>mm | Losbrech-<br>moment<br>M10 (N/m) | Temperatur-<br>bereich | ml |    |
|------|-----------------------------------------|----------------------------------|------------------------|----|----|
| 1318 | 3/4" - 0,15                             | 12-18                            | -55°C bis +150°C       | 50 | 10 |

### Schraubensicherung

**mittelfest, Standardtyp, zugelassen als Dichtmittel für Gas und Trinkwasser. Solaranlagen geeignet**

Threadlocker medium-strength, standard type, approved as sealant for gas and drinking water. Suitable for solar systems.



| No.  | Gewinde max.<br>Spaltfüllvermögen<br>mm | Losbrech-<br>moment<br>M10 (N/m) | Temperatur-<br>bereich | ml |    |
|------|-----------------------------------------|----------------------------------|------------------------|----|----|
| 1321 | M36-0,25                                | 18-23                            | -55°C bis +150°C       | 50 | 10 |

### Gewindedichtung

**mittelfest, bei großem Spaltmaß, zugelassen für Gas, Sauerstoff und Trinkwasser**

Threadsealing medium-strength, for large protrusion, approved for gas, oxygen and drinking water



| No.  | Gewinde max.<br>Spaltfüllvermögen<br>mm | Losbrech-<br>moment<br>M10 (N/m) | Temperatur-<br>bereich | ml |    |
|------|-----------------------------------------|----------------------------------|------------------------|----|----|
| 1319 | 3"-0,50                                 | 18-24                            | -55°C bis +150°C       | 50 | 10 |

### Schraubensicherung

**hochfest, für Schraub- und Gewindeverbindungen**

Threadlocker light-strength, for bolted- and thread-connections.



| No.  | Gewinde max.<br>Spaltfüllvermögen<br>mm | Losbrech-<br>moment<br>M10 (N/m) | Temperatur-<br>bereich | ml |    |
|------|-----------------------------------------|----------------------------------|------------------------|----|----|
| 1322 | M20-0,15                                | 25-35                            | -55°C bis +150°C       | 50 | 10 |

### Schraubensicherung

**niedrigfest, vibrationsbeständig, demontierbar**

Treadlocker low-strength, vibration resistant, removable



| No.  | Gewinde max.<br>Spaltfüllvermögen<br>mm | Losbrech-<br>moment<br>M10 (N/m) | Temperatur-<br>bereich | ml |    |
|------|-----------------------------------------|----------------------------------|------------------------|----|----|
| 1320 | M24-0,20                                | 5-8                              | -55°C bis +150°C       | 50 | 10 |

### Flächendichtung

**temperaturbeständig, zur Abdichtung bei starken Vibrationen**

Rigid flange assemblies temperature-resistant, for sealing by high vibrations.



| No.  | Gewinde max.<br>Spaltfüllvermögen<br>mm | Losbrech-<br>moment<br>M10 (N/m) | Temperatur-<br>bereich | ml |    |
|------|-----------------------------------------|----------------------------------|------------------------|----|----|
| 1323 | 0,50                                    | 7-10                             | -55°C bis +200°C       | 75 | 10 |

**Fügeverbindung**

**hochfest, Standardtyp, temperaturbeständig, zugelassen für Sauerstoff**

Retaining high-strength, standard-type, temperature-resistant, approved for oxygen.



| No.  | Gewinde max.<br>Spaltfüllvermögen<br>mm | Losbrech-<br>moment<br>M10 (N/m) | Temperatur-<br>bereich | ml |  |
|------|-----------------------------------------|----------------------------------|------------------------|----|-----------------------------------------------------------------------------------|
| 1325 | 0,15                                    | 25-35                            | -55°C bis +175°C       | 50 | 10                                                                                |

**Sekundenkleber**

**schnell aushärtend, hohe Festigkeit, belastbar, für EPDM-Elastomere, Vollgummi, Moosgummi und schwierig verklebbare Kunststoffe. Ideal zur Herstellung von O-Ringen. Dünnflüssig und super-schnell.**

Superglue quick hardening, very firm, resistant to stress, for EPDM elastomers, rubber and foam rubber and plastic materials that are difficult to glue. Ideal to produce O-rings. Fluid and super fast.



| No.  | ml |  |  |
|------|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1326 | 20 |                                                                                     | 20                                                                                  |

**Sekundenkleber**

**ist universell einsetzbar, schnell, für saugende und poröse Materialien wie Gummi, Holz, Leder und Kork. Super geeignet für Kunststoffe- und Metallverbindungen. Einfach, sicher, hochfest und präzise.**

Superglue universally applicable, fast, for absorbing and porous materials such as rubber, wood, leather and cork. Really suitable for plastic and metal connections. Easy, safe, very firm and precise.



| No.  | ml |  |
|------|----|-------------------------------------------------------------------------------------|
| 1327 | 20 | 20                                                                                  |

**Sekundenkleber**

**härtet langsam aus, hat eine hohe Festigkeit, für Metall und Hartkunststoff, hohes Spaltfüllvermögen, dickflüssig. Ideal für alle saugfähigen Materialien, wie z.B. Leder, Holz, Kork, etc..**

Superglue hardens slowly, is extremely firm, for metal and hard plastic, excellent gap filling qualities, thick liquid. Ideal for all absorbent materials such as leather, wood, cork etc.



| No.  | ml |  |  |
|------|----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1329 | 20 |                                                                                       | 20                                                                                    |



### Reparaturband

**Selbstverschweißendes Isolier- und Reparaturband zur Anwendung im Kfz- und Industriebereich. Schützt Metalle vor Korrosion. Beschädigungen an Elektrokabeln und anderen Reparaturstellen lassen sich so dauerhaft gegen Feuchtigkeit und Oxidation schützen. Kleine Reparaturen können sofort durchgeführt werden. Sollte in keiner Werkzeugkiste fehlen!**

Repair Tape self-welding insulating and repair strip to be used in industry and the automotive sector. Protects metals against corrosion. Damage on electrical cables and other repaired parts can be permanently protected from humidity and oxidation. Smaller repairs can be carried out immediately. Should be in every toolbox!



| No.  |               |           |
|------|---------------|-----------|
| 1308 | 5 m pro Rolle | 20 Rollen |

### Golden Tape

**PTFE-Gewindedichtband mit erhöhter Dichte. Es dient zur Abdichtung an Rohrverbindungen und Verschraubungen und ist beständig gegen aggressive Medien wie Benzine, Öle, Propan, Petroleum, Kerosine und Erdgas (Druck bis ←300 psig)**

Golden Tape extremely dense PTFE highly efficient sealing tape. GT is used to seal pipe connections and screw connections. It is resistant to aggressive media such as benzenes, oils, propane, petroleum, kerosene and natural gas (pressure up to ↓300 psig).



| No.  |                |                      |
|------|----------------|----------------------|
| 1309 | 0,10x12mmx12 m | 10 Stück /250 Rollen |

### Fettpressenzubehör Set M 10 x 1

Accessory set M 10 x 1

Coffret d'accessoires M 10 x 1

Kit de accesorios M 10 x 1



| No.  | Inhalt/Content             | g   |    |
|------|----------------------------|-----|----|
| 1324 | 1 Panzerschlauch           | 100 | 10 |
|      | 1 Düsenrohr gebogen        |     |    |
|      | 1 Munstück                 |     |    |
|      | 1 Hohl-/Universalmundstück |     |    |
|      | 1 Spitzmundstück           |     |    |

### Stoßpresse, Kunststoff, Set

Push type gun, 65 ml

Kit pompe plastique, 65 ml

Bomba de engrase presión plástico, 65 ml



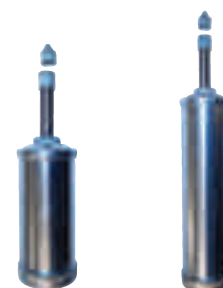
| No.  | ml | g   |    |
|------|----|-----|----|
| 1328 | 65 | 140 | 10 |

### Stoßpresse, Stahl

Push type gun, steel

Kit pompe acier

Bomba de engrase presión, acero



| No.  | ml  | g   |   |
|------|-----|-----|---|
| 1329 | 80  | 320 | 1 |
|      | 150 | 470 | 1 |

### Schmiernippel Sortimentskasten, 387-tlg.

Grease nipple assortment, 387 pcs. / Assortiments de graisseurs, 387 pcs. / Estuche de engrasadores variados, 387 pzas.



| No.  | Inhalt/Content                               |  |  |
|------|----------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1335 | 25 Stück H1 G 1/8"                           | 2950                                                                              | 1                                                                                 |
|      | 15 Stück H2 G 1/8"                           |                                                                                   |                                                                                   |
|      | 15 Stück H3 G 1/8"                           |                                                                                   |                                                                                   |
|      | 15 Stück H1 G 1/4"                           |                                                                                   |                                                                                   |
|      | 5 Stück H3 G 1/4"                            |                                                                                   |                                                                                   |
|      | 5 Stück H1 a, 6 mm                           |                                                                                   |                                                                                   |
|      | 10 Stück H1 a, 8 mm                          |                                                                                   |                                                                                   |
|      | 25 Stück H1 PTF 1/8"                         |                                                                                   |                                                                                   |
|      | 10 Stück H3 PTF 1/8"                         |                                                                                   |                                                                                   |
|      | 35 Stück H1 NF (SAE) 1/4"                    |                                                                                   |                                                                                   |
|      | 10 Stück H2 NF (SAE) 1/4"                    |                                                                                   |                                                                                   |
|      | 10 Stück H3 NF (SAE) 1/4"                    |                                                                                   |                                                                                   |
|      | 25 Stück H1 M 6 x 1                          |                                                                                   |                                                                                   |
|      | 10 Stück H1 M 6 x 1                          |                                                                                   |                                                                                   |
|      | 15 Stück H3 M 6 x 1                          |                                                                                   |                                                                                   |
|      | 15 Stück H1 WHIT 1/4"                        |                                                                                   |                                                                                   |
|      | 5 Stück H1 WHIT 3/8"                         |                                                                                   |                                                                                   |
|      | 15 Stück H1 M 8 x 1                          |                                                                                   |                                                                                   |
|      | 10 Stück H2 M 8 x 1                          |                                                                                   |                                                                                   |
|      | 10 Stück H3 M 8 x 1                          |                                                                                   |                                                                                   |
|      | 15 Stück H1 M 8 x 1,25                       |                                                                                   |                                                                                   |
|      | 10 Stück H1 1/4" - 28 SAE                    |                                                                                   |                                                                                   |
|      | 10 Stück H2 M 8 x 1,25                       |                                                                                   |                                                                                   |
|      | 10 Stück H3 M 8 x 1,25                       |                                                                                   |                                                                                   |
|      | 20 Stück H1 M 10 x 1                         |                                                                                   |                                                                                   |
|      | 10 Stück H2 M 10 x 1                         |                                                                                   |                                                                                   |
|      | 10 Stück H3 M 10 x 1                         |                                                                                   |                                                                                   |
|      | 5 Stück 4-BA- Mundstück<br>G 1/8"            |                                                                                   |                                                                                   |
|      | 10 Stück 4-BA-<br>Präzisionsmundstück G 1/8" |                                                                                   |                                                                                   |
|      | 1 Stück Schmiernippel-Werkzeug               |                                                                                   |                                                                                   |

### Stahlrohr-Fasspumpe

Steel pipe barrel pump  
Pompe pour fut, canne acier  
Bomba de transvase para bidonesa



| No.  | l/min  |  |  |
|------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1336 | ca. 16 | 1900                                                                                | 1                                                                                   |

### Hebelzylinderpumpe mit ZBH

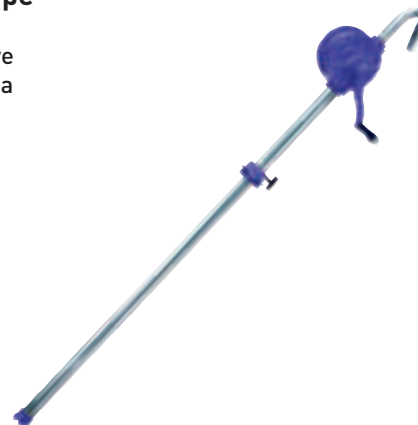
Lever action pump with ZBH  
Pompe de transvasement à levier  
Bomba de trasvase a palanca



| No.  | l/min  |  |  |
|------|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1338 | ca. 16 | 1400                                                                                  | 1                                                                                     |
|      | ca. 35 | 2700                                                                                  | 1                                                                                     |

### Kurbelpumpe

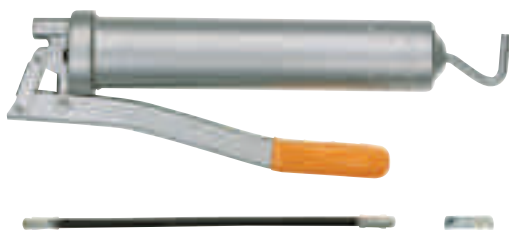
Rotary pump  
Pompe rotative  
Boma rotatoria



| No.  | l/min  |  |  |
|------|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1339 | ca. 25 | 5200                                                                                  | 5                                                                                     |

### Fettpresse

Grease gun  
Seringue à graisse  
Engra sadora



| No.  | Abmessung |  |  |
|------|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1385 | 500       | 1250                                                                              | 10                                                                                |

### Fühlerlehren, metrisch

Feeler gauges, metric  
Jauges épaisseurs  
Galgas de espesores



| No.  | Blatt | Messbereich | Länge |  |  |
|------|-------|-------------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1400 | 8     | 0,05-0,50   | 100   | 35                                                                                  | 10                                                                                  |
| 1401 | 13    | 0,05-1,00   | 100   | 65                                                                                  | 10                                                                                  |
| 1402 | 20    | 0,05-1,00   | 100   | 95                                                                                  | 10                                                                                  |
| 1403 | 21    | 0,10-0,50   | 100   | 65                                                                                  | 10                                                                                  |

### Drahtbürste

Wire brush  
Brosse métallique  
Cepillo metalico



| No.  | Abmessung |  |  |
|------|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1390 | 2 Reihen  | 120                                                                                 | 5                                                                                   |
|      | 3 Reihen  | 130                                                                                 | 5                                                                                   |
|      | 4 Reihen  | 165                                                                                 | 5                                                                                   |
|      | 5 Reihen  | 195                                                                                 | 5                                                                                   |

### Fühlerlehren, metrisch

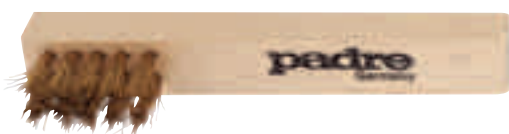
Feeler gauges, metric  
Jauges épaisseurs  
Galgas de espesores



| No.  | Blatt | Messbereich | Länge |  |  |
|------|-------|-------------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1405 | 8     | 2-20/1000   | 100   | 35                                                                                    | 10                                                                                    |
| 1406 | 13    | 2-35/1000   | 100   | 65                                                                                    | 10                                                                                    |
| 1407 | 20    | 2-40/1000   | 100   | 95                                                                                    | 10                                                                                    |

### Zündkerzenbürste

Spark-plug brush  
Brosse pour bougies  
Cepillo para bujias



| No.  | Abmessung |  |  |
|------|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1391 | 100       | 12                                                                                  | 18                                                                                  |

### Autoventillehren

Valve gauges, inch  
Jauges épaisseurs, inch  
Galgas para valvulas, inch



| No.  | Blatt | Messbereich | Länge |  |  |
|------|-------|-------------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1410 | 6     | 0,10-0,40   | 75    | 10                                                                                    | 10                                                                                    |

### Bremssattelbürste

Brush for car brakes  
Brosse pour des freins de voitures  
Cepillo para frenos de coche



| No.  | Abmessung |  |  |
|------|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1392 | 265       | 80                                                                                  | 5                                                                                   |

**Fühlerlehenband**

Feeler gauges, tape  
Bande d'épaisseur  
Galga de banda para espesor



| No.  | Messbereich | Länge   |  |  |
|------|-------------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1415 | 0,01        |         | 30                                                                                | 1                                                                                 |
|      | 0,02        |         | 38                                                                                | 1                                                                                 |
|      | 0,03        |         | 45                                                                                | 1                                                                                 |
|      | 0,05        |         | 56                                                                                | 1                                                                                 |
|      | 0,06        |         | 62                                                                                | 1                                                                                 |
|      | 0,08        | 5000x13 | 72                                                                                | 1                                                                                 |
|      | 0,10        |         | 82                                                                                | 1                                                                                 |
|      | 0,15        |         | 105                                                                               | 1                                                                                 |
|      | 0,20        |         | 135                                                                               | 1                                                                                 |
|      | 0,25        |         | 160                                                                               | 1                                                                                 |
|      | 0,30        |         | 185                                                                               | 1                                                                                 |
|      | 0,35        |         | 215                                                                               | 1                                                                                 |
|      | 0,40        |         | 270                                                                               | 1                                                                                 |
|      | 0,45        |         | 295                                                                               | 1                                                                                 |
|      | 0,50        |         | 320                                                                               | 1                                                                                 |
|      | 0,55        |         | 350                                                                               | 1                                                                                 |
|      | 0,60        |         | 380                                                                               | 1                                                                                 |
|      | 0,65        |         | 410                                                                               | 1                                                                                 |
|      | 0,70        |         | 440                                                                               | 1                                                                                 |
|      | 0,80        |         | 470                                                                               | 1                                                                                 |
|      | 0,85        |         | 500                                                                               | 1                                                                                 |
|      | 0,90        |         | 530                                                                               | 1                                                                                 |
|      | 0,95        |         | 560                                                                               | 1                                                                                 |
|      | 1,00        |         | 590                                                                               | 1                                                                                 |

**Fühlerlehenhalter**

Holder for gauges  
Support pour calibres  
Mangoa



| No.  | l/min |  |  |
|------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1416 | 123   | 14                                                                                  | 1                                                                                   |

**Zündkerzen oder Elektroden-Abstandslehren mit Bieger**

Automotive wire gap gauge with bender  
Jauge d'écartment pour électrodes de bougies  
Alambre Rueco calibrado con curva



| No.  | Blatt | Messbereich | Länge |  |  |
|------|-------|-------------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1420 | 8     | 0,40-1,00   |       | 45                                                                                  | 1                                                                                   |

**Düsenlehren**

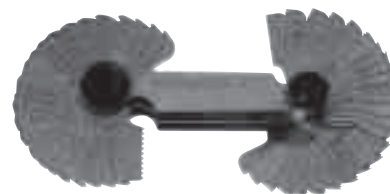
Jet gauges  
Calibres pour carburateurs  
Galgas para carburador



| No.  | Blatt | Messbereich | Länge |  |  |
|------|-------|-------------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1425 | 20    | 0,45-1,50   |       | 70                                                                                  | 1                                                                                   |
| 1426 | 16    | 1,50-3,00   |       | 110                                                                                 | 1                                                                                   |

**Gewindelehre für metrische und Whitworth Gewinde**

Screw pitch gauges  
Jauges de filets  
Galgas para roscas



| No.  | Messbereich | Messbereich | Länge |  |  |
|------|-------------|-------------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1430 | 0,25-6,00   | 62-4 Gang"  |       | 80                                                                                    | 1                                                                                     |

**Taschen Meßschieber**

Slide Gauge  
Regle pousserde poche  
Metro empujador de bolsillo



| No.  | Länge |  |  |
|------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1435 | 150   | 145                                                                                   | 1                                                                                     |

**Taschen Meßschieber**

Slide Gauge  
Regle pousserde poche  
Metro empujador de bolsillo



| No.  | Länge |    |      |  |  |
|------|-------|----|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1436 | 150   | 40 | 0,02 | 330                                                                                   | 1                                                                                     |
|      | 200   | 40 | 0,02 | 400                                                                                   | 1                                                                                     |
|      | 300   | 40 | 0,02 | 650                                                                                   | 1                                                                                     |



### Taschen Meßschieber, digital

Slide Gauge

Regle pousserde poche

Metro empujador de bolsillo



| No.  | Länge |    |      |     |   |
|------|-------|----|------|-----|---|
| 1437 | 150   | 40 | 0,01 | 350 | 1 |
|      | 200   | 50 | 0,01 | 450 | 1 |
|      | 300   | 60 | 0,01 | 700 | 1 |

### Ersatz-Batterie für Art.No. 1437

Spare battery for Art.No. 1437

Batterie de substitut pour Art.No. 1437

Bateria de sustitución para Art.No. 1437



| No.    |  |    |
|--------|--|----|
| 1437 B |  | 10 |

### Stufenschlüssel

Spud wrench

Clé pour installation radiateur

Llave pra instalacion de radiadores



| No.  | Für Ventile/For valves |    |    |   |
|------|------------------------|----|----|---|
| 1568 | 3/8"                   | 55 | 80 | 5 |
|      | 1/2"                   | 55 | 80 | 5 |
|      | 3/4"                   | 55 | 80 | 5 |
|      | 1"                     | 55 | 80 | 5 |

### Stufenschlüssel mehrfach abgestuft

Combination spud wrench

Clé pour installation radiateur

Llave pra instalacion de radiadores



| No.  | Für Ventile/For valves |    |     |   |
|------|------------------------|----|-----|---|
| 1533 | 3/8" - 1/2" - 9,5      | 86 | 100 | 5 |
|      | 10 - 12 - 14           |    |     |   |

### Stufenschlüssel mehrfach abgestuft

Combination spud wrench

Clé pour installation radiateur

Llave pra instalacion de radiadores



| No.  | Für Ventile/For valves   |    |     |   |
|------|--------------------------|----|-----|---|
| 1534 | 1/2" - 1" - 15 - 17 - 19 | 86 | 120 | 5 |
|      | 22 - 24                  |    |     |   |

### Stufenschlüssel mehrfach abgestuft

Combination spud wrench

Clé pour installation radiateur

Llave pra instalacion de radiadores



| No.  | Für Ventile/For valves       |    |     |   |
|------|------------------------------|----|-----|---|
| 1535 | 3/8" - 12 - 1/2" - 3/4" - 1" | 86 | 100 | 5 |

### Sanitärspeziialschlüssel

Sanitary wrenches

Clés dynamometrique

Speciale pour installations sanitaires



| No.  |       | Gewinde/Thread |     |     |   |
|------|-------|----------------|-----|-----|---|
| 1536 | 17x19 | M 10           | 220 | 230 | 1 |

### Rollbandmaß mit Softgriff und Trageclip und Magnet

Spring retourn ruller  
Mètre roulant



| No.  | Länge | L x H        |     |    |
|------|-------|--------------|-----|----|
| 1432 | 2 m   | 2 m x 16 mm  | 80  | 10 |
|      | 3 m   | 3 m x 16 mm  | 100 | 10 |
|      | 8 m   | 8 m x 19 mm  | ??  | 10 |
|      | 10 m  | 10 m x 25 mm | ??  | 10 |

### Bandmaß mit Auto Stop, Softgrip, Nylon beschichtetes Band, Trageclip und Magnet

Spring retourn ruller  
Mètre roulant



| No.  | Länge | L x H       |    |    |
|------|-------|-------------|----|----|
| 1433 | 5 m   | 5 m x 19 mm | ?? | 10 |

### Glasfiber Maßstab mit Feder, Profiausführung

Spring retourn ruller  
Mètre roulant



| No.  | Länge |    |    |
|------|-------|----|----|
| 1431 | 2 m   | ?? | 10 |

### Holzgliedermaßstab, Profiausführung

Spring retourn ruller  
Mètre roulant



| No.    | Länge |    |    |
|--------|-------|----|----|
| 1431 H | 2 m   | ?? | 10 |

### Universal Schaltschrankschlüssel

- zum Öffnen und Schließen von Schaltschränken, Schaltanlagen, technischen Schließungen bei Klima und Lüftung, Revisionsklappen
- im Aussenbereich für Verriegelung von Klappen bei Straßenlampen, Abfallbehältern, Müllcontainern, usw.
- mit Kette, Bit und Adapter, 5 mm Vierkant für Heizungsentlüftung
- unerlässlich für Industrie, Handwerk, Kommunen, Energieversorger, Stadtwerke, Elektro - allgemein, Heimwerker, Sanitär, Bau- Handwerker, Hausmeister, etc.

### Multi fitting Switchboard-Key-Universal

- for opening and closing of switchboards,
- 1 tool for several applications
- 5 mm square for radiator valves
- with chain, bit and adaptor

### Clé universelle pour armoires électriques

- pour ouvrir et fermer des armoires électriques
- 1 outil pour applications différentes applications différentes
- 5 mm carré pour les valves de chauffages
- avec chaîne, bit and adaptateur

### Llave universal para armarios de conexiones

- para abrir y cerrar des armarios de conexiones
- 1 herramienta para aplicaciones varias
- 5 mm cuadrado para válvulas de calefacción con catena, bit y adaptador



| No.  | Größe      |    |    |
|------|------------|----|----|
| 1438 | 72 x 72 mm | 80 | 10 |

### Universalschlüssel "Profi-Key"

- zum Öffnen und Schließen von technischen Schließungen bei Klima + Lüftung und Revisionsklappen
- im Aussenbereich für Verriegelung von Klappen bei Straßenlampen, Abfallbehältern, Müllcontainern, usw.
- mit Kette, Bit und Adapter, 5 mm Vierkant für Heizungsentlüftung
- unerlässlich für Industrie, Handwerk, Kommunen, Energieversorger, Stadtwerke, Elektro-allgemein, Heimwerker, Sanitär, Bau- Handwerke, Hausmeister, etc.

### Multi fitting Key Universal "Profi-Key"

- for all usual technical shut-off systems
- 1 tool for several applications
- 5 mm square for radiator valves

### Clé universelle "Profi-Key"

- pour toutes fermetures techniques
- 1 outil pour applications différentes applications différentes
- 5 mm carré pour les valves de chauffages

### Llave universal "Profi-Key"

- para todo cierres técnicos
- 1 herramienta para aplicaciones varias
- 5 mm cuadrado para válvulas de calefacción



| No.  | Größe      |    |    |
|------|------------|----|----|
| 1439 | 90 x 62 mm | 80 | 10 |

### Handnietzange mit auswechselbaren Handstücken

Plier for rivets  
Pincas à river



| No.  | Größe                    |  |  |
|------|--------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1440 | 2,4 - 3,0 - 4,0 - 4,8 cm | 440                                                                               | 5                                                                                 |

### Standhahnmutterzange

Basin wrenches  
Clé à écrou  
Llave de lavabo



| No.  |  |  |  |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1567 | 235                                                                                 | 500                                                                                 | 1                                                                                   |

### Nietzangensortiment für Alu und Stahlnieten von 2,4-10 mm, Griff umklappbar in Kunststoffkassette

Rivertplier set  
Pince à river assortement



| No.  | Größe |  |  |
|------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1441 |       | 2460                                                                                | 1                                                                                   |

### Sanitärkreuzschlüssel

Sanitary cross wrenches  
Clés à croix pour installations sanitaires



| No.  | Zoll/Inch               |  |  |  |
|------|-------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1538 | 3/8" - 1/2" - 3/4" - 1" | 200x200                                                                               | 135                                                                                   | 1                                                                                     |
|      | M 8 - M 10 - M 12       |                                                                                       |                                                                                       |                                                                                       |

### Kartuschenpresse, Alugehäuse

Gun cartridge  
Presse de cartouche



| No.  | Größe |  |  |
|------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1442 |       | 560                                                                                 | 1                                                                                   |

### Schraub-Locher zum Stanzen von Edelstahlspülen

Screw punches to punch holes in stainless steel sinks  
Perseur de tour pour acier inox



| No.  | Ø  |  |  |
|------|----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1539 | 28 | 120                                                                                   | 5                                                                                     |
|      | 32 | 130                                                                                   | 5                                                                                     |
|      | 35 | 165                                                                                   | 5                                                                                     |
|      | 36 | 195                                                                                   | 5                                                                                     |

**Wasserhahnfräsapparat**

Tap re seating tools

Rectificateur de sieges de robinets

Rectificadores de asientos de grifos



| No.  | Ø AF                    |  |  |
|------|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1540 | 3/8" - 1/2" - 3/4" - 1" | 355                                                                               | 1                                                                                 |

**Ersatzfräser zu Art.-No. 1540**

Spare part for Art.-No. 1540

Fraises pour Art.-No. 1540

Fresas del Art.-No. 1540



| No.  | Ø AF |  |  |
|------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1541 | 1/4" | 5                                                                                   | 1                                                                                   |
|      | 3/8" | 15                                                                                  | 1                                                                                   |
|      | 1/2" | 20                                                                                  | 1                                                                                   |
|      | 3/4" | 30                                                                                  | 1                                                                                   |
|      | 1"   | 35                                                                                  | 1                                                                                   |

**Kettenrohrzange**

chain pipe wrench

Serre-Tube a chaine

Llave de eadena para tubos



| No.  | Ø   | mm   |  |  |
|------|-----|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1542 | 2"  | 510  | 2600                                                                                | 1                                                                                   |
|      | 3"  | 710  | 4300                                                                                | 1                                                                                   |
|      | 4"  | 915  | 6600                                                                                | 1                                                                                   |
|      | 6"  | 1065 | 9200                                                                                | 1                                                                                   |
|      | 8"  | 1280 | 13100                                                                               | 1                                                                                   |
|      | 12" | 1600 | 22300                                                                               | 1                                                                                   |

**Ersatzkette für Art.-No. 1542**

spare parts for Art.-No. 1542

Pieces de Rechange pour chaines



| No.  | Ø   | mm   |  |  |
|------|-----|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1543 | 2"  | 380  | 500                                                                                 | 1                                                                                   |
|      | 3"  | 490  | 750                                                                                 | 1                                                                                   |
|      | 4"  | 610  | 1400                                                                                | 1                                                                                   |
|      | 6"  | 850  | 2200                                                                                | 1                                                                                   |
|      | 8"  | 1000 | 3100                                                                                | 1                                                                                   |
|      | 12" | 1450 | 5700                                                                                | 1                                                                                   |

**Ersatzbacken für Art.-No. 1542, paarweise**

Jaws for Art.-No. 1542, pair

Pieces de Rechange



| No.  | Ø   |  |  |
|------|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1544 | 2"  | 670                                                                                   | 1                                                                                     |
|      | 3"  | 1000                                                                                  | 1                                                                                     |
|      | 4"  | 1450                                                                                  | 1                                                                                     |
|      | 6"  | 2100                                                                                  | 1                                                                                     |
|      | 8"  | 2700                                                                                  | 1                                                                                     |
|      | 12" | 4450                                                                                  | 1                                                                                     |





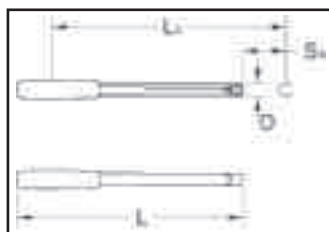
## PADRE – NEUES DREHMOMENTSCHLÜSSEL-PROGRAMM PADRE – NEW TORQUE WRENCHES PROGRAMME

### Drehmomentschlüssel mit Drehknopf-Umsteck-Ratschenkopf 1/4", 3/8", 1/2", 3/4", 1"

- Auflösungsgenauigkeit  $\pm 3\%$  Toleranz vom eingestellten Skalenwert
- wiederholgenau und präzise bei mindestens 5.000 Lastwechseln für den kontrollierten Rechts- und Linksanzug
- mit geriffeltem Drehknopf am Umsteckvierkant zum Vorziehen von Hand, ändern der Betätigungsrichtung erfolgt durch Durchstecken des Antriebsvierkantes
- Doppelskala in N-m und lbf-ft Teilung für präzise Einstellung, inklusive fein teilbarer N-m Mikrometerskala für eine feine und präzise Einstellung
- große Sichtfenster mit Lupenfunktion optimiert die Ablesbarkeit
- Deutlich hör- und fühlbare Drehmomentauslösung durch Kurzwegauslösung
- Mit robustem 30-Zahn-Ratschenmechanismus
- Einstellen des Drehmoments schnell und sicher durch Drehen des Handgriffs
- sichere Verriegelungsmöglichkeit am Handgriff
- ergonomischer und handfreundlicher 2-Komponentengriff mit Weichzone
- Vierkantantrieb nach DIN 3120 - ISO 1174 mit Kugelarretierung
- individuelle Seriennummer zur deutlichen Produktidentifikation, inklusive Zertifikat nach DIN EN ISO 6789 – rückführbar auf nationale Normale.

### Torque wrench with rotary mushroom ratchet head 1/4", 3/8", 1/2", 3/4", 1"

- Actuation accuracy:  $\pm 3\%$  tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- Torque setting by pulling out and pushing in the slide-in knob at the end of the handle
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- Double scale in N-m and lbf-ft divisions for precise adjustment includes micrometer scale in N-m divisions for precise and fine adjustment
- Large vision panel, precise adjustment using a magnifying glass
- An audible and palable signal when the desired torque value is achieved
- With exact gearing 30-teeth ratchet mechanism
- Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- Individually marked with serial number - unique product identification. Includes test certificate in accordance with DIN EN ISO 6789.



| No.  |      | Nm         | Teilung Nm | lbf.ft    | L mm   | D mm | H mm |  |      |   |
|------|------|------------|------------|-----------|--------|------|------|--|------|---|
| 1965 | 1/4" | 1 - 25     | 0,10       | 0,8 - 18  | 289,0  | 35,0 | 18,0 |  | 460  | 1 |
| 1966 | 3/8" | 5 - 50     | 0,25       | 4 - 37    | 350,0  | 45,0 | 23,0 |  | 610  | 1 |
| 1967 | 1/2" | 10 - 100   | 0,50       | 8 - 75    | 412,0  | 45,0 | 23,0 |  | 910  | 1 |
| 1968 | 1/2" | 20 - 200   | 1,00       | 15 - 150  | 500,0  | 45,0 | 23,0 |  | 1300 | 1 |
| 1969 | 1/2" | 60 - 320   | 1,00       | 45 - 236  | 585,0  | 45,0 | 23,0 |  | 1450 | 1 |
| 1970 | 1/2" | 80 - 420   | 1,00       | 60 - 310  | 678,0  | 45,0 | 23,0 |  | 2100 | 1 |
| 1971 | 3/4" | 100 - 550  | 1,00       | 5 - 405   | 960,0  | 69,0 | 33,0 |  | 3800 | 1 |
| 1972 | 3/4" | 140 - 750  | 10,00      | 150 - 550 | 1250,0 | 69,0 | 33,0 |  | 4800 | 1 |
| 1973 | 1"   | 300 - 1000 | 20,00      | 220 - 730 | 1500,0 | 90,0 | 36,0 |  | 5800 | 1 |

### Drehmomentschlüssel mit Umschalt-Ratschenkopf 1/4", 3/8", 1/2"

- Auslösegenauigkeit: + - 3% Toleranz vom eingestellten Skalenwert
- wiederholgenau und präzise bei mindestens 5.000 Lastwechseln für den kontrollierten Rechtsanzug
- Linksanzugssperre - unbegrenztes Lösemoment ohne Drehmomentfunktion,
- Doppelskala in N-m und lbf-ft Teilung für präzise Einstellung inklusive fein teilbarer N-m Mikrometerskala für eine feine und präzise Einstellung
- große Sichtfenster mit Lupenfunktion optimiert die Ablesbarkeit
- deutlich hör- und fühlbare Drehmomentauslösung durch Kurzwegauslösung,
- mit robustem 30-Zahn Ratschenmechanismus
- mit Druckknopf-Schnelllösefunktion am Ratschenkopf
- Einstellen des Drehmoments schnell und sicher durch Drehen des Handgriffs
- sichere Verriegelungsmöglichkeit am Handgriff
- ergonomischer und handfreundlicher 2-Komponentengriff mit Weichzone
- Vierkantantrieb nach DIN 3120 - ISO 1174 mit Kugelarretierung
- individuelle Seriennummer zur deutlichen Produktidentifikation, inklusive Zertifikat nach DIN EN ISO 6789 - rückführbar auf nationale Normale

### Torque wrench with reversible ratchet-head 1/4", 3/8", 1/2"

- Actuation accuracy: + - 3% tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Double scale in N-m and lbf-ft divisions for precise adjustment includes micrometer scale in N-m divisions for precise and fine adjustment
- Large vision panel, precise adjustment using a magnifying glass
- An audible and palpable signal when the desired torque value is achieved
- With exact gearing 30-teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- Two-component handle with a soft zone, is ergonomic in design and comfortable in the hand
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- Individually marked with serial number - unique product identification. Includes test certificate in accordance with DIN EN ISO 6789 national standard



| No.  |      | Nm       | lbf.ft   | Teilung Nm | L mm  | D mm | H mm |  |        |
|------|------|----------|----------|------------|-------|------|------|--|--------|
| 1974 | 1/4" | 1 - 25   | 0,8 - 18 | 0,8 - 18   | 289,0 | 35,0 | 18,0 |  | 460 1  |
| 1975 | 3/8" | 5 - 50   | 4 - 37   | 0,10       | 350,0 | 45,0 | 23,0 |  | 610 1  |
| 1976 | 1/2" | 10 - 100 | 8 - 75   | 0,25       | 412,0 | 45,0 | 23,0 |  | 910 1  |
| 1977 | 1/2" | 20 - 200 | 15 - 150 | 0,50       | 500,0 | 45,0 | 23,0 |  | 1300 1 |
| 1978 | 1/2" | 60 - 320 | 45 - 236 | 1,00       | 585,0 | 45,0 | 23,0 |  | 1450 1 |
| 1979 | 1/2" | 80 - 420 | 60 - 310 | 1,00       | 678,0 | 45,0 | 23,0 |  | 2100 1 |



### Drehmomentschlüssel mit Einsteck-Werkzeugaufnahme 9x12 mm, 14x18 mm

- Auslösegenauigkeit + - 3% Toleranz vom eingestellten Skalenwert
- wiederholgenau und präzise bei mindestens 5.000 Lastwechseln, für den kontrollierten Rechts- und Linksanzug
- Ändern der Betätigungsrichtung erfolgt durch Drehen des Drehmomentschlüssels
- Doppelskala in N-m und lbf-ft Teilung für präzise Einstellung, inklusive fein teilbarer N-m Mikrometerskala für eine feine und präzise Einstellung
- große Sichtfenster mit Lupenfunktion optimiert die Ablesbarkeit
- deutlich hör- und fühlbare Drehmomentauslösung durch Kurzwegauslösung,
- Einstellen des Drehmoments schnell und sicher durch Drehen des Handgriffs,
- sichere Verriegelungsmöglichkeit am Handgriff
- ergonomischer und handfreundlicher 2-Komponentengriff mit Weichzone
- mit Schnell-Verriegelungs-Steckverbindung für 9x12 bzw. 14x18 Einsteckwerkzeuge
- individuelle Seriennummer zur deutlichen Produktidentifikation, inklusive Zertifikat nach DIN EN ISO 6789 - rückführbar auf nationale Normale

### Torque wrench with rectangular tool holder 9x12 mm, 14x18 mm

- Actuation accuracy: + - 3% tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- Easy to adjust from clockwise to counter clockwise by turning the torque wrench 180°
- Double scale in N-m and lbf-ft divisions for precise adjustment. With additional micrometer scale in N-m divisions for precise and fine adjustment
- Large vision panel precise adjustment using a magnifying glass
- An audible and palpable signal when the desired torque value is achieved
- Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- Two-component handle with a soft zone, is ergonomic in design and comfortable in the hand
- Snap lock tool holder available for replaceable 9x12 or 14x18 end tools
- Individually marked with serial number - unique product identification. Includes test certificate in accordance with DIN EN ISO 6789 national standard



| No.  |         | Nm       | lbf.ft   | Teilung Nm | L mm  | L-K mm | S-K mm |  | g    |   |
|------|---------|----------|----------|------------|-------|--------|--------|--|------|---|
| 1980 | 9 x 12  | 1 - 25   | 0,8 - 18 | 0,10       | 280,0 | 245,0  | 17,5   |  | 300  | 1 |
| 1981 | 9 x 12  | 5 - 50   | 4 - 37   | 0,25       | 335,0 | 295,0  | 17,5   |  | 450  | 1 |
| 1982 | 9 x 12  | 10 - 100 | 8 - 75   | 0,50       | 375,0 | 335,0  | 17,5   |  | 600  | 1 |
| 1983 | 9 x 12  | 20 - 200 | 15 - 150 | 1,00       | 465,0 | 425,0  | 17,5   |  | 850  | 1 |
| 1984 | 14 x 18 | 20 - 200 | 15 - 150 | 1,00       | 470,0 | 435,0  | 25,0   |  | 900  | 1 |
| 1985 | 14 x 18 | 60 - 320 | 45 - 236 | 1,00       | 565,0 | 530,0  | 25,0   |  | 1200 | 1 |
| 1986 | 14 x 18 | 80 - 420 | 60 - 310 | 1,00       | 650,0 | 435,0  | 25,0   |  | 1600 | 1 |

### Drehmomentschlüssel für Einsteckwerkzeuge ohne Skala

- für die Serienproduktion
- Genauigkeit ± 4% vom Skalenwert (DIN EN ISO 6789:2003)
- ohne Skala
- Aufnahme für Einsteckwerkzeuge
- Eingestellt am Drehmomentprüfgerät

2 - 200 Nm



### Torque wrench for plug tools without scale

- for serial production
- accuracy ± 4% from measurement (DIN EN ISO 6789:2003)
- without scale
- intake for plug tools
- adjusted on a torque tester

| No.  | Antrieb | Einstellber. Nm | lbf.ft | mm  |  |  |  | g   |   |
|------|---------|-----------------|--------|-----|--|--|--|-----|---|
| 1990 | 9x12    | 1 - 25          | 0,8-18 | 190 |  |  |  | 234 | 1 |
| 1991 | 9x12    | 5 - 50          | 4-37   | 250 |  |  |  | 300 | 1 |
| 1992 | 9x12    | 15 - 85         | 12-64  | 330 |  |  |  | 370 | 1 |
| 1994 | 14x18   | 20 - 200        | 15-150 | 410 |  |  |  | 780 | 1 |

**Vierkant-Einsteckwerkzeug**

Square insert tool  
Pièce quatre-pans  
Cabeza de cuadrado



| No.  |      | mm    |  |  |
|------|------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1815 | 1/4" | 9x12  | 70                                                                                  | 3                                                                                   |
| 1816 | 3/8" | 9x12  | 74                                                                                  | 3                                                                                   |
| 1817 | 1/2" | 9x12  | 80                                                                                  | 3                                                                                   |
| 1818 | 1/2" | 14x18 | 208                                                                                 | 3                                                                                   |
| 1819 | 3/4" | 14x18 | 390                                                                                 | 3                                                                                   |

**Umschaltknarre einsteckbar**

Reversible ratchet, replaceable  
Cliquet interchangeable, échangeable  
Cabeza con carraca reversible



| No.  |      | mm    |  |  |
|------|------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1820 | 1/4" | 9x12  | 59                                                                                  | 3                                                                                   |
| 1821 | 3/8" | 9x12  | 140                                                                                 | 3                                                                                   |
| 1822 | 1/2" | 9x12  | 150                                                                                 | 3                                                                                   |
| 1823 | 1/2" | 14x18 | 320                                                                                 | 3                                                                                   |
| 1824 | 3/4" | 14x18 | 839                                                                                 | 3                                                                                   |

**Maul Einsteckwerkzeug**

Open end tools, Clés à fourche  
Cabeza intercambiable, boca fija



1830 =  9x12 mm



1831 =  14x18 mm

| No.  | Größe | mm   |
|------|-------|------|
| 1830 | 7     | 9x12 |
|      | 8     | 9x12 |
|      | 9     | 9x12 |
|      | 10    | 9x12 |
|      | 11    | 9x12 |
|      | 12    | 9x12 |
|      | 13    | 9x12 |
|      | 14    | 9x12 |
|      | 15    | 9x12 |
|      | 16    | 9x12 |
|      | 17    | 9x12 |
|      | 18    | 9x12 |
|      | 19    | 9x12 |

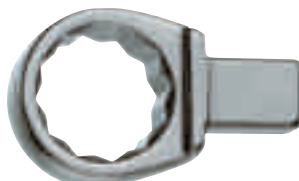
| No.  | Größe | mm    |
|------|-------|-------|
| 1831 | 13    | 14x18 |
|      | 14    | 14x18 |
|      | 15    | 14x18 |
|      | 16    | 14x18 |
|      | 17    | 14x18 |
|      | 18    | 14x18 |
|      | 19    | 14x18 |
|      | 21    | 14x18 |
|      | 22    | 14x18 |
|      | 24    | 14x18 |
|      | 27    | 14x18 |
|      | 30    | 14x18 |
|      | 32    | 14x18 |

**Ring Einsteckwerkzeug**

Ring wrench tools, Clés polygonales  
Cabeza intercambiable, boca estrella



1835 =  9x12 mm



1836 =  14x18 mm

| No.  | Größe | mm   |
|------|-------|------|
| 1835 | 7     | 9x12 |
|      | 8     | 9x12 |
|      | 10    | 9x12 |
|      | 11    | 9x12 |
|      | 12    | 9x12 |
|      | 13    | 9x12 |
|      | 14    | 9x12 |
|      | 15    | 9x12 |
|      | 16    | 9x12 |
|      | 17    | 9x12 |
|      | 18    | 9x12 |
|      | 19    | 9x12 |
|      | 21    | 9x12 |
|      | 22    | 9x12 |

| No.  | Größe | mm    |
|------|-------|-------|
| 1836 | 13    | 14x18 |
|      | 14    | 14x18 |
|      | 15    | 14x18 |
|      | 16    | 14x18 |
|      | 17    | 14x18 |
|      | 18    | 14x18 |
|      | 19    | 14x18 |
|      | 21    | 14x18 |
|      | 22    | 14x18 |
|      | 24    | 14x18 |
|      | 27    | 14x18 |
|      | 30    | 14x18 |
|      | 32    | 14x18 |
|      | 34    | 14x18 |
|      | 36    | 14x18 |
|      | 41    | 14x18 |



**Drehknopf-Umsteckvierkant 1/4", 3/8", 1/2", 3/4", 1"**  
mit Riffelung zum schnelleren Voranzen der Schraubverbindung  
verhindert ungewolltes Herausziehen des Vierkant  
Vierkantantrieb nach DIN 3120 - ISO 1174 mit Kugelarretierung

**Rotary square box wrench 1/4", 3/8", 1/2", 3/4", 1"**  
Enables quick pre-fastening of the screw connections especially  
in constrained spaces. Simple to be used in place of the standard  
box wrench. Square drive adaptor to DIN 3120 - ISO 1174 with  
ball lock.

| No.  |  |  | D mm | L mm |  |  |
|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1832 | 3/8"                                                                              | 1/4"                                                                              | 31,0 | 33,0 | 21                                                                                | 1                                                                                   |
| 1833 | 3/8"                                                                              | 3/8"                                                                              | 31,0 | 33,0 | 21                                                                                | 1                                                                                   |
| 1834 | 1/2"                                                                              | 3/8"                                                                              | 39,0 | 52,0 | 65                                                                                | 1                                                                                   |
| 1837 | 1/2"                                                                              | 1/2"                                                                              | 39,0 | 52,0 | 65                                                                                | 1                                                                                   |



**T-Griff Antriebsvierkant 1/4", 3/8", 1/2"**  
ermöglicht schnellen und einfachen Voranzen der Schraubver-  
bindungen, erleichtert das Einsetzen der Radverschraubung  
auch ohne Drehmomentschlüssel, besonders hilfreich bei  
beengten Platzverhältnissen durch T-Griff, einfach anstelle  
des Standardantriebsvierkant einzusetzen, ergonomisch  
geformter T-Griff, Vierkantantrieb nach DIN 3120 - ISO 1174  
mit Kugelarretierung

**T-handle box wrench 1/4", 3/8"m 1/2"**  
Enables quick pre-fastening of the screw connections.  
Especially for using in confined spaces. Especially suitable for  
rapid screw tightening with the T-handle. It is simply to be used  
in place of the standard box wrench. Ergonomically shaped T-  
handle. Square drive adaptor to DIN 3120 - ISO 1174 with ball  
lock.

| No.  |  |  | D mm  | L mm |  |  |
|------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------|------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1838 | 3/8"                                                                               | 1/4"                                                                               | 83,0  | 72,0 | 51                                                                                 | 1                                                                                    |
| 1839 | 3/8"                                                                               | 3/8"                                                                               | 83,0  | 72,0 | 51                                                                                 | 1                                                                                    |
| 1847 | 1/2"                                                                               | 3/8"                                                                               | 100,0 | 83,0 | 97                                                                                 | 1                                                                                    |
| 1848 | 1/2"                                                                               | 1/2"                                                                               | 100,0 | 83,0 | 107                                                                                | 1                                                                                    |



**Einsteck-Adapter 9x12 mm, 14x18 mm**  
mit Schnellverriegelungs-Steckverbindung für 9x12 bzw. 14x18  
Einsteckwerkzeuge, mit Stiftsicherung, verchromt

**Push fit jaw wrench 9x12 mm, 14x18 mm**  
Snap lock tool holder available for replaceable 9x12 or 14x18  
end tools with a locking pin, chrome plated

| No.  |  |  | S mm | B mm | H mm |  |  |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|------|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1872 | 9 x 12                                                                              | 14 X 18                                                                             | 30,5 | 31,0 | 26,0 | 120                                                                                   | 1                                                                                     |
| 1873 | 14 x 18                                                                             | 9 x 12                                                                              | 27,0 | 28,0 | 21,0 | 120                                                                                   | 1                                                                                     |



**Einsteck-Anschweißstück mit Stiftsicherung,  
brüniert**

**Push fit weld on head with a locking pin,  
burnished**

| No.  |  | Anschweißmaß | S mm | B mm | H mm |  |  |
|------|-------------------------------------------------------------------------------------|--------------|------|------|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1874 | 9 x 12                                                                              | 8 x 14       | 14,5 | 14,0 | 14,5 | 47                                                                                    | 1                                                                                     |
| 1875 | 14 x 18                                                                             | 11 x 25      | 12,0 | 25,0 | 21,5 | 100                                                                                   | 1                                                                                     |



## Elektronisches Werkstattprüfgerät für Drehmomentschlüssel, 5 - 500 N m

- hohe Messgenauigkeit: + 1% Toleranz von Ablesewerten, +/- 1 Digit zur Überprüfung bzw. Einstellung von Drehmomentschlüsseln sowie Drehmomentschraubendreher im Bereich von 5 - 500 Nm, für die kontrollierte Rechts- und Linksanzugsprüfung, einfaches elektronisches Prüfgerät mit integriertem Torsions-Messwertgeber, digitale Skala in Nm für präzise Einstellung. Anzeigemodus: First Peak (Knickpunkt-erkennung) großes LCD-Display optimiert die Ablesbarkeit mit Autoreset und Abschaltautomatik, sehr einfache und komfortable Bedienung.
- 1/4" +3/8" +1/2" +3/4" Vierkanttrieb mittels Vierkantadapter
- individuelle Seriennummer zur deutlichen Produktidentifikation inklusive Zertifikat nach DIN EN ISO 6789 - rückführbar auf nationale Normale
- netzunabhängig - inklusive 4 x AA 1,5 V LR46 Batterien inklusive Befestigungsschrauben. Lieferumfang im Kunststoffkoffer.

## Electronic workshop tester for torque wrenches, 5 - 500 Nm

- high measuring precision: + 1% tolerance of scale values, +/- 1 Digit for checking or adjusting torque wrenches and torque screwdrivers in the range from 5 to 500 Nm for controlled left-hand and right-hand tightening, simple electronic tester with integrated torsion transducer, digitale scale in Nm for precise setting. Display mode: First peak (tripping point detection)
- large LCD optimises scale legibility with automatic reset and automatic shutdown, very simple and convenient operation.
- 1/4" +3/8" +1/2" +3/4" square drive by means of square adapter, individual serial number for reliable product identification including certificate to DIN EN ISO 6789 - retraceable to national normals
- no main power required - includes 4 x AA 1,5 V LR46 batteries including mounting screws, scope of supply in plastic carrying case.

| No.  | □                   | Messber. Nm | L mm  | B mm  | H mm  | ⚖    | 📦 |
|------|---------------------|-------------|-------|-------|-------|------|---|
| 1876 | 1/4"+3/8" 1/2"+3/4" | 5 - 500     | 180,0 | 130,0 | 147,0 | 4820 |   |



## Selbstausschließende, automatische Drehmomentschlüssel Self-releasing, automatic torque wrench

### Drehmomentschlüssel kompakte Bauform mit Doppelskala und Feinskala

- Rechts- und Linksanzug
- Genauigkeit ± 4% vom Skalenwert (DIN EN ISO 6789:2003)
- Feine Skaleneinteilung
- Doppelskala (Nm / lbf.ft)
- Umschaltknarre (60 Zähne)
- Seriennummer und Zertifikat

### Torque wrench compact design with double-scale and fine-scale

- clock- and counter-clockwise operation
- accuracy ± 4% from scale (DIN EN ISO 6789:2003)
- fine scale split
- double-scale (Nm / lbf.ft)
- reversible ratchet (60 teeth)
- serial number and certificate

2 - 25 Nm



| No.  | □    | Messber. Nm | lbf.ft      | Teilung Nm | Feinskala Nm | mm  | ⚖   | 📦 |
|------|------|-------------|-------------|------------|--------------|-----|-----|---|
| 1851 | 1/4" | 2 - 10      | 1,5 - 8,0   | 0,5        | 0,10         | 195 | 320 | 1 |
| 1852 | 3/8" | 2 - 10      | 1,5 - 8,0   | 0,5        | 0,10         | 195 | 325 | 1 |
| 1853 | 1/4" | 5 - 25      | 3,75 - 17,5 | 1,25       | 0,25         | 195 | 328 | 1 |
| 1854 | 3/8" | 5 - 25      | 3,75 - 17,5 | 1,25       | 0,25         | 195 | 332 | 1 |
| 1855 | 1/2" | 5 - 25      | 3,75 - 17,5 | 1,25       | 0,25         | 195 | 345 | 1 |

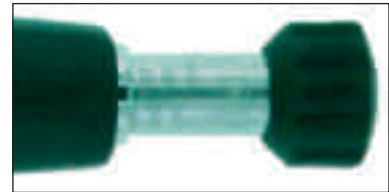
### Drehmomentschlüssel mit Doppelskala

- Rechts- und Linksanzug
- Genauigkeit  $\pm 4\%$  vom Skalenwert (DIN EN ISO 6789:2003)
- Doppelskala (Nm / lbf.ft)
- Umschaltknarre (60 Zähne)
- Seriennummer und Zertifikat

10 - 300 Nm

### Torque wrench with double-scale

- clock- and counter-clockwise operation
- accuracy  $\pm 4\%$  from scale (DIN EN ISO 6789:2003)
- double-scale (Nm / lbf.ft)
- reversible ratchet (60 teeth)
- serial number and certificate



| No.  | ■    | Messber. Nm | lbf.ft   | Teilung Nm | mm  |  |  |  | g    |   |
|------|------|-------------|----------|------------|-----|--|--|--|------|---|
| 1856 | 3/8" | 10 - 60     | 8 - 50   | 2,5        | 380 |  |  |  | 800  | 1 |
| 1857 | 1/2" | 10 - 60     | 8 - 50   | 2,5        | 380 |  |  |  | 800  | 1 |
| 1858 | 1/2" | 30 - 130    | 20 - 100 | 5,0        | 470 |  |  |  | 1100 | 1 |
| 1859 | 1/2" | 50 - 300    | 40 - 220 | 12,5       | 540 |  |  |  | 1200 | 1 |

### Drehmomentschlüssel mit Doppelskala und Feinskala Rechts- und Linksanzug

- Genauigkeit  $\pm 3\%$  vom Skalenwert (DIN EN ISO 6789:2003)
- Feine Skaleneinteilung
- Sichere Verriegelung des Stellknopfes
- Doppelskala (Nm / lbf.ft)
- Hebelumschaltknarre (32 Zähne)
- Seriennummer und Zertifikat

5 - 220 Nm

### Torque wrench with double-scale and fine-scale

- clock- and counter-clockwise operation
- accuracy  $\pm 3\%$  from scale (DIN EN ISO 6789:2003)
- fine scale split
- safety locking of adjusting knob
- double-scale (Nm / lbf.ft)
- lever type ratchet (32 teeth)
- serial number and certificate



| No.  | ■    | Messber. Nm | lbf.ft   | Teilung Nm | Feinskala Nm | mm  |  |  | g    |   |
|------|------|-------------|----------|------------|--------------|-----|--|--|------|---|
| 1860 | 3/8" | 5 - 50      | 5 - 35   | 2,5        | 0,5          | 365 |  |  | 890  | 1 |
| 1861 | 1/2" | 5 - 50      | 5 - 35   | 2,5        | 0,5          | 365 |  |  | 900  | 1 |
| 1862 | 1/2" | 20 - 100    | 16 - 74  | 5,0        | 1,00         | 465 |  |  | 1100 | 1 |
| 1863 | 1/2" | 40 - 220    | 30 - 160 | 10,0       | 1,00         | 530 |  |  | 1250 | 1 |

### Drehmomentschlüssel mit 2K-Griff, Doppelskala und Feinskala

- Rechts- und Linksanzug
- Genauigkeit  $\pm 3\%$  vom Skalenwert (DIN EN ISO 6789:2003)
- Feine Skaleneinteilung
- 2K-Griff für ermüdungsfreies Arbeiten
- Verstellung mit der ganzen Hand
- Sichere Verriegelung des Stellknopfes
- Doppelskala (Nm / lbf.ft)
- Hebelumschaltknarre (32 Zähne)
- Seriennummer und Zertifikat

### Torque wrench with two-component handle, double-scale and fine-scale

- clock- and counter-clockwise operation
- accuracy  $\pm 3\%$  from scale (DIN EN ISO 6789:2003)
- fine scale split
- two-component handle for fatigue-free working
- adjusting with complete hand
- safety locking of adjusting knob
- double-scale (Nm / lbf.ft)
- lever type ratchet (32 teeth)
- serial number and certificate

10 - 330 Nm



| No.  |      | Messber. Nm | lbf.ft   | Teilung Nm | Feinskala Nm | mm  |  |  |      |   |
|------|------|-------------|----------|------------|--------------|-----|--|--|------|---|
| 1864 | 3/8" | 10 - 50     | 8 - 37   | 2,5        | 0,5          | 365 |  |  | 940  | 1 |
| 1865 | 1/2" | 10 - 50     | 8 - 37   | 2,5        | 0,5          | 365 |  |  | 940  | 1 |
| 1866 | 1/2" | 20 - 100    | 16 - 74  | 5,0        | 1,0          | 465 |  |  | 1150 | 1 |
| 1867 | 1/2" | 40 - 220    | 30 - 160 | 10,0       | 1,0          | 530 |  |  | 1285 | 1 |
| 1868 | 1/2" | 60 - 330    | 45 - 240 | 15,0       | 2,5          | 570 |  |  | 1350 | 1 |

### Drehmomentschlüssel für Einsteckwerkzeuge mit Doppelskala und Feinskala

- Rechts- und Linksanzug
- Genauigkeit  $\pm 3\%$  vom Skalenwert (DIN EN ISO 6789:2003)
- Feine Skaleneinteilung
- Sichere Verriegelung des Stellknopfes
- Doppelskala (Nm / lbf.ft)
- Aufnahme für Einsteckwerkzeuge
- Seriennummer und Zertifikat

### Torque wrench for plug tools with double-scale and fine-scale

- clock- and counter-clockwise operation
- accuracy  $\pm 3\%$  from scale (DIN EN ISO 6789:2003)
- fine scale split
- safety locking of adjusting knob
- double-scale (Nm / lbf.ft)
- intake for plug tools
- serial number and certificate

5 - 220 Nm



| No.  |       | Messber. Nm | lbf.ft   | Teilung Nm | Feinskala Nm | mm  |  |  |      |   |
|------|-------|-------------|----------|------------|--------------|-----|--|--|------|---|
| 1869 | 9x12  | 5 - 50      | 5 - 35   | 2,5        | 0,5          | 330 |  |  | 725  | 1 |
| 1870 | 9x12  | 20 - 100    | 16 - 74  | 5,0        | 1,00         | 425 |  |  | 970  | 1 |
| 1871 | 14x18 | 40 - 220    | 30 - 160 | 10,0       | 1,00         | 500 |  |  | 1150 | 1 |



### Drehmomentschlüssel für Einsteckwerkzeuge ohne Skala

- für die Serienproduktion
- Genauigkeit  $\pm 4\%$  vom Skalenwert (DIN EN ISO 6789:2003)
- ohne Skala
- Aufnahme für Einsteckwerkzeuge
- Einstellt am Drehmomentprüfgerät

### Torque wrench for plug tools without scale

- for serial production
- accuracy  $\pm 4\%$  from measurement (DIN EN ISO 6789:2003)
- without scale
- intake for plug tools
- adjusted on a torque tester

2 - 200 Nm



| No.  | ■     | Einstellb. Nm | lbf.ft      | mm  |  |  |  |  | g   |   |
|------|-------|---------------|-------------|-----|--|--|--|--|-----|---|
| 1877 | 9x12  | 2 - 12        | 1,5 - 8,9   | 125 |  |  |  |  | 190 | 1 |
| 1878 | 9x12  | 5 - 25        | 3,7 - 18,5  | 180 |  |  |  |  | 250 | 1 |
| 1879 | 9x12  | 15 - 35       | 11,0 - 26,0 | 180 |  |  |  |  | 250 | 1 |
| 1880 | 9x12  | 10 - 80       | 7,5 - 59,0  | 240 |  |  |  |  | 330 | 1 |
| 1881 | 9x12  | 15 - 85       | 11,0 - 62,5 | 370 |  |  |  |  | 370 | 1 |
| 1882 | 14x18 | 50 - 200      | 6,5 - 147,5 | 405 |  |  |  |  | 740 | 1 |

### Einstellschlüssel für Drehmomentschlüssel ohne Skala

Adjusting spanner for torque wrench without scale

| No.  | Für Typ     | mm  | g   |   |
|------|-------------|-----|-----|---|
| 1883 | 1877 - 1882 | 142 | 200 | 1 |



### Drehmomentschlüssel 3/4", Messbereich 200 - 1000 Nm

Torque wrench, 3/4" square drive, torque range 200 - 1000 Nm



| No.    | ■    | Messbereich Nm | mm   | g    |   |
|--------|------|----------------|------|------|---|
| 1884   | 3/4" | 200 - 1000     | 1320 | 5600 | 1 |
| 1884-1 | 3/4" | 100 - 500      | 1320 | 5600 | 1 |
| 1884-2 | 3/4" | 160 - 800      | 1320 | 5600 | 1 |

### Drehmomentschlüssel 1", Messbereich 400 - 2100 Nm

Torque wrench, 1" square drive, torque range 400 - 2100 Nm



| No.  | ■  | Messbereich Nm | mm          | Rohr/Pipe | g     |   |
|------|----|----------------|-------------|-----------|-------|---|
| 1885 | 1" | 400 - 2100     | 1100 (2040) | 1090      | 13800 | 1 |

### Aluminium-Drehmomentschlüssel

- Auslösegenauigkeit  $\pm 3\%$  Toleranz vom eingestellten Skalenwert und besser
- Einsatz in fast allen industriellen Fertigungsbereichen
- je nach Option mit Druckknopf-Schnellauslösefunktion
- je nach Option mit robustem Ratschenmechanismus
- einfache Bedienung - schneller und sicherer Drehmomentanzug
- Einfach bzw. Doppelvierkant für den kontrollierten Rechts- bzw. Linksanzug
- Doppelskala in Nm und lbf-ft bzw. lbf-in Teilung für präzise Einstellung
- deutlich hör- und fühlbare Drehmomentauslösung durch Kurzwegauslösung
- sichere Verriegelungsmöglichkeit
- ergonomischer und handfreundlicher Griff
- leicht, robust und sehr werkstattfreundlich
- lange Lebensdauer und hohe Standzeiten
- höchste Präzision und Zuverlässigkeit auch bei hartem Dauergebrauch
- Einstellen des Drehmoments durch Betätigung der unverlierbaren Kurbelmechanik im Handgriff
- angenehme Einstellung durch formschönen, unverlierbaren Verstellknopf am Griffende
- verlängerbar um Arbeitsbelastung des Anwenders zu reduzieren
- extrem geringer Verschleiß durch Kräfteübertragung durch Hebelmechanik
- Vierkanttrieb nach DIN 3120 - ISO 1174 mit Kugelarretierung
- individuelle Seriennummer zur deutlichen Produktidentifikation
- inklusive Zertifikat nach DIN EN ISO 6789:2003 - rückführbar auf nationale Normale

### Aluminium torque wrench

- Actuation  $\pm 3\%$  tolerance of the set scale value or better
- Using for almost all industrial production areas
- Depending on option with ejection mechanism
- Depending on option with robust ratchet mechanism
- Easy handling - fast and secure torque value
- Single or double square for controlled fastening in clockwise and counter clockwise directions
- Double scale in Nm and lbf-ft or lbf-in divisions for precise adjustment
- An audible and palpable signal when the desired torque value is achieved
- Secure locking function
- Ergonomical and handfriendly handle
- Lightweight, robust and workshop friendly
- Long life and high service life
- Highest precision and reliability also at hard permanent use
- Torque setting by interrupting of the undetachable crank mechanism in the handle end
- Comfortable adjusting with elegant and undetachable adjustment knob at the handle end
- Prolongable to reduce the work load of the user
- Extremely low wear attributable to reduced forces in the lever mechanism
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 national standard



| No.  |   |        | Nm        | Teilung Nm | lbf.in | lbf.ft  | Teilung lbf.in | Teilung lbf.ft | mm   | H mm | L1 mm | L2 mm | L3 mm | Rohr/Pipe |      |   |
|------|---|--------|-----------|------------|--------|---------|----------------|----------------|------|------|-------|-------|-------|-----------|------|---|
| 1886 | ☞ | 1/4"   | 6-30      | 1          | 50-270 |         | 10             |                | 207  | 30   | 268   |       |       |           | 580  | 1 |
| 1887 | ☜ | 1/4"   | 6-30      | 1          | 50-270 |         | 10             |                | 207  | 30   | 268   |       |       |           | 580  | 1 |
| 1888 | ☞ | 3/8"   | 8-40      | 5          | 70-350 |         | 50             |                | 263  | 30   | 338   |       |       |           | 1000 | 1 |
| 1889 | ☜ | 3/8"   | 8-40      | 5          | 70-350 |         | 50             |                | 263  | 30   | 338   |       |       |           | 1000 | 1 |
| 1890 | ☞ | 1/2"   | 20-120    | 5          |        |         | 5              |                | 374  | 30   | 462   |       |       |           | 1500 | 1 |
| 1891 | ☜ | 1/2"   | 20-120    | 5          |        | 15-90   | 5              |                | 374  | 30   | 462   |       |       |           | 1500 | 1 |
| 1892 | ☞ | 1/2"   | 40-200    | 5          |        | 15-90   | 5              |                | 463  | 30   | 551   |       |       |           | 1400 | 1 |
| 1893 | ☜ | 1/2"   | 40-200    | 5          |        | 30-150  | 5              |                | 463  | 30   | 551   |       |       |           | 1300 | 1 |
| 1894 | ☞ | 1/2"   | 40-200    | 5          |        | 30-150  | 5              |                | 463  | 35   | 554   |       |       |           | 1400 | 1 |
| 1895 | ☜ | 1/2"   | 50-300    | 5          |        | 30-150  | 5              |                | 529  | 30   | 617   |       |       |           | 2000 | 1 |
| 1896 | ☞ | 1/2"   | 50-300    | 5          |        | 35-220  | 5              |                | 529  | 30   | 617   |       |       |           | 2000 | 1 |
| 1897 | ☜ | 3/4"   | 80-360    | 5          |        | 35-220  | 5              |                | 624  | 30   | 717   |       |       |           | 2400 | 1 |
| 1898 | ☞ | 3/4"   | 80-360    | 5          |        | 60-260  | 5              |                | 624  | 30   | 717   |       |       |           | 2400 | 1 |
| 1899 | ☜ | 3/4"   | 110-550   | 10         |        | 60-260  | 10             |                | 719  | 35   | 812   |       |       |           | 2900 | 1 |
| 1924 | ☞ | 3/4"   | 110-550   | 10         |        | 80-400  | 10             |                | 719  | 35   | 812   |       |       |           | 2900 | 1 |
| 1925 | ☜ | 3/4"   | 140-760   | 10         |        | 80-400  | 10             |                | 719  | 35   | 812   |       |       |           | 3200 | 1 |
| 1926 | ☞ | 3/4"   | 140-760   | 10         |        | 100-560 | 10             |                | 719  | 35   | 812   |       |       |           | 3200 | 1 |
| 1927 | ☜ | 3/4"   | 140-760   | 10         |        | 100-560 | 10             |                | 1297 | 35   | 812   | 1413  | 762   | 2231      | 5000 | 1 |
| 1928 | ☞ | 3/4"   | 140-760   | 10         |        | 100-560 | 10             |                | 1297 | 35   | 812   | 1413  | 762   | 2231      | 5000 | 1 |
| 1929 | ☜ | 3/4"   | 520-1000  | 10         |        | 100-560 | 10             |                | 1297 | 35   | 812   | 1413  | 762   | 2231      | 5600 | 1 |
| 1930 | ☞ | 3/4"   | 520-1000  | 10         |        | 380-730 | 10             |                | 1297 | 35   | 812   | 1413  | 762   | 2231      | 5600 | 1 |
| 1931 | ☜ | 1"     | 600-1500  | 25         |        | 380-730 |                |                | 1473 | 40   | 932   | 1608  | 925   | 2230      | 1080 | 1 |
| 1932 | ☞ | 1"     | 600-1500  | 25         |        |         |                |                | 1473 | 40   | 932   | 1608  | 925   | 2230      | 1080 | 1 |
| 1933 | ☜ | 1"     | 750-2000  | 50         |        |         |                |                | 2218 | 40   | 932   | 2353  | 925   | 2229+2231 | 1160 | 1 |
| 1934 | ☞ | 1"     | 750-2000  | 50         |        |         |                |                | 2218 | 40   | 932   | 2353  | 925   | 2229+2231 | 1160 | 1 |
| 1935 | ☜ | 1.1/2" | 1500-2000 | 50         |        |         |                |                | 2313 | 40   | 1025  | 2463  | 925   | 2229+2231 | 1320 | 1 |

### Festeingestellter Aluminium Drehmomentschlüssel

- Auslösegenauigkeit  $\pm 3\%$  Toleranz vom eingestellten Skalenwert und besser
- Einsatz in fast allen industriellen Fertigungsbereichen
- je nach Option mit Druckknopf-Schnellauslösefunktion
- einfache Bedienung - schneller und sicherer Drehmomentanzug
- Einfach bzw. Doppelvierkant für den kontrollierten Rechts- bzw. Linksanzug
- Doppelskala in Nm und lbf-ft bzw. lbf-in Teilung für präzise Einstellung
- deutlich hör- und fühlbare Drehmomentauslösung durch Kurzwegauslösung
- sichere Verriegelungsmöglichkeit
- ergonomischer und handfreundlicher Griff
- leicht, robust und sehr werkstattfreundlich
- lange Lebensdauer und hohe Standzeiten
- höchste Präzision und Zuverlässigkeit auch bei hartem Dauergebrauch
- Einstellen des Drehmoments durch Betätigung der unverlierbaren Kurbelmechanik im Handgriff
- angenehme Einstellung durch formschönen, unverlierbaren Verstellknopf am Griffende
- verlängerbar um Arbeitsbelastung des Anwenders zu reduzieren
- extrem geringer Verschleiß durch Kräftereduzierung durch Hebelmechanik
- Vierkantantrieb nach DIN 3120 - ISO 1174 mit Kugelarretierung
- individuelle Seriennummer zur deutlichen Produktidentifikation
- inklusive Zertifikat nach DIN EN ISO 6789:2003 - rückführbar auf nationale Normale

### Pre set aluminium torque wrench

- Actuation  $\pm 3\%$  tolerance of the set scale value or better
- Using for almost all industrial production areas
- Depending on option with ejection mechanism
- Easy handling - fast and secure torque value
- Single or double square for controlled fastening in clockwise and counter clockwise directions
- Double scale in Nm and lbf-ft or lbf-in divisions for precise adjustment
- An audible and palpable signal when the desired torque value is achieved
- Secure locking function
- Ergonomical and handfriendly handle
- Lightweight, robust and workshop friendly
- Long life and high service life
- Highest precision and reliability also at hard permanent use
- Torque setting by interrupting of the undetachable crank mechanism in the handle end
- Comfortable adjusting with elegant and undetachable adjustment knob at the handle end
- Prolongable to reduce the work load of the user
- Extremely low wear attributable to reduced forces in the lever mechanism
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 national standard



| No.  |   |        | Nm        | Teilung Nm | lbf.in | lbf.ft  | Teilung lbf.in | Teilung lbf.ft | mm   | H mm | L1 mm | L2 mm | L3 mm |  |      |   |
|------|---|--------|-----------|------------|--------|---------|----------------|----------------|------|------|-------|-------|-------|--|------|---|
| 2200 | ☞ | 1/4"   | 6-30      | 1          | 50-270 |         | 10             |                | 207  | 30   | 268   |       |       |  | 580  | 1 |
| 2201 | ☜ | 1/4"   | 6-30      | 1          | 50-270 |         | 10             |                | 207  | 30   | 268   |       |       |  | 580  | 1 |
| 2202 | ☞ | 3/8"   | 8-40      | 5          | 70-350 |         | 50             |                | 263  | 30   | 338   |       |       |  | 1000 | 1 |
| 2203 | ☜ | 3/8"   | 8-40      | 5          | 70-350 |         | 50             |                | 263  | 30   | 338   |       |       |  | 1000 | 1 |
| 2204 | ☞ | 1/2"   | 20-120    | 5          |        | 15-90   |                | 5              | 374  | 30   | 462   |       |       |  | 1500 | 1 |
| 2205 | ☜ | 1/2"   | 20-120    | 5          |        | 15-90   |                | 5              | 374  | 30   | 462   |       |       |  | 1500 | 1 |
| 2206 | ☞ | 1/2"   | 40-200    | 5          |        | 30-150  |                | 5              | 463  | 30   | 551   |       |       |  | 1400 | 1 |
| 2207 | ☜ | 1/2"   | 40-200    | 5          |        | 30-150  |                | 5              | 463  | 30   | 551   |       |       |  | 1300 | 1 |
| 2208 | ☞ | 1/2"   | 50-300    | 5          |        | 35-220  |                | 5              | 529  | 30   | 617   |       |       |  | 2000 | 1 |
| 2209 | ☜ | 1/2"   | 50-300    | 5          |        | 35-220  |                | 5              | 529  | 30   | 617   |       |       |  | 2000 | 1 |
| 2210 | ☞ | 3/4"   | 80-360    | 5          |        | 60-260  |                | 5              | 624  | 30   | 717   |       |       |  | 2400 | 1 |
| 2211 | ☜ | 3/4"   | 80-360    | 5          |        | 60-260  |                | 5              | 624  | 30   | 717   |       |       |  | 2400 | 1 |
| 2212 | ☞ | 3/4"   | 110-550   | 10         |        | 80-400  |                | 10             | 719  | 35   | 812   |       |       |  | 2900 | 1 |
| 2213 | ☜ | 3/4"   | 110-550   | 10         |        | 80-400  |                | 10             | 719  | 35   | 812   |       |       |  | 2900 | 1 |
| 2214 | ☞ | 3/4"   | 140-760   | 10         |        | 100-560 |                | 10             | 719  | 35   | 812   |       |       |  | 3200 | 1 |
| 2215 | ☜ | 3/4"   | 140-760   | 10         |        | 100-560 |                | 10             | 719  | 35   | 812   |       |       |  | 3200 | 1 |
| 2216 | ☞ | 3/4"   | 140-760   | 10         |        | 100-560 |                | 10             | 1297 | 35   | 812   | 1413  | 762   |  | 5000 | 1 |
| 2217 | ☜ | 3/4"   | 140-760   | 10         |        | 100-560 |                | 10             | 1297 | 35   | 812   | 1413  | 762   |  | 5000 | 1 |
| 2218 | ☞ | 3/4"   | 520-1000  | 10         |        | 380-730 |                | 10             | 1297 | 35   | 812   | 1413  | 762   |  | 5600 | 1 |
| 2219 | ☜ | 3/4"   | 520-1000  | 10         |        | 380-730 |                | 10             | 1297 | 35   | 812   | 1413  | 762   |  | 5600 | 1 |
| 2220 | ☞ | 1"     | 600-1500  | 25         |        |         |                |                | 1473 | 40   | 932   | 1608  | 925   |  | 1080 | 1 |
| 2221 | ☜ | 1"     | 600-1500  | 25         |        |         |                |                | 1473 | 40   | 932   | 1608  | 925   |  | 1080 | 1 |
| 2222 | ☞ | 1"     | 750-2000  | 50         |        |         |                |                | 2218 | 40   | 932   | 2353  | 925   |  | 1160 | 1 |
| 2223 | ☜ | 1"     | 750-2000  | 50         |        |         |                |                | 2218 | 40   | 932   | 2353  | 925   |  | 1160 | 1 |
| 2224 | ☞ | 1.1/2" | 1500-3000 | 50         |        |         |                |                | 2313 | 40   | 1025  | 2453  | 925   |  | 1320 | 1 |

## Festeingestellter Aluminium Drehmomentschlüssel mit Einsteck-Werkzeugaufnahme

- Auslösegenauigkeit  $\pm 3\%$  vom eingestellten Wert
- je nach Werkzeugeinsatz kann nach vorne (z.B. Einsteckmaulschlüssel) oder zur Seite (z.B. Umschaltknarre und Steckschlüsseinsatz) gearbeitet werden
- einfache Bedienung - schneller und sicherer Drehmomentanzug
- ändern der Betätigungsrichtung erfolgt durch Drehen des Drehmomentschlüssels
- Doppelskala in Nm und lbf-ft bzw. lbf-in Teilung für präzise Einstellung
- deutlich hör- und fühlbare Drehmomentauslösung durch Kurzwegauslösung
- mit fest einstellbarem Wert
- sichere Verriegelungsmöglichkeit
- ergonomischer und handfreundlicher Griff
- leicht, robust und sehr werkstattfreundlich
- lange Lebensdauer und hohe Standzeiten
- höchste Präzision und Zuverlässigkeit auch bei hartem Dauergebrauch
- mit Verriegelungs-Steckverbindung
- Einstellen des Drehmoments durch Betätigung der unverlierbaren Kurbelmechanik im Handgriff
- extrem geringer Verschleiß durch Kräfteübertragung durch Hebelmechanik
- individuelle Seriennummer zur deutlichen Produktidentifikation
- inklusive Zertifikat nach DIN EN ISO 6789:2003 - rückführbar auf nationale Normale

## Pre set aluminium torque wrench with rectangular tool holder

- Actuation  $\pm 3\%$  tolerance of the set scale value
- depending on tooling insert it's possible to work forward (e.g. plug-in open-end wrenches) or at side (ratchet and socket)
- Easy handling - fast and secure torque value
- Change of the actuating direction happens by turning the torque wrench
- Double scale in Nm and lbf-ft or lbf-in divisions for precise adjustment
- An audible and palpable signal when the desired torque value is achieved
- With a fixed adjustable value
- Secure locking function
- Ergonomical and handfriendly handle
- Lightweight, robust and workshop friendly
- Long life and high service life
- Highest precision and reliability also at hard permanent use
- With locking plug connection
- Torque setting by interrupting of the undetachable crank mechanism in the handle end
- Extremely low wear attributable to reduced forces in the lever mechanism
- Individually marked with serial number - unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 national standard



| No.  |       | Nm     | Teilung Nm | lbf.in | lbf.ft | Teilung lbf.in | Teilung lbf.ft | L   | L x | S    | H    |      |   |
|------|-------|--------|------------|--------|--------|----------------|----------------|-----|-----|------|------|------|---|
| 2225 | 9x12  | 8-40   | 5,0        | 70-350 |        | 5              |                | 350 | 303 | 17,5 | 35,0 | 950  | 1 |
| 2226 | 9x12  | 20-120 | 5,0        |        | 15-90  |                | 5              | 474 | 414 | 17,5 | 35,0 | 1250 | 1 |
| 2227 | 14x18 | 50-400 | 5,0        |        | 35-300 |                | 5              | 641 | 532 | 25,0 | 35,0 | 1700 | 1 |

## Aufsteckrohr für Aluminium Drehmomentschlüssel

- zum einfacheren Erreichen hoher Drehmomentwerte durch Hebelarmverlängerung
- optionale und sichere Verbindung zum Aluminium Drehmomentschlüssel
- zur Verlängerung des Hebelarms
- aus verzinktem Stahl

## Socket pipe for aluminium torque wrench

- For easier achievement of high torque value with lever arm extension
- Optional and save connection to the aluminium torque wrench
- For extension of the lever arm
- Made from zinc-plated steel



| No.  | L mm | Anwendung für  |      |   |
|------|------|----------------|------|---|
| 2228 | 400  | 2033           | 2300 | 1 |
| 2229 | 745  | 2033-2035      | 3600 | 1 |
| 2230 | 925  | 2037-2039      | 3400 | 1 |
| 2231 | 925  | 2031-2033-2035 | 3400 | 1 |





## Aufsteckknarre für Aluminium-Drehmoment-schlüssel

- robuste Aufsteckknarre
- zur Verwendung in Kombination mit Aluminium Drehmomentschlüssel
- für den kontrollierten Rechts- bzw. Linksanzug
- Innenvierkant nach DIN 3120 / ISO 1174
- Vierkantantrieb nach DIN 3120 3 ISO 1174 mit Kugelarretierung
- für Handbetätigung
- matt satiniert
- Chrom Vanadium
- 1/4" 3/8" 1/2" 3/4" 1"



## Slip-on ratchet for aluminium torque wrench

- Robust slip-on ratchet
- For use in combination with aluminium torque wrenches
- For controlled fastening in clockwise and counter clockwise directions
- Square drive according to DIN 3120 / ISO 1174
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For hand operation
- Matt satin finish
- Chrom Vanadium steel
- 1/4" 3/8" 1/2" 3/4" 1"

| No.  | 1/4" | 3/8" | H mm | D mm | Ausführung | Anwendung für            | 50   | 1 |
|------|------|------|------|------|------------|--------------------------|------|---|
| 2240 | 1/4" | 1/4" | 21,0 | 24,0 | Rechtsgang | 2200                     | 50   | 1 |
| 2232 | 3/8" | 3/8" | 28,0 | 35,0 | Rechtsgang | 2202                     | 150  | 1 |
| 2233 | 1/2" | 1/2" | 35,0 | 46,0 | Rechtsgang | 2204-2206-2209           | 350  | 1 |
| 2234 | 3/4" | 3/4" | 53,0 | 65,0 | Rechtsgang | 2211-2213-2215-2217-2219 | 1000 | 1 |
| 2235 | 1"   | 1"   | 63,0 | 73,0 | Rechtsgang | 2220-2222                | 2500 | 1 |
| 2236 | 3/8" | 3/8" | 28,0 | 35,0 | Linksgang  | 2203                     | 150  | 1 |
| 2237 | 1/2" | 1/2" | 35,0 | 46,0 | Linksgang  | 2205-2207-2209           | 300  | 1 |
| 2238 | 3/4" | 3/4" | 53,0 | 65,0 | Linksgang  | 2211-2214-2216-2218-2220 | 1000 | 1 |
| 2239 | 1"   | 1"   | 63,0 | 73,0 | Rechtsgang | 221-223                  | 1800 | 1 |

## Drehmomentschlüsselsatz mit auswechselbaren Einsätzen

Micrometer Torque wrench set with openend tools  
Pièce universal avec cliquet ratchet avec clés à fourche  
Mango universal con carraca reversible con cabeza intercambiable, boca fija



| No.  | 1/2" | Nm     | mm    | 3550 | 1 |
|------|------|--------|-------|------|---|
| 1850 | 1/2" | 40-200 | 15x18 | 3550 | 1 |

| mm                                                  |
|-----------------------------------------------------|
| 1831/13-14-15-17-19-22-24-27-30 mm; 1823/1/2" 14x18 |

## Drehmomentschlüssel

Torque Wrenches, Clés dynamometrique  
Llaves dinamometricas

| No.  | 1/4" | Nm      | ft.lb   | L mm | 740  | 1 |
|------|------|---------|---------|------|------|---|
| 1840 | 1/4" | 6-30    | 40-25   | 350  | 740  | 1 |
| 1841 | 3/8" | 19-110  | 15-80   | 385  | 960  | 1 |
| 1842 | 1/2" | 40-210  | 30-150  | 535  | 1700 | 1 |
| 1843 | 1/2" | 70-350  | 50-250  | 645  | 2540 | 1 |
| 1844 | 3/4" | 100-500 | 50-300  | 865  | 3660 | 1 |
| 1845 | 3/4" | 140-700 | 100-600 | 1092 | 5940 | 1 |
| 1846 | 1"   | 140-980 | 100-700 | 1230 | 6460 | 1 |





**SCHLAGWERKZEUGE, FEILEN, SCHABER**  
STRIKING TOOLS, FILES, SCRAPERS

**07**

### Revolverlochzange, vernickelt

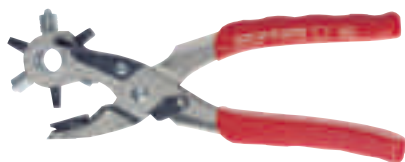
Revolving punch plier, nickled  
Pince perforateur, nickelée  
Alicate sacabocados, niquelado



| No.    | Länge                     |  |  |
|--------|---------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1450   | 225 vernickelt            | 295                                                                               | 1                                                                                 |
| 1450 B | 225 rot pulverbeschichtet | 295                                                                               | 1                                                                                 |

### Revolver, Loch und Ösenzange, vernickelt

Revolving punch and eyelets plier, nickled  
Pince perforateur et Pince pour anneaux, nickelée  
Alicate sacabocados y pone ojete, niquelado



| No.  | Länge |  |  |
|------|-------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 1451 | 225   | 356                                                                                | 1                                                                                  |

### Ösen passend zu Art.-No. 1451

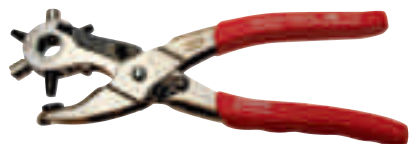
Eyelets for Item No. 1451  
Anneaux pour Art.-No. 1451  
Ojete para Art.-No. 1451



| No.  | Ø     |  |  |
|------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1452 | A-4,0 |                                                                                     | 100                                                                                 |
|      | B-5,0 |                                                                                     | 100                                                                                 |
|      | C-6,0 |                                                                                     | 100                                                                                 |

### Hebelübersetzte Revolverlochzange, vernickelt (-70% Kraft)

Lever gear revolving punch plier, nickled (-70% power)  
Pince perforateur avec levier transmission, nickelée (-70% force)  
Alicate sacabocados con palanca engranaje, niquelado (-70% esfuerzo)



| No.  | Länge |  |  |
|------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1453 | 225   | 425                                                                                 | 1                                                                                   |

### Automatik-Sicherheitsmesser

Automatic Knife / Couteau Automatique / Cuchillo Automatico



| No.  | Länge |  |  |
|------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1463 | 170   | 140                                                                                 | 10                                                                                  |

### Sicherheits-Cutter Messer

Safety cutting knife / Couteau de sécurité / Cuchillo de Seguridad



| No.  | Länge |  |  |
|------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1464 | 170   | 170                                                                                 | 10                                                                                  |

### Sicherheits-Cutter Messer

Safety cutting knife / Couteau de sécurité / Cuchillo de Seguridad



| No.  | Länge |  |  |
|------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1465 | 150   | 180                                                                                   | 10                                                                                    |

### Sicherheits-Cutter Messer

Safety cutting knife / Couteau de sécurité / Cuchillo de Seguridad



| No.  | Länge |  |  |
|------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1466 | 150   | 180                                                                                   | 10                                                                                    |

### Ersatzklingen für Messer, 5 Stück

Spare blades for Knives, 5 pcs. / Lames de Rechange pour Couteaux, 5 pcs. / Hojas de Recambio para Cuchillos, 5 pza.



| No.    | Für No.              | Länge      |  |  |
|--------|----------------------|------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1463 K | 1463 - 1464 - 1465 - | 60x19x0,65 |                                                                                       | 100                                                                                   |
| 1464 K | 1466                 | 60x19x0,65 |                                                                                       | 100                                                                                   |



**Henkellocheisen**

Arch punches

Emporte-pièces à arche

Sacaboados conico

DIN 7200 Form A



| No.  | mm/Inch | Länge |  |  |
|------|---------|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1500 | 2       | 100   | 40                                                                                | 10                                                                                |
|      | 3       | 100   | 40                                                                                | 10                                                                                |
|      | 4       | 100   | 40                                                                                | 10                                                                                |
|      | 5       | 100   | 50                                                                                | 10                                                                                |
|      | 6       | 100   | 50                                                                                | 10                                                                                |
|      | 7       | 100   | 50                                                                                | 10                                                                                |
|      | 8       | 112   | 70                                                                                | 10                                                                                |
|      | 9       | 112   | 70                                                                                | 10                                                                                |
|      | 10      | 115   | 70                                                                                | 10                                                                                |
|      | 11      | 122   | 100                                                                               | 10                                                                                |
|      | 12      | 122   | 100                                                                               | 10                                                                                |
|      | 13      | 135   | 150                                                                               | 5                                                                                 |
|      | 14      | 135   | 150                                                                               | 5                                                                                 |
|      | 15      | 135   | 150                                                                               | 5                                                                                 |
|      | 16      | 135   | 150                                                                               | 5                                                                                 |
|      | 17      | 135   | 150                                                                               | 5                                                                                 |
|      | 18      | 143   | 175                                                                               | 5                                                                                 |
|      | 19      | 143   | 175                                                                               | 5                                                                                 |
|      | 20      | 155   | 230                                                                               | 5                                                                                 |
|      | 21      | 155   | 230                                                                               | 2                                                                                 |
|      | 22      | 155   | 230                                                                               | 2                                                                                 |
|      | 23      | 168   | 350                                                                               | 2                                                                                 |
|      | 24      | 168   | 350                                                                               | 2                                                                                 |
|      | 25      | 168   | 350                                                                               | 2                                                                                 |
|      | 26      | 168   | 350                                                                               | 2                                                                                 |
|      | 27      | 175   | 420                                                                               | 2                                                                                 |
|      | 28      | 175   | 420                                                                               | 2                                                                                 |
|      | 29      | 175   | 430                                                                               | 2                                                                                 |
|      | 30      | 175   | 430                                                                               | 2                                                                                 |
|      | 31      | 175   | 430                                                                               | 1                                                                                 |
|      | 32      | 178   | 490                                                                               | 1                                                                                 |
|      | 33      | 178   | 490                                                                               | 1                                                                                 |
|      | 34      | 178   | 490                                                                               | 1                                                                                 |
|      | 35      | 178   | 490                                                                               | 1                                                                                 |
|      | 36      | 190   | 600                                                                               | 1                                                                                 |
|      | 37      | 190   | 600                                                                               | 1                                                                                 |

| No.  | mm/Inch | Länge |  |  |
|------|---------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1500 | 38      | 190   | 600                                                                                 | 1                                                                                   |
|      | 39      | 193   | 600                                                                                 | 1                                                                                   |
|      | 40      | 193   | 600                                                                                 | 1                                                                                   |
|      | 41      | 205   | 700                                                                                 | 1                                                                                   |
|      | 42      | 205   | 700                                                                                 | 1                                                                                   |
|      | 43      | 205   | 700                                                                                 | 1                                                                                   |
|      | 44      | 205   | 700                                                                                 | 1                                                                                   |
|      | 45      | 205   | 700                                                                                 | 1                                                                                   |
|      | 46      | 215   | 800                                                                                 | 1                                                                                   |
|      | 47      | 215   | 800                                                                                 | 1                                                                                   |
|      | 48      | 215   | 800                                                                                 | 1                                                                                   |
|      | 49      | 215   | 800                                                                                 | 1                                                                                   |
|      | 50      | 215   | 800                                                                                 | 1                                                                                   |
|      | 51      | 215   | 800                                                                                 | 1                                                                                   |
|      | 52      | 215   | 900                                                                                 | 1                                                                                   |
|      | 53      | 215   | 900                                                                                 | 1                                                                                   |
|      | 54      | 215   | 900                                                                                 | 1                                                                                   |
|      | 55      | 255   | 1550                                                                                | 1                                                                                   |
|      | 56      | 255   | 1550                                                                                | 1                                                                                   |
|      | 57      | 255   | 1550                                                                                | 1                                                                                   |
|      | 58      | 255   | 1550                                                                                | 1                                                                                   |
|      | 59      | 255   | 1550                                                                                | 1                                                                                   |
|      | 60      | 255   | 1600                                                                                | 1                                                                                   |
|      | 61      | 255   | 1600                                                                                | 1                                                                                   |
|      | 62      | 255   | 1600                                                                                | 1                                                                                   |
|      | 63      | 255   | 1600                                                                                | 1                                                                                   |
|      | 64      | 255   | 1600                                                                                | 1                                                                                   |
|      | 65      | 285   | 2800                                                                                | 1                                                                                   |
|      | 66      | 285   | 2800                                                                                | 1                                                                                   |
|      | 67      | 285   | 2800                                                                                | 1                                                                                   |
|      | 68      | 285   | 2800                                                                                | 1                                                                                   |
|      | 69      | 285   | 2800                                                                                | 1                                                                                   |
|      | 70      | 285   | 2800                                                                                | 1                                                                                   |
|      | 75      | 300   | 3300                                                                                | 1                                                                                   |
|      | 80      | 300   | 3300                                                                                | 1                                                                                   |



## Locheisen

Hollow punches / Emporte-pièces circulaires  
Sacaboados cilíndrico

DIN 7200 Form B

## Auswechselbare Locheisen in Kassette

Set of hollow punches in Box  
Jeu de emporte pièces circulaires échangeable  
Juego de sacabocados en caja



| No.         | mm/Inch    | Länge |     |    |
|-------------|------------|-------|-----|----|
| <b>1501</b> | <b>1</b>   | 105   | 22  | 10 |
|             | <b>1,5</b> | 105   | 22  | 10 |
|             | <b>2</b>   | 105   | 22  | 10 |
|             | <b>2,5</b> | 105   | 28  | 10 |
|             | <b>3</b>   | 105   | 28  | 10 |
|             | <b>3,5</b> | 105   | 35  | 10 |
|             | <b>4</b>   | 110   | 35  | 10 |
|             | <b>4,5</b> | 110   | 47  | 10 |
|             | <b>5</b>   | 115   | 47  | 10 |
|             | <b>6</b>   | 115   | 56  | 10 |
|             | <b>7</b>   | 120   | 56  | 10 |
|             | <b>8</b>   | 120   | 71  | 10 |
|             | <b>9</b>   | 125   | 71  | 10 |
|             | <b>10</b>  | 125   | 82  | 10 |
|             | <b>11</b>  | 125   | 108 | 10 |
|             | <b>12</b>  | 130   | 129 | 10 |
|             | <b>13</b>  | 130   | 137 | 5  |
|             | <b>14</b>  | 135   | 167 | 5  |
|             | <b>15</b>  | 135   | 178 | 5  |
|             | <b>16</b>  | 140   | 197 | 5  |
|             | <b>17</b>  | 140   | 220 | 5  |
|             | <b>18</b>  | 150   | 283 | 5  |
|             | <b>19</b>  | 155   | 294 | 5  |
|             | <b>20</b>  | 155   | 350 | 5  |
|             | <b>21</b>  | 155   | 385 | 5  |
|             | <b>22</b>  | 155   | 430 | 5  |
|             | <b>23</b>  | 155   | 460 | 5  |
|             | <b>24</b>  | 160   | 549 | 5  |
|             | <b>25</b>  | 160   | 578 | 5  |

| No.         | Inhalt                       |     |   |
|-------------|------------------------------|-----|---|
| <b>1505</b> | 1 Halter                     | 620 | 1 |
|             | 1 Kreisschneider             |     |   |
|             | 1 Zentrierspitze             |     |   |
|             | 15 Locheisen:                |     |   |
|             | 3-4-6-8-10-12-14-16-18-20-22 |     |   |
|             | 24-26-28-30                  |     |   |

## Henkellocheisen Set

Arch punches Set  
Emporte-pièces à archer en pochette de plastique  
Sacaboados conico en bolsa de plastico



7-tlg.

| No.         | Inhalt                       |     |   |
|-------------|------------------------------|-----|---|
| <b>1506</b> | 1500: 3, 5, 7, 8, 10, 11, 13 | 720 | 1 |

## Henkellocheisen Set

Arch punches Set  
Emporte-pièces à archer en pochette de plastique  
Sacaboados conico en bolsa de plastico



8-tlg.

| No.         | Inhalt                           |     |   |
|-------------|----------------------------------|-----|---|
| <b>1507</b> | 1500: 3, 5, 7, 8, 10, 13, 16, 19 | 995 | 1 |

**Henkellocheisen Set**

Arch punches Set

Emporte-pièces à archer en pochette de plastique

Sacaboados conico en bolsa de plastico



10-tlg.

| No.  | Inhalt                                   |  |  |
|------|------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1508 | 1500: 3, 5, 7, 8, 10, 13, 16, 19, 22, 25 | 995                                                                               | 1                                                                                 |

**Henkellocheisen Set**

Arch punches Set

Emporte-pièces à archer en pochette de plastique

Sacaboados conico en bolsa de plastico



8-tlg.

| No.  | Inhalt                             |  |  |
|------|------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1509 | 1500: 6, 8, 10, 12, 14, 16, 20, 25 | 1510                                                                                | 1                                                                                   |

**Rundlocheisensätze**

Set of punches, round in plastic bag

Jeux de emporte-pièces circulaires en pochette de plastique

Juegos de sacabocados redondos en bolsa de plástico



9-tlg.

| No.  | Inhalt                           |  |  |
|------|----------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1513 | 1501: 2, 3, 4, 5, 6, 7, 8, 9, 10 | 640                                                                                 | 1                                                                                   |

**Rundlocheisensätze**

Set of punches, round in plastic bag

Jeux de emporte-pièces circulaires en pochette de plastique

Juegos de sacabocados redondos en bolsa de plástico



7-tlg.

| No.  | Inhalt                       |  |  |
|------|------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1514 | 1501: 3, 5, 7, 8, 10, 11, 13 | 725                                                                                 | 1                                                                                   |

**Rundlocheisensätze**

Set of punches, round in plastic bag

Jeux de emporte-pièces circulaires en pochette de plastique

Juegos de sacabocados redondos en bolsa de plástico



8-tlg.

| No.  | Inhalt                           |  |  |
|------|----------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1515 | 1501: 3, 5, 7, 8, 10, 13, 16, 19 | 1260                                                                                  | 1                                                                                     |

**Rundlocheisensätze**

Set of punches, round in plastic bag

Jeux de emporte-pièces circulaires en pochette de plastique

Juegos de sacabocados redondos en bolsa de plástico



9-tlg.

| No.  | Inhalt                               |  |  |
|------|--------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1516 | 1501: 3, 5, 7, 8, 10, 13, 16, 19, 22 | 1760                                                                                  | 1                                                                                     |

### Rundlocheisensätze

Set of punches, round in plastic bag

Jeux de emporte-pièces circulaires en pochette de plastique

Juegos de sacabocados redondos en bolsa de plástico



10-tlg.

| No.  | Inhalt                                   |  |  |
|------|------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1517 | 1501: 3, 5, 7, 8, 10, 13, 16, 19, 22, 25 | 2360                                                                              | 1                                                                                 |

### Rundlocheisensätze

Set of punches, round in plastic bag

Jeux de emporte-pièces circulaires en pochette de plastique

Juegos de sacabocados redondos en bolsa de plástico



6-tlg.

| No.  | Inhalt                    |  |  |
|------|---------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1518 | 1501: 5, 6, 7, 10, 11, 12 | 620                                                                                 | 1                                                                                   |

### Schlagbuchstaben

Marking letters

Poinçons à lettres

Marcadores de letras



DIN 1451

| No.  | Größe | Größe: a x b |  |  |
|------|-------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1520 | 2     | 65x6         | 450                                                                                 | 1                                                                                   |
|      | 2,5   | 65x6         | 450                                                                                 | 1                                                                                   |
|      | 3     | 65x6         | 450                                                                                 | 1                                                                                   |
|      | 4     | 65x7         | 650                                                                                 | 1                                                                                   |
|      | 5     | 65x8         | 850                                                                                 | 1                                                                                   |
|      | 6     | 70x9         | 1110                                                                                | 1                                                                                   |
|      | 7     | 75x10        | 1780                                                                                | 1                                                                                   |
|      | 8     | 75x11        | 1780                                                                                | 1                                                                                   |
|      | 10    | 80x12        | 2090                                                                                | 1                                                                                   |
|      | 12    | 80x14        | 2950                                                                                | 1                                                                                   |
|      | 15    | 90x16        | 3870                                                                                | 1                                                                                   |
|      | 20    | 100x18       | 7650                                                                                | 1                                                                                   |

### Schlagzahlen

Marking ciphers

Poinçons à chiffres

Marcadores de cifras

DIN 1451



| No.  | Größe | Größe: a x b |  |  |
|------|-------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1521 | 2     | 65x6         | 150                                                                                 | 1                                                                                   |
|      | 2,5   | 65x6         | 150                                                                                 | 1                                                                                   |
|      | 3     | 65x6         | 150                                                                                 | 1                                                                                   |
|      | 4     | 65x7         | 210                                                                                 | 1                                                                                   |
|      | 5     | 65x8         | 280                                                                                 | 1                                                                                   |
|      | 6     | 70x9         | 360                                                                                 | 1                                                                                   |
|      | 7     | 75x10        | 580                                                                                 | 1                                                                                   |
|      | 8     | 75x11        | 580                                                                                 | 1                                                                                   |
|      | 10    | 80x12        | 710                                                                                 | 1                                                                                   |
|      | 12    | 80x14        | 990                                                                                 | 1                                                                                   |
|      | 15    | 90x16        | 1270                                                                                | 1                                                                                   |
|      | 20    | 100x18       | 2550                                                                                | 1                                                                                   |

### Werkzeughalter mit Knarre und Zweibackenfutter Rechtsgang, Linksgang, feststellbar, verchromt poliert zum Schrauben Gewindeschneiden und Reiben

Tap wrenches with ratchet,

Porte outils à cliquet

Llave porta utiles con carraca



| No.  | Größe | Spannbereich | Gewinde |  |  |
|------|-------|--------------|---------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1525 | 85    | 2,4-5,5      | M3-M9   | 150                                                                                   | 1                                                                                     |
| 1526 | 250   | 2,5-5,55     | M3-M9   | 208                                                                                   | 1                                                                                     |
| 1527 | 100   | 4,5-7        | M5-M12  | 285                                                                                   | 1                                                                                     |
| 1528 | 300   | 4,5-7        | M5-M12  | 400                                                                                   | 1                                                                                     |

## Schraubenausdreher

Screw extractor / Extracteur pour vis / Extractor de tornillos



| No.  | Größe | Ø       | Gewinde | Länge |     |    |
|------|-------|---------|---------|-------|-----|----|
| 1530 | 1     | 1,4-3,6 | M3-M 6  | 51    | 4   | 10 |
|      | 2     | 2,1-4,9 | M6-M 8  | 60    | 6   | 10 |
|      | 3     | 3,1-6,5 | M8-M11  | 68    | 14  | 10 |
|      | 4     | 4,8-8,8 | M11-M14 | 76    | 26  | 5  |
|      | 5     | 6,2-11  | M14-M18 | 86    | 46  | 5  |
|      | 6     | 9,4-15  | M18-M24 | 95    | 92  | 5  |
|      | 7     | 12,7-19 | M24-M33 | 98    | 160 | 5  |
|      | 8     | 33-50   | M33-M45 | 106   | 290 | 5  |

## Schraubenausdrehersätze

Set of screw extractors, Jeux des extracteurs pour vis  
Juego de extractores de tornillos



| No.  | Inhalt                     | Gewinde | Länge |     |   |
|------|----------------------------|---------|-------|-----|---|
| 1531 | No. 1530: 1, 2, 3, 4, 5    | M3-M18  |       | 120 | 1 |
| 1532 | No. 1530: 1, 2, 3, 4, 5, 6 | M3-M24  |       | 230 | 1 |

## Rohrabschneider für Stahlrohre

Pipe cutter for iron tubes / Coupe tube pour acier  
Cortatubos para tubos de hierro



| No.  | Größe    |      |   |
|------|----------|------|---|
| 1550 | 1/8"-2"  | 2200 | 1 |
|      | 10-60 mm |      |   |

## Ersatzschneidrädchen

Spare wheels  
Roule de réchange  
Repuesto cuchilla



| No.  | Für No.   |          |    |    |
|------|-----------|----------|----|----|
| 1551 | 1550      |          | 10 | 10 |
| 1553 | 1552      |          | 10 | 10 |
| 1560 | 1555+1556 | Cu Rohr  | 10 | 10 |
| 1561 | 1555+1556 | V2A Rohr | 10 | 10 |
| 1562 | 1558      | linox    | 10 | 10 |
| 1563 | 1559      | Plastic  | 10 | 10 |

## Rohrabschneider mit Entgrater und Schnell-Verstellung

Tube cutter for copper and steel tubes  
Coupe tubes pour tubes de cuivre et d'acier  
Cortatubos para tubos de cobre y acero



| No.  | Größe       |     |   |
|------|-------------|-----|---|
| 1552 | 1/8"-1.3/8" | 565 | 1 |
|      | 3-35 mm     |     |   |
| 1554 | 1/8"-1.3/4" | 575 | 1 |
|      | 3-45 mm     |     |   |

## Rohrabschneider für Cu Rohr

Pipe cutter for copper tubes / Coupe tube pour tubes cuivre  
Cortatubos para tubos de cobre



| No.  | Größe       |     |   |
|------|-------------|-----|---|
| 1555 | 1/8"-1.3/8" | 400 | 1 |
|      | 3-35 mm     |     |   |



### Rohrabschneider für Cu Rohr

Pipe cutter for copper tubes / Coupe tube pour tubes cuivre  
Cortatubos para tubos de cobre



| No.  | Größe     |     |   |
|------|-----------|-----|---|
| 1556 | 1/8"-5/8" | 140 | 1 |
|      | 3-16 mm   |     |   |
| 1557 | 1/8"-1"   | 140 | 1 |
|      | 3-25 mm   |     |   |

### Rohrabschneider für dünnwandige Metallrohre

Pipe cutter for thin walled tubes,  
Coupe tube pour tubes metaiques à parois minces  
Cortatubos para tubos metaicos de paredes delgadas



| No.  | Größe       |     |   |
|------|-------------|-----|---|
| 1558 | 1/4"-2.5/8" | 875 | 1 |
|      | 6-67 mm     |     |   |

### Rohrabschneider für Kunststoffrohre

Pipe cutter for plastic tubes  
Coupe tube pour tubes en plastique  
Cortatubos para tubos de plastico



| No.  | Größe       |     |   |
|------|-------------|-----|---|
| 1559 | 1/4"-2.5/8" | 875 | 1 |
|      | 6-67 mm     |     |   |

### Stufenschlüssel mehrfach abgestuft

Combination spud wrench  
Clé pour installation radiateur  
Llave pra instalacion de radiadores



| No.  | Größe |     |   |
|------|-------|-----|---|
| 1565 | 105   | 135 | 5 |

### Stufenschlüssel mehrfach abgestuft mit Umsteckknarre, in Tasche

Combination spud wrench with rachet,  
Clé pour installation radiateur avec cliquet  
Llave pra instalacion de radiadores con carraca



| No.  | Größe                |     |   |
|------|----------------------|-----|---|
| 1566 | 3/8", 1/2", 3/4", 1" | 520 | 1 |

### Metallsägebogen mit Holzgriff

Metal saw with wooden handle  
Scie pour métal avec manche de bois  
Arco de sierra para metales con mango de madera



| No.  |     |   |
|------|-----|---|
| 1570 | 100 | 1 |

### Metallsägebogen mit Kunststoffgriff

Metal saw with plastic handle  
Scie pour métal  
Arco de sierra para metales



| No.  |     |   |
|------|-----|---|
| 1571 | 170 | 6 |

### Sägeblatt zu Art.-No.1570+1571, 12 Stück

saw blade for item No.1570+1571, 12 pcs.  
Lame de scie pour Art.-No.1570+1571, 12 pcs.  
hoja de sierra para el articulo No.1570+1571, 12 pza.



| No.  |    |    |
|------|----|----|
| 1573 | 12 | 10 |

**Sägeblatt zu Art.-No.1575+1583, 12 Stück**

saw blade for item No.1575+1583, 12 pcs.

Lame de scie pour Art.-No.1575+1583, 12 pcs.

hoja de sierra para el artículo No.1575+1583, 12 pza.



| No.  | Länge |  |  |
|------|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1578 | 300   | 45                                                                                | 10                                                                                |

**Metallsägebogen mit Holzgriff**

DIN 6473 Form A

Metal saw with wooden handle

Scie pour métal avec manche de bois

Arco de sierra para metales con mango de madera



| No.  |  |  |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1575 | 800                                                                                 | 1                                                                                   |

**Metallsägebogen verstellbar**

Metal saw adjustable

Scie pour métal, réglable

Arco de sierra para metales, ajustable



| No.  |  |  |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1576 | 530                                                                                 | 1                                                                                   |

**Metallsägebogen verstellbar**

Metal saw adjustable

Scie pour métal, réglable

Arco de sierra para metales, ajustable



| No.  |  |  |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1580 | 695                                                                                 | 1                                                                                   |

**Metallsägebogen verstellbar**

Metal saw adjustable

Scie pour métal, réglable

Arco de sierra para metales, ajustable



| No.  |  |  |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1581 | 542                                                                                 | 1                                                                                   |

**Metallsägebogen verstellbar**

Metal saw adjustable

Scie pour métal, réglable

Arco de sierra para metales, ajustable



| No.  |  |  |
|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1582 | 825                                                                                   | 1                                                                                     |

**Metallsägebogen verstellbar**

Metal saw adjustable

Scie pour métal, réglable

Arco de sierra para metales, ajustable



| No.  |  |  |
|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1583 | 522                                                                                   | 1                                                                                     |

**HSS Spiralbohrer mit Zylinderschaft,  
kurze Ausführung, blank profilgeschliffen  
mit Kreuzanschliff**

HSS twist drills, bright finish / HSS Foret spiral, qualité briquer  
HSS brocas espirales, calidad pulimentor



| No.  | Durchmesser | Länge mm |  |  |
|------|-------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 2100 | 1           | 34       |                                                                                   | 10                                                                                |
|      | 1,1         | 36       |                                                                                   | 10                                                                                |
|      | 1,2         | 38       |                                                                                   | 10                                                                                |
|      | 1,25        | 38       |                                                                                   | 10                                                                                |
|      | 1,3         | 38       |                                                                                   | 10                                                                                |
|      | 1,4         | 40       |                                                                                   | 10                                                                                |
|      | 1,5         | 40       |                                                                                   | 10                                                                                |
|      | 1,6         | 43       |                                                                                   | 10                                                                                |
|      | 1,7         | 43       |                                                                                   | 10                                                                                |
|      | 1,75        | 46       |                                                                                   | 10                                                                                |
|      | 1,8         | 46       |                                                                                   | 10                                                                                |
|      | 1,9         | 46       |                                                                                   | 10                                                                                |
|      | 2           | 49       |                                                                                   | 10                                                                                |
|      | 2,1         | 49       |                                                                                   | 10                                                                                |
|      | 2,2         | 53       |                                                                                   | 10                                                                                |
|      | 2,25        | 53       |                                                                                   | 10                                                                                |
|      | 2,3         | 53       |                                                                                   | 10                                                                                |
|      | 2,4         | 57       |                                                                                   | 10                                                                                |
|      | 2,5         | 57       |                                                                                   | 10                                                                                |
|      | 2,6         | 57       |                                                                                   | 10                                                                                |
|      | 2,7         | 61       |                                                                                   | 10                                                                                |
|      | 2,75        | 61       |                                                                                   | 10                                                                                |
|      | 2,8         | 61       |                                                                                   | 10                                                                                |
|      | 2,9         | 61       |                                                                                   | 10                                                                                |
|      | 3           | 61       |                                                                                   | 10                                                                                |
|      | 3,1         | 65       |                                                                                   | 10                                                                                |
|      | 3,2         | 65       |                                                                                   | 10                                                                                |
|      | 3,25        | 65       |                                                                                   | 10                                                                                |
|      | 3,3         | 65       |                                                                                   | 10                                                                                |
|      | 3,4         | 70       |                                                                                   | 10                                                                                |
|      | 3,5         | 70       |                                                                                   | 10                                                                                |
|      | 3,6         | 70       |                                                                                   | 10                                                                                |
|      | 3,7         | 70       |                                                                                   | 10                                                                                |
|      | 3,75        | 70       |                                                                                   | 10                                                                                |
|      | 3,8         | 75       |                                                                                   | 10                                                                                |
|      | 3,9         | 75       |                                                                                   | 10                                                                                |
|      | 4           | 75       |                                                                                   | 10                                                                                |
|      | 4,1         | 75       |                                                                                   | 10                                                                                |
|      | 4,2         | 75       |                                                                                   | 10                                                                                |
|      | 4,25        | 75       |                                                                                   | 10                                                                                |
|      | 4,3         | 80       |                                                                                   | 10                                                                                |
|      | 4,4         | 80       |                                                                                   | 10                                                                                |
|      | 4,5         | 80       |                                                                                   | 10                                                                                |
|      | 4,6         | 80       |                                                                                   | 10                                                                                |
|      | 4,7         | 80       |                                                                                   | 10                                                                                |
|      | 4,75        | 80       |                                                                                   | 10                                                                                |
|      | 4,8         | 86       |                                                                                   | 10                                                                                |
|      | 4,9         | 86       |                                                                                   | 10                                                                                |
|      | 5           | 86       |                                                                                   | 10                                                                                |
|      | 5,1         | 86       |                                                                                   | 10                                                                                |
|      | 5,2         | 86       |                                                                                   | 10                                                                                |
|      | 5,3         | 86       |                                                                                   | 10                                                                                |
|      | 5,4         | 93       |                                                                                   | 10                                                                                |
|      | 5,5         | 93       |                                                                                   | 10                                                                                |
|      | 5,6         | 93       |                                                                                   | 10                                                                                |
|      | 5,7         | 93       |                                                                                   | 10                                                                                |

| No.  | Durchmesser | Länge mm |  |  |
|------|-------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 2100 | 5,8         | 93       |                                                                                     | 10                                                                                  |
|      | 5,9         | 93       |                                                                                     | 10                                                                                  |
|      | 6           | 93       |                                                                                     | 10                                                                                  |
|      | 6,1         | 101      |                                                                                     | 10                                                                                  |
|      | 6,2         | 101      |                                                                                     | 10                                                                                  |
|      | 6,3         | 101      |                                                                                     | 10                                                                                  |
|      | 6,4         | 101      |                                                                                     | 10                                                                                  |
|      | 6,5         | 101      |                                                                                     | 10                                                                                  |
|      | 6,6         | 101      |                                                                                     | 10                                                                                  |
|      | 6,7         | 101      |                                                                                     | 10                                                                                  |
|      | 6,8         | 109      |                                                                                     | 10                                                                                  |
|      | 6,9         | 109      |                                                                                     | 10                                                                                  |
|      | 7           | 109      |                                                                                     | 10                                                                                  |
|      | 7,1         | 109      |                                                                                     | 10                                                                                  |
|      | 7,2         | 109      |                                                                                     | 10                                                                                  |
|      | 7,3         | 109      |                                                                                     | 10                                                                                  |
|      | 7,4         | 109      |                                                                                     | 10                                                                                  |
|      | 7,5         | 109      |                                                                                     | 10                                                                                  |
|      | 7,6         | 117      |                                                                                     | 10                                                                                  |
|      | 7,7         | 117      |                                                                                     | 10                                                                                  |
|      | 7,8         | 117      |                                                                                     | 10                                                                                  |
|      | 7,9         | 117      |                                                                                     | 10                                                                                  |
|      | 8           | 117      |                                                                                     | 10                                                                                  |
|      | 8,1         | 117      |                                                                                     | 10                                                                                  |
|      | 8,2         | 117      |                                                                                     | 10                                                                                  |
|      | 8,3         | 117      |                                                                                     | 10                                                                                  |
|      | 8,4         | 117      |                                                                                     | 10                                                                                  |
|      | 8,5         | 117      |                                                                                     | 10                                                                                  |
|      | 8,6         | 125      |                                                                                     | 10                                                                                  |
|      | 8,7         | 125      |                                                                                     | 10                                                                                  |
|      | 8,8         | 125      |                                                                                     | 10                                                                                  |
|      | 8,9         | 125      |                                                                                     | 10                                                                                  |
|      | 9           | 125      |                                                                                     | 10                                                                                  |
|      | 9,1         | 125      |                                                                                     | 10                                                                                  |
|      | 9,2         | 125      |                                                                                     | 10                                                                                  |
|      | 9,3         | 125      |                                                                                     | 10                                                                                  |
|      | 9,4         | 125      |                                                                                     | 10                                                                                  |
|      | 9,5         | 125      |                                                                                     | 10                                                                                  |
|      | 9,6         | 133      |                                                                                     | 10                                                                                  |
|      | 9,7         | 133      |                                                                                     | 10                                                                                  |
|      | 9,8         | 133      |                                                                                     | 10                                                                                  |
|      | 9,9         | 133      |                                                                                     | 10                                                                                  |
|      | 10          | 133      |                                                                                     | 10                                                                                  |
|      | 10,1        | 133      |                                                                                     | 10                                                                                  |
|      | 10,2        | 133      |                                                                                     | 10                                                                                  |
|      | 10,3        | 133      |                                                                                     | 10                                                                                  |
|      | 10,4        | 133      |                                                                                     | 10                                                                                  |
|      | 10,5        | 133      |                                                                                     | 10                                                                                  |
|      | 10,6        | 142      |                                                                                     | 5                                                                                   |
|      | 10,7        | 142      |                                                                                     | 5                                                                                   |
|      | 10,8        | 142      |                                                                                     | 5                                                                                   |
|      | 10,9        | 142      |                                                                                     | 5                                                                                   |
|      | 11          | 142      |                                                                                     | 5                                                                                   |
|      | 11,1        | 142      |                                                                                     | 5                                                                                   |
|      | 11,2        | 142      |                                                                                     | 5                                                                                   |
|      | 11,3        | 142      |                                                                                     | 5                                                                                   |
|      | 11,4        | 142      |                                                                                     | 5                                                                                   |
|      | 11,5        | 142      |                                                                                     | 5                                                                                   |
|      | 11,6        | 142      |                                                                                     | 5                                                                                   |
|      | 11,7        | 142      |                                                                                     | 5                                                                                   |
|      | 11,8        | 142      |                                                                                     | 5                                                                                   |
|      | 11,9        | 151      |                                                                                     | 5                                                                                   |
|      | 12          | 151      |                                                                                     | 5                                                                                   |
|      | 12,25       | 151      |                                                                                     | 5                                                                                   |
|      | 12,5        | 151      |                                                                                     | 5                                                                                   |
|      | 13          | 151      |                                                                                     | 5                                                                                   |

### HSS GK-Spiralbohrer mit Zylinderschaft, kurze Ausführung, blank profilgeschliffen mit Kreuzanschliff

HSS GK-twist drills, bright finish / HSS GK-Foret spiral, qualité  
briquer / HSS GK-brocas espirales, calidad pulimentor



**PREISWERTE ALTERNATIVE**  
CHEAPER ALTERNATIVE  
ALTERNATIVE FAVORABLE  
ALTERNATIVA BARATA

| No.  | Durchmesser | Länge mm |  |  |
|------|-------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 2105 | 1           | 34       |                                                                                   | 10                                                                                |
|      | 1,5         | 40       |                                                                                   | 10                                                                                |
|      | 2           | 49       |                                                                                   | 10                                                                                |
|      | 2,1         | 49       |                                                                                   | 10                                                                                |
|      | 2,2         | 53       |                                                                                   | 10                                                                                |
|      | 2,3         | 53       |                                                                                   | 10                                                                                |
|      | 2,4         | 57       |                                                                                   | 10                                                                                |
|      | 2,5         | 57       |                                                                                   | 10                                                                                |
|      | 2,6         | 57       |                                                                                   | 10                                                                                |
|      | 2,7         | 61       |                                                                                   | 10                                                                                |
|      | 2,8         | 61       |                                                                                   | 10                                                                                |
|      | 2,9         | 61       |                                                                                   | 10                                                                                |
|      | 3           | 61       |                                                                                   | 10                                                                                |
|      | 3,1         | 65       |                                                                                   | 10                                                                                |
|      | 3,2         | 65       |                                                                                   | 10                                                                                |
|      | 3,3         | 65       |                                                                                   | 10                                                                                |
|      | 3,4         | 70       |                                                                                   | 10                                                                                |
|      | 3,5         | 70       |                                                                                   | 10                                                                                |
|      | 3,6         | 70       |                                                                                   | 10                                                                                |
|      | 3,7         | 70       |                                                                                   | 10                                                                                |
|      | 3,8         | 75       |                                                                                   | 10                                                                                |
|      | 3,9         | 75       |                                                                                   | 10                                                                                |
|      | 4           | 75       |                                                                                   | 10                                                                                |
|      | 4,1         | 75       |                                                                                   | 10                                                                                |
|      | 4,2         | 75       |                                                                                   | 10                                                                                |
|      | 4,3         | 80       |                                                                                   | 10                                                                                |
|      | 4,4         | 80       |                                                                                   | 10                                                                                |
|      | 4,5         | 80       |                                                                                   | 10                                                                                |
|      | 4,6         | 80       |                                                                                   | 10                                                                                |
|      | 4,7         | 80       |                                                                                   | 10                                                                                |
|      | 4,8         | 86       |                                                                                   | 10                                                                                |
|      | 4,9         | 86       |                                                                                   | 10                                                                                |
|      | 5           | 86       |                                                                                   | 10                                                                                |
|      | 5,1         | 86       |                                                                                   | 10                                                                                |
|      | 5,2         | 86       |                                                                                   | 10                                                                                |
|      | 5,3         | 86       |                                                                                   | 10                                                                                |
|      | 5,4         | 93       |                                                                                   | 10                                                                                |
|      | 5,5         | 93       |                                                                                   | 10                                                                                |
|      | 5,6         | 93       |                                                                                   | 10                                                                                |
|      | 5,7         | 93       |                                                                                   | 10                                                                                |
|      | 5,8         | 93       |                                                                                   | 10                                                                                |
|      | 5,9         | 93       |                                                                                   | 10                                                                                |
|      | 6           | 93       |                                                                                   | 10                                                                                |
|      | 6,1         | 101      |                                                                                   | 10                                                                                |

| No.  | Durchmesser | Länge mm |  |  |
|------|-------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 2105 | 6,2         | 101      |                                                                                     | 10                                                                                  |
|      | 6,3         | 101      |                                                                                     | 10                                                                                  |
|      | 6,4         | 101      |                                                                                     | 10                                                                                  |
|      | 6,5         | 101      |                                                                                     | 10                                                                                  |
|      | 6,6         | 101      |                                                                                     | 10                                                                                  |
|      | 6,7         | 101      |                                                                                     | 10                                                                                  |
|      | 6,8         | 109      |                                                                                     | 10                                                                                  |
|      | 6,9         | 109      |                                                                                     | 10                                                                                  |
|      | 7           | 109      |                                                                                     | 10                                                                                  |
|      | 7,1         | 109      |                                                                                     | 10                                                                                  |
|      | 7,2         | 109      |                                                                                     | 10                                                                                  |
|      | 7,3         | 109      |                                                                                     | 10                                                                                  |
|      | 7,4         | 109      |                                                                                     | 10                                                                                  |
|      | 7,5         | 109      |                                                                                     | 10                                                                                  |
|      | 7,6         | 117      |                                                                                     | 10                                                                                  |
|      | 7,7         | 117      |                                                                                     | 10                                                                                  |
|      | 7,8         | 117      |                                                                                     | 10                                                                                  |
|      | 7,9         | 117      |                                                                                     | 10                                                                                  |
|      | 8           | 117      |                                                                                     | 10                                                                                  |
|      | 8,1         | 117      |                                                                                     | 10                                                                                  |
|      | 8,2         | 117      |                                                                                     | 10                                                                                  |
|      | 8,3         | 117      |                                                                                     | 10                                                                                  |
|      | 8,4         | 117      |                                                                                     | 10                                                                                  |
|      | 8,5         | 117      |                                                                                     | 10                                                                                  |
|      | 8,6         | 125      |                                                                                     | 10                                                                                  |
|      | 8,7         | 125      |                                                                                     | 10                                                                                  |
|      | 8,8         | 125      |                                                                                     | 10                                                                                  |
|      | 8,9         | 125      |                                                                                     | 10                                                                                  |
|      | 9           | 125      |                                                                                     | 10                                                                                  |
|      | 9,1         | 125      |                                                                                     | 10                                                                                  |
|      | 9,2         | 125      |                                                                                     | 10                                                                                  |
|      | 9,3         | 125      |                                                                                     | 10                                                                                  |
|      | 9,4         | 125      |                                                                                     | 10                                                                                  |
|      | 9,5         | 125      |                                                                                     | 10                                                                                  |
|      | 9,6         | 133      |                                                                                     | 10                                                                                  |
|      | 9,7         | 133      |                                                                                     | 10                                                                                  |
|      | 9,8         | 133      |                                                                                     | 10                                                                                  |
|      | 9,9         | 133      |                                                                                     | 10                                                                                  |
|      | 10          | 133      |                                                                                     | 10                                                                                  |
|      | 10,2        | 133      |                                                                                     | 10                                                                                  |
|      | 10,5        | 133      |                                                                                     | 10                                                                                  |
|      | 11          | 142      |                                                                                     | 5                                                                                   |
|      | 11,5        | 142      |                                                                                     | 5                                                                                   |
|      | 12          | 151      |                                                                                     | 5                                                                                   |
|      | 12,5        | 151      |                                                                                     | 5                                                                                   |
|      | 13          | 151      |                                                                                     | 5                                                                                   |



**HSS Co-Spiralbohrer mit Zylinderschaft, kurze Ausführung cobaltlegiert,**

**gold-finish profilgeschliffen mit Kreuzanschliff**

HSS Co-twist drills, gold finish / HSS Co-Foret spiral, finish d'or

HSS Co-brocas espirales, acabado oro



| No.  | Durchmesser | Länge mm |  |  |
|------|-------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 2110 | 1           | 34       |                                                                                   | 10                                                                                |
|      | 1,5         | 40       |                                                                                   | 10                                                                                |
|      | 2           | 49       |                                                                                   | 10                                                                                |
|      | 2,1         | 49       |                                                                                   | 10                                                                                |
|      | 2,2         | 53       |                                                                                   | 10                                                                                |
|      | 2,3         | 53       |                                                                                   | 10                                                                                |
|      | 2,4         | 57       |                                                                                   | 10                                                                                |
|      | 2,5         | 57       |                                                                                   | 10                                                                                |
|      | 2,6         | 57       |                                                                                   | 10                                                                                |
|      | 2,7         | 61       |                                                                                   | 10                                                                                |
|      | 2,8         | 61       |                                                                                   | 10                                                                                |
|      | 2,9         | 61       |                                                                                   | 10                                                                                |
|      | 3           | 61       |                                                                                   | 10                                                                                |
|      | 3,1         | 65       |                                                                                   | 10                                                                                |
|      | 3,2         | 65       |                                                                                   | 10                                                                                |
|      | 3,3         | 65       |                                                                                   | 10                                                                                |
|      | 3,4         | 70       |                                                                                   | 10                                                                                |
|      | 3,5         | 70       |                                                                                   | 10                                                                                |
|      | 3,6         | 70       |                                                                                   | 10                                                                                |
|      | 3,7         | 70       |                                                                                   | 10                                                                                |
|      | 3,8         | 75       |                                                                                   | 10                                                                                |
|      | 3,9         | 75       |                                                                                   | 10                                                                                |
|      | 4           | 75       |                                                                                   | 10                                                                                |
|      | 4,1         | 75       |                                                                                   | 10                                                                                |
|      | 4,2         | 75       |                                                                                   | 10                                                                                |
|      | 4,3         | 80       |                                                                                   | 10                                                                                |
|      | 4,4         | 80       |                                                                                   | 10                                                                                |
|      | 4,5         | 80       |                                                                                   | 10                                                                                |
|      | 4,6         | 80       |                                                                                   | 10                                                                                |
|      | 4,7         | 80       |                                                                                   | 10                                                                                |
|      | 4,8         | 86       |                                                                                   | 10                                                                                |
|      | 4,9         | 86       |                                                                                   | 10                                                                                |
|      | 5           | 86       |                                                                                   | 10                                                                                |
|      | 5,1         | 86       |                                                                                   | 10                                                                                |
|      | 5,2         | 86       |                                                                                   | 10                                                                                |
|      | 5,3         | 86       |                                                                                   | 10                                                                                |
|      | 5,4         | 93       |                                                                                   | 10                                                                                |
|      | 5,5         | 93       |                                                                                   | 10                                                                                |
|      | 5,6         | 93       |                                                                                   | 10                                                                                |
|      | 5,7         | 93       |                                                                                   | 10                                                                                |
|      | 5,8         | 93       |                                                                                   | 10                                                                                |
|      | 5,9         | 93       |                                                                                   | 10                                                                                |
|      | 6           | 93       |                                                                                   | 10                                                                                |
|      | 6,1         | 101      |                                                                                   | 10                                                                                |

| No.  | Durchmesser | Länge mm |  |  |
|------|-------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 2110 | 6,2         | s101     |                                                                                     | 10                                                                                  |
|      | 6,3         | 101      |                                                                                     | 10                                                                                  |
|      | 6,4         | 101      |                                                                                     | 10                                                                                  |
|      | 6,5         | 101      |                                                                                     | 10                                                                                  |
|      | 6,6         | 101      |                                                                                     | 10                                                                                  |
|      | 6,7         | 101      |                                                                                     | 10                                                                                  |
|      | 6,8         | 109      |                                                                                     | 10                                                                                  |
|      | 6,9         | 109      |                                                                                     | 10                                                                                  |
|      | 7           | 109      |                                                                                     | 10                                                                                  |
|      | 7,1         | 109      |                                                                                     | 10                                                                                  |
|      | 7,2         | 109      |                                                                                     | 10                                                                                  |
|      | 7,3         | 109      |                                                                                     | 10                                                                                  |
|      | 7,4         | 109      |                                                                                     | 10                                                                                  |
|      | 7,5         | 109      |                                                                                     | 10                                                                                  |
|      | 7,6         | 117      |                                                                                     | 10                                                                                  |
|      | 7,7         | 117      |                                                                                     | 10                                                                                  |
|      | 7,8         | 117      |                                                                                     | 10                                                                                  |
|      | 7,9         | 117      |                                                                                     | 10                                                                                  |
|      | 8           | 117      |                                                                                     | 10                                                                                  |
|      | 8,1         | 117      |                                                                                     | 10                                                                                  |
|      | 8,2         | 117      |                                                                                     | 10                                                                                  |
|      | 8,3         | 117      |                                                                                     | 10                                                                                  |
|      | 8,4         | 117      |                                                                                     | 10                                                                                  |
|      | 8,5         | 117      |                                                                                     | 10                                                                                  |
|      | 8,6         | 125      |                                                                                     | 10                                                                                  |
|      | 8,7         | 125      |                                                                                     | 10                                                                                  |
|      | 8,8         | 125      |                                                                                     | 10                                                                                  |
|      | 8,9         | 125      |                                                                                     | 10                                                                                  |
|      | 9           | 125      |                                                                                     | 10                                                                                  |
|      | 9,1         | 125      |                                                                                     | 10                                                                                  |
|      | 9,2         | 125      |                                                                                     | 10                                                                                  |
|      | 9,3         | 125      |                                                                                     | 10                                                                                  |
|      | 9,4         | 125      |                                                                                     | 10                                                                                  |
|      | 9,5         | 125      |                                                                                     | 10                                                                                  |
|      | 9,6         | 133      |                                                                                     | 10                                                                                  |
|      | 9,7         | 133      |                                                                                     | 10                                                                                  |
|      | 9,8         | 133      |                                                                                     | 10                                                                                  |
|      | 9,9         | 133      |                                                                                     | 10                                                                                  |
|      | 10          | 133      |                                                                                     | 10                                                                                  |
|      | 10,2        | 133      |                                                                                     | 10                                                                                  |
|      | 10,5        | 133      |                                                                                     | 10                                                                                  |
|      | 11          | 142      |                                                                                     | 5                                                                                   |
|      | 11,5        | 142      |                                                                                     | 5                                                                                   |
|      | 12          | 151      |                                                                                     | 5                                                                                   |
|      | 12,5        | 151      |                                                                                     | 5                                                                                   |
|      | 13          | 151      |                                                                                     | 5                                                                                   |
|      | 13,5        | 160      |                                                                                     | 5                                                                                   |
|      | 14          | 160      |                                                                                     | 5                                                                                   |
|      | 14,5        | 169      |                                                                                     | 5                                                                                   |
|      | 15          | 169      |                                                                                     | 5                                                                                   |
|      | 15,5        | 178      |                                                                                     | 5                                                                                   |
|      | 16          | 178      |                                                                                     | 5                                                                                   |

**HSS Spiralbohrer mit Zylinderschaft, kurze Ausführung, rollgewalzt, schwarze Ausführung**

HSS twist drills, roll forged, black quality

HSS Foret spiral, Laminer noir

HSS brocas espirales, Laminar negro



| No.  | Durchmesser | Länge mm |  |  |
|------|-------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 2115 | 1           | 34       |                                                                                   | 10                                                                                |
|      | 1,5         | 40       |                                                                                   | 10                                                                                |
|      | 2           | 49       |                                                                                   | 10                                                                                |
|      | 2,1         | 49       |                                                                                   | 10                                                                                |
|      | 2,2         | 53       |                                                                                   | 10                                                                                |
|      | 2,3         | 53       |                                                                                   | 10                                                                                |
|      | 2,4         | 57       |                                                                                   | 10                                                                                |
|      | 2,5         | 57       |                                                                                   | 10                                                                                |
|      | 2,6         | 57       |                                                                                   | 10                                                                                |
|      | 2,7         | 61       |                                                                                   | 10                                                                                |
|      | 2,8         | 61       |                                                                                   | 10                                                                                |
|      | 2,9         | 61       |                                                                                   | 10                                                                                |
|      | 3           | 61       |                                                                                   | 10                                                                                |
|      | 3,1         | 65       |                                                                                   | 10                                                                                |
|      | 3,2         | 65       |                                                                                   | 10                                                                                |
|      | 3,3         | 65       |                                                                                   | 10                                                                                |
|      | 3,4         | 70       |                                                                                   | 10                                                                                |
|      | 3,5         | 70       |                                                                                   | 10                                                                                |
|      | 3,6         | 70       |                                                                                   | 10                                                                                |
|      | 3,7         | 70       |                                                                                   | 10                                                                                |
|      | 3,8         | 75       |                                                                                   | 10                                                                                |
|      | 3,9         | 75       |                                                                                   | 10                                                                                |
|      | 4           | 75       |                                                                                   | 10                                                                                |
|      | 4,1         | 75       |                                                                                   | 10                                                                                |
|      | 4,2         | 75       |                                                                                   | 10                                                                                |
|      | 4,3         | 80       |                                                                                   | 10                                                                                |
|      | 4,4         | 80       |                                                                                   | 10                                                                                |
|      | 4,5         | 80       |                                                                                   | 10                                                                                |
|      | 4,6         | 80       |                                                                                   | 10                                                                                |
|      | 4,7         | 80       |                                                                                   | 10                                                                                |
|      | 4,8         | 86       |                                                                                   | 10                                                                                |
|      | 4,9         | 86       |                                                                                   | 10                                                                                |
|      | 5           | 86       |                                                                                   | 10                                                                                |
|      | 5,1         | 86       |                                                                                   | 10                                                                                |
|      | 5,2         | 86       |                                                                                   | 10                                                                                |
|      | 5,3         | 86       |                                                                                   | 10                                                                                |
|      | 5,4         | 93       |                                                                                   | 10                                                                                |
|      | 5,5         | 93       |                                                                                   | 10                                                                                |
|      | 5,6         | 93       |                                                                                   | 10                                                                                |
|      | 5,7         | 93       |                                                                                   | 10                                                                                |
|      | 5,8         | 93       |                                                                                   | 10                                                                                |
|      | 5,9         | 93       |                                                                                   | 10                                                                                |
|      | 6           | 93       |                                                                                   | 10                                                                                |
|      | 6,1         | 101      |                                                                                   | 10                                                                                |

| No.  | Durchmesser | Länge mm |  |  |
|------|-------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 2115 | 6,2         | s101     |                                                                                     | 10                                                                                  |
|      | 6,3         | 101      |                                                                                     | 10                                                                                  |
|      | 6,4         | 101      |                                                                                     | 10                                                                                  |
|      | 6,5         | 101      |                                                                                     | 10                                                                                  |
|      | 6,6         | 101      |                                                                                     | 10                                                                                  |
|      | 6,7         | 101      |                                                                                     | 10                                                                                  |
|      | 6,8         | 109      |                                                                                     | 10                                                                                  |
|      | 6,9         | 109      |                                                                                     | 10                                                                                  |
|      | 7           | 109      |                                                                                     | 10                                                                                  |
|      | 7,1         | 109      |                                                                                     | 10                                                                                  |
|      | 7,2         | 109      |                                                                                     | 10                                                                                  |
|      | 7,3         | 109      |                                                                                     | 10                                                                                  |
|      | 7,4         | 109      |                                                                                     | 10                                                                                  |
|      | 7,5         | 109      |                                                                                     | 10                                                                                  |
|      | 7,6         | 117      |                                                                                     | 10                                                                                  |
|      | 7,7         | 117      |                                                                                     | 10                                                                                  |
|      | 7,8         | 117      |                                                                                     | 10                                                                                  |
|      | 7,9         | 117      |                                                                                     | 10                                                                                  |
|      | 8           | 117      |                                                                                     | 10                                                                                  |
|      | 8,1         | 117      |                                                                                     | 10                                                                                  |
|      | 8,2         | 117      |                                                                                     | 10                                                                                  |
|      | 8,3         | 117      |                                                                                     | 10                                                                                  |
|      | 8,4         | 117      |                                                                                     | 10                                                                                  |
|      | 8,5         | 117      |                                                                                     | 10                                                                                  |
|      | 8,6         | 125      |                                                                                     | 10                                                                                  |
|      | 8,7         | 125      |                                                                                     | 10                                                                                  |
|      | 8,8         | 125      |                                                                                     | 10                                                                                  |
|      | 8,9         | 125      |                                                                                     | 10                                                                                  |
|      | 9           | 125      |                                                                                     | 10                                                                                  |
|      | 9,1         | 125      |                                                                                     | 10                                                                                  |
|      | 9,2         | 125      |                                                                                     | 10                                                                                  |
|      | 9,3         | 125      |                                                                                     | 10                                                                                  |
|      | 9,4         | 125      |                                                                                     | 10                                                                                  |
|      | 9,5         | 125      |                                                                                     | 10                                                                                  |
|      | 9,6         | 133      |                                                                                     | 10                                                                                  |
|      | 9,7         | 133      |                                                                                     | 10                                                                                  |
|      | 9,8         | 133      |                                                                                     | 10                                                                                  |
|      | 9,9         | 133      |                                                                                     | 10                                                                                  |
|      | 10          | 133      |                                                                                     | 10                                                                                  |
|      | 10,2        | 133      |                                                                                     | 10                                                                                  |
|      | 10,5        | 133      |                                                                                     | 10                                                                                  |
|      | 11          | 142      |                                                                                     | 5                                                                                   |
|      | 11,5        | 142      |                                                                                     | 5                                                                                   |
|      | 12          | 151      |                                                                                     | 5                                                                                   |
|      | 12,5        | 151      |                                                                                     | 5                                                                                   |
|      | 13          | 151      |                                                                                     | 5                                                                                   |
|      | 13,5        | 160      |                                                                                     | 5                                                                                   |
|      | 14          | 160      |                                                                                     | 5                                                                                   |
|      | 14,5        | 169      |                                                                                     | 5                                                                                   |
|      | 15          | 169      |                                                                                     | 5                                                                                   |
|      | 15,5        | 178      |                                                                                     | 5                                                                                   |
|      | 16          | 178      |                                                                                     | 5                                                                                   |

**HSS Profi-Spiralbohrer, DIN 345 mit Morsekegel, gefräste Qualität, mit ausespitzter Querschneide**  
HSS Profi-twist drills, DIN 345 with taper shank, milled quality  
HSS Foret spiral, DIN 345  
HSS brocas espirales, DIN 345



| No.  | Durchmesser | Länge mm | MK-Nr. |  |
|------|-------------|----------|--------|-----------------------------------------------------------------------------------|
| 2120 | 10          | 168      | 1      | 1                                                                                 |
|      | 10,5        | 168      | 1      | 1                                                                                 |
|      | 11          | 175      | 1      | 1                                                                                 |
|      | 11,5        | 175      | 1      | 1                                                                                 |
|      | 12          | 182      | 1      | 1                                                                                 |
|      | 12,5        | 182      | 1      | 1                                                                                 |
|      | 13          | 182      | 1      | 1                                                                                 |
|      | 13,5        | 189      | 1      | 1                                                                                 |
|      | 14          | 189      | 1      | 1                                                                                 |
|      | 14,5        | 212      | 2      | 1                                                                                 |
|      | 15          | 212      | 2      | 1                                                                                 |
|      | 15,5        | 218      | 2      | 1                                                                                 |
|      | 16          | 218      | 2      | 1                                                                                 |
|      | 16,5        | 223      | 2      | 1                                                                                 |
|      | 17          | 223      | 2      | 1                                                                                 |
|      | 17,5        | 228      | 2      | 1                                                                                 |
|      | 18          | 228      | 2      | 1                                                                                 |
|      | 18,5        | 233      | 2      | 1                                                                                 |
|      | 19          | 233      | 2      | 1                                                                                 |
|      | 19,5        | 238      | 2      | 1                                                                                 |
|      | 20          | 238      | 2      | 1                                                                                 |
|      | 20,5        | 243      | 2      | 1                                                                                 |
|      | 21          | 243      | 2      | 1                                                                                 |
|      | 21,5        | 248      | 2      | 1                                                                                 |
|      | 22          | 248      | 2      | 1                                                                                 |
|      | 22,5        | 253      | 2      | 1                                                                                 |
|      | 23          | 253      | 2      | 1                                                                                 |
|      | 23,5        | 276      | 3      | 1                                                                                 |

| No.  | Durchmesser | Länge mm | MK-Nr. |  |
|------|-------------|----------|--------|-------------------------------------------------------------------------------------|
| 2120 | 24          | 281      | 3      | 1                                                                                   |
|      | 24,5        | 281      | 3      | 1                                                                                   |
|      | 25          | 281      | 3      | 1                                                                                   |
|      | 25,5        | 286      | 3      | 1                                                                                   |
|      | 26          | 286      | 3      | 1                                                                                   |
|      | 26,5        | 286      | 3      | 1                                                                                   |
|      | 27          | 291      | 3      | 1                                                                                   |
|      | 27,5        | 291      | 3      | 1                                                                                   |
|      | 28          | 291      | 3      | 1                                                                                   |
|      | 28,5        | 296      | 3      | 1                                                                                   |
|      | 29          | 296      | 3      | 1                                                                                   |
|      | 29,5        | 296      | 3      | 1                                                                                   |
|      | 30          | 296      | 3      | 1                                                                                   |
|      | 30,5        | 301      | 3      | 1                                                                                   |
|      | 31          | 301      | 3      | 1                                                                                   |
|      | 31,5        | 301      | 3      | 1                                                                                   |
|      | 32          | 334      | 4      | 1                                                                                   |
|      | 33          | 334      | 4      | 1                                                                                   |
|      | 34          | 339      | 4      | 1                                                                                   |
|      | 35          | 339      | 4      | 1                                                                                   |
|      | 36          | 344      | 4      | 1                                                                                   |
|      | 37          | 344      | 4      | 1                                                                                   |
|      | 38          | 349      | 4      | 1                                                                                   |
|      | 39          | 349      | 4      | 1                                                                                   |
|      | 40          | 349      | 4      | 1                                                                                   |
|      | 41          | 354      | 4      | 1                                                                                   |
|      | 42          | 354      | 4      | 1                                                                                   |
|      | 43          | 359      | 4      | 1                                                                                   |
|      | 44          | 359      | 4      | 1                                                                                   |
|      | 45          | 359      | 4      | 1                                                                                   |
|      | 46          | 364      | 4      | 1                                                                                   |
|      | 47          | 364      | 4      | 1                                                                                   |
|      | 48          | 369      | 4      | 1                                                                                   |

**HSS Spiralbohrer mit Zylinderschaft, kurze Ausführung, rollgewalzt, schwarze Ausführung**

HSS twist drills, roll forged, black quality  
HSS Foret spiral, Laminer noir  
HSS brocas espirales, Laminar negro



19-tlg.

| No.  | Durchmesser                 |  |  |
|------|-----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 2130 | 1 - 10 mm x 0,5 mm steigend | 650                                                                               | 1                                                                                 |

25-tlg.

| No.  | Durchmesser                 |  |  |
|------|-----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 2131 | 1 - 13 mm x 0,5 mm steigend | 1200                                                                                | 1                                                                                   |

**HSS Co-Spiralbohrer mit Zylinderschaft, kurze Ausführung, profilgeschliffen, Gold finish**

HSS Co-twist drills, gold finish  
HSS Co-Foret spiral, finish d'or  
HSS Co-brocas espirales, acabado oro



19-tlg.

| No.  | Durchmesser                 |  |  |
|------|-----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 2134 | 1 - 10 mm x 0,5 mm steigend | 650                                                                                 | 1                                                                                   |

25-tlg.

| No.  | Durchmesser                 |  |  |
|------|-----------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 2135 | 1 - 13 mm x 0,5 mm steigend | 1200                                                                                  | 1                                                                                     |

**HSS GK-Spiralbohrer mit Zylinderschaft, kurze Ausführung, profilgeschliffen, blanke Ausführung**

HSS GK-twist drills, bright finish  
HSS GK-Foret spiral, qualité briquer  
HSS GK-brocas espirales, calidad pulimentor



19-tlg.

| No.  | Durchmesser                 |  |  |
|------|-----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 2132 | 1 - 10 mm x 0,5 mm steigend | 650                                                                                 | 1                                                                                   |

25-tlg.

| No.  | Durchmesser                 |  |  |
|------|-----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 2133 | 1 - 13 mm x 0,5 mm steigend | 1200                                                                                | 1                                                                                   |



### Stechbeitel mit Weißbuchenheft

Firmer chisels with hornbeam handle

Burin avec manche en bot

Cincer de modera



| No.  | mm | Heft | Länge | g   |   |
|------|----|------|-------|-----|---|
| 1590 | 2  | 125  | 248   | 82  | 6 |
|      | 4  | 125  | 248   | 88  | 6 |
|      | 6  | 125  | 248   | 92  | 6 |
|      | 8  | 125  | 252   | 105 | 6 |
|      | 10 | 125  | 252   | 115 | 6 |
|      | 12 | 135  | 261   | 130 | 6 |
|      | 13 | 135  | 262   | 133 | 6 |
|      | 14 | 135  | 263   | 138 | 6 |
|      | 16 | 135  | 265   | 142 | 6 |
|      | 18 | 135  | 267   | 148 | 6 |
|      | 20 | 135  | 269   | 152 | 6 |
|      | 22 | 140  | 278   | 190 | 6 |
|      | 24 | 140  | 280   | 192 | 6 |
|      | 26 | 140  | 280   | 195 | 6 |
|      | 28 | 140  | 288   | 210 | 6 |
|      | 30 | 140  | 288   | 215 | 6 |
|      | 32 | 150  | 300   | 260 | 6 |
|      | 35 | 150  | 300   | 305 | 6 |
|      | 40 | 150  | 305   | 395 | 6 |

### Hohlbeitel mit Weißbuchenheft

Firmer Gouges with hornbeam handle

Gouges avec manche en bot

Cincer de modera



| No.  | mm | Heft | Länge | g   |   |
|------|----|------|-------|-----|---|
| 1592 | 4  | 125  | 248   | 248 | 6 |
|      | 6  | 125  | 248   | 248 | 6 |
|      | 8  | 125  | 252   | 252 | 6 |
|      | 10 | 125  | 252   | 252 | 6 |
|      | 12 | 135  | 261   | 261 | 6 |
|      | 14 | 135  | 263   | 263 | 6 |
|      | 16 | 135  | 265   | 265 | 6 |
|      | 18 | 135  | 267   | 267 | 6 |
|      | 20 | 135  | 269   | 269 | 6 |
|      | 22 | 140  | 278   | 278 | 6 |
|      | 24 | 140  | 280   | 280 | 6 |
|      | 26 | 140  | 280   | 280 | 6 |
|      | 28 | 140  | 288   | 288 | 6 |
|      | 30 | 140  | 288   | 288 | 6 |
|      | 32 | 150  | 300   | 300 | 6 |

### Stechbeitelsatz mit Weißbuchenheft, 6-tlg.

Firmer chisel set with hornbeam handle, 6-pcs.

Jeu de burin avec manche en bot, 6-pcs.



| No.  | Inhalt                      | g   |   |
|------|-----------------------------|-----|---|
| 1595 | 1590: 6, 10, 12, 16, 20, 26 | 850 | 1 |

### Stechbeitel mit Plastikheft

Firmer chisels with plastic handle

Burin avec manche en bois

Cincer de plastico



| No.  | mm | Heft | Länge | g   |     |
|------|----|------|-------|-----|-----|
| 1591 | 2  | 112  | 232   | 80  | 80  |
|      | 4  | 112  | 232   | 87  | 87  |
|      | 6  | 112  | 232   | 93  | 93  |
|      | 8  | 112  | 235   | 100 | 100 |
|      | 10 | 112  | 235   | 108 | 108 |
|      | 12 | 112  | 235   | 115 | 115 |
|      | 14 | 112  | 238   | 128 | 128 |
|      | 15 | 112  | 238   | 130 | 130 |
|      | 16 | 112  | 238   | 135 | 135 |
|      | 18 | 112  | 243   | 138 | 138 |
|      | 20 | 112  | 243   | 147 | 147 |
|      | 22 | 112  | 250   | 170 | 170 |
|      | 24 | 112  | 250   | 173 | 173 |
|      | 26 | 112  | 250   | 190 | 190 |
|      | 28 | 112  | 256   | 200 | 200 |
|      | 30 | 112  | 256   | 208 | 208 |
|      | 32 | 112  | 262   | 230 | 230 |

### Stechbeitelsatz mit Weißbuchenheft, 6-tlg.

Firmer chisel set with hornbeam handle, 6-pcs.

Jeu de burin avec manche en bot, 6-pcs.



| No.  | Inhalt                       | g   |   |
|------|------------------------------|-----|---|
| 1596 | 1591 - 6, 10, 12, 16, 20, 26 | 800 | 1 |

**Raspeln, flach**

Rasps, flat  
Râpes, plate  
Escofinas, plana



DIN 7263 Form A



| No.  | Länge | Hieb   |  |  |
|------|-------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1651 | 150   |        | 70                                                                                | 10                                                                                |
|      | 200   |        | 150                                                                               | 10                                                                                |
|      | 250   | Hieb 2 | 290                                                                               | 10                                                                                |
|      | 300   |        | 550                                                                               | 10                                                                                |

**Raspeln, halbrund**

Rasps, half-round  
Râpes, demi-rond  
Escofinas, media cana



DIN 7263 Form C



| No.  | Länge | Hieb   |  |  |
|------|-------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1654 | 150   |        | 60                                                                                | 10                                                                                |
|      | 200   |        | 110                                                                               | 10                                                                                |
|      | 250   | Hieb 2 | 230                                                                               | 10                                                                                |
|      | 300   |        | 400                                                                               | 10                                                                                |

**Raspeln, rund**

Rasps, round  
Râpes, rond  
Escofinas, redonda



DIN 7263 Form E



| No.  | Länge | Hieb   |  |  |
|------|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1657 | 150   |        | 60                                                                                  | 10                                                                                  |
|      | 200   |        | 110                                                                                 | 10                                                                                  |
|      | 250   | Hieb 2 | 230                                                                                 | 10                                                                                  |
|      | 300   |        | 400                                                                                 | 10                                                                                  |

**Werkstattfeile, Flachstumpf**  
**Bastard, Halbschlicht, Schlicht**

Flat file / Lime plâte / Limas planas



DIN 7261 Form A



| No.               | Länge | Hieb           |  |  |
|-------------------|-------|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1600 Bastard      | 100   |                | 19                                                                                  | 10                                                                                  |
|                   | 125   | Hieb 1         | 37                                                                                  | 10                                                                                  |
|                   | 150   | (Bastard)      | 80                                                                                  | 10                                                                                  |
| 1601 Halbschlicht | 200   | Hieb 2         | 150                                                                                 | 10                                                                                  |
|                   | 250   | (Halbschlicht) | 290                                                                                 | 10                                                                                  |
|                   | 300   | Hieb 3         | 520                                                                                 | 10                                                                                  |
| 1602 Schlicht     | 350   | (Schlicht)     |                                                                                     |                                                                                     |
|                   | 400   |                |                                                                                     |                                                                                     |

**Werkstattfeile, Dreikant**

Three-edge file / Lime trois bords / Limas triangulares



DIN 7261 Form C



| No.               | Länge | Hieb           |  |  |
|-------------------|-------|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1603 Bastard      | 100   |                | 30                                                                                  | 10                                                                                  |
|                   | 125   | Hieb 1         | 36                                                                                  | 10                                                                                  |
|                   | 150   | (Bastard)      | 80                                                                                  | 10                                                                                  |
| 1604 Halbschlicht | 200   | Hieb 2         | 160                                                                                 | 10                                                                                  |
|                   | 250   | (Halbschlicht) | 280                                                                                 | 10                                                                                  |
|                   | 300   | Hieb 3         | 440                                                                                 | 10                                                                                  |
| 1605 Schlicht     | 350   | (Schlicht)     |                                                                                     |                                                                                     |
|                   | 400   |                |                                                                                     |                                                                                     |

**Werkstattfeile, Vierkant**

Square-file / Lime quatre bords / Limas cuadradas



DIN 7261 Form D



| No.               | Länge | Hieb           |  |  |
|-------------------|-------|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1606 Bastard      | 100   | Hieb 1         | 12                                                                                  | 10                                                                                  |
|                   | 150   | (Bastard)      | 39                                                                                  | 10                                                                                  |
|                   | 200   | Hieb 2         | 90                                                                                  | 10                                                                                  |
| 1607 Halbschlicht | 250   | (Halbschlicht) | 180                                                                                 | 10                                                                                  |
|                   | 300   | Hieb 3         | 330                                                                                 | 10                                                                                  |
|                   | 350   | (Schlicht)     |                                                                                     |                                                                                     |
| 1608 Schlicht     | 400   |                |                                                                                     |                                                                                     |

**Werkstattfeile, Halbrund**

Half Round file / Lime demi rond / Limas media câna



DIN 7261 Form E



| No.               | Länge | Hieb           |  |  |
|-------------------|-------|----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1609 Bastard      | 100   |                | 24                                                                                    | 10                                                                                    |
|                   | 125   | Hieb 1         | 27                                                                                    | 10                                                                                    |
|                   | 150   | (Bastard)      | 60                                                                                    | 10                                                                                    |
| 1610 Halbschlicht | 200   | Hieb 2         | 130                                                                                   | 10                                                                                    |
|                   | 250   | (Halbschlicht) | 240                                                                                   | 10                                                                                    |
|                   | 300   | Hieb 3         | 380                                                                                   | 10                                                                                    |
| 1611 Schlicht     | 350   | (Schlicht)     |                                                                                       |                                                                                       |
|                   | 400   |                |                                                                                       |                                                                                       |

**Werkstattfeile, Rund**

Round files / Limes rond / Limas redondas



DIN 7261 Form F



| No.               | Länge | Hieb           |  |  |
|-------------------|-------|----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1612 Bastard      | 100   |                | 12                                                                                    | 10                                                                                    |
|                   | 125   | Hieb 1         | 22                                                                                    | 10                                                                                    |
|                   | 150   | (Bastard)      | 34                                                                                    | 10                                                                                    |
| 1613 Halbschlicht | 200   | Hieb 2         | 70                                                                                    | 10                                                                                    |
|                   | 250   | (Halbschlicht) | 130                                                                                   | 10                                                                                    |
|                   | 300   | Hieb 3         | 250                                                                                   | 10                                                                                    |
| 1614 Schlicht     | 350   | (Schlicht)     |                                                                                       |                                                                                       |
|                   | 400   |                |                                                                                       |                                                                                       |

## Feilenhefte, Holz

Handles for Files, wood  
Manches de Limes, bois  
Mangos para limas, madera



| No.  |     |               |  |  |
|------|-----|---------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1620 | 90  | 100, 125, 150 | 26                                                                                | 10                                                                                |
|      | 100 | 200           | 30                                                                                | 10                                                                                |
|      | 110 | 250, 300      | 41                                                                                | 10                                                                                |

## Fräserfeile Flachstumpf

Milling File  
Fraise Lime  
Fresado Limas



| No.  | Länge | Hieb   |  |  |
|------|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1615 | 250   | Hieb 1 |                                                                                     | 1                                                                                   |
|      | 300   |        |                                                                                     |                                                                                     |
|      | 350   |        |                                                                                     |                                                                                     |



| No.  | Länge | Hieb   |  |  |
|------|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1616 | 250   | Hieb 2 |                                                                                     | 1                                                                                   |
|      | 300   |        |                                                                                     |                                                                                     |
|      | 350   |        |                                                                                     |                                                                                     |



| No.  | Länge | Hieb   |  |  |
|------|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1617 | 250   | Hieb 3 |                                                                                     | 1                                                                                   |
|      | 300   |        |                                                                                     |                                                                                     |
|      | 350   |        |                                                                                     |                                                                                     |

## Karosserieblätter

Milled File blade  
Limes frisees



| No.  | Länge | Hieb   |  |  |
|------|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1618 | 350   | Hieb 1 |                                                                                     | 1                                                                                   |



| No.  | Länge | Hieb   |  |  |
|------|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1619 | 350   | Hieb 2 |                                                                                     | 1                                                                                   |

## Karosseriefeilenhalter

Holder for Body file  
Support pour Carrosserie



| No.  | Länge | Hieb   |  |  |
|------|-------|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1621 | 350   | Hieb 1 |                                                                                       | 1                                                                                     |

## Kettensägefeile

Chainsaw fel  
Rones pour fronconnease



| No.  | Länge | Hieb   | Ø   |  |  |
|------|-------|--------|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1622 | 150   | Hieb 3 | 3,2 |                                                                                       | 1                                                                                     |
|      | 150   |        | 3,5 |                                                                                       |                                                                                       |
|      | 150   |        | 4,0 |                                                                                       |                                                                                       |



| No.  | Länge | Hieb   | Ø   |  |  |
|------|-------|--------|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1623 | 200   | Hieb 3 | 3,5 |                                                                                       | 1                                                                                     |
|      | 200   |        | 4,0 |                                                                                       |                                                                                       |
|      | 200   |        | 4,5 |                                                                                       |                                                                                       |
|      | 200   |        | 4,8 |                                                                                       |                                                                                       |
|      | 200   |        | 5,0 |                                                                                       |                                                                                       |
|      | 200   |        | 5,5 |                                                                                       |                                                                                       |

**Feilenbürste**

File brush / Brosse de limes / Cepillo de cardas



| No.  | Länge |  |  |  |
|------|-------|--|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1625 | 250   |  | 80                                                                                | 10                                                                                |

**Feilen-Sätze mit Holzheft in Tasche 5-tlg.**

Sets of Files 5 pcs., with wooden handle

Sets de Limes 5 pcs., avec manche de bois

Juego de limas 5 pza., con mango de madera



| No.  | Länge | Hieb   |  |  |
|------|-------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1630 | 100   | Hieb 1 | 405                                                                               | 5                                                                                 |
| 1631 | 125   | Hieb 1 | 720                                                                               | 5                                                                                 |
| 1632 | 150   | Hieb 2 | 405                                                                               | 5                                                                                 |
| 1633 | 200   | Hieb 2 | 720                                                                               | 5                                                                                 |

**Schlüsselfeilensatz in Blechkassette**

Sets of Files, in metal case

Sets de Limes, en boîte metal

Juego de limas en caja de metal



| No.  | Länge | Hieb           |  |  |
|------|-------|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1640 | 100   | Holzheft       | 405                                                                                 | 5                                                                                   |
| 1641 | 100   | Kunststoffheft | 150                                                                                 | 5                                                                                   |

**Kontaktfeile, Kreuzhieb**

File / Lime / Lima



| No.  | Länge | Hieb   |  |  |
|------|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1645 | 150   | Hieb 1 | 10                                                                                  | 5                                                                                   |

**Kontaktfeilesatz 6-tlg. in Tasche**

Set of Files in pouch

Jeu de Limes en pochette

Juego de 6 limas en bolsa de plastico



| No.  | Länge | Hieb |  |  |
|------|-------|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1646 | 150   |      | 75                                                                                    | 5                                                                                     |

**Gewindefeile**

Thread restorers / Limes de filets / Limas para rosca



| No.    | Länge                 | Länge |  |  |
|--------|-----------------------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1648 M | für metrische Gewinde | 230   | 130                                                                                   | 1                                                                                     |
|        | 0,80-3,00 mm          |       |                                                                                       |                                                                                       |
|        | M5-M 27               |       |                                                                                       |                                                                                       |
| 1648 A | für AF Gewinde        | 230   | 130                                                                                   | 1                                                                                     |
|        | 24-11 Gänge auf 1"    |       |                                                                                       |                                                                                       |
|        | 3/16"-5/8" AF         |       |                                                                                       |                                                                                       |
| 1648 W | für WW Gewinde        | 230   | 130                                                                                   | 1                                                                                     |
|        | 24-10 Gänge auf 1"    |       |                                                                                       |                                                                                       |
|        | 3/16"-11/16" WW (BSW) |       |                                                                                       |                                                                                       |



### Dreikant-Hohlschaber

Triangle hollow scrapers  
Grattoirs-cannelés triangulaires  
Rascadores acanalados triangulares

DIN 8350 Form C



| No.  | Länge |  |  |
|------|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 7320 | 100   | 55                                                                                | 5                                                                                 |
|      | 125   | 65                                                                                | 5                                                                                 |
|      | 150   | 105                                                                               | 5                                                                                 |
|      | 175   | 115                                                                               | 5                                                                                 |
|      | 200   | 125                                                                               | 5                                                                                 |
|      | 250   | 210                                                                               | 5                                                                                 |
|      | 300   | 225                                                                               | 5                                                                                 |

### Feinmechaniker-Schaber

Precisions engineers' scrapers / Grattoirs de mécanicien  
Rascadores mecánicos de precisión



| No.  | Länge |  |  |
|------|-------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 7321 | 75    | 35                                                                                 | 10                                                                                 |

### Dreikant-Vollschaber

Triangle scrapers, plain  
Grattoirs triangulaires massifs  
Rascadores triangulares macizos

DIN 8350 Form B



| No.  | Länge |  |  |
|------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 7322 | 100   | 50                                                                                  | 5                                                                                   |
|      | 125   | 65                                                                                  | 5                                                                                   |
|      | 150   | 110                                                                                 | 5                                                                                   |
|      | 175   | 135                                                                                 | 5                                                                                   |
|      | 200   | 145                                                                                 | 5                                                                                   |
|      | 250   | 260                                                                                 | 5                                                                                   |
|      | 300   | 345                                                                                 | 5                                                                                   |

### Flatschaber

Flat scrapers, plain / Grattoirs plats / Rascadores planos

DIN 8350 Form A



| No.  | Länge |  |  |
|------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 7323 | 125   | 95                                                                                  | 5                                                                                   |
|      | 150   | 140                                                                                 | 5                                                                                   |
|      | 175   | 225                                                                                 | 5                                                                                   |
|      | 200   | 235                                                                                 | 5                                                                                   |
|      | 250   | 320                                                                                 | 5                                                                                   |
|      | 300   | 370                                                                                 | 5                                                                                   |

### Dreikant Löffelschaber mit Holzheft

Scrapers three edged  
Racloirs trois bords  
Rascadores triangulares de cuchara



| No.  | Länge |  |  |
|------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 7324 | 100   | 44                                                                                  | 5                                                                                   |
|      | 125   | 65                                                                                  | 5                                                                                   |
|      | 150   | 95                                                                                  | 5                                                                                   |
|      | 200   | 140                                                                                 | 5                                                                                   |
|      | 250   | 200                                                                                 | 5                                                                                   |
|      | 300   | 235                                                                                 | 5                                                                                   |

### Amerikanische Löffelschaber (Lagerschaber)

American spoon scrapers (three-square scrapers)  
Grattoirs creux tranchants (grattoirs pour palieffs)  
Rascadores de cuchara americano (rascadores para cojinetes)



| No.  | Länge |  |  |
|------|-------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 7325 | 150   | 100                                                                                  | 5                                                                                    |
|      | 200   | 150                                                                                  | 5                                                                                    |
|      | 250   | 195                                                                                  | 5                                                                                    |
|      | 300   | 250                                                                                  | 5                                                                                    |

### Dichtungs-Flatschaber mit Kunststoffgriff

Scraper, flat, for sealings  
Racloir de joint  
Rascadores planos para sellar



| No.  | Länge |  |  |
|------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1675 | 140   | 125                                                                                   | 5                                                                                     |

### Hochleistungs-Hartmetallschaber mit Radius

Square scraper with replaceable carbide tip, allen key  
Grattoir creux à mise rapportée en métal dur échangeable.  
Le grattoir creux est livré avec clé mâle  
Raspueador plano con placa de metal duro con radio,  
reversible de 4 cortes incl. llave allen



| No.  | Länge | Breite | Dicke |  |  |
|------|-------|--------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1676 | 300   | 20     | 2     | 365                                                                                   | 1                                                                                     |
|      | 350   | 25     | 2     | 445                                                                                   | 1                                                                                     |
|      | 350   | 30     | 2     | 605                                                                                   | 1                                                                                     |

**Hartmetall Ersatzschaberplatte mit Radius**

Carbide scraper tip ready ground and lapped for square scraper  
Grattoir en métal dur affûté et rodé, prêt être utilisé sur le grattoir creux / Placa de metal dure para rasqueteador, de repuesto, con radio afilada y brunida



| No.  | Länge | Breite | Dicke |  |  |
|------|-------|--------|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1677 | 25    | 20     | 2     | 18                                                                                | 10                                                                                |
|      | 25    | 25     | 2     | 22                                                                                | 10                                                                                |
|      | 25    | 30     | 2     | 30                                                                                | 10                                                                                |

**Hartmetall Flatschaber mit eingelöteter Hartmetallschneide**

Carbide flat scraper with soldered carbide blade  
Racloir en métal dur avec tranchant soudé  
Rascadores planos de metal dure con filo soldado



| No.  | Länge | Breite | Dicke |  |  |
|------|-------|--------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1678 | 200   | 20     | 2     | 210                                                                                 | 10                                                                                  |
|      | 250   | 30     | 2     | 350                                                                                 | 10                                                                                  |

**Schlosserhammer mit Fieberglasstiel**

Machinist's Hammer / Marteaux de mécanicien  
Martillos maquinista



| No. | Größe |  |  |
|-----|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 505 | 100   | 130                                                                                 | 12                                                                                  |
|     | 300   | 350                                                                                 | 12                                                                                  |
|     | 500   | 590                                                                                 | 3                                                                                   |
|     | 800   | 900                                                                                 | 3                                                                                   |

**Fäustel mit Fieberglasstiel**

Stoner's Hammers / Marteaux de pierre / Reartillo de piedra



| No. | Größe |  |  |
|-----|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 506 | 1000  | 1100                                                                                | 1                                                                                   |
|     | 1250  | 1350                                                                                | 1                                                                                   |
|     | 1500  | 1625                                                                                | 1                                                                                   |
|     | 2000  | 2150                                                                                | 1                                                                                   |

**Vorschlaghammer mit Fieberglasstiel**

Sledge Hammer / Marteaux de devant / Martillo picapedrero



| No. | Größe |  |  |
|-----|-------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 507 | 5 KG  | 6000                                                                                 | 4                                                                                    |

**Gummihammer mit Fieberglasstiel**

Rubber Hammers / Marteaux de caoutchouc / Martillo de goma



| No. | Größe |  |  |
|-----|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 508 | 250   | 350                                                                                   | 6                                                                                     |
|     | 500   | 600                                                                                   | 6                                                                                     |
|     | 750   | 900                                                                                   | 6                                                                                     |

**Latthammer mit Fieberglasstiel**

Carpenter's hammer / Marteau de carpentiers  
Martillo carpintero



| No. | Größe |  |  |
|-----|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 509 | 600   | 700                                                                                   | 12                                                                                    |

### Beil mit Fieberglasstiel

Hatch / Hache / Hacha



| No. | Größe |  |  |
|-----|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 510 | 600   | 700                                                                               | 10                                                                                |

### Axt mit Fieberglasstiel

Feeling AXES / Hache de bois / Hacha de madera



| No. | Größe |  |  |
|-----|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 511 | 1250  | 1700                                                                              | 10                                                                                |

### Karosserie- und Ausbeulsatz

Body Shop Hammer Set

Marteaux a planner Set

Martillo carrocerero Set



7-tlg.

| No. |  |  |
|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 513 | 5150                                                                                | 1                                                                                   |

### Profi-Ausbeulhammer Satz

Body Shop Hammer Set

Marteaux a planner Set

Martillo carrocerero Set



10-tlg.

| No. |  |  |
|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 514 | 1800                                                                                | 1                                                                                   |

### Plastikhammer

Plactic-hammers / Marteaux plastiques / Martillos de plastico



| No. | Größe |  |  |
|-----|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 520 | 22    | 160                                                                                 | 6                                                                                   |
|     | 27    | 250                                                                                 | 6                                                                                   |
|     | 32    | 360                                                                                 | 6                                                                                   |
|     | 35    | 450                                                                                 | 6                                                                                   |
|     | 40    | 630                                                                                 | 6                                                                                   |
|     | 50    | 950                                                                                 | 6                                                                                   |
|     | 60    | 1500                                                                                | 6                                                                                   |

### Ersatzköpfe

Spare heads

Têtes de rechange

Repuesto cabeza martillos plastico



| No. | Größe |  |  |
|-----|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 521 | 22    | 16                                                                                    | 10                                                                                    |
|     | 27    | 30                                                                                    | 10                                                                                    |
|     | 32    | 50                                                                                    | 10                                                                                    |
|     | 35    | 66                                                                                    | 10                                                                                    |
|     | 40    | 80                                                                                    | 10                                                                                    |
|     | 50    | 170                                                                                   | 10                                                                                    |
|     | 60    | 220                                                                                   | 10                                                                                    |

### Plastikhammer Nylon

Plactic-hammers Nylon / Marteaux plastiques Nylon

Martillos de plastico Nylon



| No. | Größe |  |  |
|-----|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 522 | 22    | 160                                                                                   | 6                                                                                     |
|     | 27    | 250                                                                                   | 6                                                                                     |
|     | 32    | 360                                                                                   | 6                                                                                     |
|     | 35    | 450                                                                                   | 6                                                                                     |
|     | 40    | 630                                                                                   | 6                                                                                     |
|     | 50    | 950                                                                                   | 6                                                                                     |
|     | 60    | 1500                                                                                  | 6                                                                                     |

**Ersatzköpfe Nylon passend zu Art.-No. 522, 530, 531**

Spare heads Nylon for Art.-No.522, 530, 531

Têtes de rechange Nylon por Art.-No. 522, 530, 531

Repuesto cabeza martillos plastico Nylon Art.-No.522, 530, 531



| No. | Größe |  |  |
|-----|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 523 | 22    | 16                                                                                | 10                                                                                |
|     | 27    | 30                                                                                | 10                                                                                |
|     | 32    | 50                                                                                | 10                                                                                |
|     | 35    | 66                                                                                | 10                                                                                |
|     | 40    | 80                                                                                | 10                                                                                |
|     | 50    | 170                                                                               | 10                                                                                |
|     | 60    | 220                                                                               | 10                                                                                |

**Rückschlagfreie Schonhämmer mit Hickory Stiel**

Plastic-hammers non back stroking

Marteaux plastiques non-contrecoupant

Martillos de plastico



| No. | Größe |  |  |
|-----|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 530 | 32    | 600                                                                                 | 5                                                                                   |
|     | 35    | 670                                                                                 | 5                                                                                   |
|     | 40    | 820                                                                                 | 5                                                                                   |
|     | 50    | 1180                                                                                | 5                                                                                   |
|     | 60    | 1800                                                                                | 4                                                                                   |

**Rückschlagfreie Schonhämmer mit Stahlrohr Stiel**

Plastic-hammers non back stroking

Marteaux plastiques non-contrecoupant

Martillos de plastico



| No. | Größe |  |  |
|-----|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 531 | 32    | 600                                                                                 | 5                                                                                   |
|     | 35    | 670                                                                                 | 5                                                                                   |
|     | 40    | 820                                                                                 | 5                                                                                   |
|     | 50    | 1180                                                                                | 5                                                                                   |
|     | 60    | 1800                                                                                | 4                                                                                   |

**Schlackehammer Din 5133**

Welding Hammers / Marteaux de sonder / Martillos de soldar



| No. | Größe |  |  |
|-----|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 533 |       |                                                                                     | 5                                                                                   |

**Schlosserhammer mit Stielschutzhülse**

DIN 1041

Machinist's Hammer / Marteaux de mécanicien

Martillos maquinista



| No. | Größe |  |  |
|-----|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 534 | 100   | 150                                                                                   | 6                                                                                     |
|     | 200   | 260                                                                                   | 6                                                                                     |
|     | 300   | 420                                                                                   | 6                                                                                     |
|     | 400   | 520                                                                                   | 6                                                                                     |
|     | 500   | 620                                                                                   | 6                                                                                     |
|     | 800   | 1000                                                                                  | 6                                                                                     |
|     | 1000  | 1200                                                                                  | 6                                                                                     |

**Schlosserhammer mit Esche Stiel**

DIN 1041

Machinist's Hammer

Marteaux de mécanicien

Martillos maquinista



| No. | Größe |  |  |
|-----|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 535 | 100   | 130                                                                                   | 6                                                                                     |
|     | 200   | 240                                                                                   | 6                                                                                     |
|     | 300   | 350                                                                                   | 6                                                                                     |
|     | 400   | 475                                                                                   | 6                                                                                     |
|     | 500   | 590                                                                                   | 6                                                                                     |
|     | 800   | 900                                                                                   | 6                                                                                     |
|     | 1000  | 1100                                                                                  | 6                                                                                     |
|     | 1500  | 1620                                                                                  | 6                                                                                     |
|     | 2000  | 2150                                                                                  | 1                                                                                     |



## Schlosserhammer mit Hickory Stiel

DIN 1041

Machinist's Hammer  
Marteaux de mécanicien  
Martillos maquinista



| No. | Größe |  |  |
|-----|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 536 | 100   | 150                                                                               | 6                                                                                 |
|     | 200   | 260                                                                               | 6                                                                                 |
|     | 300   | 420                                                                               | 6                                                                                 |
|     | 400   | 520                                                                               | 6                                                                                 |
|     | 500   | 620                                                                               | 6                                                                                 |
|     | 800   | 1000                                                                              | 6                                                                                 |
|     | 1000  | 1200                                                                              | 6                                                                                 |
|     | 1500  | 1620                                                                              | 6                                                                                 |
|     | 2000  | 2150                                                                              | 1                                                                                 |

## Lose Hammerstiele für Art.-No. 535 + 536

DIN 5111

Wooden Handles for Item No.535 + 536  
Manche de bois No.535+ 536  
Mangos madera para martillos No.535 + 536



| No.          | Größe |  |  |
|--------------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 535 S+ 536 S | 100   | 60                                                                                  | 5                                                                                   |
| 535 S+ 536 S | 200   | 80                                                                                  | 5                                                                                   |
| 535 S+ 536 S | 300   | 100                                                                                 | 5                                                                                   |
| 535 S+ 536 S | 400   | 120                                                                                 | 5                                                                                   |
| 535 S+ 536 S | 500   | 160                                                                                 | 5                                                                                   |
| 535 S+ 536 S | 800   | 200                                                                                 | 5                                                                                   |
| 535 S+ 536 S | 1000  | 240                                                                                 | 5                                                                                   |
| 535 S+ 536 S | 1500  | 240                                                                                 | 5                                                                                   |
| 535 S+ 536 S | 2000  | 320                                                                                 | 5                                                                                   |

## Fäustel Eschestiel

DIN 6475

Stoner's Hammers / Marteaux de pierre,  
Reartillo de piedra



| No. | Größe |  |  |
|-----|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 537 | 1000  | 1100                                                                                | 1                                                                                   |
|     | 1250  | 1350                                                                                | 1                                                                                   |
|     | 1500  | 1625                                                                                | 1                                                                                   |
|     | 2000  | 2150                                                                                | 1                                                                                   |

## Lose Hammerstiele für Art.-No. 537

Wooden Handles for Item No.537  
Manche de bois No.537,  
Mangos madera para martillos No.537



| No.   | Größe |  |  |
|-------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 537 S | 1000  | 120                                                                                 | 1                                                                                   |
|       | 1250  | 120                                                                                 | 1                                                                                   |
|       | 1500  | 140                                                                                 | 1                                                                                   |
|       | 2000  | 140                                                                                 | 1                                                                                   |

## Schlosserhammer mit Stahlrohrstiel

Machinist's Hammer / Marteaux de mécanicien  
Martillos maquinista



| No. | Größe |  |  |
|-----|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 538 | 300   | 500                                                                                   | 6                                                                                     |

## Fäustel mit Stahlrohrstiel

Stoner's Hammers / Masses / Maza



| No. | Größe |  |  |
|-----|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 539 | 1250  | 1460                                                                                  | 1                                                                                     |

## Vorschlaghammer

DIN 1042

Sledge Hammers / Marteaux de devant  
Martillo picapedrero



| No. | Größe |  |  |
|-----|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 540 | 3 KG  | 4000                                                                                  | 1                                                                                     |
|     | 4 KG  | 5000                                                                                  | 1                                                                                     |
|     | 5 KG  | 6000                                                                                  | 1                                                                                     |
|     | 6 KG  | 7000                                                                                  | 1                                                                                     |
|     | 8 KG  | 9000                                                                                  | 1                                                                                     |
|     | 10 KG | 11000                                                                                 | 1                                                                                     |

**Verbauhammer mit Eschestiel  
und vulkanisiertem Gummikopf**

Stoner's Hammers / Marteaux de pierr / Martillo de piedra



| No. | Größe |  |  |
|-----|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 541 | 2000  | 2400                                                                              | 1                                                                                 |

**Gummihammer**

DIN 1042

Rubber Hammers / Marteaux de caoutchouc / Martillo de goma



| No. | Größe |  |  |
|-----|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 545 | 40    | 150                                                                               | 1                                                                                 |
|     | 54    | 300                                                                               | 1                                                                                 |
|     | 65    | 540                                                                               | 1                                                                                 |
|     | 74    | 750                                                                               | 1                                                                                 |
|     | 90    | 1150                                                                              | 1                                                                                 |

**Latthammer mit Magnet, „GS“-geprüft,  
Stahlrohr Stiel**

Carpenter's hammer, with magnet for nails

Marteau de carpentiers, avec porte-clous magnétique

Martillo carpintero, magnetizado para sujetar las puntas



| No. | Größe |  |  |
|-----|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 546 |       | 800                                                                                 | 1                                                                                   |

**Gummi Hämmer mit weißen Gummiköpfen**

DIN 5128

Rubber Hammers / Marteau caoutchouc / Martillo de goma



| No. | Größe |  |  |
|-----|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 547 | 54    | 300                                                                                 | 1                                                                                   |
|     | 65    | 540                                                                                 | 1                                                                                   |
|     | 74    | 750                                                                                 | 1                                                                                   |

**Gipsbeil mit Stahlrohrstiel**

Gypsum hatchet / Hache de plâtre / Hacha de yeso



| No. | Größe |  |  |
|-----|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 548 | 700   | 800                                                                                 | 5                                                                                   |

**Klauenhammer mit Stahlrohrstiel**

Clawhammer / Marteau de griffes / Martillo de garras



| No. | Größe |  |  |
|-----|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 549 | 450   | 600                                                                                   | 5                                                                                     |

**Maurerhammer Berliner Form mit Stahlrohrstiel**

Mason hammer / Marteau de maçon / Martillo de cilbañil



| No. | Größe |  |  |
|-----|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 550 | 750   | 900                                                                                   | 5                                                                                     |

### Fliesenlegerhammer flach oder spitz mit Hartmetallschneide

Tiler's hammer, flat or pointed,  
Marteau pour carreaux, plat ou pointu  
Martillo para baldosas, plano o puntiagudo



| No.   | Größe |  |  |
|-------|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 551 F | 50    | 70                                                                                | 5                                                                                 |
| 551 F | 75    | 105                                                                               | 5                                                                                 |
| 551 S | 50    | 70                                                                                | 5                                                                                 |
| 551 S | 75    | 105                                                                               | 5                                                                                 |

### Schreinerhammer französische Form

Machinist's Hammer / Marteau de menuiser  
Martillo de carpintero



| No. | Größe |  |  |
|-----|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 552 | 22    | 350                                                                                 | 5                                                                                   |
|     | 25    | 460                                                                                 | 5                                                                                   |
|     | 28    | 625                                                                                 | 5                                                                                   |

### Leichtmetallhammer

Light metal hammer / Marteau de métal léger  
Martillo de metal ligero

DIN 6491



| No. | Größe |  |  |
|-----|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 553 | 250   | 370                                                                                 | 5                                                                                   |
|     | 350   | 470                                                                                 | 5                                                                                   |
|     | 500   | 660                                                                                 | 5                                                                                   |
|     | 750   | 920                                                                                 | 5                                                                                   |

### Kupferhammer aus E-Cu, HB +- 15 mit Eschestiel

Copperhammer / Marteau de cuivre / Martillo de cobre



| No. | Größe |  |  |
|-----|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 555 | 250   | 340                                                                                 | 1                                                                                   |
|     | 300   | 390                                                                                 | 1                                                                                   |
|     | 500   | 620                                                                                 | 1                                                                                   |
|     | 750   | 910                                                                                 | 1                                                                                   |
|     | 1000  | 1220                                                                                | 1                                                                                   |
|     | 1500  | 1740                                                                                | 1                                                                                   |

### Beil

Hatch / Hache / Hacha



| No. | Größe |  |  |
|-----|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 556 | 600   | 800                                                                                   | 6                                                                                     |

### Holzaxt

Feeling AXES / Hache de bois / Hacha de madera



| No. | Größe |  |  |
|-----|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 557 | 1250  | 1700                                                                                  | 6                                                                                     |

### Holzspalthammer

Splitting / Hache de bois / Hacha de madera



| No. | Größe |  |  |
|-----|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 558 | 3000  | 3600                                                                                  | 1                                                                                     |

### Spaltkeil

Splitting wedge / Coin pour fendre / Cuna para partir



| No. | Länge |  |  |
|-----|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 559 | 240   | 2000                                                                                  | 1                                                                                     |



**SCHRAUBZWINGEN**  
CLAMPS

**08**



## Sicherheits-Zwingen mit Hohlprofil Safety clamps hollow rail

### Industriezwinge nach DIN 5117

- verzinkte Hohlprofilschiene
- beidseitig geriffelt
- Werkzeug, VPA/GS-geprüft
- Spannarme aus hochwertigem Temperguß
- Schiebeteil mit Sicherungskeil (geriffelt)
- brünierte Trapezgewindespindel
- ergonomisches Holzheft
- Gußteile schwarz lackiert
- bewegliche Stahldruckplatte
- Plastik-Schutzkappen
- alle Zwingen sind auch mit Knebelgriff lieferbar
- Zwischengrößen auf Anfrage



### Industrial clamp according to DIN 5117

- zinc plated hollow rail
- both edges grooved
- tool, VPA/GS-approved
- arms made of high quality malleable cast iron
- sliding part with protection wedge (grooved)
- trapez type thread, black finished metal with a protection surface
- ergonomically wooden handle
- cast iron parts black lacquered
- swivel plastic pressure plate
- plastic protection pads
- all clamps can be supplied with cross-pin handle
- Other sizes available

| No.         | Abmessung<br>measurements | Schiene L x B<br>size in bar |  |  |
|-------------|---------------------------|------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 20115.080.0 | 150 x 80                  | 25 x 6                       | 650                                                                                 | 10                                                                                  |
| 20115.081.0 | 200 x 80                  | 25 x 6                       | 750                                                                                 | 10                                                                                  |
| 20115.082.0 | 250 x 80                  | 25 x 6                       | 800                                                                                 | 10                                                                                  |
| 20115.083.0 | 300 x 80                  | 25 x 6                       | 850                                                                                 | 10                                                                                  |
| 20115.084.0 | 400 x 80                  | 25 x 6                       | 950                                                                                 | 10                                                                                  |
| 20115.085.0 | 500 x 80                  | 25 x 6                       | 1050                                                                                | 10                                                                                  |
| 20115.100.0 | 200 x 100                 | 30 x 8                       | 1090                                                                                | 10                                                                                  |
| 20115.101.0 | 250 x 100                 | 30 x 8                       | 1180                                                                                | 10                                                                                  |
| 20115.102.0 | 300 x 100                 | 30 x 8                       | 1230                                                                                | 10                                                                                  |
| 20115.104.0 | 400 x 100                 | 30 x 8                       | 1370                                                                                | 10                                                                                  |
| 20115.105.0 | 500 x 100                 | 30 x 8                       | 1520                                                                                | 10                                                                                  |
| 20115.120.0 | 250 x 120                 | 30 x 8                       | 1480                                                                                | 10                                                                                  |
| 20115.121.0 | 300 x 120                 | 30 x 8                       | 1540                                                                                | 10                                                                                  |
| 20115.123.0 | 400 x 120                 | 30 x 8                       | 1720                                                                                | 10                                                                                  |
| 20115.125.0 | 500 x 120                 | 30 x 8                       | 1900                                                                                | 10                                                                                  |
| 20115.126.0 | 600 x 120                 | 30 x 8                       | 2100                                                                                | 10                                                                                  |
| 20115.129.0 | 800 x 120                 | 30 x 8                       | 2460                                                                                | 6                                                                                   |
| 20115.131.0 | 1000 x 120                | 30 x 8                       | 2820                                                                                | 6                                                                                   |
| 20115.133.0 | 1250 x 120                | 30 x 8                       | 3070                                                                                | 5                                                                                   |
| 20115.134.0 | 1500 x 120                | 30 x 8                       | 3470                                                                                | 5                                                                                   |
| 20115.136.0 | 2000 x 120                | 30 x 8                       | 4500                                                                                | 5                                                                                   |
| 20115.140.0 | 300 x 140                 | 35 x 9                       | 2100                                                                                | 6                                                                                   |
| 20115.141.0 | 400 x 140                 | 35 x 9                       | 2400                                                                                | 6                                                                                   |
| 20115.142.0 | 500 x 140                 | 35 x 9                       | 2630                                                                                | 6                                                                                   |
| 20115.143.0 | 600 x 140                 | 35 x 9                       | 2990                                                                                | 6                                                                                   |
| 20115.144.0 | 800 x 140                 | 35 x 9                       | 3310                                                                                | 5                                                                                   |
| 20115.145.0 | 1000 x 140                | 35 x 9                       | 3790                                                                                | 5                                                                                   |
| 20115.170.0 | 400 x 175                 | 35 x 9                       | 2590                                                                                | 6                                                                                   |
| 20115.171.0 | 500 x 175                 | 35 x 9                       | 2890                                                                                | 6                                                                                   |
| 20115.172.0 | 600 x 175                 | 35 x 9                       | 3140                                                                                | 6                                                                                   |
| 20115.173.0 | 800 x 175                 | 35 x 9                       | 3600                                                                                | 5                                                                                   |
| 20115.174.0 | 1000 x 175                | 35 x 9                       | 4100                                                                                | 5                                                                                   |
| 20115.220.0 | 500 x 120                 | 35 x 11                      | 3030                                                                                | 6                                                                                   |
| 20115.221.0 | 600 x 120                 | 35 x 11                      | 3220                                                                                | 6                                                                                   |
| 20115.223.0 | 800 x 120                 | 35 x 11                      | 3750                                                                                | 6                                                                                   |
| 20115.224.0 | 1000 x 120                | 35 x 11                      | 4400                                                                                | 6                                                                                   |
| 20115.226.0 | 1250 x 120                | 35 x 11                      | 5140                                                                                | 5                                                                                   |
| 20115.227.0 | 1500 x 120                | 35 x 11                      | 5830                                                                                | 5                                                                                   |
| 20115.229.0 | 2000 x 120                | 35 x 11                      | 7170                                                                                | 5                                                                                   |
| 20115.230.0 | 2500 x 120                | 35 x 11                      | 8510                                                                                | 5                                                                                   |
| 20115.231.0 | 3000 x 120                | 35 x 11                      | 9940                                                                                | 5                                                                                   |

## Tiefenspannzwinde

nach DIN 5117

- Werkzeug, VPA/GS-geprüft
- Spannarme aus hochwertigem Temperguß
- verzinkte Hohlprofilschiene
- verzinkte Trapezgewindespindel
- ergonomisches Holzheft
- Gußteile schwarz lackiert
- bewegliche Stahlruckplatte
- alle Größen sind auch mit Knebelgriff lieferbar
- Tiefspannzwinge mit verlängerter Schiene ab 1000 mm lieferbar

| No.         | Abmessung<br>measurements | Schiene L x B<br>size in bar |  |  |
|-------------|---------------------------|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 20120.111.0 | 300 x 200                 | 35 x 11                      | 3100                                                                              | 1                                                                                 |
| 20120.121.0 | 400 x 200                 | 35 x 11                      | 3400                                                                              | 1                                                                                 |
| 20120.131.0 | 500 x 200                 | 35 x 11                      | 3700                                                                              | 1                                                                                 |
| 20120.141.0 | 600 x 200                 | 35 x 11                      | 4000                                                                              | 1                                                                                 |
| 20120.151.0 | 800 x 200                 | 35 x 11                      | 4600                                                                              | 1                                                                                 |
| 20120.161.0 | 1000 x 200                | 35 x 11                      | 5200                                                                              | 1                                                                                 |

## Quick action clamps with extra long arms

according to DIN 5117

- tool VPA/GS-approved
- arms made of high quality malleable cast iron
- zinc coated hollow rail
- trapez type thread, black finished metal with a protection surface
- ergonomically wooden handle
- cast iron parts black lacquered
- swivel plastic pressure plate
- all sizes can be supplied with cross-pin handle
- quick action clamps with longer bar available from 1000 mm upwards



## Standard-Schraubzwinge

- Temperguß Spannarme schwarz lackiert, mit Zeichen "Germany"
- verzinkte Hohlprofilschiene
- Stahlspindel mit Trapezgewinde
- Holzheft rot lackiert mit schwarzer, geriffelter Kunststoffkappe
- rote Schutzkappen
- nach DIN 5117
- Sonderabmessungen für u.g. Ausladungen auf Anfrage

| No.         | Abmessung<br>measurements | Schiene L x B<br>size in bar |  |  |
|-------------|---------------------------|------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 20108.080.0 | 150 x 80                  | 25 x 6                       | 650                                                                                 | 10                                                                                  |
| 20108.081.0 | 200 x 80                  | 25 x 6                       | 750                                                                                 | 10                                                                                  |
| 20108.082.0 | 250 x 80                  | 25 x 6                       | 800                                                                                 | 10                                                                                  |
| 20108.083.0 | 300 x 80                  | 25 x 6                       | 850                                                                                 | 10                                                                                  |
| 20108.084.0 | 400 x 80                  | 25 x 6                       | 950                                                                                 | 10                                                                                  |
| 20108.085.0 | 500 x 80                  | 25 x 6                       | 1050                                                                                | 10                                                                                  |
| 20108.086.0 | 600 x 80                  | 25 x 6                       | 1150                                                                                | 10                                                                                  |
| 20108.100.0 | 200 x 100                 | 25 x 6                       | 1090                                                                                | 10                                                                                  |
| 20108.101.0 | 250 x 100                 | 25 x 6                       | 1180                                                                                | 10                                                                                  |
| 20108.102.0 | 300 x 100                 | 25 x 6                       | 1230                                                                                | 10                                                                                  |
| 20108.104.0 | 400 x 100                 | 25 x 6                       | 1370                                                                                | 10                                                                                  |
| 20108.105.0 | 500 x 100                 | 25 x 6                       | 1520                                                                                | 10                                                                                  |
| 20108.106.0 | 600 x 100                 | 25 x 6                       | 1660                                                                                | 10                                                                                  |
| 20108.107.0 | 800 x 100                 | 25 x 6                       | 1940                                                                                | 10                                                                                  |
| 20108.120.0 | 250 x 120                 | 30 x 8                       | 1480                                                                                | 10                                                                                  |
| 20108.121.0 | 300 x 120                 | 30 x 8                       | 1540                                                                                | 10                                                                                  |
| 20108.123.0 | 400 x 120                 | 30 x 8                       | 1720                                                                                | 10                                                                                  |
| 20108.125.0 | 500 x 120                 | 30 x 8                       | 1900                                                                                | 10                                                                                  |
| 20108.126.0 | 600 x 120                 | 30 x 8                       | 2100                                                                                | 10                                                                                  |
| 20108.129.0 | 800 x 120                 | 30 x 8                       | 2460                                                                                | 6                                                                                   |
| 20108.131.0 | 1000 x 120                | 30 x 8                       | 2820                                                                                | 6                                                                                   |
| 20108.132.0 | 1250 x 120                | 30 x 8                       | 2990                                                                                | 6                                                                                   |
| 20108.134.0 | 1500 x 120                | 30 x 8                       | 3470                                                                                | 6                                                                                   |
| 20108.136.0 | 2000 x 120                | 30 x 8                       | 4500                                                                                | 6                                                                                   |

## Standard clamps

- black lacquered malleable cast iron arms with "Germany" mark
- zinc plated profiled hollow bar
- steel spindle with trapezoidal thread
- red lacquered wooden handle with black, grooved plastic clamp
- wooden handle with imprint
- red protection caps
- in accordance with DIN 5117



## Ganzstahlzwinge

### Hochbelastbare Industrierausführung

- Gleitschiene und Festbügel aus blankgezoogenem, vergütetem Hohlprofilstahl, vernickelt
- Schiebeteil im Gesenk geschmiedet, vergütet und vernickelt
- Spindel mit Trapezgewinde brüniert
- geriffeltes Holzheft
- bewegliche Stahldruckplatte



## All steel clamps

### Heavy duty industrial execution

- bar and fixed arm made of bright drawn profiled hollow steel, heat treated and nickel-plated
- sliding part forged in one piece, nickel-plated
- spindle with trapezoidal thread black finished metal with protecting surface
- grooved wooden handle
- swivel plastic pressure plate

| No.         | Abmessung<br>measurements | Schiene L x B<br>size in bar | <br>g |  |
|-------------|---------------------------|------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 20300.060.0 | 120 x 60                  | 13,2 x 6,5                   | 300                                                                                      | 10                                                                                  |
| 20300.080.0 | 160 x 80                  | 16 x 7,5                     | 500                                                                                      | 10                                                                                  |
| 20300.100.0 | 200 x 100                 | 19,5 x 9,5                   | 920                                                                                      | 10                                                                                  |
| 20300.120.0 | 250 x 120                 | 22 x 10,5                    | 1300                                                                                     | 10                                                                                  |
| 20300.140.0 | 300 x 140                 | 25 x 12                      | 1900                                                                                     | 10                                                                                  |
| 20300.219.0 | 400 x 120                 | 25 x 12                      | 2000                                                                                     | 10                                                                                  |
| 20300.220.0 | 500 x 120                 | 25 x 12                      | 2200                                                                                     | 6                                                                                   |
| 20300.221.0 | 600 x 120                 | 25 x 12                      | 2400                                                                                     | 6                                                                                   |
| 20300.223.0 | 800 x 120                 | 27 x 13                      | 3300                                                                                     | 6                                                                                   |
| 20300.224.0 | 1000 x 120                | 27 x 13                      | 3800                                                                                     | 6                                                                                   |
| 20300.225.0 | 1250 x 120                | 27 x 13                      | 4000                                                                                     | 1                                                                                   |
| 20300.226.0 | 1500 x 120                | 27 x 13                      | 5500                                                                                     | 1                                                                                   |







**BLECHSCHEREN**  
TIN SNIPS

**09**



## Mit uns schneiden Sie besser ab!

Mit geringem Kraftaufwand harte und weiche Materialien zu schneiden, hierfür steht die Marke padre<sup>®</sup>. Alle Produkte zeichnen sich durch ihre grundsolide Verarbeitung und ihre hohe Qualität aus.

Kraftersparnis und gelenkschonendes Arbeiten sind das Ergebnis unserer Produktion.

Zu Ihrem Vorteil - **MADE IN GERMANY!**

## With us you cut much better!

To cut hard and soft materials with a small effort, this is the order of the brand padre<sup>®</sup>. All products are known of a serious craftsmen manufacturer with a high level of quality.

A less effort of strength and supple working are the results of our production. This for your advantages - **“MADE IN GERMANY!”**



S = Schnittlänge , W = Öffnungsweite der Schenkel

**Idealhebelschere**

Ideal-Snip

Pince articulée modèle Ideal

Tijera de Palanca Modelo Ideal

**rechtsschneidend**

right cutting / coupe côté droit / la derecha cortical

| No.    | Länge | Zoll   | S  | W   |  |  |
|--------|-------|--------|----|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 210500 | 260   | 10.1/2 | 35 | 140 | 380                                                                               | 5                                                                                 |

**linksschneidend**

left cutting / coupe côté gauche / la izquierda cortical

| No.    | Länge | Zoll   | S  | W   |  |  |
|--------|-------|--------|----|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 210600 | 260   | 10.1/2 | 35 | 140 | 380                                                                               | 5                                                                                 |

**Durchlaufhebelschere**

Passing Sheet Snip

Pince pour tôle passante

Tijera de Palanca para

**rechtsschneidend**

right cutting / coupe côté droit / la derecha cortical

| No.    | Länge | Zoll   | S  | W   |  |  |
|--------|-------|--------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 211500 | 260   | 10.1/2 | 35 | 140 | 380                                                                                 | 5                                                                                   |

**linksschneidend**

left cutting / coupe côté gauche / la izquierda cortical

| No.    | Länge | Zoll   | S  | W   |  |  |
|--------|-------|--------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 211600 | 260   | 10.1/2 | 35 | 140 | 380                                                                                 | 5                                                                                   |

**Figuren-Hebelschere**

Figure Snip

Pince articulée pour figures

Tijera de Palanca Figuras

**rechtsschneidend**

right cutting / coupe côté droit / la derecha cortical

| No.    | Länge | Zoll   | S  | W   |  |  |
|--------|-------|--------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 212500 | 260   | 10.1/2 | 32 | 140 | 360                                                                                 | 5                                                                                   |

**linksschneidend**

left cutting / coupe côté gauche / la izquierda cortical

| No.    | Länge | Zoll   | S  | W   |  |  |
|--------|-------|--------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 212600 | 260   | 10.1/2 | 32 | 140 | 360                                                                                 | 5                                                                                   |

**Figuren-Hebelschere mit 2-K-Griffhüllen, leichtes Modell**

Figure Snip with 2-Componentes handle, light model

Pince articulée pour figures avec du manche en 2-composante, modèle léger / Tijera de Palanca figurars

**linksschneidend**

left cutting / coupe côté gauche / la izquierda cortical

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 212700 | 250   | 10   | 38 | 135 | 390                                                                                 | 5                                                                                   |

**Figuren-Hebelschere mit 2-K-Griffhüllen, leichtes Modell**

Figure Snip with 2-Componentes handle, light model

Pince articulée pour figures avec du manche en 2-composante, modèle léger / Tijera de Palanca figurars

**rechtsschneidend**

right cutting / coupe côté droit / la derecha cortical

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 212750 | 250   | 10   | 38 | 130 | 390                                                                                   | 5                                                                                     |

**Figuren-Hebelschere mit 2-K-Griffhüllen, leichtes Modell**

Figure Snip with 2-Componentes handle, light model

Pince articulée pour figures avec du manche en 2-composante, modèle léger / Tijera de Palanca figurars

**gerade**

straight / droit / rest cortical

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 212800 | 250   | 10   | 44 | 135 | 390                                                                                   | 5                                                                                     |

### Figuren-Hebelschere mit 2-K-Griffhüllen, leichtes Modell

Figure Snip with 2-Componentes handle, light model  
Pince articulée pour figures avec du manche ene 2-compo-  
sante, modèle léger / Tijera de Palanca figurars



gerade, extra lange Schneide  
straight / droit / rest cortical

| No.    | Länge | Zoll | S  | W   |     |   |
|--------|-------|------|----|-----|-----|---|
| 212850 | 290   | 10   | 77 | 120 | 460 | 5 |
|        |       |      |    |     |     |   |

### Idealhebelschere

Ideal-Snip  
Pince articulée modèle Ideal  
Tijera de Palanca Modelo Ideal



rechtsschneidend  
right cutting / coupe côté droit / la derecha cortical

| No.    | Länge | Zoll   | S  | W   |     |   |
|--------|-------|--------|----|-----|-----|---|
| 212760 | 250   | 10.1/2 | 35 | 140 | 380 | 5 |

linksschneidend  
left cutting / coupe côté gauche / la izquierda cortical

| No.    | Länge | Zoll   | S  | W   |     |   |
|--------|-------|--------|----|-----|-----|---|
| 212770 | 250   | 10.1/2 | 35 | 140 | 380 | 5 |

### Idealschere

Ideal-Snip  
Pince articulée modèle Ideal  
Tijera hojalatero de recorte



rechtsschneidend  
right cutting / coupe côté droit / la derecha cortical

| No.    | Länge | Zoll   | S  | W   |     |   |
|--------|-------|--------|----|-----|-----|---|
| 210000 | 260   | 10.1/2 | 36 | 135 | 450 | 5 |
|        | 280   | 11     | 38 | 140 | 560 | 5 |



mit Feder  
with spring / avec ressort / con Muelle

| No.    | Länge | Zoll   | S  | W   |     |   |
|--------|-------|--------|----|-----|-----|---|
| 210010 | 260   | 10.1/2 | 36 | 135 | 450 | 5 |
|        | 280   | 11     | 38 | 140 | 560 | 5 |



linksschneidend  
left cutting / coupe côté gauche / la izquierda cortical

| No.    | Länge | Zoll   | S  | W   |     |   |
|--------|-------|--------|----|-----|-----|---|
| 210100 | 260   | 10.1/2 | 36 | 135 | 450 | 5 |
|        | 280   | 11     | 38 | 140 | 560 | 5 |



mit Feder  
with spring / avec ressort / con Muelle

| No.    | Länge | Zoll   | S  | W   |     |   |
|--------|-------|--------|----|-----|-----|---|
| 210110 | 260   | 10.1/2 | 36 | 135 | 450 | 5 |
|        | 280   | 11     | 38 | 140 | 560 | 5 |

### Pelikan-Durchlauf-Schere

Pelican-Passing-Sheet-Snip / Pince pour tôle passante modèle  
Pelikan / Tijera hojalatero de Pelikan



rechtsschneidend  
right cutting / coupe côté droit / la derecha cortical

| No.    | Länge | Zoll | S  | W   |     |   |
|--------|-------|------|----|-----|-----|---|
| 211000 | 300   | 12   | 55 | 115 | 950 | 5 |



mit Feder  
with spring / avec ressort / con Muelle

| No.    | Länge | Zoll | S  | W   |     |   |
|--------|-------|------|----|-----|-----|---|
| 211010 | 300   | 12   | 55 | 115 | 950 | 5 |

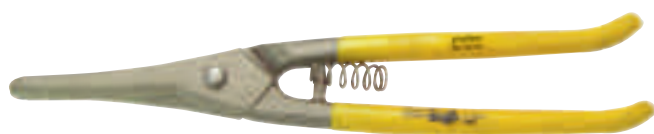
**Universal-Blechscher**

Universal-Snip  
Pince universelle  
Tijera hojalatero universal

**rechtsschneidend**

right cutting / coupe côté droit / la derecha cortical

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 212000 | 250   | 10   | 70 | 160 | 450                                                                               | 5                                                                                 |

**mit Feder**

with spring / avec ressort / con Muelle

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 212010 | 250   | 10   | 70 | 160 | 450                                                                                 | 5                                                                                   |

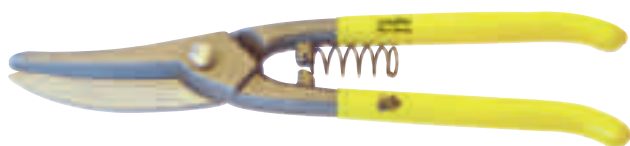
**Universal-Blechscher**

Universal-Snip  
Pince universelle  
Tijera hojalatero universal

**rechtsschneidend**

right cutting / coupe côté droit / la derecha cortical

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 212100 | 250   | 10   | 70 | 180 | 450                                                                                 | 5                                                                                   |

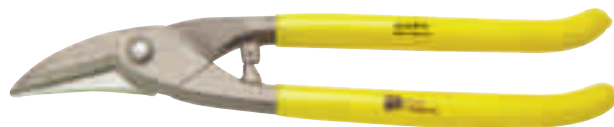
**mit Feder**

with spring / avec ressort / con Muelle

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 212110 | 250   | 10   | 70 | 160 | 450                                                                                 | 5                                                                                   |

**Lochscher**

Hole-Cutting-Sheer  
Pince à perforer  
Tijera hojalatero de recorte

**rechtsschneidend**

right cutting / coupe côté droit / la derecha cortical

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 213000 | 250   | 10   | 42 | 150 | 450                                                                                 | 5                                                                                   |
|        | 275   | 11   | 44 | 165 | 470                                                                                 | 5                                                                                   |
|        | 300   | 12   | 50 | 170 | 700                                                                                 | 5                                                                                   |

**mit Feder**

with spring / avec ressort / con Muelle

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 213010 | 250   | 10   | 42 | 150 | 450                                                                                   | 5                                                                                     |
|        | 275   | 11   | 44 | 165 | 470                                                                                   | 5                                                                                     |
|        | 300   | 12   | 50 | 170 | 700                                                                                   | 5                                                                                     |

**linksschneidend**

left cutting / coupe côté gauche / la izquierda cortical

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 213200 | 250   | 10   | 42 | 150 | 450                                                                                   | 5                                                                                     |
|        | 275   | 11   | 44 | 165 | 470                                                                                   | 5                                                                                     |
|        | 300   | 12   | 50 | 170 | 700                                                                                   | 5                                                                                     |

**mit Feder**

with spring / avec ressort / con Muelle

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 213210 | 250   | 10   | 42 | 150 | 450                                                                                   | 5                                                                                     |
|        | 275   | 11   | 44 | 165 | 470                                                                                   | 5                                                                                     |
|        | 300   | 12   | 50 | 170 | 700                                                                                   | 5                                                                                     |



### Berliner Blechschere

Berlin Pattern Snip  
Pince modèle Berlin  
Tijera hojalatero de Berlin



**rechtsschneidend**

right cutting / coupe côté droit / la derecha cortal

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 214000 | 250   | 10   | 65 | 130 | 550                                                                               | 5                                                                                 |

### Bandeisen-Schere

Band Iron Snip  
Pince à perforer  
Ciseaux pour fil de fer



**rechtsschneidend**

right cutting / coupe côté droit / la derecha cortal

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 215000 | 250   | 10   | 35 | 150 | 350                                                                                 | 5                                                                                   |

### Berliner Blechschere

Berlin Pattern Snip  
Pince modèle Berlin  
Tijera hojalatero de Berlin



**mit Feder**

with spring / avec ressort / con Muelle

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 214010 | 250   | 10   | 65 | 130 | 550                                                                                 | 5                                                                                   |

### Blech-Knabber

Sheet Metal Nibbler  
Pince "grignoteuse" de tôles  
Tijera hojalatero de recorte



**rechtsschneidend**

right cutting / coupe côté droit / la derecha cortal

| No.    | Länge | Zoll | S | W |  |  |
|--------|-------|------|---|---|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 212900 | 250   | 10   |   |   | 450                                                                                   | 1                                                                                     |

### Ersatzteile-Set

(Messer, Backen, Federn, Schrauben)

spares set (knives, jaws, springs, screws)

set de pièces de rechanges (couteaux, têtes de pince, ressorts, vis)

| No.    | Länge | Zoll | S | W |  |  |
|--------|-------|------|---|---|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 212910 |       |      |   |   |                                                                                       | 5                                                                                     |





**Aufgelötete HSS-Schneidplatten (HRC 65-67)**  
für V2A/V4A bzw. Nirosta-Bleche bis 1,2 mm  
Braze carbide trimming edges (Hardness HRC 65-67) for  
V2A/V4A or Nirosta sheet up to 1.2 mm thick  
Tranchants avec acier rapide (HRC 65-67) pour acier V2A/V4A  
ou bien anti-rouille jusqu'à 1,2 mm

### Idealhebelschere

Ideal-Snip  
Pince articulée modèle Ideal  
Tijera hojalatero de recorte



**rechtsschneidend**  
right cutting / coupe côté droit / la derecha cortical

| No.    | Länge | Zoll   | S  | W   |  |  |
|--------|-------|--------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 210515 | 260   | 10.1/2 | 35 | 140 | 380                                                                                 | 1                                                                                   |

**linksschneidend**  
left cutting / coupe côté gauche / la izquierda cortical

| No.    | Länge | Zoll   | S  | W   |  |  |
|--------|-------|--------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 210615 | 260   | 10.1/2 | 35 | 140 | 380                                                                                 | 1                                                                                   |

### Figuren-Hebelschere

Figure Snip  
Pince articulée pour figures  
Tijera de Palanca Figuras



**rechtsschneidend**  
right cutting / coupe côté droit / la derecha cortical

| No.    | Länge | Zoll   | S  | W   |  |  |
|--------|-------|--------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 212515 | 260   | 10.1/2 | 32 | 140 | 360                                                                                 | 1                                                                                   |

**linksschneidend**  
left cutting / coupe côté gauche / la izquierda cortical

| No.    | Länge | Zoll   | S  | W   |  |  |
|--------|-------|--------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 212615 | 260   | 10.1/2 | 32 | 140 | 360                                                                                 | 1                                                                                   |

### Pelikan-Durchlauf-Schere

Pelican-Passing-Sheet-Snip  
Pince pour tôle passante modèle Pelikan  
Tijera hojalatero de Pelikan



**rechtsschneidend**  
right cutting / coupe côté droit / la derecha cortical

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 211015 | 300   | 12   | 55 | 115 | 950                                                                                 | 1                                                                                   |
|        | 350   | 14   | 65 | 180 | 1200                                                                                | 1                                                                                   |

### Lochschere

Hole-Cutting-Sheer  
Pince à perforer  
Tijera hojalatero de recorte



**rechtsschneidend**  
right cutting / coupe côté droit / la derecha cortical

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 213015 | 260   | 11   | 44 | 165 | 470                                                                                   | 1                                                                                     |
|        | 280   | 12   | 50 | 170 | 700                                                                                   | 1                                                                                     |
|        | 305   | 14   | 55 | 175 | 900                                                                                   | 1                                                                                     |

**linksschneidend**  
left cutting / coupe côté gauche / la izquierda cortical

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 213215 | 260   | 11   | 44 | 165 | 470                                                                                   | 1                                                                                     |
|        | 280   | 12   | 50 | 170 | 700                                                                                   | 1                                                                                     |
|        | 305   | 14   | 55 | 175 | 900                                                                                   | 1                                                                                     |

### Idealblechschere

Ideal-Tin-Snip  
Pince articulée modèle Ideal  
Tijera hojalatero de recorte



**rechtsschneidend**  
right cutting / coupe côté droit / la derecha cortical

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 210015 | 275   | 11   | 32 | 140 | 580                                                                                   | 1                                                                                     |

**linksschneidend**  
left cutting / coupe côté gauche / la izquierda cortical

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 210105 | 275   | 11   | 32 | 140 | 580                                                                                   | 1                                                                                     |

### Kabelschere für Al und Cu-Kabel

Cable cutter for AL and Cu Cable  
Coupe cables por AL et Cu Cable  
Corta cables electrico para AL y Cu Cable



| No.   | Länge | Schneidleistung |  |  |
|-------|-------|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 21441 | 300   | 13 mm           | 550                                                                               | 1                                                                                 |

### Kabelschere für Al und Cu-Kabel

Cable cutter for AL and Cu Cable  
Coupe cables por AL et Cu Cable  
Corta cables electrico para AL y Cu Cable



| No.   | Länge | Schneidleistung |  |  |
|-------|-------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 21449 | 770   | 40 mm           | 4200                                                                                | 1                                                                                   |

### Kabelschere für Al und Cu-Kabel

Cable cutter for AL and Cu Cable  
Coupe cables por AL et Cu Cable  
Corta cables electrico para AL y Cu Cable



| No.   | Länge | Schneidleistung |  |  |
|-------|-------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 21442 | 550   | 25 mm           | 1700                                                                                | 1                                                                                   |

### Kabelschere für Kupferdraht

Cable Snip for copper wire  
Pincas coupe-câble pour fil de cuivre



**Mit dieser Schere darf nicht an unter Spannung stehenden Kabellleitern gearbeitet werden**

With this snip it is not allow to work with cables which are under voltage / Avec ces coupe-câbles il est interdit de travailler aux câbles, qui sont sous tension

| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 214450 | 200   | 8    | 35 | 170 | 380                                                                                   | 5                                                                                     |

### Kabelschere für Al und Cu-Kabel

Cable cutter for AL and Cu Cable  
Coupe cables por AL et Cu Cable  
Corta cables electrico para AL y Cu Cable



| No.   | Länge | Schneidleistung |  |  |
|-------|-------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 21443 | 770   | 50 mm           | 300                                                                                 | 1                                                                                   |

### Kabelschere

Cable Snip  
Pincas coupe-câble r



**Mit dieser Schere darf nicht an unter Spannung stehenden Kabellleitern gearbeitet werden**

With this snip it is not allow to work with cables which are under voltage / Avec ces coupe-câbles il est interdit de travailler aux câbles, qui sont sous tension

| No.    | Länge | Zoll | S | W |  |  |
|--------|-------|------|---|---|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 214470 | 170   | 6,5  |   |   | 350                                                                                   | 5                                                                                     |

### Kabelschere für Al und Cu-Kabel

Cable cutter for AL and Cu Cable  
Coupe cables por AL et Cu Cable  
Corta cables electrico para AL y Cu Cable



| No.   | Länge | Schneidleistung |  |  |
|-------|-------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 21448 | 500   | 20 mm           | 1800                                                                                | 1                                                                                   |

**Universal-Combi Schere**

Universal Combi Snip  
Pincas Combi universelle  
Tijera universal



| No.    | Länge | Zoll  | S  | W   |  |  |
|--------|-------|-------|----|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 219350 | 140   | 5.3/4 | 32 | 85  | 50                                                                                | 5                                                                                 |
|        | 190   | 7.1/2 | 40 | 100 | 100                                                                               | 5                                                                                 |

**Obstschere**

Bypass Pruner  
Ciseau de fruits  
Tijera frutera



| No.    | Länge | Zoll | Schneidleistung |  |  |
|--------|-------|------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 219300 | 205   | 8    | 19 mm           | 232                                                                                 | 10                                                                                  |

**Blumenschere**

Flower Pruner  
Ciseau de fleurs  
Tijera floral



| No.    | Länge | Zoll  | Schneidleistung |  |  |
|--------|-------|-------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 219310 | 215   | 8.1/2 | 16 mm           | 230                                                                                 | 10                                                                                  |

**Rosenschere**

Trimmer  
Ciseau de roses  
Tijera para rosas



| No.    | Länge | Zoll | Schneidleistung |  |  |
|--------|-------|------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 219320 | 230   | 9    | 50 mm           | 204                                                                                 | 10                                                                                  |

**Astschere**

Anvil Cutter  
Ciseau de branche  
Tijera para ramas



| No.    | Länge | Zoll  | Schneidleistung |  |  |
|--------|-------|-------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 219330 | 200   | 7 7/8 | 16 mm           | 230                                                                                 | 10                                                                                  |

**Drahtschere für harten Draht bis ca. 3 mm Ø und weichen Draht bis 5 mm**

Wire Snip for hardened steel wire to ca. 3 mm Ø and soft wire to ca. 5 mm / Pince coupantes pour fils durs jusqu'à environ 3 mm Ø / Tijera corta alambre



| No.    | Länge | Zoll  | S  | W   |  |  |
|--------|-------|-------|----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 214600 | 240   | 9.1/2 | 13 | 120 | 480                                                                                   | 6                                                                                     |

**Schere englische Form, mit verdeckter Feder und Plastikverschluss**

Snip english Pattern, with long spring and plastic strap  
Pincas Forme anglaise, modèles d'exportation, avec long ressort et fermeture en plastique / Tijera Tipo ingles, modelo para la exportacion con muelle cubierto tornillo



| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 216900 | 200   | 8    | 56 | 120 | 270                                                                                   | 6                                                                                     |
|        | 250   | 10   | 70 | 195 | 380                                                                                   | 6                                                                                     |
|        | 300   | 12   | 75 | 200 | 560                                                                                   | 6                                                                                     |

**Schere englische Form Gilbow**

Snip english Gilbow Pattern, with long spring  
Pincas anglaise "Gilbow", modèles d'exportation  
Tijera Tipo ingles, Gilbow



| No.    | Länge | Zoll | S  | W   |  |  |
|--------|-------|------|----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 216960 | 200   | 8    | 50 | 150 | 200                                                                                   | 6                                                                                     |
|        | 250   | 10   | 60 | 165 | 400                                                                                   | 6                                                                                     |
|        | 300   | 12   | 75 | 255 | 600                                                                                   | 6                                                                                     |
|        | 350   | 14   | 80 | 285 | 850                                                                                   | 6                                                                                     |



### Schere amerikanische Form, PVC getaucht

Snip american Pattern with PVC

Pinces Forme américaine, modèles d'exportation, avec PVC

Tijera Tipo americano con PVC



| No.    | Länge | Zoll | S  | W   |     |   |
|--------|-------|------|----|-----|-----|---|
| 218006 | 175   | 7    | 40 | 80  | 210 | 6 |
|        | 200   | 8    | 45 | 120 | 240 | 6 |
|        | 250   | 10   | 65 | 170 | 440 | 6 |
|        | 300   | 12   | 80 | 175 | 660 | 6 |
|        | 350   | 14   | 90 | 180 | 800 | 6 |

### Goldschmiede-Schere, halbblank, mit Schraube, schwarz lackierte Schenkel

Jeweller Snip, semi-polishes, with screw, black-painted handles

Pince de joaillier, teinte semi-brillante, avec vis, branches laquées en noir / Tijera de orfebre



#### gerade Schneide

straight edges / lames droites / cuchillas rectas mangos cerrados

| No.    | Länge | Zoll | S  | W   |     |    |
|--------|-------|------|----|-----|-----|----|
| 219000 | 175   | 7    | 35 | 150 | 105 | 12 |

#### gebogene Schneide

bend edges, lames courbées, cuchillas acodada mangos cerrados

| No.    | Länge | Zoll | S  | W   |     |    |
|--------|-------|------|----|-----|-----|----|
| 219100 | 175   | 7    | 35 | 150 | 105 | 12 |

### Goldschmiede-Schere, halbblank, mit Schraube, mit PVC Schenkel

Jeweller Snip, semi-polishes, with screw, with PVC handles

Pince de joaillier, teinte semi-brillante, avec vis, branches avec PVC

Tijera de orfebre con PVC



#### gerade Schneide

straight edges / lames droites / cuchillas rectas mangos cerrados

| No.    | Länge | Zoll | S  | W   |     |    |
|--------|-------|------|----|-----|-----|----|
| 219001 | 175   | 7    | 35 | 150 | 105 | 12 |

#### gebogene Schneide

bend edges, lames courbées, cuchillas acodada mangos cerrados

| No.    | Länge | Zoll | S  | W   |     |    |
|--------|-------|------|----|-----|-----|----|
| 219101 | 175   | 7    | 35 | 150 | 105 | 12 |

### Goldschmiede-Schere, halbblank, mit Schraube, offene, schwarz lackierte Schenkel

Jeweller Snip, semi-polishes, with screw, open, black-painted handles

Pince de joaillier, teinte semi-brillante, avec vis, branches ouvertes, laquées en noir / Tijera de orfebre



#### gerade Schneide

straight edges / lames droites / cuchillas rectas mangos cerrados

| No.    | Länge | Zoll | S  | W   |     |    |
|--------|-------|------|----|-----|-----|----|
| 219050 | 175   | 7    | 32 | 145 | 105 | 12 |

#### gebogene Schneide

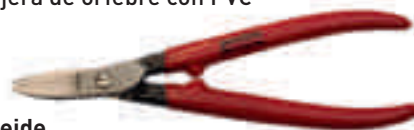
bend edges, lames courbées, cuchillas acodada mangos cerrados

| No.    | Länge | Zoll | S  | W   |     |    |
|--------|-------|------|----|-----|-----|----|
| 219060 | 175   | 7    | 32 | 145 | 105 | 12 |

### Goldschmiede-Schere, halbblank, mit Schraube, offen, mit PVC Schenkel

Jeweller Snip, semi-polishes, with screw, open, with PVC handles

Pince de joaillier, teinte semi-brillante, avec vis, branches ouvertes avec PVC / Tijera de orfebre con PVC



#### gerade Schneide

straight edges / lames droites / cuchillas rectas mangos cerrados

| No.    | Länge | Zoll | S  | W   |     |    |
|--------|-------|------|----|-----|-----|----|
| 219051 | 175   | 7    | 32 | 145 | 105 | 12 |

#### gebogene Schneide

bend edges, lames courbées, cuchillas acodada mangos cerrados

| No.    | Länge | Zoll | S  | W   |     |    |
|--------|-------|------|----|-----|-----|----|
| 219061 | 175   | 7    | 32 | 145 | 105 | 12 |

### Goldschmiede-Schere, halbblank, mit Schraube, schwarz lackiert, mit Augen

Jeweller Snip, semi-polishes, with screw, black-painted handles, with eyelets

Pince de joaillier, teinte semi-brillante, avec vis, branches laquées en noir avec yeux / Tijera de orfebre



#### gerade Schneide

straight edges / lames droites / cuchillas rectas mangos cerrados

| zzNo.  | Länge | Zoll | S  | W   |     |    |
|--------|-------|------|----|-----|-----|----|
| 219200 | 175   | 7    | 36 | 150 | 105 | 12 |

#### gebogene Schneide

bend edges, lames courbées, cuchillas acodada mangos cerrados

| No.    | Länge | Zoll | S  | W   |     |    |
|--------|-------|------|----|-----|-----|----|
| 219210 | 175   | 7    | 36 | 150 | 105 | 12 |

**Doppelschneiden-Gartenschere**

Two-edged Garden Snip  
Sécareur à doubles lames coupantes  
Tijera de poda



| No.    | Länge | Zoll |  | W   |  |  |
|--------|-------|------|--|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 221500 | 220   | 9    |  | 175 | 340                                                                               | 1                                                                                 |

**Glasbrech-Zange, schwere Ausführung**

Glass Pliers, heavy design  
Pince de vitrier, modèle lourd  
Tenaza Cortavidrio



| No.    | Länge | Zoll | Maulbreite | W   |  |  |
|--------|-------|------|------------|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 235630 | 200   | 8    | ca. 18     | 175 | 340                                                                               | 6                                                                                 |

**Falzzange**

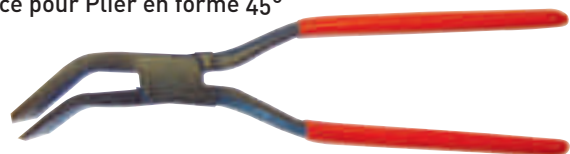
Fold plier / Pince pour Plier les toles



| No.    | Länge | Zoll | Maulbreite |  |  |  |
|--------|-------|------|------------|--|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 235650 | 280   | 11   | 65         |  | 610                                                                                 | 6                                                                                   |

**Falzzange, 45° gebogen**

fold plier, 45° bended  
Pince pour Plier en forme 45°



| No.    | Länge | Zoll | Maulbreite |  |  |  |
|--------|-------|------|------------|--|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 235651 | 275   | 11   | 60         |  | 540                                                                                 | 6                                                                                   |

**Gehrungsschere**

Multi Function Shear  
Ciseau onglet  
Tijera de ingelte



| No.    | Länge |  |  |  |  |  |
|--------|-------|--|--|--|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 219360 | 220   |  |  |  | 370                                                                                 | 5                                                                                   |

**PVC Rohr Schneider bis 30 mm**

PVC Pipe Cutter to 30 mm  
Apiéceur tuyau PVC, 30 mm  
Cortador para tubos PVC, 30 mm



| No.    | Länge |  |  |  |
|--------|-------|--|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 219370 | 230   |  | 370                                                                                 | 1                                                                                   |

**PVC Rohr Schneider bis 42 mm**

PVC Pipe Cutter to 42 mm  
Apiéceur tuyau PVC, 42 mm  
Cortador para tubos PVC, 42 mm



| No.    | Länge |  |  |  |
|--------|-------|--|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 219380 | 250   |  | 450                                                                                   | 1                                                                                     |

**PVC Rohr Schneider bis 63 mm**

PVC Pipe Cutter to 63 mm  
Apiéceur tuyau PVC, 63 mm  
Cortador para tubos PVC, 63 mm



| No.    | Länge |  |  |  |
|--------|-------|--|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 219390 | 290   |  | 500                                                                                   | 1                                                                                     |

[illegible]





**BOLZENSCHNEIDER**  
BOLT CUTTER

**10**

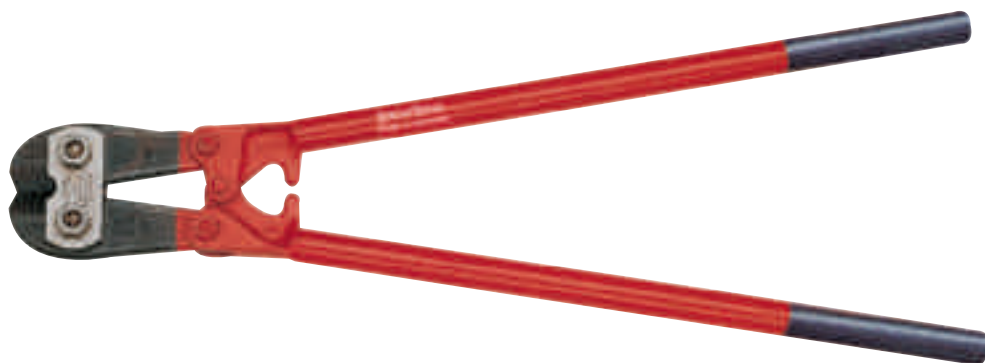


### Standardbolzenschneider Prima

Standard boltcutter  
Standard Coupe boulons  
Corta Varillas standard

### Ersatzoberteil

Spare head  
Tête a remplacer  
Cabeza repuesto



| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm   | Schneidleistung/cutting capacity |                   |                   |                                                |  |  |
|-------|-------------------------------------------------|------|----------------------------------|-------------------|-------------------|------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|       |                                                 |      | 735<br>75<br>19                  | 1225<br>125<br>36 | 1570<br>160<br>48 | Spezial-<br>draht/<br>special<br>steel<br>wire |                                                                                   |                                                                                   |
| 28310 | Prima                                           | 320  | 6                                | 5                 | -                 | -                                              | 850                                                                               | 1                                                                                 |
|       |                                                 | 460  | 7                                | 6                 | -                 | -                                              | 1400                                                                              | 1                                                                                 |
|       |                                                 | 610  | 9                                | 8                 | -                 | -                                              | 2500                                                                              | 1                                                                                 |
|       |                                                 | 760  | 11                               | 9                 | -                 | -                                              | 4300                                                                              | 1                                                                                 |
|       |                                                 | 910  | 13                               | 10                | -                 | -                                              | 6300                                                                              | 1                                                                                 |
|       |                                                 | 1060 | 15                               | 11                | -                 | -                                              | 8600                                                                              | 1                                                                                 |

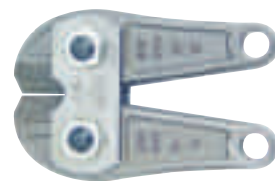
| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm   |  |  |
|-------|-------------------------------------------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 28311 | Prima                                           | 320  |                                                                                     | 1                                                                                   |
|       |                                                 | 460  |                                                                                     | 1                                                                                   |
|       |                                                 | 610  |                                                                                     | 1                                                                                   |
|       |                                                 | 760  |                                                                                     | 1                                                                                   |
|       |                                                 | 910  |                                                                                     | 1                                                                                   |
|       |                                                 | 1060 |                                                                                     | 1                                                                                   |

### Standardbolzenschneider Duro

Standard boltcutter  
Standard Coupe boulons  
Corta Varillas standard

### Ersatzoberteil

Spare head  
Tête a remplacer  
Cabeza repuesto



| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm   | Schneidleistung/cutting capacity |                   |                   |                                                |  |  |
|-------|-------------------------------------------------|------|----------------------------------|-------------------|-------------------|------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|       |                                                 |      | 735<br>75<br>19                  | 1225<br>125<br>36 | 1570<br>160<br>48 | Spezial-<br>draht/<br>special<br>steel<br>wire |                                                                                     |                                                                                     |
| 28313 | Duro                                            | 320  | 6                                | 5                 | 4                 | -                                              | 850                                                                                 | 1                                                                                   |
|       |                                                 | 460  | 7                                | 6                 | 5,5               | -                                              | 1400                                                                                | 1                                                                                   |
|       |                                                 | 610  | 9                                | 8                 | 7                 | -                                              | 2500                                                                                | 1                                                                                   |
|       |                                                 | 760  | 11                               | 9                 | 8                 | -                                              | 4300                                                                                | 1                                                                                   |
|       |                                                 | 910  | 13                               | 10                | 9                 | -                                              | 6300                                                                                | 1                                                                                   |
|       |                                                 | 1060 | 15                               | 11                | 10                | -                                              | 8600                                                                                | 1                                                                                   |

| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm   |  |  |
|-------|-------------------------------------------------|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 28314 | Duro                                            | 320  |                                                                                       | 1                                                                                     |
|       |                                                 | 460  |                                                                                       | 1                                                                                     |
|       |                                                 | 610  |                                                                                       | 1                                                                                     |
|       |                                                 | 760  |                                                                                       | 1                                                                                     |
|       |                                                 | 910  |                                                                                       | 1                                                                                     |
|       |                                                 | 1060 |                                                                                       | 1                                                                                     |

**Standardbolzenschneider Extra**

Standard boltcutter  
Standard Coupe boulons  
Corta Varillas standard

**Ersatzoberteil**

Spare head  
Tête a remplacer  
Cabeza repuesto



| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm   | Schneidleistung/cutting capacity |                   |                   |                                                |      |   |
|-------|-------------------------------------------------|------|----------------------------------|-------------------|-------------------|------------------------------------------------|------|---|
|       |                                                 |      | 735<br>75<br>19                  | 1225<br>125<br>36 | 1570<br>160<br>48 | Spezial-<br>draht/<br>special<br>steel<br>wire |      |   |
| 28316 | Extra                                           | 320  | 6                                | 5                 | 4                 | 3                                              | 850  | 1 |
|       |                                                 | 460  | 7                                | 6                 | 5,5               | 5                                              | 1400 | 1 |
|       |                                                 | 610  | 9                                | 8                 | 7                 | 6                                              | 2500 | 1 |
|       |                                                 | 760  | 11                               | 9                 | 8                 | 7                                              | 4300 | 1 |
|       |                                                 | 910  | 13                               | 10                | 9                 | 8                                              | 6300 | 1 |
|       |                                                 | 1060 | 15                               | 11                | 10r               | 9                                              | 8600 | 1 |

| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm   |  |   |
|-------|-------------------------------------------------|------|--|---|
|       |                                                 |      |  |   |
| 28317 | Extra                                           | 320  |  | 1 |
|       |                                                 | 460  |  | 1 |
|       |                                                 | 610  |  | 1 |
|       |                                                 | 760  |  | 1 |
|       |                                                 | 910  |  | 1 |
|       |                                                 | 1060 |  | 1 |

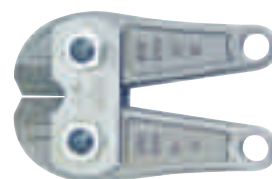
**Bolzenschneider**

Boltcutter  
Coupe boulons  
Corta Varillas

Preiswerte Alternative  
Cheaper alternative  
Alternative favorable  
Alternativa barata

**Ersatzoberteil**

Spare head  
Tête a remplacer  
Cabeza repuesto

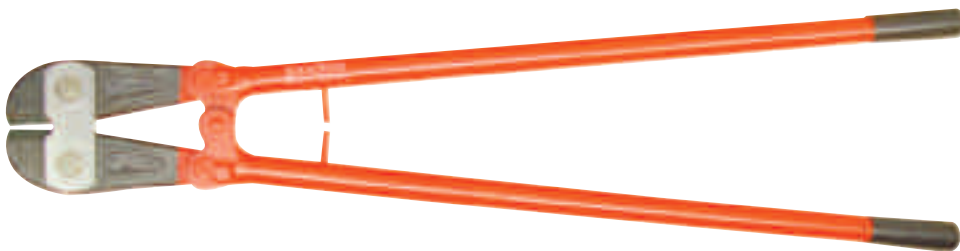


| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm  | Schneidleistung/cutting capacity |                   |                   |                                                |      |   |
|-------|-------------------------------------------------|-----|----------------------------------|-------------------|-------------------|------------------------------------------------|------|---|
|       |                                                 |     | 735<br>75<br>19                  | 1225<br>125<br>36 | 1570<br>160<br>48 | Spezial-<br>draht/<br>special<br>steel<br>wire |      |   |
| 28130 |                                                 | 300 | -                                | 5                 | -                 | -                                              | 700  | 1 |
|       |                                                 | 360 | -                                | 7                 | -                 | -                                              | 1040 | 1 |
|       |                                                 | 460 | -                                | 8                 | -                 | -                                              | 1500 | 1 |
|       |                                                 | 610 | -                                | 10                | -                 | -                                              | 2500 | 1 |
|       |                                                 | 760 | -                                | 13                | -                 | -                                              | 4000 | 1 |
|       |                                                 | 910 | -                                | 15                | -                 | -                                              | 6000 | 1 |

| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm  |      |   |
|-------|-------------------------------------------------|-----|------|---|
|       |                                                 |     |      |   |
| 28131 |                                                 | 300 | 250  | 1 |
|       |                                                 | 360 | 450  | 1 |
|       |                                                 | 460 | 550  | 1 |
|       |                                                 | 610 | 800  | 1 |
|       |                                                 | 760 | 1200 | 1 |
|       |                                                 | 910 | 2000 | 1 |

### Kraftschneider

Heavy duty cutting  
Pincas coupantes de cote  
Alicate corte, extra fuerte



### Ersatzoberteil

Spare head  
Tête a remplacer  
Cabeza repuesto



| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm   | Schneidleistung/cutting capacity |                   |                   |                                                |  |  |
|-------|-------------------------------------------------|------|----------------------------------|-------------------|-------------------|------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|       |                                                 |      | 735<br>75<br>19                  | 1225<br>125<br>36 | 1570<br>160<br>48 | Spezial-<br>draht/<br>special<br>steel<br>wire |                                                                                   |                                                                                   |
| 28322 | Super                                           | 1060 | 16                               | 12                | 11                | 10                                             | 8600                                                                              | 1                                                                                 |

| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm   |  |  |
|-------|-------------------------------------------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 28323 | Super                                           | 1060 |                                                                                     | 1                                                                                   |

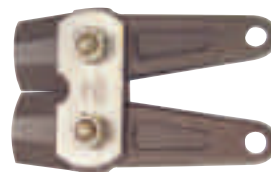
### Doppelschneider

Reversible Jaws  
Pince a double coupe torcifon



### Ersatzoberteil

Spare head  
Tête a remplacer  
Cabeza repuesto



| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm  | Schneidleistung/cutting capacity |                   |                   |                                                |  |  |
|-------|-------------------------------------------------|-----|----------------------------------|-------------------|-------------------|------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|       |                                                 |     | 735<br>75<br>19                  | 1225<br>125<br>36 | 1570<br>160<br>48 | Spezial-<br>draht/<br>special<br>steel<br>wire |                                                                                     |                                                                                     |
| 28325 | Duro                                            | 610 | 9                                | 8                 | 7                 | -                                              | 2600                                                                                | 1                                                                                   |
|       |                                                 | 760 | 11                               | 9                 | 8                 | -                                              | 4300                                                                                | 1                                                                                   |
|       |                                                 | 910 | 13                               | 10                | 9                 | -                                              | 6300                                                                                | 1                                                                                   |

| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm  |  |  |
|-------|-------------------------------------------------|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 28326 | Duro                                            | 610 |                                                                                       | 1                                                                                     |
|       |                                                 | 760 |                                                                                       | 1                                                                                     |
|       |                                                 | 910 |                                                                                       | 1                                                                                     |

### Messerpaar

Pair of Jaws  
Pair du couteau  
Cabeza repuesto



| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm  |  |  |
|-------|-------------------------------------------------|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 28327 | Duro                                            | 610 |                                                                                       | 1                                                                                     |
|       |                                                 | 760 |                                                                                       | 1                                                                                     |
|       |                                                 | 910 |                                                                                       | 1                                                                                     |

**Baustahlgewerbeschneider**

Structural Steel Cutter  
Coupe boulons  
Corta varillas

**Ersatzoberteil**

Spare head  
Tête a remplacer  
Cabeza repuesto



| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm   | Schneidleistung/cutting capacity |                   |                   |                                                |      |   |
|-------|-------------------------------------------------|------|----------------------------------|-------------------|-------------------|------------------------------------------------|------|---|
|       |                                                 |      | 735<br>75<br>19                  | 1225<br>125<br>36 | 1570<br>160<br>48 | Spezial-<br>draht/<br>special<br>steel<br>wire |      |   |
| 28333 | Duro                                            |      |                                  |                   |                   |                                                |      |   |
|       | Einzelstäbe                                     | 800  | 9                                | 8                 | 7                 | -                                              | 2700 | 1 |
|       | Doppelstäbe                                     | 800  | 7                                | 6                 | 5                 | -                                              | 2700 | 1 |
|       | single rods                                     | 1000 | 11                               | 9                 | 8                 | -                                              | 4700 | 1 |
|       | double rods                                     | 1000 | 7                                | 6                 | 5                 | -                                              | 4700 | 1 |

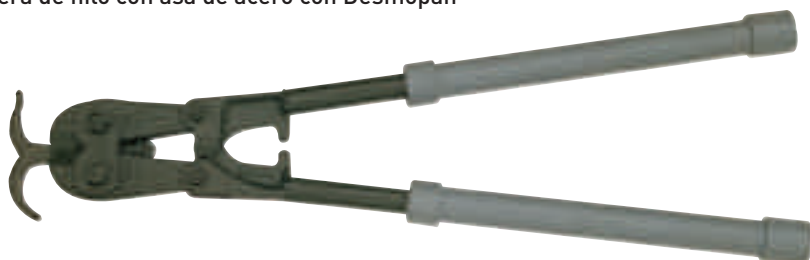
| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm   |  |   |
|-------|-------------------------------------------------|------|--|---|
|       |                                                 |      |  |   |
| 28334 | Duro                                            |      |  |   |
|       | Einzelstäbe                                     | 800  |  | 1 |
|       | Doppelstäbe                                     | 800  |  | 1 |
|       | single rods                                     | 1000 |  | 1 |
|       | double rods                                     | 1000 |  | 1 |

**Drahtschneider, TL 5110-007, Desmopan isoliert, mit Fanghaken**

Fireman's Cutter, TL 5110-007, Desmopan insulated, with hook  
Cisailles à fil de fer avec Desmopan  
Tijera de hilo con asa de acero con Desmopan

**Ersatzoberteil**

Spare head  
Tête a remplacer  
Cabeza repuesto



| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm  | Schneidleistung/cutting capacity |                   |                   |                                                |      |   |
|-------|-------------------------------------------------|-----|----------------------------------|-------------------|-------------------|------------------------------------------------|------|---|
|       |                                                 |     | 735<br>75<br>19                  | 1225<br>125<br>36 | 1570<br>160<br>48 | Spezial-<br>draht/<br>special<br>steel<br>wire |      |   |
| 28307 | Duro                                            | 675 | 9                                | 8                 | 7                 | -                                              | 3100 | 1 |

| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm  |  |   |
|-------|-------------------------------------------------|-----|--|---|
|       |                                                 |     |  |   |
| 28308 | Duro                                            | 615 |  | 1 |

**Drahtschneider, TL 5110-006, nicht isoliert, ohne Fanghaken**

Fireman's Cutter, TL 5110-006, not insulated, without hook  
Cisailles à fil de fer  
Tijera de hilo con asa de acero

| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm  | Schneidleistung/cutting capacity |                   |                   |                                                |      |   |
|-------|-------------------------------------------------|-----|----------------------------------|-------------------|-------------------|------------------------------------------------|------|---|
|       |                                                 |     | 735<br>75<br>19                  | 1225<br>125<br>36 | 1570<br>160<br>48 | Spezial-<br>draht/<br>special<br>steel<br>wire |      |   |
| 28306 | Duro                                            | 615 | 9                                | 8                 | 7                 | -                                              | 2600 | 1 |



### Hebelseitenschneider, rot lackiert

Lever gear side cutter, red lacquered / Pincas cou pantes des cote  
Cortaalambres palanca, corte frontal



| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm  | Schneidleistung/cutting capacity |                   |                                                |     |   |
|-------|-------------------------------------------------|-----|----------------------------------|-------------------|------------------------------------------------|-----|---|
|       |                                                 |     | 1225<br>125<br>36                | 1570<br>160<br>48 | Spezial-<br>draht/<br>special<br>steel<br>wire |     |   |
| 28115 | Extra                                           | 190 | 3,5                              | 2                 | 2,5                                            | 420 | 1 |
|       |                                                 | 225 | 4                                | 3,5               | 3                                              | 540 | 1 |

### Hebelvorschnneider, rot lackiert

Lever gear end cutter, red lacquered / Pincas cou pantes  
articulées / Cortaalambres palanca, corte frontal



| No.   | N/mm <sup>2</sup><br>kp./mm <sup>2</sup><br>HRC | mm  | Schneidleistung/cutting capacity |                   |                                                |     |   |
|-------|-------------------------------------------------|-----|----------------------------------|-------------------|------------------------------------------------|-----|---|
|       |                                                 |     | 1225<br>125<br>36                | 1570<br>160<br>48 | Spezial-<br>draht/<br>special<br>steel<br>wire |     |   |
| 28120 | Extra                                           | 180 | 3,5                              | 3                 | 2,5                                            | 425 | 1 |
|       |                                                 | 215 | 3,75                             | 3,25              | 2,75                                           | 570 | 1 |
|       |                                                 | 235 | 4                                | 3,5               | 3                                              | 750 | 1 |

### Diagonalschneider, schwarz lackiert, rot PVC-getaucht

Lever gear side cutter, black lacquered, red PVC handlesa



| No.    | mm  | Schneidleistung/cutting capacity |     |   |
|--------|-----|----------------------------------|-----|---|
| 232000 | 210 | für Pianodraht                   | 340 | 1 |
|        | 260 | for pianowire                    | 600 |   |

### Bindezange (Drahteinziehzange), gerade

Pulling Tong, straight / Pince à lier, droit



| No.   | mm  | Zoll |     |   |
|-------|-----|------|-----|---|
| 24106 | 230 | 9    | 580 | 6 |
|       | 260 | 10   | 650 | 6 |
|       | 300 | 12   | 760 | 6 |

### Bindezange (Drahteinziehzange),

#### 1 gebogener Schenkel

Pulling Tong, bendet / Pince à lier, courbée



| No.   | mm  | Zoll |     |   |
|-------|-----|------|-----|---|
| 24116 | 230 | 9    | 580 | 6 |
|       | 260 | 10   | 650 | 6 |
|       | 300 | 12   | 760 | 6 |

### Diagonal-Drahtschneider

Center Cutter / Pince à Coupe Centrale



| No.   | mm  | Schneidleistung/cutting capacity |                    |     |   |
|-------|-----|----------------------------------|--------------------|-----|---|
|       |     | weich/<br>soft<br>Ø              | hart/<br>hard<br>Ø |     |   |
| 24206 | 200 | 6                                | 3,5                | 350 | 1 |

### Abgratzzange

Welders De-Burring Plier / Pince à Ebarber



| No.   | Größe | für Draht von bis Ø mm | mm  |     |   |
|-------|-------|------------------------|-----|-----|---|
| 24501 | 1     | 2-6                    | 240 | 600 | 1 |
|       | 2     | 4-8                    | 240 | 600 | 1 |

### Ersatzmesserpaar

Pair of Jaws / Pair du couteau / Cabeza repuesto

| No.   | Größe | für Draht von bis Ø mm | mm |  |    |
|-------|-------|------------------------|----|--|----|
| 24511 | 1     | 2-6                    |    |  | 10 |
|       | 2     | 4-8                    |    |  |    |

### Sicherheits-Bandeisenschneider

Safety Strapping Cutter / Pince Coupante pour Feuillard



| No.   | mm  |      |   |
|-------|-----|------|---|
| 24611 | 510 | 2200 | 1 |

Schneidleistung: Bandbreite 50 mm und 1,2 mm Banddichte



**STEIN-METALL-MEISSEL**  
STONE-METAL-CHISEL

11

## Qualität im Mittelpunkt

An der Serie padre®-Gold besonders deutlich zu sehen: von Kopf bis Blatt auf Qualität eingestellt.

Blätter, Kegel und Dorne der Serie padre® - Gold werden fachgerecht geschliffen, poliert und mit transparentem Rostschutzlack versiegelt. Sorgfältig verrundete Kopfformen ohne scharfe Ecken und Kanten sind dem Schlagradius des Hammers nachgebildet, mit großen Aufschlagflächen für sicheres Auftreffen.

Die Spezial-Kopfvergütung wirkt Aussplitterungen und Gratbildungen der Schlagenden entgegen und den damit verbundenen Verletzungen.

Optimale Durchhärtung verhindert Durchbiegen des Schaftes, selbst bei stärkster Belastung. Meißel können ohne jede sonstige Nacharbeit bis zum Blattende nachgeschliffen werden.

Zusätzliche Oberflächen-Vorbehandlung läßt die Kunstharz-Einbrennlackierung besser haften, sorgt für gute Griffigkeit und bietet so die beste Voraussetzung für die Montage von Sicherheits-Handgriffen.

## Focus on quality

The series padre® - Gold shows is very clearly: quality from head to blade.

Blades, tapers and punches of the series padre® - Gold are properly ground, polished and coated with transparent rust-proofing laquer.

Carefully ground tool heads without any sharp corners and edges are adapted to the striking radius of a hammer, with large surfaces to ensure accurate striking.

Special quenching and tempering of the tool heads prevents flaking and burring of the striking ends and thus helps avoid injury. Optimal hardening prevents the shaft from bending, even at maximal load. The chisels can be reground until the end of the blade without any further reworking.

Additional surface pretreatment ensures enhanced durability of the synthetic-resin stove-enamel finish, improved handling properties and thus constitutes an optimal basis for the mounting of safety handles.

## De la qualité à tous les niveaux

Dans cette série padre® - Or, quelque chose saute aux yeux: de la qualité de la tête à la lame.

Les lames, les cônes et les broches de la série padre® - Or seront polies et revêtues d'une couche de vernis transparent anti-corrosion.

Les formes bien arrondies des extrémités, sans arêtes ou bords vifs, épousant le rayon de frappe du marteau, offrent ainsi de grandes surfaces sûres de frappe.

Le traitement spécial des têtes de frappe évite toute formation de bourrelet et d'éclats aux extrémités de l'outil et par conséquent tout risque de blessure qui sinon en résulterait.

Un trempage optimal élimine tout risque de torsion de la tige, même dans des conditions extrêmes.

Les ciseaux peuvent être réaffûtés jusqu'à leurs extrémités sans nécessiter d'autres travaux.

Un traitement de surface supplémentaire garantit une adhésion du vernis émail synthétique, une bonne tenue en main des outils et offre ainsi les meilleures conditions préalables pour le montage des poignées de sécurité.

## Calidad en punto medio

En la serie padre® - ORO claro para ver: de cabeza hasta hoja regulación en calidad

Las hojas, los conos y los pinchos de la serie padre® - ORO son pulidos y con una capa de barniz transparente.

Las formas bien redondeadas sin rincóns y bordes cortantes son formados según a lo ámbito del golpe de lo martillo, con grandes superficies de golpe para un acerto seguro.

Lo tratamiento especial de las cabezas evita todas las formaciones de fragmentos en lo final del golpe y los peligros que pueden hacer en relación con ellos.

Una dureza óptimal evita un doblar de la punta, mismo con muy fuerte carga. Los cinces pueden ser afilados hasta el final de la hoja.

Tratamiento de la superficie adicional garantiza quedar adherido mejor la pintura de resina, da una buena palpable del mango y da así un mejor supuesto para la montaje de los mangos de seguridad.



## padre® - Qualitäten auf einen Blick

### padre® - Gold

Spitzenqualität in Verarbeitung und Aufmachung, hergestellt aus CV-Lufthärttestählen ausgewählter Chargen. Optimale Warmbehandlung garantiert beste Verschleißigenschaften. Arbeitsenden ganz durchgehärtet. Schaft bis zum Schlagkopf vergütet. Härtewerte im oberen DIN-Bereich. Blätter, Kegel und Dorne blank poliert. Schaft goldfarbig einbrennlackiert.

### padre® - Silber

Alles wie bei padre® - Gold, nur in preiswerterer Aufmachung: Blatt silber und Schaft grün einbrennlackiert.

### padre®

Solide Werkzeugstahl-Qualität und Ausführung. Ganz schwarz lackiert oder blank.

Andere Produkt-Qualitäten: Chrom-Vanadium-Stahl, Hochleistungs-Schnellstahl, mit Hartmetall-Einsatz, hochfester Spezialstahl, hochfester Bandstahl. Sonstige nicht aus Metall hergestellte Produkte.

## padre® quality at a glance

### padre® - Gold

Top quality in workmanship and design, made of air-hardened chrome-vanadium steel from selected batches. Optimal heat treatment to ensure maximal resistance to wear and tear. Working ends fully quenched and tempered. Hardened and tempered shank up to the striking head. Hardness values in the upper DIN range. Bright polished blades, tapers and punches. Stove-enameled, gold-coloured shanks.

### padre® - Silver

Same as padre®-Gold, however, cheaper design: silver blades and stove-enameled, green shanks.

### padre®

Solid carbon-Steel quality and design. All-black enameled or bright.

Further product qualities: Chrome-vanadium steel, super-speed steel, with hard-metal core, high-tensile special steel, high-tensile strip steel.

Further products made of materials other than steel.

## Les qualités padre® en un coup d'oeil

### padre® - Or

Une qualité de pointe aux niveaux fabrication et présentation, basée sur des charges prévues pour des aciers au chrome-vanadium trempés à l'air. Un traitement thermique optimal garantit des propriétés idéales d'usure. Les extrémités sont entièrement trempées. Tige améliorée par trempe et revenue jusqu'à la tête de trempe. Valeurs de trempe se situant au niveau le plus élevé des normes DIN. Lames, cônes et broches polies. Tige revêtue d'un vernis au four de couleur or.

### padre® - argent

Les mêmes qualités que pour padre® - Or, seule la présentation est moins coûteuse: lame argent et tige revêtue d'une vernis au four vert.

### padre®

Une qualité et une conception solides d'outils en acier. Soit entièrement vernis noir ou nus.

D'autres qualités de produits: acier au chrome-vanadium, acier très rapide, avec charge de métal dur, acier spécial à haute résistance, acier feuillard à haute résistance. Autres produits pas fabriqués à base de métal.

## La calidad en una vista

### padre® - ORO

Una calidad excelente en un nivel de fabricación y presentación, producido de acero de cromo vanadium. Un tratamiento térmico especial garantiza atributos de deterioro ideales. Los puestos finales de trabajo tienen una dureza completa. La punta está preciosada hasta la cabeza del golpe. Valores de la dureza estan en la parte superior de las Normas DIN. Las hojas, los conos y los pinchos son pulidos. La cabeza es barnizada con barniz dorado.

### padre® - PLATA

Todo como en padre® - Gold, solamente en una presentación más barata. Hoja en Plata y cabezal con barniz verde.

### padre®

Una calidad y presentación de un acero sólido. Barnizado completo en negro o blanco.

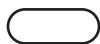
Otras calidades del Producto: acero cromo-vanadium, acero muy rápido, con elemento de metal duro, acero especial de alta resistencia, acero de cinta de alta resistencia.

Otros Productos no producidos de metal.



### Maurermeissel

Mason chisel, Ciseau de maçon  
Cinceles de canteros



DIN 7254 Form A  
Chrom-Vanadium  
Lufthärtestahl

### mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.         | mm          | mm    | mm | g    |    |
|-------------|-------------|-------|----|------|----|
| <b>3000</b> | <b>200</b>  | 20x12 | 27 | 310  | 10 |
|             | <b>250</b>  | 20x12 | 27 | 400  | 10 |
|             | <b>300</b>  | 23x13 | 31 | 580  | 10 |
|             | <b>350</b>  | 23x13 | 31 | 720  | 10 |
|             | <b>400</b>  | 23x13 | 31 | 800  | 5  |
|             | <b>500</b>  | 26x13 | 33 | 1160 | 5  |
|             | <b>600</b>  | 26x13 | 33 | 1400 | 3  |
|             | <b>800</b>  | 26x13 | 33 | 1860 | 3  |
|             | <b>1000</b> | 26x13 | 33 | 2360 | 3  |

| No.            | mm          | mm    | mm | g    |    |
|----------------|-------------|-------|----|------|----|
| <b>3000 SB</b> | <b>200</b>  | 20x12 | 27 | 310  | 10 |
|                | <b>250</b>  | 20x12 | 27 | 400  | 10 |
|                | <b>300</b>  | 23x13 | 31 | 580  | 10 |
|                | <b>350</b>  | 23x13 | 31 | 720  | 10 |
|                | <b>400</b>  | 23x13 | 31 | 800  | 5  |
|                | <b>500</b>  | 26x13 | 33 | 1160 | 5  |
|                | <b>600</b>  | 26x13 | 33 | 1400 | 3  |
|                | <b>800</b>  | 26x13 | 33 | 1860 | 3  |
|                | <b>1000</b> | 26x13 | 33 | 2360 | 3  |

### mit Handschutz

with safety handle  
avec manche protective  
con mango protector



| No.            | mm          | mm    | mm | g    |    |
|----------------|-------------|-------|----|------|----|
| <b>3000 HS</b> | <b>200</b>  | 20x12 | 27 | 310  | 10 |
|                | <b>250</b>  | 20x12 | 27 | 400  | 10 |
|                | <b>300</b>  | 23x13 | 31 | 580  | 10 |
|                | <b>350</b>  | 23x13 | 31 | 720  | 10 |
|                | <b>400</b>  | 23x13 | 31 | 800  | 5  |
|                | <b>500</b>  | 26x13 | 33 | 1160 | 5  |
|                | <b>600</b>  | 26x13 | 33 | 1400 | 3  |
|                | <b>800</b>  | 26x13 | 33 | 1860 | 3  |
|                | <b>1000</b> | 26x13 | 33 | 2360 | 3  |

### Maurermeissel

Mason chisel, Ciseau de maçon  
Cinceles de canteros



DIN 7254 Form B  
Chrom-Vanadium  
Lufthärtestahl



| No.         | mm         | mm | mm | g    |    |
|-------------|------------|----|----|------|----|
| <b>3010</b> | <b>200</b> | 16 | 27 | 310  | 10 |
|             | <b>250</b> | 16 | 27 | 400  | 10 |
|             | <b>300</b> | 18 | 30 | 580  | 10 |
|             | <b>350</b> | 18 | 30 | 720  | 10 |
|             | <b>400</b> | 20 | 30 | 800  | 5  |
|             | <b>500</b> | 20 | 30 | 1160 | 5  |

### mit Handschutz

with safety handle  
avec manche protective  
con mango protector



### mit Handschutz „Profi“

with safety handle "Profi"  
avec manche protective „Profi“  
con mango protector „Profi“



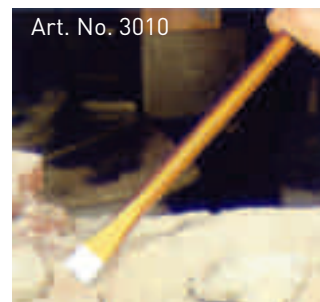
| No.            | mm          | mm    | mm | g    |    |
|----------------|-------------|-------|----|------|----|
| <b>3000 HP</b> | <b>300</b>  | 23x13 | 31 | 580  | 10 |
|                | <b>350</b>  | 23x13 | 31 | 720  | 10 |
|                | <b>400</b>  | 23x13 | 31 | 800  | 5  |
|                | <b>500</b>  | 26x13 | 33 | 1160 | 5  |
|                | <b>600</b>  | 26x13 | 33 | 1400 | 3  |
|                | <b>800</b>  | 26x13 | 33 | 1860 | 3  |
|                | <b>1000</b> | 26x13 | 33 | 2360 | 3  |

| No.            | mm         | mm | mm | g    |    |
|----------------|------------|----|----|------|----|
| <b>3010 HS</b> | <b>200</b> | 16 | 27 | 310  | 10 |
|                | <b>250</b> | 16 | 27 | 400  | 10 |
|                | <b>300</b> | 18 | 30 | 580  | 10 |
|                | <b>350</b> | 18 | 30 | 720  | 10 |
|                | <b>400</b> | 20 | 30 | 800  | 5  |
|                | <b>500</b> | 20 | 30 | 1160 | 5  |

Art. No. 3000



Art. No. 3010



mit Handschutz „Profi“

with safety handle "Profi" / avec manche protective „Profi“  
con mango protector „Profi“



| No.     | mm  |    | mm | g   |    |
|---------|-----|----|----|-----|----|
| 3010 HP | 300 | 18 | 30 | 580 | 10 |
|         | 350 | 18 | 30 | 720 | 10 |

mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  |    | mm | g    |    |
|---------|-----|----|----|------|----|
| 3010 SB | 200 | 16 | 27 | 310  | 10 |
|         | 250 | 16 | 27 | 400  | 10 |
|         | 300 | 18 | 30 | 580  | 10 |
|         | 350 | 18 | 30 | 720  | 10 |
|         | 400 | 20 | 30 | 800  | 5  |
|         | 500 | 20 | 30 | 1160 | 5  |

Fugenmeissel

Jointing chisel, Ecartoir  
Cinzel pala ancha



Chrom-Vanadium  
Lufthärtestahl

| No.  | mm  |    | mm | g   |    |
|------|-----|----|----|-----|----|
| 3015 | 250 | 18 | 25 | 420 | 10 |

mit Handschutz

with safety handle /  
avec manche protective  
con mango protector



| No.     | mm  |    | mm | g   |    |
|---------|-----|----|----|-----|----|
| 3015 HS | 250 | 18 | 25 | 420 | 10 |

mit Handschutz „Profi“

with safety handle "Profi"  
avec manche protective „Profi“  
con mango protector „Profi“



| No.     | mm  |    | mm | g   |    |
|---------|-----|----|----|-----|----|
| 3015 HP | 250 | 18 | 25 | 420 | 10 |

mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  |    | mm | g   |    |
|---------|-----|----|----|-----|----|
| 3015 SB | 250 | 18 | 25 | 420 | 10 |

Spitzmeissel

Pointed Chisel, Ciseau pointu  
Cinceles puntiagudos de canteros



DIN 7256  
Chrom-Vanadium  
Lufthärtestahl



| No.  | mm   |    | g    |    |
|------|------|----|------|----|
| 3020 | 200  | 16 | 280  | 10 |
|      | 250  | 16 | 360  | 10 |
|      | 300  | 18 | 560  | 10 |
|      | 350  | 18 | 660  | 10 |
|      | 400  | 20 | 940  | 5  |
|      | 500  | 20 | 1200 | 5  |
|      | 600  | 20 | 1480 | 3  |
|      | 800  | 20 | 1960 | 3  |
|      | 1000 | 20 | 2440 | 3  |

mit Handschutz

with safety handle  
avec manche protective  
con mango protector



| No.     | mm   |    | g    |    |
|---------|------|----|------|----|
| 3020 HS | 200  | 16 | 280  | 10 |
|         | 250  | 16 | 360  | 10 |
|         | 300  | 18 | 560  | 10 |
|         | 350  | 18 | 660  | 10 |
|         | 400  | 20 | 940  | 5  |
|         | 500  | 20 | 1200 | 5  |
|         | 600  | 20 | 1480 | 3  |
|         | 800  | 20 | 1960 | 3  |
|         | 1000 | 20 | 2440 | 3  |

mit Handschutz „Profi“

with safety handle "Profi"  
avec manche protective „Profi“  
con mango protector „Profi“



| No.     | mm  |    | g   |    |
|---------|-----|----|-----|----|
| 3020 HP | 300 | 18 | 560 | 10 |
|         | 350 | 18 | 660 | 10 |

### Spitzmeissel mit SB-Aufhänger

Pointed Chisel with SB-Holder

Ciseau pointu avec SB-Poches

Cinceles puntiagudos de canteros

con SB-Bolsas



DIN 7256  
Chrom-Vanadium  
Lufthärtestahl



| No.     | mm   |    |  | g    |    |
|---------|------|----|--|------|----|
| 3020 SB | 200  | 16 |  | 280  | 10 |
|         | 250  | 16 |  | 360  | 10 |
|         | 300  | 18 |  | 560  | 10 |
|         | 350  | 18 |  | 660  | 10 |
|         | 400  | 20 |  | 940  | 5  |
|         | 500  | 20 |  | 1200 | 5  |
|         | 600  | 20 |  | 1480 | 3  |
|         | 800  | 20 |  | 1960 | 3  |
|         | 1000 | 20 |  | 2440 | 3  |

### Elektrikermeissel

Electrician's chisel

Ciseau pour électricien,

Cinceles para electricistas



Chrom-Vanadium  
Lufthärtestahl



| No.  | mm  |    | mm | g   |    |
|------|-----|----|----|-----|----|
| 3030 | 200 | 6  | 8  | 60  | 10 |
|      | 200 | 8  | 10 | 100 | 10 |
|      | 200 | 8  | 12 | 101 | 10 |
|      | 200 | 10 | 12 | 140 | 10 |
|      | 250 | 8  | 10 | 120 | 10 |
|      | 250 | 8  | 12 | 120 | 10 |
|      | 250 | 10 | 12 | 185 | 10 |
|      | 300 | 8  | 12 | 140 | 10 |

### mit Handschutz

with safety handle / avec manche protective / con mango protector



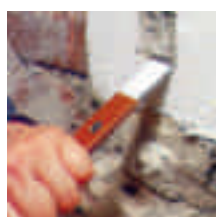
| No.     | mm  |    | mm | g   |    |
|---------|-----|----|----|-----|----|
| 3030 HS | 200 | 10 | 12 | 140 | 10 |
|         | 250 | 10 | 12 | 185 | 10 |



Art. No. 3020



Art. No. 3030



Art. No. 3040

### mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  |    | mm | g   |    |
|---------|-----|----|----|-----|----|
| 3030 SB | 200 | 8  | 10 | 100 | 10 |
|         | 200 | 8  | 12 | 101 | 10 |
|         | 200 | 10 | 12 | 140 | 10 |
|         | 250 | 8  | 10 | 120 | 10 |
|         | 250 | 8  | 12 | 120 | 10 |
|         | 250 | 10 | 12 | 185 | 10 |
|         | 300 | 8  | 12 | 140 | 10 |

### Elektrikermeissel

Electrician's chisel

Ciseau pour électricien,

Cinceles para electricistas



Chrom-Vanadium  
Lufthärtestahl



| No.  | mm  |    | mm | g   |    |
|------|-----|----|----|-----|----|
| 3031 | 200 | 10 | 12 | 120 | 10 |
|      | 200 | 12 | 14 | 160 | 10 |
|      | 250 | 10 | 12 | 150 | 10 |
|      | 250 | 12 | 14 | 210 | 10 |
|      | 300 | 10 | 12 | 200 | 10 |
|      | 300 | 12 | 14 | 260 | 10 |

### mit Handschutz

with safety handle / avec manche protective / con mango protector



| No.     | mm  |    | mm | g   |    |
|---------|-----|----|----|-----|----|
| 3031 HS | 200 | 10 | 12 | 120 | 10 |
|         | 250 | 10 | 12 | 150 | 10 |
|         | 300 | 10 | 12 | 200 | 10 |

### mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  |    | mm | g   |    |
|---------|-----|----|----|-----|----|
| 3031 SB | 200 | 10 | 12 | 120 | 10 |
|         | 200 | 12 | 14 | 160 | 10 |
|         | 250 | 10 | 12 | 150 | 10 |
|         | 250 | 12 | 14 | 210 | 10 |
|         | 300 | 10 | 12 | 200 | 10 |
|         | 300 | 12 | 14 | 260 | 10 |

**Schlitz-oder Karosseriemeissel**

Jointing or carbody chisel, Ciseau pour jointer ou de carrossier, Cincel chapista

Chrom-Vanadium  
Lufthärtestahl

| No.  | mm  | mm   | mm | g   |    |
|------|-----|------|----|-----|----|
| 3040 | 230 | 26x7 | 26 | 285 | 10 |

mit Handschutz  
with safety handle  
avec manche protective  
con mango protector



| No.     | mm  | mm   | mm | g   |    |
|---------|-----|------|----|-----|----|
| 3040 HS | 230 | 26x7 | 26 | 285 | 10 |

mit Handschutz „Profi“  
with safety handle „Profi“  
avec manche protective „Profi“  
con mango protector „Profi“



| No.     | mm  | mm   | mm | g   |    |
|---------|-----|------|----|-----|----|
| 3040 HP | 230 | 26x7 | 26 | 285 | 10 |

mit SB-Aufhänger  
with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  | mm   | mm | g   |    |
|---------|-----|------|----|-----|----|
| 3040 SB | 230 | 26x7 | 26 | 285 | 10 |

**Im Gesenk geschmiedet, extra lang,  
extra dünn, für Arbeiten auch an engen Stellen**

Forged in the stamp, extra long, extra thin,  
also for work on narrow places  
Forger dans la machine, spécial long, spécial fin,  
pour travail aussi à étroit places  
Forjado en la máquina, especial largo, especial fino,  
para trabajo tambien en puestos estrechos



| No.  | mm  | mm       | mm | g   |    |
|------|-----|----------|----|-----|----|
| 3041 | 240 | 26x7 (2) | 26 | 260 | 10 |

mit Handschutz  
with safety handle  
avec manche protective  
con mango protector



| No.     | mm  | mm       | mm | g   |    |
|---------|-----|----------|----|-----|----|
| 3041 HS | 240 | 26x7 (2) | 26 | 260 | 10 |

mit Handschutz „Profi“  
with safety handle „Profi“  
avec manche protective „Profi“  
con mango protector „Profi“



| No.     | mm  | mm       | mm | g   |    |
|---------|-----|----------|----|-----|----|
| 3041 HP | 240 | 26x7 (2) | 26 | 260 | 10 |

mit SB-Aufhänger  
with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  | mm   | mm | g   |    |
|---------|-----|------|----|-----|----|
| 3041 SB | 240 | 26x7 | 26 | 285 | 10 |

**Fugenmeissel**Jointing chisel, Ecartoir  
Cincel pala anchaDIN 7256  
Chrom-Vanadium  
Lufthärtestahl

| No.  | mm | mm  | mm    | g   |    |
|------|----|-----|-------|-----|----|
| 3045 | 50 | 250 | 23x13 | 500 | 10 |
|      | 60 | 250 | 26x13 | 550 | 10 |
|      | 70 | 250 | 26x13 | 580 | 10 |

mit Handschutz  
with safety handle  
avec manche protective  
con mango protector



| No.     | mm | mm  | mm    | g   |    |
|---------|----|-----|-------|-----|----|
| 3045 HS | 50 | 250 | 23x13 | 500 | 10 |
|         | 60 | 250 | 26x13 | 550 | 10 |
|         | 70 | 250 | 26x13 | 580 | 10 |



### Fugenmeissel mit Handschutz „Profi“

Jointing chisel, with safety handle "Profi"

Ecartoir avec manche protective „Profi“

Cinzel pala ancha con mango protector „Profi“

Chrom-Vanadium  
Lufthärtestahl



| No.     | mm | mm  |       | g   |    |
|---------|----|-----|-------|-----|----|
| 3045 HP | 50 | 250 | 23x13 | 500 | 10 |
|         | 60 | 250 | 26x13 | 550 | 10 |
|         | 70 | 250 | 26x13 | 580 | 10 |
|         |    |     |       |     |    |

#### mit SB-Aufhänger

Jointing chisel with SB-Holder / Ecartoir avec SB-Poches /  
Cinzel pala ancha con SB-Bolsas



| No.     | mm | mm  |       | g   |    |
|---------|----|-----|-------|-----|----|
| 3045 SB | 50 | 250 | 23x13 | 500 | 10 |
|         | 60 | 250 | 26x13 | 550 | 10 |
|         | 70 | 250 | 26x13 | 580 | 10 |
|         |    |     |       |     |    |

### Fliesenflachmeissel

Tiler's flat chisel, Burin pour dallier plat

Cinceles para baldosa, planos



Chrom-Vanadium  
Lufthärtestahl



| No.  | mm  |   | mm | g  |    |
|------|-----|---|----|----|----|
| 3050 | 100 | 8 | 10 | 40 | 10 |

#### mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  |   | mm | g  |    |
|---------|-----|---|----|----|----|
| 3050 SB | 100 | 8 | 10 | 40 | 10 |

### Fliesenspitzeisels

Tiler's pointed chisel,

Burin pour dallier pointu,

Cinceles para baldosa, puntiagudos



Chrom-Vanadium  
Lufthärtestahl



| No.  | mm  |    | g   |    |
|------|-----|----|-----|----|
| 3060 | 100 | 8  | 40  | 10 |
|      | 200 | 6  | 60  | 10 |
|      | 200 | 8  | 100 | 10 |
|      | 250 | 8  | 120 | 10 |
|      | 250 | 10 | 180 | 10 |
|      |     |    |     |    |

#### mit Handschutz

with safety handle / avec manche protective / con mango protector

| No.     | mm  |    | g   |    |
|---------|-----|----|-----|----|
| 3060 HS | 250 | 10 | 180 | 10 |

#### mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas

| No.     | mm  |    | g   |    |
|---------|-----|----|-----|----|
| 3060 SB | 100 | 8  | 40  | 10 |
|         | 200 | 6  | 60  | 10 |
|         | 200 | 8  | 100 | 10 |
|         | 250 | 8  | 120 | 10 |
|         | 250 | 10 | 180 | 10 |
|         |     |    |     |    |

### Setzeisen

Impact Nail



Chrom-Vanadium  
Lufthärtestahl



| No.  | mm  |    | mm | g   |    |
|------|-----|----|----|-----|----|
| 3065 | 160 | 18 |    | 370 | 10 |

#### mit Handschutz

with safety handle / avec manche protective / con mango protector

| No.     | mm  |    | mm | g   |    |
|---------|-----|----|----|-----|----|
| 3065 HS | 160 | 18 |    | 480 | 10 |

## Flachmeissel

Flat chisel, Burins plats,  
Cinceles planos



DIN 6453  
Chrom-Vanadium  
Lufthärtestahl

| No.  | mm  | mm    | mm | g   |    |
|------|-----|-------|----|-----|----|
| 3070 | 100 | 14x9  | 18 | 80  | 10 |
|      | 125 | 14x9  | 18 | 100 | 10 |
|      | 150 | 17x11 | 21 | 180 | 10 |
|      | 175 | 20x12 | 24 | 280 | 10 |
|      | 200 | 23x13 | 28 | 380 | 5  |
|      | 250 | 23x13 | 28 | 500 | 5  |
|      | 300 | 23x13 | 31 | 600 | 3  |

mit Handschutz  
with safety handle  
avec manche protective  
con mango protector



| No.     | mm  | mm    | mm | g   |   |
|---------|-----|-------|----|-----|---|
| 3070 HS | 200 | 23x13 | 28 | 380 | 5 |
|         | 250 | 23x13 | 28 | 500 | 5 |
|         | 300 | 23x13 | 31 | 600 | 3 |

mit Handschutz „Profi“  
with safety handle "Profi"  
avec manche protective „Profi“  
con mango protector „Profi“



| No.     | mm  | mm    | mm | g   |   |
|---------|-----|-------|----|-----|---|
| 3070 HP | 200 | 23x13 | 28 | 380 | 5 |
|         | 250 | 23x13 | 28 | 500 | 5 |
|         | 300 | 23x13 | 31 | 600 | 3 |

mit SB-Aufhänger  
with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  | mm    | mm | g   |    |
|---------|-----|-------|----|-----|----|
| 3070 SB | 100 | 14x9  | 18 | 80  | 10 |
|         | 125 | 14x9  | 18 | 100 | 10 |
|         | 150 | 17x11 | 21 | 180 | 10 |
|         | 175 | 20x12 | 24 | 280 | 10 |
|         | 200 | 23x13 | 28 | 380 | 5  |
|         | 250 | 23x13 | 28 | 500 | 5  |
|         | 300 | 23x13 | 31 | 600 | 3  |

## Kreuzmeissel

Cape chisel, Ciseau croix,  
Cinceles agudos



DIN 6451  
Chrom-Vanadium  
Lufthärtestahl

| No.  | mm  | mm    | mm | g   |    |
|------|-----|-------|----|-----|----|
| 3080 | 100 | 14x9  | 5  | 60  | 10 |
|      | 125 | 14x9  | 5  | 80  | 10 |
|      | 150 | 17x11 | 6  | 160 | 10 |
|      | 175 | 20x12 | 7  | 240 | 10 |
|      | 200 | 23x13 | 8  | 340 | 10 |
|      | 250 | 23x13 | 8  | 460 | 10 |
|      | 300 | 23x13 | 9  | 560 | 10 |

mit Handschutz  
with safety handle  
avec manche protective  
con mango protector



| No.     | mm  | mm    | mm | g   |    |
|---------|-----|-------|----|-----|----|
| 3080 HS | 250 | 23x13 | 8  | 460 | 10 |
|         | 300 | 23x13 | 9  | 560 | 10 |

mit Handschutz „Profi“  
with safety handle "Profi"  
avec manche protective „Profi“  
con mango protector „Profi“



| No.     | mm  | mm    | mm | g   |    |
|---------|-----|-------|----|-----|----|
| 3080 HP | 250 | 23x13 | 8  | 460 | 10 |
|         | 300 | 23x13 | 9  | 560 | 10 |

mit SB-Aufhänger  
with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  | mm    | mm | g   |    |
|---------|-----|-------|----|-----|----|
| 3080 SB | 100 | 14x9  | 5  | 60  | 10 |
|         | 125 | 14x9  | 5  | 80  | 10 |
|         | 150 | 17x11 | 6  | 160 | 10 |
|         | 175 | 20x12 | 7  | 240 | 10 |
|         | 200 | 23x13 | 8  | 340 | 10 |
|         | 250 | 23x13 | 8  | 460 | 10 |
|         | 300 | 23x13 | 9  | 560 | 10 |

### Flachmeissel

Flat chisel, Burins plats,  
Cinceles planos



Chrom-Vanadium  
Molybdän  
Lufthärtestahl



| No.  | mm  | mm | mm | g   |    |
|------|-----|----|----|-----|----|
| 3090 | 125 | 10 | 13 | 80  | 10 |
|      | 150 | 12 | 15 | 120 | 10 |

mit SB-Aufhänger

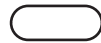
with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  | mm | mm | g   |    |
|---------|-----|----|----|-----|----|
| 3090 SB | 125 | 10 | 13 | 80  | 10 |
|         | 150 | 12 | 15 | 120 | 10 |

### Beil-Karosseriemeissel

Plugging chisel, Ciseau à rainurer,  
Cinzel para ranuras



Chrom-Vanadium  
Lufthärtestahl



| No.  | mm  | mm    | mm | g   |    |
|------|-----|-------|----|-----|----|
| 3095 | 250 | 23x13 | 30 | 460 | 10 |

mit Handschutz

with safety handle  
avec manche protective  
con mango protector



| No.     | mm  | mm    | mm | g   |    |
|---------|-----|-------|----|-----|----|
| 3095 HS | 250 | 23x13 | 30 | 460 | 10 |

mit Handschutz „Profi“

with safety handle "Profi"  
avec manche protective „Profi“  
con mango protector „Profi“



| No.     | mm  | mm    | mm | g   |    |
|---------|-----|-------|----|-----|----|
| 3095 HP | 250 | 23x13 | 30 | 460 | 10 |

mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  | mm    | mm | g   |    |
|---------|-----|-------|----|-----|----|
| 3095 SB | 250 | 23x13 | 30 | 460 | 10 |

### Kreuzmeissel

Cape chisel, Ciseau croix,  
Cinceles agudos



Chrom-Vanadium  
Molybdän  
Lufthärtestahl



| No.  | mm  | mm | mm | g  |    |
|------|-----|----|----|----|----|
| 3100 | 125 | 10 | 4  | 60 | 10 |

mit Handschutz

with safety handle / avec manche protective / con mango protector



| No.     | mm  | mm | mm | g  |    |
|---------|-----|----|----|----|----|
| 3100 HS | 125 | 10 | 4  | 60 | 10 |

mit SB-Aufhänger

with SB-Holder  
avec SB-Poches  
con SB-Bolsas



| No.     | mm  | mm | mm | g  |    |
|---------|-----|----|----|----|----|
| 3100 SB | 125 | 10 | 4  | 60 | 10 |

### Körner

Center Punch, Pointeau,  
Punteros

DIN 7250  
Chrom-Vanadium  
Molybdän  
Lufthärtestahl



| No.  | mm  | mm | mm | g   |    |
|------|-----|----|----|-----|----|
| 3110 | 120 | 4  | 10 | 65  | 10 |
|      | 120 | 5  | 12 | 90  | 10 |
|      | 150 | 5  | 12 | 120 | 10 |
|      | 150 | 6  | 14 | 200 | 10 |
|      | 150 | 8  | 18 | 260 | 10 |

mit Handschutz

with safety handle / avec manche protective / con mango protector



| No.     | mm  | mm | mm | g   |    |
|---------|-----|----|----|-----|----|
| 3110 HS | 120 | 4  | 10 | 65  | 10 |
|         | 150 | 6  | 14 | 200 | 10 |
|         | 150 | 8  | 18 | 260 | 10 |

**Körner mit SB-Aufhänger**

Center Punch with SB-Holder

Pointeau avec SB-Poches

Punteros con SB-Bolsas



DIN 7250  
Chrom-Vanadium  
Molybdän  
Lufthärtestahl

| No.     | mm  | Ø |    | g   |    |
|---------|-----|---|----|-----|----|
| 3110 SB | 120 | 4 | 10 | 65  | 10 |
|         | 120 | 5 | 12 | 90  | 10 |
|         | 150 | 5 | 12 | 120 | 10 |
|         | 150 | 6 | 14 | 200 | 10 |
|         | 150 | 8 | 18 | 260 | 10 |

mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | Ø | mm  |    | g  |    |
|---------|---|-----|----|----|----|
| 3120 SB | 1 | 120 | 10 | 65 | 10 |
|         | 2 | 120 | 10 | 65 | 10 |
|         | 3 | 120 | 10 | 65 | 10 |
|         | 4 | 120 | 10 | 65 | 10 |
|         | 5 | 120 | 10 | 65 | 10 |
|         | 6 | 120 | 10 | 65 | 10 |

**Selbstschlagender Körner**

self-Striking center punch, Pointeau à dispositif de frappe

Puntero de pegar élmismo



| No.  | mm  | Ø  |  | g   |    |
|------|-----|----|--|-----|----|
| 6390 | 130 | 16 |  | 105 | 10 |

**Ersatz-Körnerspitze**

Spare punch tip, Pointe de pointeau de remplacement

Puntero de puntero de repuesto



| No.  | mm | Ø |  | g |    |
|------|----|---|--|---|----|
| 6391 | 48 | 5 |  | 6 | 10 |

**Durchtreiber**

Drift punch, Poinçon, Punzones



Chrom-Vanadium  
Molybdän  
Lufthärtestahl  
DIN 6458 Form B

| No.  | Ø | mm  |    | g  |    |
|------|---|-----|----|----|----|
| 3120 | 1 | 120 | 10 | 65 | 10 |
|      | 2 | 120 | 10 | 65 | 10 |
|      | 3 | 120 | 10 | 65 | 10 |
|      | 4 | 120 | 10 | 65 | 10 |
|      | 5 | 120 | 10 | 65 | 10 |
|      | 6 | 120 | 10 | 65 | 10 |

mit Handschutz

with safety handle / avec manche protective / con mango protector

| No.     | Ø | mm  |    | g  |    |
|---------|---|-----|----|----|----|
| 3120 HS | 1 | 120 | 10 | 65 | 10 |
|         | 2 | 120 | 10 | 65 | 10 |
|         | 3 | 120 | 10 | 65 | 10 |
|         | 4 | 120 | 10 | 65 | 10 |
|         | 5 | 120 | 10 | 65 | 10 |
|         | 6 | 120 | 10 | 65 | 10 |

**Durchtreiber**

Drift punch, Poinçon, Punzones



Chrom-Vanadium  
Molybdän  
Lufthärtestahl  
DIN 6458 Form D

| No.  | Ø  | mm  |    | g   |    |
|------|----|-----|----|-----|----|
| 3121 | 1  | 120 | 12 | 85  | 10 |
|      | 2  | 120 | 12 | 85  | 10 |
|      | 3  | 120 | 12 | 85  | 10 |
|      | 4  | 120 | 12 | 90  | 10 |
|      | 5  | 120 | 12 | 90  | 10 |
|      | 6  | 120 | 12 | 90  | 10 |
|      | 7  | 120 | 12 | 95  | 10 |
|      | 8  | 120 | 12 | 95  | 10 |
|      | 9  | 120 | 12 | 100 | 10 |
|      | 10 | 120 | 12 | 105 | 10 |
|      | 12 | 150 | 16 | 22  | 10 |

mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | Ø  | mm  |    | g   |    |
|---------|----|-----|----|-----|----|
| 3121 SB | 1  | 120 | 12 | 85  | 10 |
|         | 2  | 120 | 12 | 85  | 10 |
|         | 3  | 120 | 12 | 85  | 10 |
|         | 4  | 120 | 12 | 90  | 10 |
|         | 5  | 120 | 12 | 90  | 10 |
|         | 6  | 120 | 12 | 90  | 10 |
|         | 7  | 120 | 12 | 95  | 10 |
|         | 8  | 120 | 12 | 95  | 10 |
|         | 9  | 120 | 12 | 100 | 10 |
|         | 10 | 120 | 12 | 105 | 10 |
|         | 12 | 150 | 16 | 22  | 10 |



### Durchtreiber mit hohler Spitze

Drift punch, Poinçon, Punzones



Chrom-Vanadium  
Molybdän  
Lufthärtestahl  
DIN 6458 Form B  
DIN 6458 Form D

| No.  | Ø | mm  |    |    |    |
|------|---|-----|----|----|----|
| 3122 | 1 | 120 | 10 | 65 | 10 |
|      | 2 | 120 | 10 | 65 | 10 |
|      | 3 | 120 | 10 | 65 | 10 |
|      | 4 | 120 | 10 | 65 | 10 |
|      | 5 | 120 | 10 | 65 | 10 |
|      | 6 | 120 | 10 | 65 | 10 |

### mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | Ø | mm  |    |    |    |
|---------|---|-----|----|----|----|
| 3122 SB | 1 | 120 | 10 | 65 | 10 |
|         | 2 | 120 | 10 | 65 | 10 |
|         | 3 | 120 | 10 | 65 | 10 |
|         | 4 | 120 | 10 | 65 | 10 |
|         | 5 | 120 | 10 | 65 | 10 |
|         | 6 | 120 | 10 | 65 | 10 |

**Bei padre®-Splinttreibern selbstverständlich: Alle Dorne werden mit Minustoleranzen gefertigt. Deshalb gibt es beim Austreiben von Stiften und Bolzen kein Verkleben in den Bohrungen.**

A matter of course for padre® pin punches: all punches are manufactured with permissible minimum tolerances. It is thus impossible that pins or bolts to be punched out will get stuck in the borings.

Pour tous les chasse-goupilles padre® une évidence: toutes les broches sont fabriquées avec des tolérances minimales. C'est pourquoi pas de blocage dans les trous lorsqu'on veut sortir des goupilles ou des chevilles.

Para todas las punzonas para grupilla padre® es evidente: Todos los pinchos son producidos con tolerancias mínimas. Por eso no hay bloqueación en el expulsar de clavija.

### Splinttreiber

Pin Punch

Chasse-goupilles

Punzonas para grupilla



Chrom-Vanadium  
Molybdän  
Lufthärtestahl

DIN 6450 Form C

| No.  | Ø   | mm  | mm |    |     |    |
|------|-----|-----|----|----|-----|----|
| 3130 | 2   | 150 | 35 | 10 | 60  | 10 |
|      | 2,5 | 150 | 40 | 10 | 60  | 10 |
|      | 3   | 150 | 40 | 10 | 60  | 10 |
|      | 3,5 | 150 | 40 | 10 | 65  | 10 |
|      | 4   | 150 | 50 | 10 | 65  | 10 |
|      | 4,5 | 150 | 50 | 10 | 65  | 10 |
|      | 5   | 150 | 50 | 10 | 65  | 10 |
|      | 6   | 150 | 50 | 10 | 70  | 10 |
|      | 7   | 150 | 55 | 12 | 95  | 10 |
|      | 8   | 150 | 55 | 12 | 100 | 10 |
|      | 9   | 150 | 55 | 12 | 110 | 10 |
|      | 10  | 150 | 55 | 12 | 115 | 10 |
|      | 12  | 150 | 55 | 16 | 170 | 10 |

### mit Handschutz

with safety handle / avec manche protective / con mango protector



| No.     | Ø   | mm  | mm |    |    |    |
|---------|-----|-----|----|----|----|----|
| 3130 HS | 2   | 150 | 35 | 10 | 60 | 10 |
|         | 2,5 | 150 | 40 | 10 | 60 | 10 |
|         | 3   | 150 | 40 | 10 | 60 | 10 |
|         | 3,5 | 150 | 40 | 10 | 65 | 10 |
|         | 4   | 150 | 50 | 10 | 65 | 10 |
|         | 4,5 | 150 | 50 | 10 | 65 | 10 |
|         | 5   | 150 | 50 | 10 | 65 | 10 |
|         | 6   | 150 | 50 | 10 | 70 | 10 |

| No.     | Ø   | mm  | mm |    | g   |    |
|---------|-----|-----|----|----|-----|----|
| 3130 SB | 2   | 150 | 35 | 10 | 60  | 10 |
|         | 2,5 | 150 | 40 | 10 | 60  | 10 |
|         | 3   | 150 | 40 | 10 | 60  | 10 |
|         | 3,5 | 150 | 40 | 10 | 65  | 10 |
|         | 4   | 150 | 50 | 10 | 65  | 10 |
|         | 4,5 | 150 | 50 | 10 | 65  | 10 |
|         | 5   | 150 | 50 | 10 | 65  | 10 |
|         | 6   | 150 | 50 | 10 | 70  | 10 |
|         | 7   | 150 | 55 | 12 | 95  | 10 |
|         | 8   | 150 | 55 | 12 | 100 | 10 |
|         | 9   | 150 | 55 | 12 | 110 | 10 |
|         | 10  | 150 | 55 | 12 | 115 | 10 |
|         | 12  | 150 | 55 | 16 | 170 | 10 |

**Splinttreiber mit SB-Aufhänger**

Pin Punch with SB-Holder

Chasse-goupilles avec SB-Poches

Punzonas para grupilla con SB-Bolsas

Chrom-Vanadium  
Molybdän  
Lufthärtestahl

DIN 6450 Form C



| No.  | Ø  | mm  | mm |    | g   |    |
|------|----|-----|----|----|-----|----|
| 3132 | 3  | 175 | 80 | 10 | 60  | 10 |
|      | 4  | 175 | 80 | 10 | 70  | 10 |
|      | 5  | 175 | 80 | 10 | 80  | 10 |
|      | 6  | 175 | 80 | 10 | 90  | 10 |
|      | 8  | 175 | 80 | 12 | 140 | 10 |
|      | 10 | 175 | 80 | 12 | 150 | 10 |

**Splinttreiber**

Pin Punch

Chasse-goupilles

Punzonas para grupilla

Chrom-Vanadium  
Molybdän  
Lufthärtestahl

| No.     | Ø | mm  | mm |    | g  |    |
|---------|---|-----|----|----|----|----|
| 3132 HS | 3 | 175 | 80 | 10 | 60 | 10 |
|         | 4 | 175 | 80 | 10 | 70 | 10 |
|         | 5 | 175 | 80 | 10 | 80 | 10 |
|         | 6 | 175 | 80 | 10 | 90 | 10 |

**mit Handschutz**

with safety handle / avec manche protective / con mango protector



| No.     | Ø  | mm  | mm |    | g   |    |
|---------|----|-----|----|----|-----|----|
| 3132 SB | 3  | 175 | 80 | 10 | 60  | 10 |
|         | 4  | 175 | 80 | 10 | 70  | 10 |
|         | 5  | 175 | 80 | 10 | 80  | 10 |
|         | 6  | 175 | 80 | 10 | 90  | 10 |
|         | 8  | 175 | 80 | 12 | 140 | 10 |
|         | 10 | 175 | 80 | 12 | 150 | 10 |

**mit SB-Aufhänger**

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.  | Ø  | mm  | mm |    | g   |    |
|------|----|-----|----|----|-----|----|
| 3133 | 2  | 200 | 40 | 10 | 82  | 10 |
|      | 3  | 200 | 50 | 10 | 90  | 10 |
|      | 4  | 200 | 55 | 10 | 92  | 10 |
|      | 5  | 200 | 55 | 10 | 96  | 10 |
|      | 6  | 200 | 55 | 12 | 100 | 10 |
|      | 8  | 200 | 55 | 12 | 150 | 10 |
|      | 10 | 200 | 55 | 12 | 165 | 10 |

**Splinttreiber extra lang**

Pin Punch extra long

Chasse-goupilles extra long

Punzonas para grupilla

Chrom-Vanadium  
Molybdän  
Lufthärtestahl

| No.     | Ø | mm  | mm |    | g   |    |
|---------|---|-----|----|----|-----|----|
| 3133 HS | 2 | 200 | 40 | 10 | 82  | 10 |
|         | 3 | 200 | 50 | 10 | 90  | 10 |
|         | 4 | 200 | 55 | 10 | 92  | 10 |
|         | 5 | 200 | 55 | 10 | 96  | 10 |
|         | 6 | 200 | 55 | 10 | 100 | 10 |

**mit Handschutz**

with safety handle / avec manche protective / con mango protector



### Splinttreiber extra lang mit SB-Aufhänger

Pin Punch extra long with SB-Holder  
Chasse-goupilles extra long avec SB-Poches  
Punzonas para grupilla con SB-Bolsas



Chrom-Vanadium  
Molybdän  
Lufthärtestahl



| No.     | Ø  | mm  | mm | mm | g   |    |
|---------|----|-----|----|----|-----|----|
| 3133 SB | 2  | 200 | 40 | 10 | 82  | 10 |
|         | 3  | 200 | 50 | 10 | 90  | 10 |
|         | 4  | 200 | 55 | 10 | 92  | 10 |
|         | 5  | 200 | 55 | 10 | 96  | 10 |
|         | 6  | 200 | 55 | 12 | 100 | 10 |
|         | 8  | 200 | 55 | 12 | 150 | 10 |
|         | 10 | 200 | 55 | 12 | 165 | 10 |

### Splinttreiber

Pin Punch, Chasse-goupilles, Punzonas para grupilla



#### mit Handschutz

with safety handle / avec manche protective / con mango protector



#### mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.  | Ø | mm  | Ø   | mm | mm | g  |    |
|------|---|-----|-----|----|----|----|----|
| 3135 | 4 | 175 | 2,7 | 85 | 10 | 60 | 10 |
|      | 6 | 175 | 3,8 | 85 | 10 | 70 | 10 |

| No.     | Ø | mm  | Ø   | mm | mm | g  |    |
|---------|---|-----|-----|----|----|----|----|
| 3135 HS | 4 | 175 | 2,7 | 85 | 10 | 60 | 10 |
|         | 6 | 175 | 3,8 | 85 | 10 | 70 | 10 |

| No.     | Ø | mm  | Ø   | mm | mm | g  |    |
|---------|---|-----|-----|----|----|----|----|
| 3135 SB | 4 | 175 | 2,7 | 85 | 10 | 60 | 10 |
|         | 6 | 175 | 3,8 | 85 | 10 | 70 | 10 |

### Splinttreibersatz mit Führungshülse in Plastiktasche

Pin Punches with sliding sleeve in plastic pouch  
Chasse Goupilles à manchon de guidage, trousse plastique  
Punzones para grupilla con guía en caja de metal



| No.  | Inhalt | Ø   | mm  | Ø  | g   |   |
|------|--------|-----|-----|----|-----|---|
| 6393 | 6392   |     |     |    | 240 | 5 |
|      |        | 0,9 | 70  | 5  |     |   |
|      |        | 1,4 | 80  | 6  |     |   |
|      |        | 1,8 | 83  | 6  |     |   |
|      |        | 2,4 | 92  | 7  |     |   |
|      |        | 2,8 | 94  | 7  |     |   |
|      |        | 3,4 | 100 | 8  |     |   |
|      |        | 3,9 | 100 | 8  |     |   |
|      |        | 5,9 | 115 | 12 |     |   |

### Splinttreiber mit Führungshülse

Pin Punches with sliding sleeve  
Chasse Goupilles à manchon de guidage  
Punzones para grupilla con guía



| No.  | Ø   | mm  | Ø  | g  |    |
|------|-----|-----|----|----|----|
| 6392 | 0,9 | 70  | 5  | 15 | 10 |
|      | 1,4 | 80  | 6  | 21 | 10 |
|      | 1,8 | 83  | 6  | 21 | 10 |
|      | 2,4 | 92  | 7  | 30 | 10 |
|      | 2,8 | 94  | 7  | 30 | 10 |
|      | 3,4 | 100 | 8  | 35 | 10 |
|      | 3,9 | 100 | 8  | 35 | 10 |
|      | 5,9 | 115 | 12 | 68 | 10 |

| No.  | Inhalt                                                                              | Maß      |  |  |
|------|-------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|      | 3090                                                                                | 150x12   |                                                                                   |                                                                                   |
|      | 3100                                                                                | 125x10   |                                                                                   |                                                                                   |
|      | 3110                                                                                | 120x10   |                                                                                   |                                                                                   |
|      | 3130                                                                                | 150x10x4 |                                                                                   |                                                                                   |
|      | 3120                                                                                | 120x10x3 |                                                                                   |                                                                                   |
|      | 3121                                                                                | 120x12x5 |                                                                                   |                                                                                   |
| 3140 | In Blechklappkassette,<br>In Metal Case,<br>En caisse de métal,<br>En caja de metal |          | 740                                                                               | 5                                                                                 |
| 3150 | In Plastiktasche,<br>In Plastic Pouch<br>Ou trousse plastique,<br>Bolsa de plastico |          | 510                                                                               | 5                                                                                 |
| 3151 | In Kunststoffständer,<br>In Plastic Stand<br>En stand plastic,<br>En caja plastico  |          | 510                                                                               | 5                                                                                 |

| No.    | Inhalt                                                                              | Maß       |  |  |
|--------|-------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|        | 3130                                                                                | 150x10x3  |                                                                                   |                                                                                   |
|        | 3130                                                                                | 150x10x4  |                                                                                   |                                                                                   |
|        | 3130                                                                                | 150x10x5  |                                                                                   |                                                                                   |
|        | 3130                                                                                | 150x10x6  |                                                                                   |                                                                                   |
|        | 3130                                                                                | 150x12x8  |                                                                                   |                                                                                   |
|        | 3130                                                                                | 150x12x10 |                                                                                   |                                                                                   |
| 3160   | In Blechklappkassette,<br>In Metal Case,<br>En caisse de métal,<br>En caja de metal |           | 750                                                                               | 5                                                                                 |
| 3160 F | In Blechklappkassette,<br>In Metal Case,<br>En caisse de métal,<br>En caja de metal |           | 750                                                                               | 5                                                                                 |
| 3170   | In Plastiktasche,<br>In Plastic Pouch<br>Ou trousse plastique,<br>Bolsa de plastico |           | 470                                                                               | 5                                                                                 |
| 3171   | In Kunststoffständer,<br>In Plastic Stand<br>En stand plastic,<br>En caja plastico  |           | 470                                                                               | 5                                                                                 |

| No.  | Inhalt                                                                              | Maß      |  |  |
|------|-------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|      | 3120                                                                                | 120x10x1 |                                                                                     |                                                                                     |
|      | 3120                                                                                | 120x10x2 |                                                                                     |                                                                                     |
|      | 3120                                                                                | 120x10x3 |                                                                                     |                                                                                     |
|      | 3121                                                                                | 120x12x4 |                                                                                     |                                                                                     |
|      | 3121                                                                                | 120x12x5 |                                                                                     |                                                                                     |
|      | 3110                                                                                | 120x10   |                                                                                     |                                                                                     |
| 3180 | In Blechklappkassette,<br>In Metal Case,<br>En caisse de métal,<br>En caja de metal |          | 710                                                                                 | 5                                                                                   |
| 3190 | In Plastiktasche,<br>In Plastic Pouch<br>Ou trousse plastique,<br>Bolsa de plastico |          | 465                                                                                 | 5                                                                                   |
| 3191 | In Kunststoffständer,<br>In Plastic Stand<br>En stand plastic,<br>En caja plastico  |          | 465                                                                                 | 5                                                                                   |

**Kombinierter Werkzeugsatz 6-tlg.**Combined Tool-Set 6 pcs., Jeu d'outils combiné 6-pcs.,  
Juego combinado de herramientas 6 pza.

3140



3150



3151

**Splinttreibersatz 6-tlg.**Pin Punch Set 6-pcs., Jeu de chasse goupilles 6-pcs.,  
Juego de punzones para grupilla 6-pza.

3160



3170



3160 F



3171

**Durchtreibersatz 6-tlg.**Drift Punch Set 6-pcs., Jeu de poinçon 6-pcs.,  
Juego de punzones 6 piezas

3180



3190



3191



### Maurermeissel

Mason chisel, Ciseau de maçon  
Cinceles de canteros



DIN 7254 Form A  
Chrom-Vanadium  
Lufthärtestahl



| No.         | mm          | mm    | mm | g    |    |
|-------------|-------------|-------|----|------|----|
| <b>4000</b> | <b>200</b>  | 20x12 | 27 | 310  | 10 |
|             | <b>250</b>  | 20x12 | 27 | 400  | 10 |
|             | <b>300</b>  | 23x13 | 31 | 580  | 10 |
|             | <b>350</b>  | 23x13 | 31 | 720  | 10 |
|             | <b>400</b>  | 23x13 | 31 | 800  | 5  |
|             | <b>500</b>  | 26x13 | 33 | 1160 | 5  |
|             | <b>600</b>  | 26x13 | 33 | 1400 | 3  |
|             | <b>800</b>  | 26x13 | 33 | 1860 | 3  |
|             | <b>1000</b> | 26x13 | 33 | 2360 | 3  |

### mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.            | mm          | mm    | mm | g    |    |
|----------------|-------------|-------|----|------|----|
| <b>4000 SB</b> | <b>200</b>  | 20x12 | 27 | 310  | 10 |
|                | <b>250</b>  | 20x12 | 27 | 400  | 10 |
|                | <b>300</b>  | 23x13 | 31 | 580  | 10 |
|                | <b>350</b>  | 23x13 | 31 | 720  | 10 |
|                | <b>400</b>  | 23x13 | 31 | 800  | 5  |
|                | <b>500</b>  | 26x13 | 33 | 1160 | 5  |
|                | <b>600</b>  | 26x13 | 33 | 1400 | 3  |
|                | <b>800</b>  | 26x13 | 33 | 1860 | 3  |
|                | <b>1000</b> | 26x13 | 33 | 2360 | 3  |

### mit Handschutz

with safety handle / avec manche protective / con mango protector



| No.            | mm          | mm    | mm | g    |    |
|----------------|-------------|-------|----|------|----|
| <b>4000 HS</b> | <b>200</b>  | 20x12 | 27 | 310  | 10 |
|                | <b>250</b>  | 20x12 | 27 | 400  | 10 |
|                | <b>300</b>  | 23x13 | 31 | 580  | 10 |
|                | <b>350</b>  | 23x13 | 31 | 720  | 10 |
|                | <b>400</b>  | 23x13 | 31 | 800  | 5  |
|                | <b>500</b>  | 26x13 | 33 | 1160 | 5  |
|                | <b>600</b>  | 26x13 | 33 | 1400 | 3  |
|                | <b>800</b>  | 26x13 | 33 | 1860 | 3  |
|                | <b>1000</b> | 26x13 | 33 | 2360 | 3  |

### Maurermeissel

Mason chisel, Ciseau de maçon  
Cinceles de canteros



DIN 7254 Form B  
Chrom-Vanadium  
Lufthärtestahl



| No.         | mm         | mm | mm | g    |    |
|-------------|------------|----|----|------|----|
| <b>4010</b> | <b>200</b> | 16 | 27 | 310  | 10 |
|             | <b>250</b> | 16 | 27 | 400  | 10 |
|             | <b>300</b> | 18 | 30 | 580  | 10 |
|             | <b>350</b> | 18 | 30 | 720  | 10 |
|             | <b>400</b> | 20 | 30 | 800  | 5  |
|             | <b>500</b> | 20 | 30 | 1160 | 5  |

### mit Handschutz

with safety handle / avec manche protective / con mango protector



| No.            | mm         | mm | mm | g    |    |
|----------------|------------|----|----|------|----|
| <b>4010 HS</b> | <b>200</b> | 16 | 27 | 310  | 10 |
|                | <b>250</b> | 16 | 27 | 400  | 10 |
|                | <b>300</b> | 18 | 30 | 580  | 10 |
|                | <b>350</b> | 18 | 30 | 720  | 10 |
|                | <b>400</b> | 20 | 30 | 800  | 5  |
|                | <b>500</b> | 20 | 30 | 1160 | 5  |

### mit Handschutz „Profi“

with safety handle "Profi" / avec manche protective „Profi“ /  
con mango protector „Profi“



| No.            | mm         | mm    | mm   | g    |    |
|----------------|------------|-------|------|------|----|
| <b>4000 HP</b> | <b>300</b> | 23x13 | 31   | 580  | 10 |
|                | <b>350</b> | 23x13 | 31   | 720  | 10 |
|                | <b>400</b> | 23x13 | 31   | 800  | 5  |
|                | <b>500</b> | 26x13 | 33   | 1160 | 5  |
|                | <b>600</b> | 26x13 | 33   | 1400 | 3  |
|                | <b>800</b> | 26x13 | 33   | 1860 | 3  |
| <b>1000</b>    | 26x13      | 33    | 2360 | 3    |    |

mit Handschutz „Profi“

with safety handle "Profi" / avec manche protective „Profi“ /  
con mango protector „Profi“

| No.     | mm  | mm | mm | g   |    |
|---------|-----|----|----|-----|----|
| 4010 HP | 300 | 18 | 30 | 580 | 10 |
|         | 350 | 18 | 30 | 720 | 10 |

mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  | mm | mm | g    |    |
|---------|-----|----|----|------|----|
| 4010 SB | 200 | 16 | 27 | 310  | 10 |
|         | 250 | 16 | 27 | 400  | 10 |
|         | 300 | 18 | 30 | 580  | 10 |
|         | 350 | 18 | 30 | 720  | 10 |
|         | 400 | 20 | 30 | 800  | 5  |
|         | 500 | 20 | 30 | 1160 | 5  |

Fugenmeissel

Jointing chisel, Ecartoir  
Cinzel pala anchaChrom-Vanadium  
Lufthärtestahl

| No.  | mm  | mm | mm | g   |    |
|------|-----|----|----|-----|----|
| 4015 | 250 | 18 | 25 | 420 | 10 |

mit Handschutz

with safety handle / avec manche protective / con mango protector



| No.     | mm  | mm | mm | g   |    |
|---------|-----|----|----|-----|----|
| 4015 HS | 250 | 18 | 25 | 420 | 10 |

mit Handschutz „Profi“

with safety handle "Profi" / avec manche protective „Profi“ /  
con mango protector „Profi“

| No.     | mm  | mm | mm | g   |    |
|---------|-----|----|----|-----|----|
| 4015 HP | 250 | 18 | 25 | 420 | 10 |

mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  | mm | mm | g   |    |
|---------|-----|----|----|-----|----|
| 4015 SB | 250 | 18 | 25 | 420 | 10 |

Spitzmeissel

Pointed Chisel, Ciseau pointu  
Cinceles puntiagudos de canterosDIN 7256  
Chrom-Vanadium  
Lufthärtestahl

| No.  | mm   | mm | mm | g    |    |
|------|------|----|----|------|----|
| 4020 | 200  | 16 |    | 280  | 10 |
|      | 250  | 16 |    | 360  | 10 |
|      | 300  | 18 |    | 560  | 10 |
|      | 350  | 18 |    | 660  | 10 |
|      | 400  | 20 |    | 940  | 5  |
|      | 500  | 20 |    | 1200 | 5  |
|      | 600  | 20 |    | 1480 | 3  |
|      | 800  | 20 |    | 1960 | 3  |
|      | 1000 | 20 |    | 2440 | 3  |

mit Handschutz

with safety handle  
avec manche protective  
con mango protector

| No.     | mm   | mm | mm | g    |    |
|---------|------|----|----|------|----|
| 4020 HS | 200  | 16 |    | 280  | 10 |
|         | 250  | 16 |    | 360  | 10 |
|         | 300  | 18 |    | 560  | 10 |
|         | 350  | 18 |    | 660  | 10 |
|         | 400  | 20 |    | 940  | 5  |
|         | 500  | 20 |    | 1200 | 5  |
|         | 600  | 20 |    | 1480 | 3  |
|         | 800  | 20 |    | 1960 | 3  |
|         | 1000 | 20 |    | 2440 | 3  |

mit Handschutz „Profi“

with safety handle "Profi"  
avec manche protective „Profi“  
con mango protector „Profi“

| No.     | mm  | mm | mm | g   |    |
|---------|-----|----|----|-----|----|
| 4020 HP | 300 | 18 |    | 560 | 10 |
|         | 350 | 18 |    | 660 | 10 |

### Spitzmeissel mit SB-Aufhänger

Pointed Chisel with SB-Holder  
Ciseau pointu avec SB-Poches  
Cinceles puntiagudos de canteros  
con SB-Bolsas



DIN 7256  
Chrom-Vanadium  
Lufthärtestahl



| No.     | mm   |    |  | g    |    |
|---------|------|----|--|------|----|
| 4020 SB | 200  | 16 |  | 280  | 10 |
|         | 250  | 16 |  | 360  | 10 |
|         | 300  | 18 |  | 560  | 10 |
|         | 350  | 18 |  | 660  | 10 |
|         | 400  | 20 |  | 940  | 5  |
|         | 500  | 20 |  | 1200 | 5  |
|         | 600  | 20 |  | 1480 | 3  |
|         | 800  | 20 |  | 1960 | 3  |
|         | 1000 | 20 |  | 2440 | 3  |

### Elektrikermeissel

Electrician's chisel  
Ciseau pour électricien,  
Cinceles para electricistas



Chrom-Vanadium  
Lufthärtestahl



| No.  | mm  |    | mm | g   |    |
|------|-----|----|----|-----|----|
| 4030 | 200 | 6  | 8  | 60  | 10 |
|      | 200 | 8  | 10 | 100 | 10 |
|      | 200 | 8  | 12 | 101 | 10 |
|      | 200 | 10 | 12 | 140 | 10 |
|      | 250 | 8  | 10 | 120 | 10 |
|      | 250 | 8  | 12 | 120 | 10 |
|      | 250 | 10 | 12 | 185 | 10 |
|      | 300 | 8  | 12 | 140 | 10 |

### mit Handschutz

with safety handle / avec manche protective / con mango protector



| No.     | mm  |    | mm | g   |    |
|---------|-----|----|----|-----|----|
| 4030 HS | 200 | 10 | 12 | 140 | 10 |
|         | 250 | 10 | 12 | 185 | 10 |

### mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  |    | mm | g   |    |
|---------|-----|----|----|-----|----|
| 4030 SB | 200 | 8  | 10 | 100 | 10 |
|         | 200 | 8  | 12 | 101 | 10 |
|         | 200 | 10 | 12 | 140 | 10 |
|         | 250 | 8  | 10 | 120 | 10 |
|         | 250 | 8  | 12 | 120 | 10 |
|         | 250 | 10 | 12 | 185 | 10 |
|         | 300 | 8  | 12 | 140 | 10 |

### Elektrikermeissel

Electrician's chisel  
Ciseau pour électricien,  
Cinceles para electricistas



Chrom-Vanadium  
Lufthärtestahl



| No.  | mm  |    | mm | g   |    |
|------|-----|----|----|-----|----|
| 4031 | 200 | 10 | 12 | 120 | 10 |
|      | 200 | 12 | 14 | 160 | 10 |
|      | 250 | 10 | 12 | 150 | 10 |
|      | 250 | 12 | 14 | 210 | 10 |
|      | 300 | 10 | 12 | 200 | 10 |
|      | 300 | 12 | 14 | 260 | 10 |

### mit Handschutz

with safety handle / avec manche protective / con mango protector



| No.     | mm  |    | mm | g   |    |
|---------|-----|----|----|-----|----|
| 4031 HS | 200 | 10 | 12 | 120 | 10 |
|         | 250 | 10 | 12 | 150 | 10 |
|         | 300 | 10 | 12 | 200 | 10 |

### mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  |    | mm | g   |    |
|---------|-----|----|----|-----|----|
| 4031 SB | 200 | 10 | 12 | 120 | 10 |
|         | 200 | 12 | 14 | 160 | 10 |
|         | 250 | 10 | 12 | 150 | 10 |
|         | 250 | 12 | 14 | 210 | 10 |
|         | 300 | 10 | 12 | 200 | 10 |
|         | 300 | 12 | 14 | 260 | 10 |

**Schlitz-oder Karosseriemeissel**

Jointing or carbody chisel, Ciseau pour jointer ou de carrossier, Cincel chapista

Chrom-Vanadium  
Lufthärtestahl

| No.  | mm  | mm   | mm | g   |    |
|------|-----|------|----|-----|----|
| 4040 | 230 | 26x7 | 26 | 285 | 10 |

**mit Handschutz**with safety handle  
avec manche protective  
con mango protector

| No.     | mm  | mm   | mm | g   |    |
|---------|-----|------|----|-----|----|
| 4040 HS | 230 | 26x7 | 26 | 285 | 10 |

mit Handschutz „Profi“  
with safety handle „Profi“  
avec manche protective  
„Profi“  
con mango protector  
„Profi“

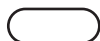
| No.     | mm  | mm   | mm | g   |    |
|---------|-----|------|----|-----|----|
| 4040 HP | 230 | 26x7 | 26 | 285 | 10 |

**mit SB-Aufhänger**

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  | mm   | mm | g   |    |
|---------|-----|------|----|-----|----|
| 4040 SB | 230 | 26x7 | 26 | 285 | 10 |

**Fugenmeissel**Jointing chisel, Ecartoir  
Cincel pala anchaDIN 7256  
Chrom-Vanadium  
Lufthärtestahl

| No.  | mm | mm  | mm    | g   |    |
|------|----|-----|-------|-----|----|
| 4045 | 50 | 250 | 23x13 | 500 | 10 |
|      | 60 | 250 | 26x13 | 550 | 10 |
|      | 70 | 250 | 26x13 | 580 | 10 |

**mit Handschutz**with safety handle  
avec manche protective  
con mango protector

| No.     | mm | mm  | mm    | g   |    |
|---------|----|-----|-------|-----|----|
| 4045 HS | 50 | 250 | 23x13 | 500 | 10 |
|         | 60 | 250 | 26x13 | 550 | 10 |
|         | 70 | 250 | 26x13 | 580 | 10 |

**mit Handschutz „Profi“**with safety handle „Profi“  
avec manche protective „Profi“  
con mango protector „Profi“

| No.     | mm | mm  | mm    | g   |    |
|---------|----|-----|-------|-----|----|
| 4045 HP | 50 | 250 | 23x13 | 500 | 10 |
|         | 60 | 250 | 26x13 | 550 | 10 |
|         | 70 | 250 | 26x13 | 580 | 10 |

**mit SB-Aufhänger**

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm | mm  | mm    | g   |    |
|---------|----|-----|-------|-----|----|
| 4045 SB | 50 | 250 | 23x13 | 500 | 10 |
|         | 60 | 250 | 26x13 | 550 | 10 |
|         | 70 | 250 | 26x13 | 580 | 10 |

**Fliesenflachmeissel**Tiler's flat chisel, Burin pour dallier plat  
Cinceles para baldosa, planosChrom-Vanadium  
Lufthärtestahl

| No.  | mm  | mm | mm | g  |    |
|------|-----|----|----|----|----|
| 4050 | 100 | 8  | 10 | 40 | 10 |

**mit SB-Aufhänger**

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  | mm | mm | g  |    |
|---------|-----|----|----|----|----|
| 4050 SB | 100 | 8  | 10 | 40 | 10 |



### Fliesenspitzmeissel

Tiler's pointed chisel,  
Burin pour dallier pointu,  
Cinceles para baldosa, puntiagudos



Chrom-Vanadium  
Lufthärtestahl



| No.  | mm  |    |  | g   |    |
|------|-----|----|--|-----|----|
| 4060 | 100 | 8  |  | 40  | 10 |
|      | 200 | 6  |  | 60  | 10 |
|      | 200 | 8  |  | 100 | 10 |
|      | 250 | 8  |  | 120 | 10 |
|      | 250 | 10 |  | 180 | 10 |

### Fliesenspitzmeissel mit Handschutz

Tiler's pointed chisel with safety handle,  
Burin pour dallier pointu avec manche protective,  
Cinceles para baldosa con mango protector, puntiagudos

| No.     | mm  |    |  | g   |    |
|---------|-----|----|--|-----|----|
| 4060 HS | 250 | 10 |  | 180 | 10 |

### mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas

| No.     | mm  |    |  | g   |    |
|---------|-----|----|--|-----|----|
| 4060 SB | 100 | 8  |  | 40  | 10 |
|         | 200 | 6  |  | 60  | 10 |
|         | 200 | 8  |  | 100 | 10 |
|         | 250 | 8  |  | 120 | 10 |
|         | 250 | 10 |  | 180 | 10 |



### Flachmeissel

Flat chisel, Burins plats,  
Cinceles planos



DIN 6453  
Chrom-Vanadium  
Lufthärtestahl



| No.  | mm  |       | mm | g   |    |
|------|-----|-------|----|-----|----|
| 4070 | 100 | 14x9  | 18 | 80  | 10 |
|      | 125 | 14x9  | 18 | 100 | 10 |
|      | 150 | 17x11 | 21 | 180 | 10 |
|      | 175 | 20x12 | 24 | 280 | 10 |
|      | 200 | 23x13 | 28 | 380 | 5  |
|      | 250 | 23x13 | 28 | 500 | 5  |
|      | 300 | 23x13 | 31 | 600 | 3  |

### mit Handschutz

with safety handle / avec manche protective / con mango protector



| No.     | mm  |       | mm | g   |   |
|---------|-----|-------|----|-----|---|
| 4070 HS | 200 | 23x13 | 28 | 380 | 5 |
|         | 250 | 23x13 | 28 | 500 | 5 |
|         | 300 | 23x13 | 31 | 600 | 3 |

### mit Handschutz „Profi“

with safety handle "Profi" / avec manche protective „Profi“ /  
con mango protector „Profi“



| No.     | mm  |       | mm | g   |   |
|---------|-----|-------|----|-----|---|
| 4070 HP | 200 | 23x13 | 28 | 380 | 5 |
|         | 250 | 23x13 | 28 | 500 | 5 |
|         | 300 | 23x13 | 31 | 600 | 3 |

### mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  |       | mm | g   |    |
|---------|-----|-------|----|-----|----|
| 4070 SB | 100 | 14x9  | 18 | 80  | 10 |
|         | 125 | 14x9  | 18 | 100 | 10 |
|         | 150 | 17x11 | 21 | 180 | 10 |
|         | 175 | 20x12 | 24 | 280 | 10 |
|         | 200 | 23x13 | 28 | 380 | 5  |
|         | 250 | 23x13 | 28 | 500 | 5  |
|         | 300 | 23x13 | 31 | 600 | 3  |

**Kreuzmeissel**Cape chisel, Ciseau croix,  
Cinceles agudosDIN 6451  
Chrom-Vanadium  
Lufthärtestahl

| No.  | mm  | mm    | mm | g   |    |
|------|-----|-------|----|-----|----|
| 4080 | 100 | 14x9  | 5  | 60  | 10 |
|      | 125 | 14x9  | 5  | 80  | 10 |
|      | 150 | 17x11 | 6  | 160 | 10 |
|      | 175 | 20x12 | 7  | 240 | 10 |
|      | 200 | 23x13 | 8  | 340 | 10 |
|      | 250 | 23x13 | 8  | 460 | 10 |
|      | 300 | 23x13 | 9  | 560 | 10 |

**mit Handschutz**with safety handle  
avec manche protective  
con mango protector

| No.     | mm  | mm    | mm | g   |    |
|---------|-----|-------|----|-----|----|
| 4080 HS | 250 | 23x13 | 8  | 460 | 10 |
|         | 300 | 23x13 | 9  | 560 | 10 |

**mit Handschutz „Profi“**with safety handle "Profi"  
avec manche protective „Profi“  
con mango protector „Profi“

| No.     | mm  | mm    | mm | g   |    |
|---------|-----|-------|----|-----|----|
| 4080 HP | 250 | 23x13 | 8  | 460 | 10 |
|         | 300 | 23x13 | 9  | 560 | 10 |

**mit SB-Aufhänger**

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  | mm    | mm | g   |    |
|---------|-----|-------|----|-----|----|
| 4080 SB | 100 | 14x9  | 5  | 60  | 10 |
|         | 125 | 14x9  | 5  | 80  | 10 |
|         | 150 | 17x11 | 6  | 160 | 10 |
|         | 175 | 20x12 | 7  | 240 | 10 |
|         | 200 | 23x13 | 8  | 340 | 10 |
|         | 250 | 23x13 | 8  | 460 | 10 |
|         | 300 | 23x13 | 9  | 560 | 10 |

**Flachmeissel**Flat chisel, Burins plats,  
Cinceles planosChrom-Vanadium  
Molybdän  
Lufthärtestahl

| No.  | mm  | mm | mm | g   |    |
|------|-----|----|----|-----|----|
| 4090 | 125 | 10 | 13 | 80  | 10 |
|      | 150 | 12 | 15 | 120 | 10 |

**mit SB-Aufhänger**

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  | mm | mm | g   |    |
|---------|-----|----|----|-----|----|
| 4090 SB | 125 | 10 | 13 | 80  | 10 |
|         | 150 | 12 | 15 | 120 | 10 |

**Beil-Karosseriemeissel**Plugging chisel, Ciseau à rainurer,  
Cinzel para ranurasChrom-Vanadium  
Lufthärtestahl

| No.  | mm  | mm    | mm | g   |    |
|------|-----|-------|----|-----|----|
| 4095 | 250 | 23x13 | 30 | 460 | 10 |

**mit Handschutz**with safety handle  
avec manche protective  
con mango protector

| No.     | mm  | mm    | mm | g   |    |
|---------|-----|-------|----|-----|----|
| 4095 HS | 250 | 23x13 | 30 | 460 | 10 |

**mit Handschutz „Profi“**with safety handle "Profi"  
avec manche protective „Profi“  
con mango protector „Profi“

| No.     | mm  | mm    | mm | g   |    |
|---------|-----|-------|----|-----|----|
| 4095 HP | 250 | 23x13 | 30 | 460 | 10 |

**mit SB-Aufhänger**

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  | mm    | mm | g   |    |
|---------|-----|-------|----|-----|----|
| 4095 SB | 250 | 23x13 | 30 | 460 | 10 |

### Kreuzmeissel

Cape chisel, Ciseau croix,  
Cinceles agudos



Chrom-Vanadium  
Molybdän  
Lufttärtstahl



| No.  | mm  | mm | mm | g  |    |
|------|-----|----|----|----|----|
| 4100 | 125 | 10 | 4  | 60 | 10 |

### mit Handschutz

with safety handle  
avec manche protective  
con mango protector



| No.     | mm  | mm | mm | g  |    |
|---------|-----|----|----|----|----|
| 4100 HS | 125 | 10 | 4  | 60 | 10 |

### mit SB-Aufhänger

with SB-Holder  
avec SB-Poches  
con SB-Bolsas



| No.     | mm  | mm | mm | g  |    |
|---------|-----|----|----|----|----|
| 4100 SB | 125 | 10 | 4  | 60 | 10 |

### Körner

Center Punch, Pointeau,  
Punteros

DIN 7250  
Chrom-Vanadium  
Molybdän  
Lufttärtstahl



| No.  | mm  | mm | mm | g   |    |
|------|-----|----|----|-----|----|
| 4110 | 120 | 4  | 10 | 65  | 10 |
|      | 120 | 5  | 12 | 90  | 10 |
|      | 150 | 5  | 12 | 120 | 10 |
|      | 150 | 6  | 14 | 200 | 10 |
|      | 150 | 8  | 18 | 260 | 10 |

### mit Handschutz

with safety handle / avec manche protective / con mango protector



| No.     | mm  | mm | mm | g   |    |
|---------|-----|----|----|-----|----|
| 4110 HS | 120 | 4  | 10 | 65  | 10 |
|         | 150 | 6  | 14 | 200 | 10 |
|         | 150 | 8  | 18 | 260 | 10 |

### mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm  | mm | mm | g   |    |
|---------|-----|----|----|-----|----|
| 4110 SB | 120 | 4  | 10 | 65  | 10 |
|         | 120 | 5  | 12 | 90  | 10 |
|         | 150 | 5  | 12 | 120 | 10 |
|         | 150 | 6  | 14 | 200 | 10 |
|         | 150 | 8  | 18 | 260 | 10 |

### Durchtreiber

Drift punch, Poincon, Punzones



Chrom-Vanadium  
Molybdän  
DIN 6458 Form B  
Lufttärtstahl



| No.  | mm | mm  | mm | g  |    |
|------|----|-----|----|----|----|
| 4120 | 1  | 120 | 10 | 65 | 10 |
|      | 2  | 120 | 10 | 65 | 10 |
|      | 3  | 120 | 10 | 65 | 10 |
|      | 4  | 120 | 10 | 65 | 10 |
|      | 5  | 120 | 10 | 65 | 10 |
|      | 6  | 120 | 10 | 65 | 10 |

### mit Handschutz

with safety handle / avec manche protective / con mango protector



| No.     | mm | mm  | mm | g  |    |
|---------|----|-----|----|----|----|
| 4120 HS | 1  | 120 | 10 | 65 | 10 |
|         | 2  | 120 | 10 | 65 | 10 |
|         | 3  | 120 | 10 | 65 | 10 |
|         | 4  | 120 | 10 | 65 | 10 |
|         | 5  | 120 | 10 | 65 | 10 |
|         | 6  | 120 | 10 | 65 | 10 |

### mit SB-Aufhänger

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | mm | mm  | mm | g  |    |
|---------|----|-----|----|----|----|
| 4120 SB | 1  | 120 | 10 | 65 | 10 |
|         | 2  | 120 | 10 | 65 | 10 |
|         | 3  | 120 | 10 | 65 | 10 |
|         | 4  | 120 | 10 | 65 | 10 |
|         | 5  | 120 | 10 | 65 | 10 |
|         | 6  | 120 | 10 | 65 | 10 |

**Durchtreiber**

Drift punch, Poinçon, Punzones

Chrom-Vanadium  
Molybdän  
Lufthärtestahl

DIN 6458 Form D

| No.  | Ø  | mm  |    | g   |    |
|------|----|-----|----|-----|----|
| 4121 | 1  | 120 | 12 | 85  | 10 |
|      | 2  | 120 | 12 | 85  | 10 |
|      | 3  | 120 | 12 | 85  | 10 |
|      | 4  | 120 | 12 | 90  | 10 |
|      | 5  | 120 | 12 | 90  | 10 |
|      | 6  | 120 | 12 | 90  | 10 |
|      | 7  | 120 | 12 | 95  | 10 |
|      | 8  | 120 | 12 | 95  | 10 |
|      | 9  | 120 | 12 | 100 | 10 |
|      | 10 | 120 | 12 | 105 | 10 |
|      | 12 | 150 | 16 | 22  | 10 |

mit SB-Aufhänger  
with SB-Holder  
avec SB-Poches  
con SB-Bolsas

| No.     | Ø  | mm  |    | g   |    |
|---------|----|-----|----|-----|----|
| 4121 SB | 1  | 120 | 12 | 85  | 10 |
|         | 2  | 120 | 12 | 85  | 10 |
|         | 3  | 120 | 12 | 85  | 10 |
|         | 4  | 120 | 12 | 90  | 10 |
|         | 5  | 120 | 12 | 90  | 10 |
|         | 6  | 120 | 12 | 90  | 10 |
|         | 7  | 120 | 12 | 95  | 10 |
|         | 8  | 120 | 12 | 95  | 10 |
|         | 9  | 120 | 12 | 100 | 10 |
|         | 10 | 120 | 12 | 105 | 10 |
|         | 12 | 150 | 16 | 22  | 10 |

**Durchtreiber mit hohler Spitze**

Drift punch, Poinçon, Punzones

Chrom-Vanadium  
Molybdän  
Lufthärtestahl  
DIN 6458 Form B  
DIN 6458 Form D

| No.  | Ø | mm  |    | g  |    |
|------|---|-----|----|----|----|
| 4122 | 1 | 120 | 10 | 65 | 10 |
|      | 2 | 120 | 10 | 65 | 10 |
|      | 3 | 120 | 10 | 65 | 10 |
|      | 4 | 120 | 10 | 65 | 10 |
|      | 5 | 120 | 10 | 65 | 10 |
|      | 6 | 120 | 10 | 65 | 10 |

**mit SB-Aufhänger**

with SB-Holder / avec SB-Poches / con SB-Bolsas



| No.     | Ø | mm  |    | g  |    |
|---------|---|-----|----|----|----|
| 4122 SB | 1 | 120 | 10 | 65 | 10 |
|         | 2 | 120 | 10 | 65 | 10 |
|         | 3 | 120 | 10 | 65 | 10 |
|         | 4 | 120 | 10 | 65 | 10 |
|         | 5 | 120 | 10 | 65 | 10 |
|         | 6 | 120 | 10 | 65 | 10 |

**Splinttreiber**

Pin Punch

Chasse-goupilles

Punzones para gruppilla

Chrom-Vanadium  
Molybdän  
Lufthärtestahl

DIN 6450 Form C

| No.  | Ø   | mm  | mm |    | g   |    |
|------|-----|-----|----|----|-----|----|
| 4130 | 2   | 150 | 35 | 10 | 60  | 10 |
|      | 2,5 | 150 | 40 | 10 | 60  | 10 |
|      | 3   | 150 | 40 | 10 | 60  | 10 |
|      | 3,5 | 150 | 40 | 10 | 65  | 10 |
|      | 4   | 150 | 50 | 10 | 65  | 10 |
|      | 4,5 | 150 | 50 | 10 | 65  | 10 |
|      | 5   | 150 | 50 | 10 | 65  | 10 |
|      | 6   | 150 | 50 | 10 | 70  | 10 |
|      | 7   | 150 | 55 | 12 | 95  | 10 |
|      | 8   | 150 | 55 | 12 | 100 | 10 |
|      | 9   | 150 | 55 | 12 | 110 | 10 |
|      | 10  | 150 | 55 | 12 | 115 | 10 |
|      | 12  | 150 | 55 | 16 | 170 | 10 |

**mit Handschutz**

with safety handle / avec manche protective / con mango protector



| No.     | Ø   | mm  | mm |    | g  |    |
|---------|-----|-----|----|----|----|----|
| 4130 HS | 2   | 150 | 35 | 10 | 60 | 10 |
|         | 2,5 | 150 | 40 | 10 | 60 | 10 |
|         | 3   | 150 | 40 | 10 | 60 | 10 |
|         | 3,5 | 150 | 40 | 10 | 65 | 10 |
|         | 4   | 150 | 50 | 10 | 65 | 10 |
|         | 4,5 | 150 | 50 | 10 | 65 | 10 |
|         | 5   | 150 | 50 | 10 | 65 | 10 |
|         | 6   | 150 | 50 | 10 | 70 | 10 |



### Splinttreiber mit SB-Aufhänger

Pin Punch with SB-Holder

Chasse-goupilles avec SB-Poches

Punzonas para grupilla con SB-Bolsas



Chrom-Vanadium  
Molybdän  
Lufthärtestahl

DIN 6450 Form C



| No.     | Ø   | mm  | mm |    |     |    |
|---------|-----|-----|----|----|-----|----|
| 4130 SB | 2   | 150 | 35 | 10 | 60  | 10 |
|         | 2,5 | 150 | 40 | 10 | 60  | 10 |
|         | 3   | 150 | 40 | 10 | 60  | 10 |
|         | 3,5 | 150 | 40 | 10 | 65  | 10 |
|         | 4   | 150 | 50 | 10 | 65  | 10 |
|         | 4,5 | 150 | 50 | 10 | 65  | 10 |
|         | 5   | 150 | 50 | 10 | 65  | 10 |
|         | 6   | 150 | 50 | 10 | 70  | 10 |
|         | 7   | 150 | 55 | 12 | 95  | 10 |
|         | 8   | 150 | 55 | 12 | 100 | 10 |
|         | 9   | 150 | 55 | 12 | 110 | 10 |
|         | 10  | 150 | 55 | 12 | 115 | 10 |
|         | 12  | 150 | 55 | 16 | 170 | 10 |

### Kombinierter Werkzeugsatz 6-tlg.

Combined Tool-Set 6 pcs., Jeu d'outils combiné 6-pcs.,

Juego combinado de herramientas 6 pza.



4140



4150



4141

| No.  | Inhalt                                                                              | Maß      |     |   |
|------|-------------------------------------------------------------------------------------|----------|-----|---|
|      | 4090                                                                                | 150x12   |     |   |
|      | 4100                                                                                | 125x10   |     |   |
|      | 4110                                                                                | 120x10   |     |   |
|      | 4130                                                                                | 150x10x4 |     |   |
|      | 4120                                                                                | 120x10x3 |     |   |
|      | 4121                                                                                | 120x12x5 |     |   |
| 4140 | In Blechkloppkassette,<br>In Metal Case,<br>En caisse de métal,<br>En caja de metal |          | 740 | 5 |
| 4150 | In Plastiktasche,<br>In Plastic Pouch<br>Ou trousse plastique,<br>Bolsa de plastico |          | 510 | 5 |
| 4151 | In Kunststoffständer,<br>In Plastic Stand<br>En stand plastic,<br>En caja plastico  |          | 510 | 5 |



| No.  | Inhalt                                                                              | Maß       |  |  |
|------|-------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|      | 4130                                                                                | 150x10x3  |                                                                                   |                                                                                   |
|      | 4130                                                                                | 150x10x4  |                                                                                   |                                                                                   |
|      | 4130                                                                                | 150x10x5  |                                                                                   |                                                                                   |
|      | 4130                                                                                | 150x10x6  |                                                                                   |                                                                                   |
|      | 4130                                                                                | 150x12x8  |                                                                                   |                                                                                   |
|      | 4130                                                                                | 150x12x10 |                                                                                   |                                                                                   |
| 4160 | In Blechklappkassette,<br>In Metal Case,<br>En caisse de métal,<br>En caja de metal |           | 750                                                                               | 5                                                                                 |
| 4170 | In Plastiktasche,<br>In Plastic Pouch<br>Ou trousse plastique,<br>Bolsa de plastico |           | 470                                                                               | 5                                                                                 |
| 4171 | In Kunststoffständer,<br>In Plastic Stand<br>En stand plastic,<br>En caja plastico  |           | 470                                                                               | 5                                                                                 |

**Splinttreibersatz 6-tlg.**

Pin Punch Set 6-pcs., Jeu de chasse goupilles 6-pcs.,  
Juego de punzones para grupilla 6-pza.



4160



4170



4171

| No.  | Inhalt                                                                              | Maß      |  |  |
|------|-------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|      | 4120                                                                                | 120x10x1 |                                                                                   |                                                                                   |
|      | 4120                                                                                | 120x10x2 |                                                                                   |                                                                                   |
|      | 4120                                                                                | 120x10x3 |                                                                                   |                                                                                   |
|      | 4121                                                                                | 120x12x4 |                                                                                   |                                                                                   |
|      | 4121                                                                                | 120x12x5 |                                                                                   |                                                                                   |
|      | 4110                                                                                | 120x10   |                                                                                   |                                                                                   |
| 4180 | In Blechklappkassette,<br>In Metal Case,<br>En caisse de métal,<br>En caja de metal |          | 710                                                                               | 5                                                                                 |
| 4190 | In Plastiktasche,<br>In Plastic Pouch<br>Ou trousse plastique,<br>Bolsa de plastico |          | 465                                                                               | 5                                                                                 |
| 4191 | In Kunststoffständer,<br>In Plastic Stand<br>En stand plastic,<br>En caja plastico  |          | 465                                                                               | 5                                                                                 |

**Durchtreibersatz 6-tlg.**

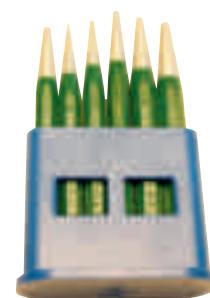
Drift Punch Set 6-pcs., Jeu de poinçon 6-pcs.,  
Juego de punzones 6 piezas



4180



4190



4191









**MONTAGEWERKZEUGE**  
ASSEMBLY TOOLS

**12**



### Sicherheitshandgriff "Standard"

Safety handle "Standard"  
Manche protective "Standard"  
Mango protector "Standard"



| No.       |                   |    | Ø  | Länge |     |   |
|-----------|-------------------|----|----|-------|-----|---|
| 6001      | 23x13             |    | 80 | 120   | 110 | 5 |
|           | 26x7              |    | 80 | 120   | 110 | 5 |
|           | 26x13             |    | 80 | 120   | 110 | 5 |
|           |                   | 16 | 80 | 120   | 110 | 5 |
|           |                   | 18 | 80 | 120   | 110 | 5 |
|           |                   | 20 | 80 | 120   | 110 | 5 |
| Universal | 20x12-26x13/16-18 |    | 80 | 120   | 110 | 5 |

### Sicherheitshandgriff "Profi"

Safety handle "Profi"  
Manche protective "Profi"  
Mango protector "Profi"



| No.  |       |    | Ø   | Länge |     |   |
|------|-------|----|-----|-------|-----|---|
| 6010 | 23x13 |    | 100 | 140   | 170 | 5 |
|      | 26x7  |    | 100 | 140   | 170 | 5 |
|      | 26x13 |    | 100 | 140   | 170 | 5 |
|      |       | 18 | 100 | 140   | 170 | 5 |
|      |       | 20 | 100 | 140   | 170 | 5 |

### Sicherheitshandgriff für Splinttreiber

Protection safety handle for Pin Punch  
Manche protective pour Chasse-goupilles  
Mango protector con Punzonas para grupilla



| No.  |    | Länge |    |    |
|------|----|-------|----|----|
| 6030 | 10 | 75    | 15 | 10 |
|      | 14 | 95    | 50 | 10 |
|      | 18 | 95    | 50 | 10 |

### Reißnadel, gerade einseitige Spitze

Marking Tool, straight, point on one side  
Pointe à tracer, droit, pointe d'un côté  
Punzon marcador, recto, punta sobre una cara



| No.  | Länge | Ø |    |    |
|------|-------|---|----|----|
| 1125 | 170   | 4 | 38 | 20 |

### Reißnadel

Marking Tool  
Pointe à tracer  
Punzon marcador



| No.  | Länge | Ø |    |    |
|------|-------|---|----|----|
| 1126 | 250   | 8 | 46 | 20 |

### Reißnadel, mit Hartmetallspitze in SB-Tasche

Marking Tool, with hard metal point, in pouch  
Pointe à tracer, avec pointe d'acier dur, en pochette  
Punzon marcador, punta metal duro, en bolsa



| No.  | Länge | Ø |    |    |
|------|-------|---|----|----|
| 1127 | 150   | 4 | 36 | 10 |

### Reißnadel mit Hartmetallspitze, Kugelschreiberform in SB-Tasche

Marking Tool, with hard metal point, in pouch  
Pointe à tracer, avec pointe d'acier dur, en pochette  
Punzon marcador, punta metal duro, en bolsa



| No.  | Länge | Ø |    |    |
|------|-------|---|----|----|
| 1128 | 160   |   | 22 | 10 |

### Ersatznadel für No. 1128

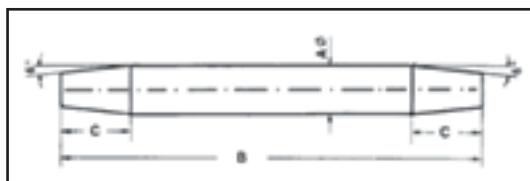
Spare point for No. 1128  
Pointe de remplacement pour No. 1128  
Punta de repuesto No. 1128



| No.  | Länge | Ø |   |    |
|------|-------|---|---|----|
| 1129 | 35    |   | 5 | 10 |

## Durchgangs-Paßdorn

Through setting Plug / Boulon d'ajustage / Varilla

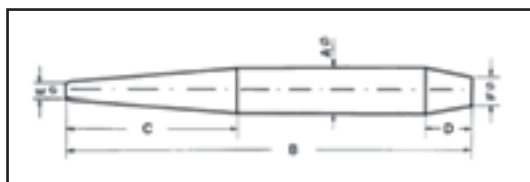


C-Mn-Si

| No.  | A  | B   | C  |  |      |
|------|----|-----|----|--|------|
| 6400 | 11 | 110 | 20 |  | 71   |
|      | 13 | 120 | 25 |  | 112  |
|      | 15 | 150 | 30 |  | 185  |
|      | 17 | 170 | 30 |  | 265  |
|      | 19 | 170 | 35 |  | 335  |
|      | 21 | 190 | 40 |  | 455  |
|      | 23 | 200 | 40 |  | 565  |
|      | 25 | 200 | 40 |  | 675  |
|      | 27 | 210 | 40 |  | 840  |
|      | 28 | 210 | 45 |  | 905  |
|      | 29 | 230 | 45 |  | 1055 |
|      | 31 | 230 | 45 |  | 1210 |
|      | 33 | 250 | 50 |  | 1515 |
|      | 34 | 280 | 50 |  | 1795 |
|      | 36 | 280 | 50 |  | 2020 |
|      | 37 | 280 | 50 |  | 2140 |

## Montage-Paßdorn

Assembly setting plug / Boulon d'ajustage p. montage  
Varilla para montaje



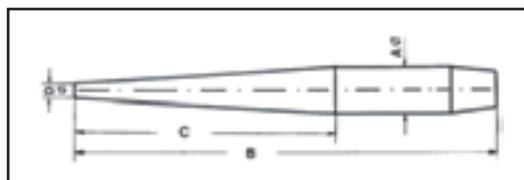
C-Mn-Si

| No.  | A  | B   | C   | D  | E  | F  |      |
|------|----|-----|-----|----|----|----|------|
| 6410 | 11 | 120 | 50  | 15 | 5  | 8  | 75   |
|      | 13 | 120 | 50  | 15 | 5  | 9  | 90   |
|      | 15 | 150 | 60  | 15 | 6  | 10 | 165  |
|      | 17 | 170 | 60  | 20 | 7  | 12 | 240  |
|      | 19 | 170 | 60  | 20 | 7  | 14 | 300  |
|      | 21 | 190 | 70  | 20 | 8  | 15 | 410  |
|      | 23 | 190 | 70  | 20 | 9  | 16 | 485  |
|      | 25 | 200 | 80  | 25 | 10 | 18 | 585  |
|      | 28 | 210 | 80  | 25 | 12 | 20 | 805  |
|      | 31 | 230 | 90  | 30 | 12 | 22 | 1050 |
|      | 34 | 250 | 100 | 35 | 13 | 24 | 1345 |
|      | 37 | 270 | 110 | 40 | 14 | 26 | 1720 |

## Montage-Durchschlag

Solid Assembly punch  
Boulon d'ajustage p. montage  
Varilla para montaje

CV  
Kegel gehärtet  
Taper hardened  
Cône trempé



| No.  | A  | B   | C   | D  | tz |      |
|------|----|-----|-----|----|----|------|
| 6420 | 12 | 180 | 110 | 5  |    | 110  |
|      | 13 | 200 | 120 | 6  |    | 150  |
|      | 16 | 200 | 130 | 8  |    | 220  |
|      | 20 | 200 | 130 | 9  |    | 340  |
|      | 22 | 230 | 140 | 10 |    | 460  |
|      | 24 | 250 | 155 | 11 |    | 620  |
|      | 27 | 280 | 170 | 12 |    | 870  |
|      | 30 | 315 | 190 | 14 |    | 1260 |
|      | 32 | 340 | 200 | 15 |    | 1570 |
|      | 36 | 380 | 220 | 16 |    | 2230 |

## Winkeldorn

Angular assembly

C-Mn-Si  
Kegel gehärtet  
Taper hardened  
Cône trempé



| No.  |     | L   | Ø  |     | Ø Spitze |      |
|------|-----|-----|----|-----|----------|------|
| 6421 | 300 | 100 | 10 | 50  | 5        | 200  |
|      | 350 | 110 | 12 | 60  | 5        | 400  |
|      | 400 | 120 | 14 | 70  | 6        | 500  |
|      | 450 | 130 | 16 | 80  | 6        | 800  |
|      | 500 | 150 | 20 | 90  | 7        | 1500 |
|      | 550 | 170 | 26 | 100 | 8        | 2700 |

### Montiereisen

Mounting iron  
Fer de montage  
Puntero montaje



hrom-Vanadium  
Lufthärtestahl



| No.  | mm  |         | Ø | g    |   |
|------|-----|---------|---|------|---|
| 6425 | 600 | 20-8kt. | 5 | 1300 | 3 |

### Montierspitze

Mounting tip  
Pointe de montage  
Puntero montaje



Chrom-Vanadium  
Lufthärtestahl



| No.  | mm  | Ø   | Ø  | mm | g   |   |
|------|-----|-----|----|----|-----|---|
| 6428 | 500 | 5,5 | 20 | 17 | 970 | 5 |

### Montierspitze

Mounting tip  
Pointe de montage  
Puntero montaje



Chrom-Vanadium  
Lufthärtestahl



| No.  | mm  |         | g   |   |
|------|-----|---------|-----|---|
| 6430 | 400 | 14-4kt. | 500 | 5 |

### Montierspitze

Mounting tip  
Pointe de montage  
Puntero montaje



Chrom-Vanadium  
Lufthärtestahl



| No.  | mm  |         | g   |   |
|------|-----|---------|-----|---|
| 6435 | 400 | 17-6kt. | 650 | 5 |

### Spezial Nageleisen/Kuhfuß

Special Nail-chisel/Wrecking bar  
Special Ouvre-caissels  
Especial Abre cajas



C-Mn-Si



| No.  | mm  |       | g    |   |
|------|-----|-------|------|---|
| 6439 | 500 | 26-13 | 1350 | 5 |
|      | 600 | 26-13 | 1800 | 5 |
|      | 800 | 26-13 | 2300 | 5 |

### Nageleisen/Kuhfuß

Nail-chisel/Wrecking bar  
Ouvre-caissels  
Abre cajas



C-Mn-Si



| No.  | mm   |         | g    |   |
|------|------|---------|------|---|
| 6440 | 400  | 18-6kt. | 1100 | 5 |
|      | 500  | 18-6kt. | 1260 | 5 |
|      | 600  | 18-6kt. | 1420 | 5 |
|      | 800  | 18-6kt. | 1980 | 5 |
|      | 1000 | 18-6kt. | 2540 | 5 |

### Kisteneisen

Nail-chisel  
Ouvre-caissels  
Abre cajas



C-Mn-Si



| No.  | mm  |       | g   |   |
|------|-----|-------|-----|---|
| 6445 | 300 | 14 mm | 700 | 5 |

### Brechstange mit Spitze und Schneide

Wrecking bar with point and edge  
Ouvre-caissels avec pointe et tranchant  
Barra desencostrar con punta y filo

C-Mn-Si



| No.  | Größe |       | g     |   |
|------|-------|-------|-------|---|
| 6450 | 1000  | 30 mm | 5000  | 1 |
|      | 1250  | 30 mm | 6500  | 1 |
|      | 1500  | 30 mm | 8000  | 1 |
|      | 1800  | 30 mm | 9500  | 1 |
|      | 2000  | 30 mm | 10500 | 1 |

### Brechstange mit Spitze und abgewinkelter Schneide

Wrecking bar with bended edge  
Ouvre-caissels avec pointe et tranchant en angle  
Barra desencostrar con punta y filo ángulado

C-Mn-Si



| No.  | Größe |       | g     |   |
|------|-------|-------|-------|---|
| 6451 | 1000  | 30 mm | 5000  | 1 |
|      | 1250  | 30 mm | 6500  | 1 |
|      | 1500  | 30 mm | 8000  | 1 |
|      | 1800  | 30 mm | 9500  | 1 |
|      | 2000  | 30 mm | 10500 | 1 |

## Nietenzieher

Rivet Sets  
Tournevis-riveurs  
Saccaremaches

Chrom-Vanadium  
Lufthärtestahl



| No.  | Ø  | Ø   | mm  | Ø  | g   |    |
|------|----|-----|-----|----|-----|----|
| 7315 | 2  | 2,5 | 100 | 10 | 60  | 10 |
|      | 3  | 3,5 | 100 | 10 | 60  | 10 |
|      | 4  | 5   | 100 | 12 | 90  | 10 |
|      | 5  | 6   | 110 | 14 | 135 | 10 |
|      | 6  | 7   | 110 | 14 | 135 | 10 |
|      | 7  | 8   | 120 | 16 | 190 | 10 |
|      | 8  | 9   | 120 | 16 | 190 | 10 |
|      | 9  | 10  | 130 | 18 | 265 | 10 |
|      | 10 | 11  | 130 | 20 | 325 | 10 |

## Nietendöpper

Rivet headers  
Bouterolles  
Buterolas

Chrom-Vanadium  
Lufthärtestahl



| No.  | Ø  | Ø    | mm  | Ø  | g   |    |
|------|----|------|-----|----|-----|----|
| 7316 | 2  | 3,5  | 100 | 10 | 60  | 10 |
|      | 3  | 5,2  | 100 | 10 | 60  | 10 |
|      | 4  | 7    | 100 | 12 | 90  | 10 |
|      | 5  | 8,8  | 110 | 14 | 135 | 10 |
|      | 6  | 10,5 | 110 | 16 | 175 | 10 |
|      | 7  | 12,2 | 120 | 18 | 240 | 10 |
|      | 8  | 14   | 120 | 20 | 305 | 10 |
|      | 9  | 15,8 | 130 | 22 | 400 | 10 |
|      | 10 | 16   | 130 | 24 | 480 | 10 |

## Nietenziehersatz

Rivet Set  
Chasse-rivets set  
Saccaremaches set



5-tlg.

| No.  | Inhalt | Ø | g   |   |
|------|--------|---|-----|---|
| 7317 | 7315   | 2 | 520 | 1 |
|      |        | 3 |     |   |
|      |        | 4 |     |   |
|      |        | 5 |     |   |
|      |        | 6 |     |   |

## Nietendöppersatz

Rivet headers set  
Chasse-rivets set  
Saccaremaches set



5-tlg.

| No.  | Inhalt | Ø | g   |   |
|------|--------|---|-----|---|
| 7318 | 7316   | 2 | 520 | 1 |
|      |        | 3 |     |   |
|      |        | 4 |     |   |
|      |        | 5 |     |   |
|      |        | 6 |     |   |

## Nietenzieher und Kopfmacher, kombiniert

Rivet set and header, combined  
Chasse-rivets et bouterolle, combinés  
Saccaremaches y Buterolas, combinados

C-Mn-Si



| No.  | Größe | Länge | Ø     | g   |    |
|------|-------|-------|-------|-----|----|
| 7319 | 2     | 100   | 16x10 | 115 | 10 |
|      | 3     | 100   | 16x10 | 115 | 10 |
|      | 4     | 100   | 20x10 | 145 | 10 |
|      | 5     | 110   | 25x12 | 215 | 10 |
|      | 6     | 120   | 25x15 | 310 | 10 |
|      | 7     | 120   | 30x15 | 330 | 10 |
|      | 8     | 140   | 40x20 | 680 | 10 |
|      | 9     | 160   | 40x25 | 950 | 10 |
|      | 10    | 160   | 40x25 | 940 | 10 |





### Acrylglas-Verkaufsständer 130 Werkzeuge

Acrylic glass sales display rack, 130 Tools  
Présentoirs en verre acrylique, 130pcs.  
Expositor de venta de acrílo, 130 pza.

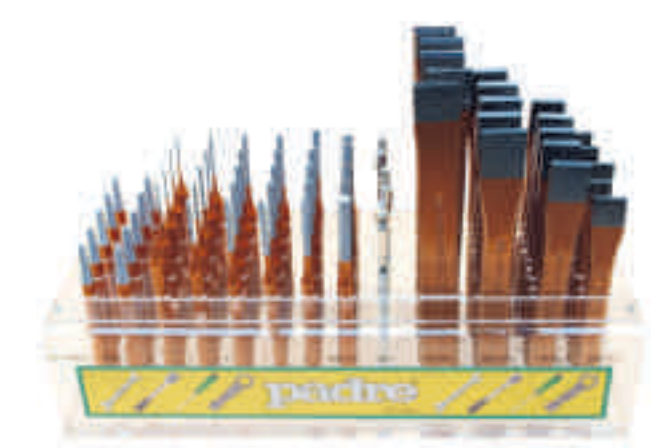


| No.  | Serie  |  |  |
|------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 3202 | Gold   | 39000                                                                             | 1                                                                                 |
| 4202 | Silber | 39000                                                                             | 1                                                                                 |

| Inhalt    |          | Stück |
|-----------|----------|-------|
| 3000/4000 | 200      | 5     |
| 3000/4000 | 250      | 5     |
| 3000/4000 | 300      | 5     |
| 3000/4000 | 400      | 5     |
| 3020/4020 | 250      | 5     |
| 3020/4020 | 300      | 5     |
| 3020/4020 | 400      | 5     |
| 3030/4030 | 200x6x8  | 5     |
| 3030/4030 | 200x8x10 | 5     |
| 3030/4030 | 250x8x12 | 5     |
| 3030/4030 | 300x8x12 | 5     |
| 3040/4040 | 230      | 5     |
| 3070/4070 | 200      | 5     |
| 3070/4070 | 250      | 5     |
| 3070/4070 | 300      | 5     |
| 3090/4090 | 125      | 5     |
| 3090/4090 | 150      | 5     |
| 3110/4110 | 120x10   | 5     |
| 3110/4110 | 120x12   | 5     |
| 3120/4120 | 120x10x1 | 5     |
| 3120/4120 | 120x10x2 | 5     |
| 3120/4120 | 120x10x3 | 5     |
| 3130/4130 | 150x10x2 | 5     |
| 3130/4130 | 150x10x3 | 5     |
| 3130/4130 | 150x10x4 | 5     |
| 3050/4050 | 100x8    | 5     |

### Acrylglas-Verkaufsständer 65 Werkzeuge

Acrylic glass sales display rack, 65 Tools  
Présentoirs en verre acrylique, 65pcs.  
Expositor de venta de acrílo, 65 pcs

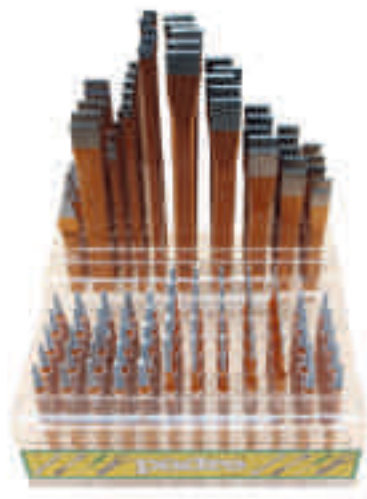


| No.  | Serie  |  |  |
|------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 3204 | Gold   | 10000                                                                               | 1                                                                                   |
| 4204 | Silber | 10000                                                                               | 1                                                                                   |

| Inhalt    |          | Stück |
|-----------|----------|-------|
| 3040/4040 | 230      | 5     |
| 3070/4070 | 150      | 5     |
| 3070/4070 | 175      | 5     |
| 3070/4070 | 200      | 5     |
| 3110/4110 | 120x10   | 5     |
| 3110/4110 | 120x12   | 5     |
| 3130/4130 | 150x10x2 | 5     |
| 3130/4130 | 150x10x3 | 5     |
| 3130/4130 | 150x10x4 | 5     |
| 3130/4130 | 150x10x5 | 5     |
| 3130/4130 | 150x10x6 | 5     |
| 3130/4130 | 150x12x8 | 5     |
| 1127      | 150      | 5     |

**Acrylglas-Verkaufsständer 110 Werkzeuge**

Acrylic glass sales display rack, 110 Tools  
Présentoirs en verre acrylique, 110 pcs.  
Expositor de venta de acrílo, 110 pcs

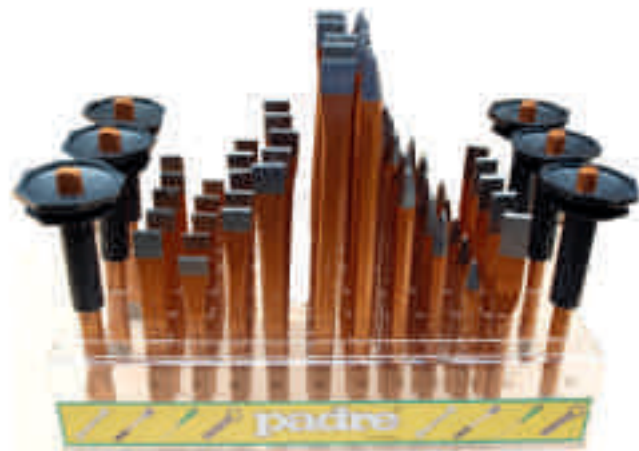


| No.  | Serie  |  |  |
|------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 3207 | Gold   | 20000                                                                             | 1                                                                                 |
| 4207 | Silber | 20000                                                                             | 1                                                                                 |

| Inhalt    |          | Stück |
|-----------|----------|-------|
| 3030/4030 | 200x6x8  | 5     |
| 3030/4030 | 250x8x10 | 5     |
| 3030/4030 | 300x8x12 | 5     |
| 3040/4040 | 230      | 5     |
| 3070/4070 | 150      | 5     |
| 3070/4070 | 175      | 5     |
| 3070/4070 | 200      | 5     |
| 3070/4070 | 250      | 5     |
| 3070/4070 | 300      | 5     |
| 3080/4080 | 150      | 5     |
| 3110/4110 | 120x10   | 5     |
| 3110/4110 | 120x12   | 5     |
| 3121/4121 | 120x12x2 | 5     |
| 3121/4121 | 120x12x3 | 5     |
| 3121/4121 | 120x12x4 | 5     |
| 3121/4121 | 120x12x5 | 5     |
| 3121/4121 | 120x12x6 | 5     |
| 3130/4130 | 150x10x2 | 5     |
| 3130/4130 | 150x10x3 | 5     |
| 3130/4130 | 150x10x4 | 5     |
| 3130/4130 | 150x10x5 | 5     |
| 3130/4130 | 150x10x6 | 5     |

**Acrylglas-Verkaufsständer, 56 Werkzeuge**

Acrylic glass sales display rack, 56 Tools  
Présentoirs en verre acrylique, 56 pcs.  
Expositor de venta de acrílo, 56 pcs.



| No.  | Serie  |  |  |
|------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 3215 | Gold   | 20000                                                                               | 1                                                                                   |
| 4215 | Silber | 20000                                                                               | 1                                                                                   |

| Inhalt           |     | Stück |
|------------------|-----|-------|
| 3000/4000        | 200 | 5     |
| 3000/4000        | 250 | 5     |
| 3000/4000        | 300 | 5     |
| 3000/4000        | 400 | 5     |
| 3000/4000 + 6010 | 300 | 3     |
| 3020/4020        | 200 | 5     |
| 3020/4020        | 250 | 5     |
| 3020/4020        | 300 | 5     |
| 3020/4020        | 400 | 5     |
| 3020/4020 + 6010 | 300 | 3     |
| 3040/4040        | 230 | 5     |
| 3015/4015        | 250 | 5     |

## Acrylglas-Verkaufsständer 70 Werkzeuge

Acrylic glass sales display rack, 70 Tools  
Présentoirs en verre acrylique, 70 pcs.  
Expositor de venta de acrílico, 70 pcs



| No.  | Serie  |  |  |
|------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 3201 | Gold   | 10000                                                                             | 1                                                                                 |
| 4201 | Silber | 10000                                                                             | 1                                                                                 |

| Inhalt    |          | Stück |
|-----------|----------|-------|
| 3000/4000 | 200      | 5     |
| 3000/4000 | 250      | 5     |
| 3000/4000 | 300      | 5     |
| 3000/4000 | 400      | 5     |
| 3010/4010 | 200      | 5     |
| 3010/4010 | 250      | 5     |
| 3020/4020 | 200      | 5     |
| 3020/4020 | 250      | 5     |
| 3030/4030 | 200x8x12 | 5     |
| 3030/4030 | 250x8x12 | 5     |
| 3030/4030 | 300x8x12 | 5     |
| 3070/4070 | 175      | 5     |
| 3070/4070 | 250      | 5     |
| 3070/4070 | 300      | 5     |



## SB-Taschen

SB-Pouch  
SB-Poches  
SB-Bolsas



| No.  | Größe | Aussen mm | Innen mm |
|------|-------|-----------|----------|
| 3219 | 1     | 170x55    | 100x40   |
|      | 2     | 220x35    | 150x20   |
|      | 3     | 225x55    | 150x45   |
|      | 4     | 280x45    | 210x40   |
|      | 5     | 325x45    | 260x40   |
|      | 6     | 470x55    | 410x50   |
|      | 7     | 240x125   | 170x120  |
|      | 8     | 220x90    | 140x70   |

## SB-Plastikhalter zur Präsentation der Handschlagwerkzeuge in der SB-Wand

SB-Holder for the presentation of hand striking tools in DIY market / SB-Poches / SB-Bolsas



| No.  | Größe    |  |  |
|------|----------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 3220 | 10-8-kt. | 2                                                                                     | 10                                                                                    |
|      | 12-8-kt. | 2                                                                                     | 10                                                                                    |
|      | 16-8-kt. | 2                                                                                     | 10                                                                                    |
|      | 18-8-kt. | 2                                                                                     | 10                                                                                    |
|      | 17x11    | 2                                                                                     | 10                                                                                    |
|      | 20x12    | 2                                                                                     | 10                                                                                    |
|      | 23x13    | 2                                                                                     | 10                                                                                    |
|      | 26x13    | 2                                                                                     | 10                                                                                    |
|      | 26x7     | 2                                                                                     | 10                                                                                    |

## Chariereisen-Sprengisen

charring chisel  
ouvre caïssels  
abrecajas



C-Mn-Si

| No.  |  |  |  |  |
|------|-------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 5045 | 60                                                                                  |  | 500                                                                                   | 5                                                                                     |
|      | 80                                                                                  |  | 600                                                                                   | 3                                                                                     |
|      | 100                                                                                 |  | 750                                                                                   | 1                                                                                     |
|      | 120                                                                                 |  | 900                                                                                   | 1                                                                                     |





**SDS-ELEKTRO MEISSEL-BOHRER**  
SDS-ELECTRIC CHISEL-DRILLS

**13**



## Elektro-Einsteckwerkzeuge

Electro-inserting tools

Outils à emmancher électrique

Herramientas de inserción eléctricas

| Hammerhersteller<br>Manufacturer<br>Producteur<br>Fabricante | Typenbezeichnung<br>Type<br>Modèle<br>Tipo                                                                                                                                                                       | No.<br>No.<br>No.<br>No.     | Seite<br>page<br>page<br>pagina  |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|
| SDS-plus                                                     | passend für alle Hämmer mit SDS-plus Einsteckende<br>suitable for all hammer with SDS-plus insert<br>pour emploi avec tous les marteaux avec emmanchement SDS-plus<br>para todos martillos de inserción SDS-plus | 7500/7501                    | 276-281                          |
| SDS-max                                                      | passend für alle Hämmer mit SDS-max Einsteckende<br>suitable for all hammer with SDS-max insert<br>pour emploi avec tous les marteaux avec emmanchement SDS-max<br>para todos martillos de inserción SDS-max     | 7502/7503                    | 279-281                          |
| AEG                                                          | PH240D, PH350, PH38,<br>PHD26, PHD38, PH350D                                                                                                                                                                     | 7505<br>7505                 | 282<br>282                       |
| ATLAS-COPCO                                                  | PB14D<br>PD10H, PH5H, PH11H<br>PB6C, PB10C, PB14C, PH11C<br>PH5F                                                                                                                                                 | 7504<br>7505<br>7507<br>7512 | 282<br>282<br>282-283<br>283-284 |
| BLACK & DECKER                                               | HD2032, HD2038                                                                                                                                                                                                   | 7505                         | 282                              |
| BBT                                                          | BT64                                                                                                                                                                                                             | 7505                         | 282                              |
| BOSCH                                                        | USH10 (11305), HSH10 (12312)<br>UBH6/35, UBH6/35D, UBH12/50 (11209)<br>GBH7/45DE (11214), USH6<br>USH 27 (11304), HSH 28 (12314)                                                                                 | 7504<br>7505<br>7505<br>7508 | 282<br>282<br>282<br>283         |
| ELU                                                          | SH60K<br>BH41K, BH41EK, BH46EK                                                                                                                                                                                   | 7504<br>7505                 | 282<br>282                       |
| HILTI                                                        | TE42, TE60, TE72<br>TE905, TE805, TP800                                                                                                                                                                          | 7502/7503<br>7514            | 279-281<br>284                   |
|                                                              |                                                                                                                                                                                                                  |                              |                                  |

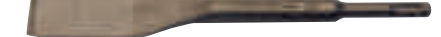
**Elektro-Einsteckwerkzeuge**

Electro-inserting tools

Outils à emmancher électrique

Herramientas de inserción eléctricas

| Hammerhersteller<br>Manufacturer<br>Producteur<br>Fabricante | Typenbezeichnung<br>Type<br>Modèle<br>Tipo             | No.<br>No.<br>No.<br>No. | Seite<br>page<br>page<br>pagina |
|--------------------------------------------------------------|--------------------------------------------------------|--------------------------|---------------------------------|
| HITACHI                                                      | DH38YF, DH38YA, DH50SB, DH40FA/FB                      | 7505                     | 282                             |
|                                                              | DH50SA, DH50SA1, H55SA                                 | 7507                     | 282/283                         |
|                                                              | DH28Y, DH38YB1, H45SA, VRY38                           | 7520                     | 285                             |
|                                                              | PHU45, DH38, DH38YB, H41SA                             | 7520                     | 285                             |
|                                                              | H65SB, H90SC                                           | 7517H                    | 284                             |
|                                                              | H65SD, H90SE                                           | 7508                     | 283                             |
| KANGO                                                        | 638S, 900B, 900S, 900KS, 900Xs, 1400B                  | 7504                     | 282                             |
|                                                              | 430S, 501S, 637S, 950S, 950KS, 950XS, 978S             | 7505                     | 282                             |
|                                                              | 900, 900K, 900X, 928, 950, 950K, 950X, 1400            | 7507                     | 282                             |
| MAKITA                                                       | HM1200B                                                | 7504                     | 282                             |
|                                                              | HR3850B, HR3520B, HR5000, HM0810B                      | 7505                     | 282                             |
|                                                              | HM1500B, HM1800                                        | 7508                     | 283                             |
|                                                              | HM1200K, HR3850K, HR5000K                              | 7507                     | 282/283                         |
|                                                              | HR3520, HR3850, HM0810, 8035NB, HM810T, HR3500, HR3510 | 7512                     | 283/284                         |
|                                                              | HM1200, 8900S, HM1130C                                 | 7518                     | 285                             |
|                                                              | HM1300, HM1400, HM1500, 8900N                          | 7517                     | 284                             |
|                                                              | HM1303 - Aufnahme und Schneide parallel wie Hitachi    | 7517M                    | 284                             |
| MILWAUKEE                                                    | 5335                                                   | 7504                     | 282                             |
|                                                              | 5311, 5312, 5316, 5317, 5347, 5348, 5352, 5353         | 7505                     | 282                             |
| RYOBI                                                        | CH450P, CH460P, ER382K                                 | 7520                     | 285                             |
|                                                              | CH-500K                                                | 7517                     | 284                             |
| SPIT                                                         | 400                                                    | 7504                     | 282                             |
| STAYER                                                       | HD25B, RHD22B                                          | 7504                     | 282                             |
|                                                              | HD25K, RHD22K                                          | 7507                     | 282/283                         |
| Wacker                                                       | EH8/220, EH8/230, EHB10/220, EHUB10Y/220               | 7522                     | 286                             |
|                                                              | EHU8Y/220, EHL8Y, BHB14                                | 7522                     | 286                             |
|                                                              |                                                        |                          |                                 |



| No.                    | No.                                                                                    |  | Länge |  | Material         | Bezeichnung                                                                                             |
|------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------|
| 7500<br>Lose<br>Single | 7501<br>Mit Aufhängeclip<br>With Hang Up Clip<br>Avec Clip pour pendre<br>Con Portador |                                                                                   |       |                                                                                     |                  |                                                                                                         |
| 7500.00250             | 7501.00250                                                                             |                                                                                   | 250   | 300                                                                                 | 14 mm -<br>6 kt. | Spitzmeissel<br>Point Chisel<br>Pointerolles<br>Cinzel puntiagudo                                       |
| 7500.00251             | 7501.00251                                                                             |                                                                                   | 250   | 300                                                                                 | 14 mm -<br>rund  |                                                                                                         |
| 7500.10250             | 7501.10250                                                                             | 20                                                                                | 250   | 300                                                                                 | 14 mm -<br>6 kt. | Flachmeissel<br>Flat Chisel<br>Burins étroits<br>Cinzel plano                                           |
| 7500.10251             | 7501.10251                                                                             | 20                                                                                | 250   | 300                                                                                 | 14 mm -<br>rund  |                                                                                                         |
| 7500.10252             | 7501.10252                                                                             | 25                                                                                | 250   | 300                                                                                 | 14 mm -<br>rund  | Flachmeissel<br>selbstschärfend<br>Flat Chisel Sharpen                                                  |
| 7500.20250             | 7501.20250                                                                             | 22                                                                                | 250   | 400                                                                                 | 14 mm -<br>rund  | Hohlmeissel<br>Hollow Chisel<br>Gouges<br>Gubia                                                         |
| 7500.20251             | 7501.20251                                                                             | 22                                                                                | 250   | 250                                                                                 | 14 mm -<br>rund  | Kanalmeissel<br>Channel chisel                                                                          |
| 7500.30250             | 7501.30250                                                                             | 40                                                                                | 250   | 300                                                                                 | 14 mm -<br>6 kt. | Spatmeissel<br>Spade Chisel<br>Burins-bêche<br>Cinzel azadon                                            |
| 7500.30251             | 7501.30251                                                                             | 40                                                                                | 250   | 300                                                                                 | 14 mm -<br>rund  |                                                                                                         |
| 7500.30252             | 7501.30252                                                                             | 40                                                                                | 250   | 300                                                                                 | 14 mm -<br>6 kt. | Spatmeissel<br>selbstschärfend<br>Spade Chisel Sharpen                                                  |
| 7500.30253             | 7501.30253                                                                             | 40                                                                                | 250   | 300                                                                                 | 14 mm -<br>rund  | Spatmeissel extra<br>langes Blatt<br>Spade Chisel<br>extra long blade                                   |
| 7500.40250             | 7501.40250                                                                             | 22                                                                                | 250   | 300                                                                                 | 14 mm -<br>rund  | Flügelmeissel<br>Flügelmeissel<br>Flügelmeissel<br>Flügelmeissel                                        |
| 7500.50250             | 7501.50250                                                                             | 80                                                                                | 250   | 300                                                                                 | 14 mm -<br>rund  | Spatmeissel 80 mm<br>Spade Chisel 80 mm<br>Burins-bêche 80 mm<br>Cinzel azadon 80 mm                    |
| 7500.70250             | 7501.70250                                                                             | 40                                                                                | 250   | 300                                                                                 | 14 mm -<br>6 kt. | Spatmeissel 15°<br>Spade Chisel 15°<br>Burins-bêche 15°<br>Cinzel azadon 15°                            |
| 7500.70251             | 7501.70251                                                                             | 40                                                                                | 250   | 300                                                                                 | 14 mm -<br>rund  |                                                                                                         |
| 7500.00000             | Inhalt<br>7500.00250<br>7500.10250<br>7500.30250                                       |                                                                                   | 250   | 950                                                                                 | 14 mm -<br>6 kt. | SDS Plus Meisselsatz<br>SDS Plus Chisel Set<br>SDS Plus Set de ciseux<br>SDS Plus juegos de<br>cinceles |
| 7500.00004             | Inhalt<br>7500.00251<br>7500.10251<br>7500.30251                                       |                                                                                   | 250   | 950                                                                                 | 14 mm -<br>rund  |                                                                                                         |

3-tlg.

**SDS-Plus Hammerbohrer**

SDS-Plus hammer bits / SDS-Plus forets marteaux / SDS-Plus perforador de martillos

| No.  | Ø   | Nutzlänge | mm   |    | No.  | Ø  | Nutzlänge | mm   |    |
|------|-----|-----------|------|----|------|----|-----------|------|----|
| 7390 | 4   | 50        | 110  | 10 | 7390 | 13 | 100       | 160  | 10 |
|      | 5   | 50        | 110  |    |      | 13 | 200       | 250  |    |
|      | 5   | 100       | 160  |    |      | 13 | 250       | 300  |    |
|      | 5,5 | 50        | 110  |    |      | 14 | 100       | 160  |    |
|      | 5,5 | 100       | 160  |    |      | 14 | 150       | 200  |    |
|      | 6   | 50        | 110  |    |      | 14 | 200       | 250  |    |
|      | 6   | 100       | 160  |    |      | 14 | 250       | 300  |    |
|      | 6   | 150       | 200  |    |      | 14 | 400       | 450  |    |
|      | 6   | 200       | 250  |    |      | 14 | 450       | 500  |    |
|      | 6,5 | 50        | 110  |    |      | 14 | 950       | 1000 |    |
|      | 6,5 | 100       | 160  |    |      | 15 | 100       | 160  |    |
|      | 6,5 | 150       | 210  |    |      | 15 | 150       | 200  |    |
|      | 7   | 50        | 110  |    |      | 15 | 200       | 260  |    |
|      | 7   | 100       | 160  |    |      | 16 | 100       | 160  |    |
|      | 8   | 50        | 110  |    |      | 16 | 150       | 200  |    |
|      | 8   | 100       | 160  |    |      | 16 | 200       | 250  |    |
|      | 8   | 150       | 210  |    |      | 16 | 250       | 300  |    |
|      | 8   | 200       | 250  |    |      | 16 | 400       | 450  |    |
|      | 8   | 250       | 310  |    |      | 16 | 550       | 600  |    |
|      | 8   | 400       | 450  |    |      | 16 | 750       | 800  |    |
|      | 9   | 100       | 160  |    |      | 18 | 150       | 200  |    |
|      | 10  | 50        | 110  |    |      | 18 | 250       | 300  |    |
|      | 10  | 100       | 160  |    |      | 18 | 400       | 450  |    |
|      | 10  | 150       | 210  |    |      | 19 | 150       | 200  |    |
|      | 10  | 200       | 260  |    |      | 19 | 400       | 450  |    |
|      | 10  | 250       | 310  |    |      | 20 | 150       | 200  |    |
|      | 10  | 400       | 450  |    |      | 20 | 250       | 300  |    |
|      | 10  | 550       | 600  |    |      | 20 | 400       | 450  |    |
|      | 12  | 100       | 160  |    |      | 22 | 200       | 250  |    |
|      | 12  | 150       | 200  |    |      | 22 | 400       | 450  |    |
|      | 12  | 200       | 250  |    |      | 24 | 200       | 250  |    |
|      | 12  | 250       | 310  |    |      | 24 | 400       | 450  |    |
|      | 12  | 400       | 450  |    |      | 25 | 200       | 250  |    |
|      | 12  | 550       | 600  |    |      | 25 | 400       | 450  |    |
|      | 12  | 950       | 1000 |    |      | 26 | 400       | 450  |    |

**SDS-Plus Bohrer-Satz in SB-Verpackung, 5-tlg.**

SDS-Plus Hammer bits set, 5-pcs.

SDS-Plus forets marteaux set, 5-pcs.

SDS-Plus perforador de martillos juegos, 5-pza.

| No.  | Inhalt/Contents<br>Contenu/Contenido | Stück |   |
|------|--------------------------------------|-------|---|
| 7392 |                                      |       | 1 |
|      | 5x110 mm                             | 1     |   |
|      | 6x110 mm                             | 1     |   |
|      | 6x160 mm                             | 1     |   |
|      | 8x160 mm                             | 1     |   |
|      | 10x160 mm                            | 1     |   |





### SDS-Plus Bohrer-Satz in Metalkassette, 7-tlg.

SDS-Plus Hammer bits set in metal case, 7-pcs.

SDS-Plus forets marteaux set en caisse de métal, 7-pcs.

SDS-Plus perforador de martillos juegos en caja de metal, 7-pza.



| No.  | Inhalt/Contents<br>Contenu/Contenido | Stück |   |
|------|--------------------------------------|-------|---|
| 7393 |                                      |       | 1 |
|      | 5x110 mm                             | 1     |   |
|      | 6x110 mm                             | 1     |   |
|      | 8x110 mm                             | 1     |   |
|      | 6x160 mm                             | 1     |   |
|      | 8x160 mm                             | 1     |   |
|      | 10x160 mm                            | 1     |   |
|      | 12x160 mm                            | 1     |   |

### SDS-Max Hammerbohrer

SDS-Max hammer bits

SDS-Max forets marteaux

SDS-Max perforador de martillos



| No.  | Ø  | Nutzlänge | mm  |   |
|------|----|-----------|-----|---|
| 7395 | 12 | 200       | 340 | 1 |
|      | 12 | 400       | 540 |   |
|      | 12 | 550       | 690 |   |
|      | 14 | 200       | 340 |   |
|      | 14 | 400       | 540 |   |
|      | 15 | 200       | 340 |   |
|      | 15 | 400       | 540 |   |
|      | 16 | 200       | 340 |   |
|      | 16 | 400       | 540 |   |
|      | 18 | 200       | 340 |   |
|      | 18 | 400       | 540 |   |
|      | 20 | 200       | 320 |   |
|      | 20 | 400       | 520 |   |
|      | 20 | 800       | 920 |   |
|      | 22 | 200       | 320 |   |
|      | 22 | 400       | 520 |   |
|      | 22 | 800       | 920 |   |
|      | 24 | 200       | 320 |   |
|      | 24 | 400       | 520 |   |

| No.  | Ø  | Nutzlänge | mm  |   |
|------|----|-----------|-----|---|
| 7395 | 25 | 200       | 320 | 1 |
|      | 25 | 400       | 520 |   |
|      | 25 | 800       | 920 |   |
|      | 28 | 250       | 370 |   |
|      | 28 | 450       | 570 |   |
|      | 28 | 550       | 670 |   |
|      | 30 | 250       | 370 |   |
|      | 30 | 450       | 570 |   |
|      | 32 | 250       | 370 |   |
|      | 32 | 450       | 570 |   |
|      | 32 | 800       | 920 |   |
|      | 35 | 250       | 370 |   |
|      | 35 | 450       | 570 |   |
|      | 35 | 550       | 670 |   |
|      | 38 | 250       | 370 |   |
|      | 38 | 450       | 570 |   |
|      | 40 | 250       | 370 |   |
|      | 40 | 450       | 570 |   |
|      | 40 | 800       | 920 |   |

| No.                    | No.                                                                                    |  | Länge |  | Material                | Bezeichnung                                                                                          |
|------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------|
| 7502<br>Lose<br>Single | 7503<br>Mit Aufhängeclip<br>With Hang Up Clip<br>Avec Clip pour pendre<br>Con Portador |                                                                                   |       |                                                                                   |                         |                                                                                                      |
| 7502.00280             | 7503.00280                                                                             |                                                                                   | 280   | 500                                                                               |                         | Spitzmeissel                                                                                         |
| 7502.00400             | 7503.00400                                                                             |                                                                                   | 400   | 700                                                                               |                         | Point Chisel                                                                                         |
| 7502.00600             | 7503.00600                                                                             |                                                                                   | 600   | 1100                                                                              |                         | Pointerolles                                                                                         |
| 7502.00401             | 7502.00401                                                                             |                                                                                   | 400   | 700                                                                               | mit Bund<br>with collar | Cinzel puntiagudo                                                                                    |
| 7502.10280             | 7503.10280                                                                             | 24                                                                                | 280   | 500                                                                               |                         | Flachmeissel                                                                                         |
| 7502.10400             | 7503.10400                                                                             | 24                                                                                | 400   | 700                                                                               |                         | Flat Chisel                                                                                          |
| 7502.10600             | 7503.10600                                                                             | 24                                                                                | 600   | 1100                                                                              |                         | Burins étroits                                                                                       |
| 7502.10401             | 7503.10401                                                                             | 24                                                                                | 400   | 700                                                                               | mit Bund<br>with collar | Cinzel plano                                                                                         |
| 7502.10402             | 7503.10402                                                                             | 24                                                                                | 400   | 700                                                                               | mit Bund<br>with collar | Flachmeissel<br>selbstschärfend<br>Flat Chisel Sharpen                                               |
| 7502.20300             | 7503.20300                                                                             | 22                                                                                | 300   | 500                                                                               |                         | Hohlmeissel                                                                                          |
|                        |                                                                                        |                                                                                   |       |                                                                                   |                         | Hollow Chisel                                                                                        |
|                        |                                                                                        |                                                                                   |       |                                                                                   |                         | Gouges                                                                                               |
|                        |                                                                                        |                                                                                   |       |                                                                                   |                         | Gubia                                                                                                |
| 7502.20301             | 7502.20301                                                                             | 22                                                                                | 250   | 250                                                                               |                         | Kanalmeissel                                                                                         |
|                        |                                                                                        |                                                                                   |       |                                                                                   |                         | Channel chisel                                                                                       |
| 7502.30400             | 7503.30400                                                                             | 50                                                                                | 400   | 800                                                                               |                         | Spatmeissel                                                                                          |
|                        |                                                                                        |                                                                                   |       |                                                                                   |                         | Spade Chisel                                                                                         |
| 7502.40300             | 7503.40300                                                                             | 80                                                                                | 300   | 800                                                                               |                         | Burins-bêche                                                                                         |
|                        |                                                                                        |                                                                                   |       |                                                                                   |                         | Cinzel azadon                                                                                        |
| 7502.30401             | 7503.30401                                                                             | 50                                                                                | 400   | 800                                                                               |                         | Spatmeissel<br>selbstschärfend<br>Spade Chisel Sharpen                                               |
| 7502.60350             | 7503.60350                                                                             | 115                                                                               | 350   | 1200                                                                              |                         | Spatmeissel                                                                                          |
|                        |                                                                                        |                                                                                   |       |                                                                                   |                         | Spade Chisel                                                                                         |
|                        |                                                                                        |                                                                                   |       |                                                                                   |                         | Burins-bêche                                                                                         |
|                        |                                                                                        |                                                                                   |       |                                                                                   |                         | Cinzel azadon                                                                                        |
| 7502.70400             | 7503.70400                                                                             | 50                                                                                | 400   | 800                                                                               |                         | Spatmeissel 15°                                                                                      |
|                        |                                                                                        |                                                                                   |       |                                                                                   |                         | Spade Chisel 15°                                                                                     |
| 7502.80300             | 7503.80300                                                                             | 80                                                                                | 300   | 300                                                                               |                         | Burins-bêche 15°                                                                                     |
|                        |                                                                                        |                                                                                   |       |                                                                                   |                         | Cinzel azadon 15°                                                                                    |
| 7502.00000             | Inhalt<br>7502.00400<br>7502.10400<br>7502.30400                                       |                                                                                   | 400   | 950                                                                               |                         | SDS Max Meisselsatz<br>SDS Max Chisel Set<br>SDS Max Set de ciseaux<br>SDS Max juegos de<br>cinceles |
| 7502.00010             |                                                                                        |                                                                                   |       |                                                                                   |                         | Adapter SDS-Max zu SDS-Plus                                                                          |



## Für SDS-Plus und SDS-Max

For SDS-Plus  
Pour SDS-Plus  
Para SDS-Plus



| No.  |              |  |  |
|------|--------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 7501 | für SDS-Plus | 2                                                                                     | 10                                                                                    |
| 7503 | für SDS-Max  | 2                                                                                     | 10                                                                                    |

| No.                     |  mm | Länge |  | Bezeichnung                                          |
|-------------------------|--------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------|------------------------------------------------------|
| <b>7502 Lose Single</b> |                                                                                      |       |                                                                                   | Spachtelmeissel<br>gebogen, ohne<br>Federstahl-Blech |
| <b>7502.90650</b>       | 100                                                                                  | 650   | 1300                                                                              |                                                      |
|                         |                                                                                      |       |                                                                                   |                                                      |

| No.                     |  mm | L x B   |  | Bezeichnung      |
|-------------------------|--------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------|------------------|
| <b>7502 Lose Single</b> |                                                                                      |         |                                                                                   | Federstahl-Blech |
| <b>7502.90651</b>       |                                                                                      | 95x45   | 1300                                                                              |                  |
| <b>7502.90652</b>       |                                                                                      | 120x120 |                                                                                   |                  |
| <b>7502.90653</b>       |                                                                                      | 160x120 |                                                                                   |                  |
| <b>7502.90654</b>       |                                                                                      | 200x120 |                                                                                   |                  |



### Sortiment im VK-Ständer mit SDS-Plus und SDS-Max Meisseln, 60-tlg.

Assortment in Display with SDS-plus and SDS-max Chisel, 60-pcs. / Assortment an Display avec SDS-Plus et SDS-Max ciseaux, 60-pcs. / Surtido en Display con cinceles SDS-Plus y SDS-Max, 60-pza.

| No.             | Art-No.<br>Item-No.<br>No.-Art.<br>No.-Art. | Abmessung<br>Dimensions<br>Dimensions<br>Medidas | Stück<br>Pcs.<br>Pcs.<br>Pza. |
|-----------------|---------------------------------------------|--------------------------------------------------|-------------------------------|
| <b>7595</b>     |                                             |                                                  |                               |
| <b>SDS-Plus</b> | 7500.00250                                  | 250 mm                                           | 5                             |
|                 | 7500.10250                                  | 250 mm                                           | 5                             |
|                 | 7500.20250                                  | 250 mm/ 22                                       | 5                             |
|                 | 7500.30250                                  | 250 mm/ 40                                       | 5                             |
| <b>SDS-Max</b>  | 7502.00280                                  | 280 mm                                           | 5                             |
|                 | 7502.00400                                  | 400 mm                                           | 5                             |
|                 | 7502.00600                                  | 600 mm                                           | 5                             |
|                 | 7502.10280                                  | 280 mm/ 25                                       | 5                             |
|                 | 7502.10400                                  | 400 mm/ 25                                       | 5                             |
|                 | 7502.10600                                  | 600 mm/ 25                                       | 5                             |
|                 | 7502.20300                                  | 300 mm/ 22                                       | 5                             |
|                 | 7502.30400                                  | 400 mm/ 40                                       | 5                             |
|                 | 7595.00001                                  | Display                                          | 1                             |



## Verkaufshilfen für SDS-Plus und SDS-Max Meissel im Hängedisplay

Sales aids for SDS Plus and SDS Max Chisel on Hang up Display  
Aide de vente pour SDS Plus et SDS Max ciseau en une afficheur  
accrochée / Ayuda de venta para SDS Plus y SDS Max cincelos en  
un display suspendido

**Bestückung 67 tlg.**

Contents 67 pcs. / Contenu 67 pcs. / Contenido 67 pza.

| No.               | Art-No.<br>Item-No.<br>No.-Art.<br>No.-Art. | Abmessung<br>Dimensions<br>Dimensions<br>Medidas | Stück<br>Pcs.<br>Pcs.<br>Pza. |
|-------------------|---------------------------------------------|--------------------------------------------------|-------------------------------|
| <b>7596.00000</b> |                                             |                                                  |                               |
|                   | 7501.00250                                  | 250 mm                                           | 6                             |
| <b>SDS-Plus</b>   | 7501.10250                                  | 250 mm                                           | 6                             |
|                   | 7501.20250                                  | 250 mm/ 22                                       | 6                             |
|                   | 7501.30250                                  | 250 mm/ 40                                       | 6                             |
| <b>SDS-Max</b>    | 7501.70250                                  | 250 mm/ 40                                       | 6                             |
|                   | 7503.00280                                  | 280 mm                                           | 6                             |
|                   | 7503.00400                                  | 400 mm                                           | 6                             |
| <b>SDS-Max</b>    | 7503.10280                                  | 280 mm/ 25                                       | 6                             |
|                   | 7503.10400                                  | 400 mm/ 25                                       | 6                             |
|                   | 7503.20300                                  | 300 mm/ 22                                       | 6                             |
|                   | 7503.30400                                  | 400 mm/ 40                                       | 6                             |
|                   | 7596.00001                                  | Display                                          | 1                             |

## PICCOLO



**Bestückung 67 tlg.**

Contents 103 pcs. / Contenu 103 pcs. / Contenido 103 pza.

| No.               | Art-No.<br>Item-No.<br>No.-Art.<br>No.-Art. | Abmessung<br>Dimensions<br>Dimensions<br>Medidas | Stück<br>Pcs.<br>Pcs.<br>Pza. |
|-------------------|---------------------------------------------|--------------------------------------------------|-------------------------------|
| <b>7597.00000</b> |                                             |                                                  |                               |
|                   | 7501.00250                                  | 250 mm                                           | 12                            |
| <b>SDS-Plus</b>   | 7501.10250                                  | 250 mm                                           | 18                            |
|                   | 7501.20250                                  | 250 mm/ 22                                       | 6                             |
|                   | 7501.30250                                  | 250 mm/ 40                                       | 12                            |
|                   | 7501.70250                                  | 250 mm/ 40                                       | 6                             |
| <b>SDS-Max</b>    | 7503.00280                                  | 280 mm                                           | 6                             |
|                   | 7503.00400                                  | 400 mm                                           | 12                            |
|                   | 7503.10280                                  | 280 mm/ 25                                       | 6                             |
|                   | 7503.10400                                  | 400 mm/ 25                                       | 6                             |
|                   | 7503.20300                                  | 300 mm/ 22                                       | 6                             |
|                   | 7503.30400                                  | 400 mm/ 40                                       | 6                             |
|                   | 7503.40300                                  | 300 mm/ 80                                       | 6                             |
|                   | 7597.00001                                  | Display                                          | 1                             |

## BIG BOX

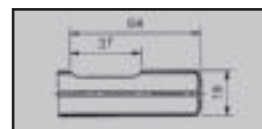




| No.        |  |  |  | Bezeichnung       |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------|
| 7504.00300 | -                                                                                 | 300                                                                               | 0,7                                                                               | Spitzmeissel      |
| 7504.00400 | -                                                                                 | 400                                                                               | 0,9                                                                               | Pointered chisels |
| 7504.00600 | -                                                                                 | 600                                                                               | 1,4                                                                               | Pointerolles      |
|            |                                                                                   |                                                                                   |                                                                                   | Cinzel puntiagudo |

|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7504.10300 | 25 | 300 | 0,7 | Flachmeissel   |
| 7504.10400 | 25 | 400 | 0,9 | Flat-chisels   |
| 7504.10600 | 25 | 600 | 1,4 | Burins étroits |
|            |    |     |     | Cinzel plano   |

|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7504.30450 | 60 | 450 | 1,4 | Spatmeissel   |
|            |    |     |     | Spade chisels |
|            |    |     |     | Burins-bêches |
|            |    |     |     | Cinzel azadón |



**7504**

○ 6kt. 19 mm  
mit Nute

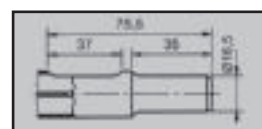


| No.        |  |  |  | Bezeichnung       |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------|
| 7505.00300 | -                                                                                 | 300                                                                               | 0,7                                                                               | Spitzmeissel      |
| 7505.00400 | -                                                                                 | 400                                                                               | 0,9                                                                               | Pointered chisels |
| 7505.00600 | -                                                                                 | 600                                                                               | 1,4                                                                               | Pointerolles      |
|            |                                                                                   |                                                                                   |                                                                                   | Cinzel puntiagudo |

|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7505.10300 | 25 | 300 | 0,7 | Flachmeissel   |
| 7505.10400 | 25 | 400 | 0,9 | Flat-chisels   |
| 7505.10600 | 25 | 600 | 1,4 | Burins étroits |
|            |    |     |     | Cinzel plano   |

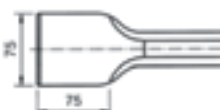
|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7505.30300 | 50 | 300 | 0,6 | Spatmeissel   |
| 7505.30400 | 50 | 400 | 0,8 | Spade chisels |
|            |    |     |     | Burins-bêches |
|            |    |     |     | Cinzel azadón |

|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7505.40300 | 75 | 300 | 1,4 | Spatmeissel   |
|            |    |     |     | Spade chisels |
|            |    |     |     | Burins-bêches |
|            |    |     |     | Cinzel azadón |



**7505**

○ 6kt. 19 mm  
mit Zapfen  
und Nute



| No.        |  |  |  | Bezeichnung       |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|
| 7507.00380 | -                                                                                   | 380                                                                                 | 1,0                                                                                 | Spitzmeissel      |
| 7507.00460 | -                                                                                   | 460                                                                                 | 1,25                                                                                | Pointered chisels |
| 7507.00600 | -                                                                                   | 600                                                                                 | 1,65                                                                                | Pointerolles      |
|            |                                                                                     |                                                                                     |                                                                                     | Cinzel puntiagudo |

|            |    |     |      |                |
|------------|----|-----|------|----------------|
| 7507.10380 | 25 | 380 | 1,0  | Flachmeissel   |
| 7507.10460 | 25 | 460 | 1,25 | Flat-chisels   |
| 7507.10600 | 25 | 600 | 1,65 | Burins étroits |
|            |    |     |      | Cinzel plano   |

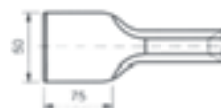


**7507**

○ 20,5  
Ø 18,7 x 60



| No.        |    |     |     | Bezeichnung   |
|------------|----|-----|-----|---------------|
| 7507.30300 | 50 | 300 | 0,7 | Spatmeissel   |
| 7507.30400 | 50 | 400 | 1,0 | Spade chisels |
|            |    |     |     | Burins-bêches |
|            |    |     |     | Cinzel azadón |



**7507**

○ 20,5  
Ø 18,7 x 60

|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7507.40300 | 75 | 300 | 0,9 | Spatmeissel   |
| 7507.40400 | 75 | 400 | 1,2 | Spade chisels |
|            |    |     |     | Burins-bêches |
|            |    |     |     | Cinzel azadón |



|            |     |     |     |               |
|------------|-----|-----|-----|---------------|
| 7507.60500 | 120 | 500 | 1,7 | Spaten        |
|            |     |     |     | Digger steels |
|            |     |     |     | Bêches        |
|            |     |     |     | Pala          |



| No.        |   |     |     | Bezeichnung       |
|------------|---|-----|-----|-------------------|
| 7508.00400 | - | 380 | 1,9 | Spitzmeissel      |
| 7508.00550 | - | 550 | 3,0 | Pointed chisels   |
|            |   |     |     | Pointerolles      |
|            |   |     |     | Cinzel puntiagudo |



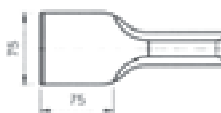
**7508**

○ 28,7 x 150

|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7508.10400 | 35 | 380 | 1,9 | Flachmeissel   |
| 7508.10550 | 35 | 550 | 3,0 | Flat-chisels   |
|            |    |     |     | Burins étroits |
|            |    |     |     | Cinzel plano   |



|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7508.30400 | 75 | 400 | 2,8 | Spatmeissel   |
|            |    |     |     | Spade chisels |
|            |    |     |     | Burins-bêches |
|            |    |     |     | Cinzel azadón |



|            |     |     |     |               |
|------------|-----|-----|-----|---------------|
| 7508.40380 | 125 | 380 | 3,5 | Spaten        |
|            |     |     |     | Digger steels |
|            |     |     |     | Bêches        |
|            |     |     |     | Pala          |



| No.        |   |     |     | Bezeichnung       |
|------------|---|-----|-----|-------------------|
| 7512.00280 | - | 280 | 0,4 | Spitzmeissel      |
| 7512.00450 | - | 450 | 0,6 | Pointed chisels   |
|            |   |     |     | Pointerolles      |
|            |   |     |     | Cinzel puntiagudo |



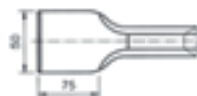
**7512**

○ 17 x 77  
Ø 12,6

|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7512.10280 | 20 | 280 | 0,4 | Flachmeissel   |
| 7512.10450 | 20 | 450 | 0,6 | Flat-chisels   |
|            |    |     |     | Burins étroits |
|            |    |     |     | Cinzel plano   |



| No.        |    |     |      | Bezeichnung   |
|------------|----|-----|------|---------------|
| 7512.30280 | 50 | 280 | 0,45 | Spatmeissel   |
|            |    |     |      | Spade chisels |
|            |    |     |      | Burins-bêches |
|            |    |     |      | Cinzel azadón |



**7512** ○ 17 x 77

| No.        |   |     |     | Bezeichnung       |
|------------|---|-----|-----|-------------------|
| 7514.00360 | - | 360 | 1,3 | Spitzmeissel      |
| 7514.00500 | - | 500 | 1,8 | Pointered chisels |
|            |   |     |     | Pointerolles      |
|            |   |     |     | Cinzel puntiagudo |



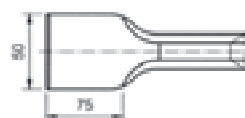
**7514**

○ 22 mit 6 Nuten

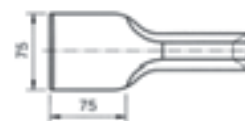
|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7514.10360 | 25 | 360 | 1,3 | Flachmeissel   |
| 7514.10500 | 25 | 500 | 1,8 | Flat-chisels   |
|            |    |     |     | Burins étroits |
|            |    |     |     | Cinzel plano   |



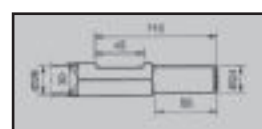
|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7514.30360 | 50 | 360 | 1,5 | Spatmeissel   |
| 7514.30500 | 50 | 500 | 2,0 | Spade chisels |
|            |    |     |     | Burins-bêches |
|            |    |     |     | Cinzel azadón |



|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7514.40360 | 75 | 360 | 1,8 | Spatmeissel   |
| 7514.40500 | 75 | 500 | 2,2 | Spade chisels |
|            |    |     |     | Burins-bêches |
|            |    |     |     | Cinzel azadón |



| No.        |   |     |     | Bezeichnung       |
|------------|---|-----|-----|-------------------|
| 7517.00400 | - | 400 | 1,6 | Spitzmeissel      |
|            |   |     |     | Pointered chisels |
|            |   |     |     | Pointerolles      |
|            |   |     |     | Cinzel puntiagudo |



**7517H**

für Hitachi  
(Fläche-Fläche)

|             |    |     |     |                |
|-------------|----|-----|-----|----------------|
| 7517.10400M | 32 | 400 | 1,6 | Flachmeissel   |
| 7517.10401H | 32 | 400 | 1,6 | Flat-chisels   |
|             |    |     |     | Burins étroits |
|             |    |     |     | Cinzel plano   |

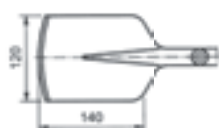


|             |    |     |     |               |
|-------------|----|-----|-----|---------------|
| 7517.30400M | 75 | 400 | 2,4 | Spatmeissel   |
| 7517.30401H | 75 | 400 | 2,4 | Spade chisels |
|             |    |     |     | Burins-bêches |
|             |    |     |     | Cinzel azadón |



**7517H**  
für Makita  
(Seite-Fläche)

|             |     |     |     |               |
|-------------|-----|-----|-----|---------------|
| 7517.40400M | 120 | 400 | 2,7 | Spaten        |
| 7517.40401H | 120 | 400 | 2,7 | Digger steels |
|             |     |     |     | Bêches        |
|             |     |     |     | Pala          |



○ 30:  
mit Aussparung  
Ø 24 x 55  
Ø 26 Schaft

| No.        |  |  |  | Bezeichnung       |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------|
| 7518.00320 | -                                                                                 | 320                                                                               | 0,8                                                                               | Spitzmeissel      |
| 7518.00450 | -                                                                                 | 450                                                                               | 1,2                                                                               | Pointered chisels |
|            |                                                                                   |                                                                                   |                                                                                   | Pointerolles      |
|            |                                                                                   |                                                                                   |                                                                                   | Cinzel puntiagudo |

|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7518.10320 | 25 | 320 | 0,8 | Flachmeissel   |
| 7518.10450 | 25 | 450 | 1,2 | Flat-chisels   |
|            |    |     |     | Burins étroits |
|            |    |     |     | Cinzel plano   |

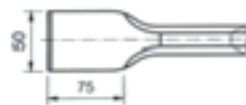
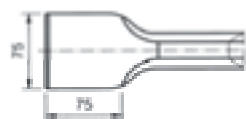
|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7518.30300 | 50 | 300 | 1,0 | Spatmeissel   |
|            |    |     |     | Spade chisels |
|            |    |     |     | Burins-bêches |
|            |    |     |     | Cinzel azadón |

|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7518.40300 | 75 | 300 | 0,9 | Spatmeissel   |
|            |    |     |     | Spade chisels |
|            |    |     |     | Burins-bêches |
|            |    |     |     | Cinzel azadón |



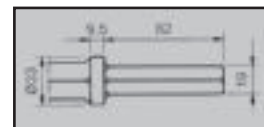
**7518**

○ 20,5 Schaft  
Ø 16 x 45



| No.        |  |  |  | Bezeichnung       |
|------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------|
| 7522.00420 | -                                                                                  | 420                                                                                | 1,3                                                                                | Spitzmeissel      |
|            |                                                                                    |                                                                                    |                                                                                    | Pointered chisels |
|            |                                                                                    |                                                                                    |                                                                                    | Pointerolles      |
|            |                                                                                    |                                                                                    |                                                                                    | Cinzel puntiagudo |

|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7522.10420 | 25 | 420 | 1,3 | Flachmeissel   |
|            |    |     |     | Flat-chisels   |
|            |    |     |     | Burins étroits |
|            |    |     |     | Cinzel plano   |



**7522**

○ 19 x 82









**DRUCKLUFT-EINSTECKWERKZEUGE**  
PNEUMATIC INSERTING TOOLS

**14**

## Druckluft-Einsteckwerkzeuge

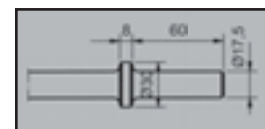
Pneumatic inserting tools

Outils à emmancher pneumatiques

Herramientas de inserción accionadas por aire comprimido

| <b>Einsteckende mm</b><br>Shank mm<br>Emmancement mm<br>Eie mm | <b>Bund</b><br>Collar<br>Collet<br>Roseta | <b>No.</b><br>No.<br>No.<br>No. | <b>Seite</b><br>page<br>page<br>pagina |
|----------------------------------------------------------------|-------------------------------------------|---------------------------------|----------------------------------------|
| Ø 17,5 x 60                                                    |                                           | 7400                            | 289                                    |
| Ø 20 x 60                                                      |                                           | 7401                            | 289                                    |
| Ø 23 x 70                                                      |                                           | 7402                            | 289                                    |
| Ø 25 x 75                                                      |                                           | 7403                            | 289                                    |
| Ø 26 x 70                                                      |                                           | 7404                            | 290                                    |
| Ø 25 x 75                                                      | □ 38                                      | 7405                            | 290                                    |
| Ø 27 x 80                                                      | □ 34                                      | 7406                            | 290                                    |
| Ø 10: ○ 12,5 x 35                                              |                                           | 7407                            | 291                                    |
| Ø 10/ ○ 10,5: Ø 12,5 x 50                                      |                                           | 7408                            | 291                                    |
| ○ 12,4: Ø 15 x 55                                              |                                           | 7410                            | 291                                    |
| ○ 12,5: Ø 14,3 x 50                                            |                                           | 7411                            | 291                                    |
| ○ 14,8: Ø 17,5 x 60                                            |                                           | 7412                            | 292                                    |
| ○ 14,8: Ø 17,3 x 60                                            |                                           | 7413                            | 292                                    |
| ○ 17: Ø 20 x 60                                                |                                           | 7414                            | 292/293                                |
| ○ 19 x 50                                                      |                                           | 7416                            | 293                                    |
| ○ 19 x 108                                                     |                                           | 7417                            | 293                                    |
| ○ 22 x 82                                                      |                                           | 7418                            | 294                                    |
| ○ 22 x 108                                                     |                                           | 7419                            | 294                                    |
| ○ 25 x 108                                                     |                                           | 7420                            | 295                                    |
| ○ 28 x 152                                                     |                                           | 7421                            | 295/296                                |
| ○ 28 x 160                                                     |                                           | 7422                            | 296                                    |
| ○ 32 x 152                                                     |                                           | 7423                            | 296/297                                |
| ○ 32 x 160                                                     |                                           | 7424                            | 297                                    |

| No.        |  |  |  | Bezeichnung                                         |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------|
| 7400.00260 | -                                                                                 | 260                                                                               | 0,7                                                                               | Spitzeisen<br>Moil points<br>Pointerolles<br>Punzón |
|            |                                                                                   |                                                                                   |                                                                                   |                                                     |
|            |                                                                                   |                                                                                   |                                                                                   |                                                     |
|            |                                                                                   |                                                                                   |                                                                                   |                                                     |



**7400**

Ø 17,5 x 60

|            |    |     |     |                                                               |
|------------|----|-----|-----|---------------------------------------------------------------|
| 7400.10260 | 20 | 260 | 0,7 | Flacheisen<br>Flat-breakers<br>Burins étroits<br>Hierro plano |
|            |    |     |     |                                                               |
|            |    |     |     |                                                               |
|            |    |     |     |                                                               |



| No.        |  |  |  | Bezeichnung                           |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|
| 7401.00350 | -                                                                                 | 350                                                                               | 1,2                                                                               | Spitzeisen                            |
| 7401.00450 | -                                                                                 | 450                                                                               | 1,6                                                                               | Moil points<br>Pointerolles<br>Punzón |
|            |                                                                                   |                                                                                   |                                                                                   |                                       |
|            |                                                                                   |                                                                                   |                                                                                   |                                       |



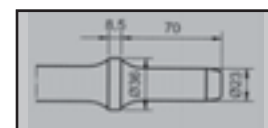
**7401**

Ø 20 x 60

|            |    |     |     |                                                 |
|------------|----|-----|-----|-------------------------------------------------|
| 7401.10350 | 24 | 350 | 1,2 | Flacheisen                                      |
| 7401.10450 | 24 | 450 | 1,6 | Flat-breakers<br>Burins étroits<br>Hierro plano |
|            |    |     |     |                                                 |
|            |    |     |     |                                                 |



| No.        |  |  |  | Bezeichnung                           |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|
| 7402.00340 | -                                                                                   | 340                                                                                 | 1,4                                                                                 | Spitzeisen                            |
| 7402.00530 | -                                                                                   | 530                                                                                 | 2,1                                                                                 | Moil points<br>Pointerolles<br>Punzón |
|            |                                                                                     |                                                                                     |                                                                                     |                                       |
|            |                                                                                     |                                                                                     |                                                                                     |                                       |



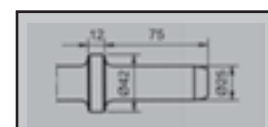
**7402**

Ø 23 x 70

|            |    |     |     |                                                 |
|------------|----|-----|-----|-------------------------------------------------|
| 7402.10340 | 25 | 340 | 1,4 | Flacheisen                                      |
| 7402.10530 | 25 | 530 | 2,1 | Flat-breakers<br>Burins étroits<br>Hierro plano |
|            |    |     |     |                                                 |
|            |    |     |     |                                                 |



| No.        |  |  |  | Bezeichnung  |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 7403.00350 | -                                                                                   | 350                                                                                 | 1,6                                                                                 | Spitzeisen   |
| 7403.00400 | -                                                                                   | 400                                                                                 | 1,8                                                                                 | Moil points  |
| 7403.00450 | -                                                                                   | 450                                                                                 | 2,0                                                                                 | Pointerolles |
| 7403.00500 | -                                                                                   | 500                                                                                 | 2,2                                                                                 | Punzón       |
| 7403.00600 | -                                                                                   | 600                                                                                 | 2,6                                                                                 |              |
| 7403.01000 | -                                                                                   | 1000                                                                                | 4,2                                                                                 |              |
| 7403.01250 | -                                                                                   | 1250                                                                                | 5,0                                                                                 |              |
| 7403.01500 | -                                                                                   | 1500                                                                                | 6,2                                                                                 |              |
| 7403.02000 | -                                                                                   | 2000                                                                                | 8,2                                                                                 |              |



**7403**

Ø 25 x 75

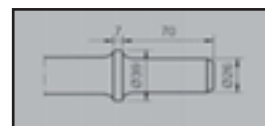
|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7403.10350 | 25 | 350 | 1,6 | Flacheisen     |
| 7403.10400 | 25 | 400 | 1,8 | Flat-breakers  |
| 7403.10450 | 25 | 450 | 2,0 | Burins étroits |
| 7403.10500 | 25 | 500 | 2,2 | Hierro plano   |
| 7403.10600 | 25 | 600 | 2,6 |                |





| No.        |  |  |  | Bezeichnung  |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------|
| 7404.00330 | -                                                                                 | 330                                                                               | 1,5                                                                               | Spitzeisen   |
| 7404.00530 | -                                                                                 | 530                                                                               | 2,2                                                                               | Moil points  |
|            |                                                                                   |                                                                                   |                                                                                   | Pointerolles |
|            |                                                                                   |                                                                                   |                                                                                   | Punzón       |

|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7404.10330 | 28 | 330 | 1,5 | Flacheisen     |
| 7404.10530 | 28 | 530 | 2,2 | Flat-breakers  |
|            |    |     |     | Burins étroits |
|            |    |     |     | Hierro plano   |



**7404**

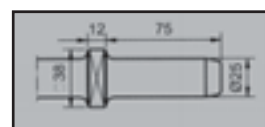
Ø 26 x 70

| No.        |  |  |  | Bezeichnung  |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------|
| 7405.00450 | -                                                                                 | 450                                                                               | 2,0                                                                               | Spitzeisen   |
|            |                                                                                   |                                                                                   |                                                                                   | Moil points  |
|            |                                                                                   |                                                                                   |                                                                                   | Pointerolles |
|            |                                                                                   |                                                                                   |                                                                                   | Punzón       |

|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7405.10450 | 25 | 450 | 2,0 | Flacheisen     |
|            |    |     |     | Flat-breakers  |
|            |    |     |     | Burins étroits |
|            |    |     |     | Hierro plano   |

|            |     |     |     |               |
|------------|-----|-----|-----|---------------|
| 7405.20425 | 125 | 425 | 3,5 | Spaten        |
|            |     |     |     | Digger Steels |
|            |     |     |     | Bêches        |
|            |     |     |     | Pala          |

|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7405.40490 | 75 | 490 | 3,3 | Spaten        |
|            |    |     |     | Digger Steels |
|            |    |     |     | Bêches        |
|            |    |     |     | Pala          |



**7405**

Ø 25 x 75  
Bund □ 38

| No.        |  |  |  | Bezeichnung  |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 7406.00450 | -                                                                                   | 450                                                                                 | 2,1                                                                                 | Spitzeisen   |
|            |                                                                                     |                                                                                     |                                                                                     | Moil points  |
|            |                                                                                     |                                                                                     |                                                                                     | Pointerolles |
|            |                                                                                     |                                                                                     |                                                                                     | Punzón       |

|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7406.10450 | 28 | 450 | 2,1 | Flacheisen     |
|            |    |     |     | Flat-breakers  |
|            |    |     |     | Burins étroits |
|            |    |     |     | Hierro plano   |

|            |     |     |     |               |
|------------|-----|-----|-----|---------------|
| 7406.20400 | 120 | 400 | 3,6 | Spaten        |
|            |     |     |     | Digger Steels |
|            |     |     |     | Bêches        |
|            |     |     |     | Pala          |

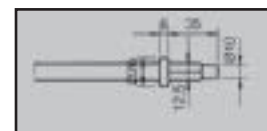
|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7406.40380 | 75 | 380 | 2,7 | Spaten        |
|            |    |     |     | Digger Steels |
|            |    |     |     | Bêches        |
|            |    |     |     | Pala          |



**7406**

Ø 27 x 80  
Bund □ 34

| No.        |  |  |  | Bezeichnung  |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------|
| 7407.00125 | -                                                                                 | 125                                                                               | 0,15                                                                              | Spitzeisen   |
| 7407.00195 | -                                                                                 | 195                                                                               | 0,2                                                                               | Moil points  |
|            |                                                                                   |                                                                                   |                                                                                   | Pointerolles |
|            |                                                                                   |                                                                                   |                                                                                   | Punzón       |



7407

**Ø 10:  12,5 x 35**

|                   |    |     |      |                |
|-------------------|----|-----|------|----------------|
| <b>7407.10125</b> | 12 | 125 | 0,15 | Flacheisen     |
| <b>7407.10195</b> | 12 | 195 | 0,2  | Flat-breakers  |
|                   |    |     |      | Burins étroits |
|                   |    |     |      | Hierro plano   |



| No.        |  |  |  | Bezeichnung  |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------|
| 7408.00135 | -                                                                                 | 135                                                                               | 0,2                                                                               | Spitzeisen   |
| 7408.00200 | -                                                                                 | 200                                                                               | 0,25                                                                              | Moil points  |
|            |                                                                                   |                                                                                   |                                                                                   | Pointerolles |
|            |                                                                                   |                                                                                   |                                                                                   | Punzón       |



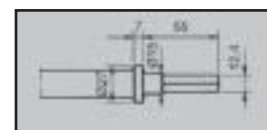
7408

Ø 10:  10,5  
 12,5 x 50

|                   |    |     |      |                |
|-------------------|----|-----|------|----------------|
| <b>7408.10135</b> | 15 | 135 | 0,2  | Flacheisen     |
| <b>7408.10200</b> | 15 | 200 | 0,25 | Flat-breakers  |
|                   |    |     |      | Burins étroits |
|                   |    |     |      | Hierro plano   |



| No.        |  |  |  | Bezeichnung  |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 7410.00200 | -                                                                                   | 200                                                                                 | 0,5                                                                                 | Spitzeisen   |
| 7410.00300 | -                                                                                   | 300                                                                                 | 0,8                                                                                 | Moil points  |
|            |                                                                                     |                                                                                     |                                                                                     | Pointerolles |
|            |                                                                                     |                                                                                     |                                                                                     | Punzón       |



7410

Ø 12,4  
Ø 15 x 55

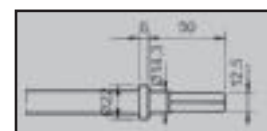
|                   |    |     |     |                |
|-------------------|----|-----|-----|----------------|
| <b>7410.10200</b> | 20 | 200 | 0,5 | Flacheisen     |
| <b>7410.10300</b> | 20 | 300 | 0,8 | Flat-breakers  |
|                   |    |     |     | Burins étroits |
|                   |    |     |     | Hierro plano   |



|                   |    |     |      |                                                      |
|-------------------|----|-----|------|------------------------------------------------------|
| <b>7410.50245</b> | 50 | 245 | 0,65 | Breitmeissel<br>Large bits<br>Burins larges<br>ancho |
|                   |    |     |      |                                                      |
|                   |    |     |      |                                                      |
|                   |    |     |      |                                                      |



| No.        |  |  |  | Bezeichnung  |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 7411.00200 | -                                                                                   | 200                                                                                 | 0,25                                                                                | Spitzeisen   |
|            |                                                                                     |                                                                                     |                                                                                     | Moil points  |
|            |                                                                                     |                                                                                     |                                                                                     | Pointerolles |
|            |                                                                                     |                                                                                     |                                                                                     | Punzón       |



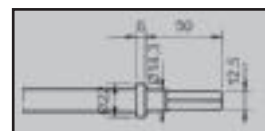
7411

 12,5  
 Ø 14,3 x 50

|            |    |     |      |                |
|------------|----|-----|------|----------------|
| 7411.10200 | 15 | 200 | 0,25 | Flacheisen     |
|            |    |     |      | Flat-breakers  |
|            |    |     |      | Burins étroits |
|            |    |     |      | Hierro plano   |



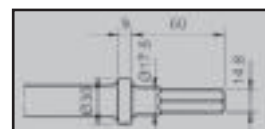
| No.        |  |  |  | Bezeichnung   |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|
| 7411.50180 | 40                                                                                | 180                                                                               |                                                                                   | Breitmeissel  |
|            |                                                                                   |                                                                                   |                                                                                   | Large bits    |
|            |                                                                                   |                                                                                   |                                                                                   | Burins larges |
|            |                                                                                   |                                                                                   |                                                                                   | ancho         |



**7411** Fortsetzung

○ 12,5  
Ø 14,3 x 50

| No.        |  |  |  | Bezeichnung  |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------|
| 7412.00260 | -                                                                                 | 260                                                                               | 0,7                                                                               | Spitzeisen   |
| 7412.00350 | -                                                                                 | 350                                                                               | 0,85                                                                              | Moil points  |
|            |                                                                                   |                                                                                   |                                                                                   | Pointerolles |
|            |                                                                                   |                                                                                   |                                                                                   | Punzón       |



**7412**

○ 14,8  
Ø 17,5 x 60  
Bund Ø 30

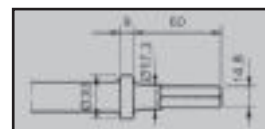
|            |    |     |      |                |
|------------|----|-----|------|----------------|
| 7412.10260 | 20 | 260 | 0,7  | Flacheisen     |
| 7412.10350 | 20 | 350 | 0,85 | Flat-breakers  |
|            |    |     |      | Burins étroits |
|            |    |     |      | Hierro plano   |



|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7412.50200 | 60 | 200 | 0,8 | Breitmeissel  |
|            |    |     |     | Large bits    |
|            |    |     |     | Burins larges |
|            |    |     |     | ancho         |



| No.        |  |  |  | Bezeichnung  |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 7413.00260 | -                                                                                   | 260                                                                                 | 0,7                                                                                 | Spitzeisen   |
| 7413.00350 | -                                                                                   | 350                                                                                 | 0,85                                                                                | Moil points  |
|            |                                                                                     |                                                                                     |                                                                                     | Pointerolles |
|            |                                                                                     |                                                                                     |                                                                                     | Punzón       |



**7413**

○ 14,8  
Ø 17,3 x 60  
Bund Ø 30

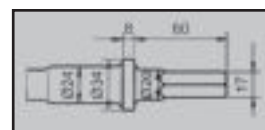
|            |    |     |      |                |
|------------|----|-----|------|----------------|
| 7413.10260 | 23 | 260 | 0,7  | Flacheisen     |
| 7413.10350 | 23 | 350 | 0,85 | Flat-breakers  |
|            |    |     |      | Burins étroits |
|            |    |     |      | Hierro plano   |



|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7413.50200 | 60 | 200 | 0,6 | Breitmeissel  |
|            |    |     |     | Large bits    |
|            |    |     |     | Burins larges |
|            |    |     |     | ancho         |



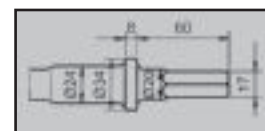
| No.        |  |  |  | Bezeichnung  |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 7414.00350 | -                                                                                   | 350                                                                                 | 1,2                                                                                 | Spitzeisen   |
| 7414.00450 | -                                                                                   | 450                                                                                 | 1,6                                                                                 | Moil points  |
|            |                                                                                     |                                                                                     |                                                                                     | Pointerolles |
|            |                                                                                     |                                                                                     |                                                                                     | Punzón       |



**7414**

○ 17  
Ø 20 x 60  
Bund Ø 34

| No.        |  |  |  | Bezeichnung    |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------|
| 7414.10350 | 24                                                                                | 350                                                                               | 1,2                                                                               | Flacheisen     |
| 7414.10450 | 24                                                                                | 450                                                                               | 1,6                                                                               | Flat-breakers  |
|            |                                                                                   |                                                                                   |                                                                                   | Burins étroits |
|            |                                                                                   |                                                                                   |                                                                                   | Hierro plano   |



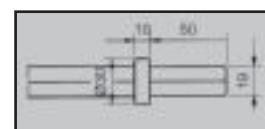
**7414**

○ 17  
Ø 20 x 60  
Bund Ø 34

|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7414.50200 | 50 | 200 | 0,8 | Breitmeissel  |
|            |    |     |     | Large bits    |
|            |    |     |     | Burins larges |
|            |    |     |     | ancho         |



| No.        |  |  |  | Bezeichnung  |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------|
| 7416.00250 | -                                                                                 | 250                                                                               | 0,7                                                                               | Spitzeisen   |
| 7416.00350 | -                                                                                 | 350                                                                               | 0,9                                                                               | Moil points  |
| 7416.00450 | -                                                                                 | 450                                                                               | 1,2                                                                               | Pointerolles |
|            |                                                                                   |                                                                                   |                                                                                   | Punzón       |



**7416**

○ 19 x 50

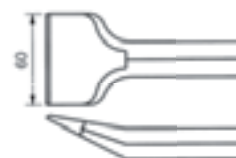
|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7416.10250 | 25 | 250 | 0,7 | Flacheisen     |
| 7416.10350 | 25 | 350 | 0,9 | Flat-breakers  |
| 7416.10450 | 25 | 450 | 1,2 | Burins étroits |
|            |    |     |     | Hierro plano   |



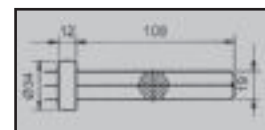
|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7416.50200 | 60 | 200 | 0,8 | Breitmeissel  |
|            |    |     |     | Large bits    |
|            |    |     |     | Burins larges |
|            |    |     |     | ancho         |



|            |    |     |     |                       |
|------------|----|-----|-----|-----------------------|
| 7416.70200 | 60 | 200 | 0,8 | Breitmeissel, gebogen |
|            |    |     |     | Large bits, bended    |
|            |    |     |     | Burins larges, bidé   |
|            |    |     |     | ancho,curvo           |



| No.        |  |  |  | Bezeichnung  |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 7417.00450 | -                                                                                   | 450                                                                                 | 1,8                                                                                 | Spitzeisen   |
|            |                                                                                     |                                                                                     |                                                                                     | Moil points  |
|            |                                                                                     |                                                                                     |                                                                                     | Pointerolles |
|            |                                                                                     |                                                                                     |                                                                                     | Punzón       |



**7417**

○ 19 x 108

|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7417.10450 | 25 | 450 | 1,8 | Flacheisen     |
|            |    |     |     | Flat-breakers  |
|            |    |     |     | Burins étroits |
|            |    |     |     | Hierro plano   |





| No.        |  |  |  | Bezeichnung  |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------|
| 7418.00400 | -                                                                                 | 400                                                                               | 1,6                                                                               | Spitzeisen   |
| 7418.00450 | -                                                                                 | 450                                                                               | 1,8                                                                               | Moil points  |
|            |                                                                                   |                                                                                   |                                                                                   | Pointerolles |
|            |                                                                                   |                                                                                   |                                                                                   | Punzón       |

|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7418.10400 | 25 | 400 | 1,6 | Flacheisen     |
| 7418.10450 | 25 | 450 | 1,8 | Flat-breakers  |
|            |    |     |     | Burins étroits |
|            |    |     |     | Hierro plano   |

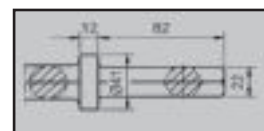
|            |     |     |     |               |
|------------|-----|-----|-----|---------------|
| 7418.20420 | 125 | 420 | 3,5 | Spaten        |
|            |     |     |     | Digger Steels |
|            |     |     |     | Bêches        |
|            |     |     |     | Pala          |

|            |     |     |     |               |
|------------|-----|-----|-----|---------------|
| 7418.30420 | 125 | 420 | 3,6 | Spaten        |
|            |     |     |     | Digger Steels |
|            |     |     |     | Bêches        |
|            |     |     |     | Pala          |

|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7418.40450 | 75 | 450 | 3,3 | Spaten        |
|            |    |     |     | Digger Steels |
|            |    |     |     | Bêches        |
|            |    |     |     | Pala          |

|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7418.50380 | 75 | 380 | 2,5 | Breitmeissel  |
|            |    |     |     | Large bits    |
|            |    |     |     | Burins larges |
|            |    |     |     | ancho         |

|            |     |     |     |                 |
|------------|-----|-----|-----|-----------------|
| 7418.60280 | 115 | 280 | 2,5 | Asphaltspaten   |
|            |     |     |     | Asphalt-Cuttera |
|            |     |     |     |                 |
|            |     |     |     |                 |



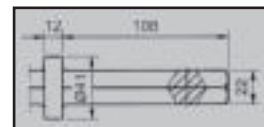
**7418**

○ 22 x 82



| No.        |  |  |  | Bezeichnung  |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 7419.00450 | -                                                                                   | 450                                                                                 | 1,9                                                                                 | Spitzeisen   |
|            |                                                                                     |                                                                                     |                                                                                     | Moil points  |
|            |                                                                                     |                                                                                     |                                                                                     | Pointerolles |
|            |                                                                                     |                                                                                     |                                                                                     | Punzón       |

|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7419.10450 | 25 | 450 | 1,9 | Flacheisen     |
|            |    |     |     | Flat-breakers  |
|            |    |     |     | Burins étroits |
|            |    |     |     | Hierro plano   |



**7419**

○ 22 x 108



| No.        |   |     |     | Bezeichnung  |
|------------|---|-----|-----|--------------|
| 7420.00400 | - | 400 | 2,2 | Spitzeisen   |
| 7420.00450 | - | 450 | 2,5 | Moil points  |
|            |   |     |     | Pointerolles |
|            |   |     |     | Punzón       |

|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7420.10400 | 26 | 400 | 2,2 | Flacheisen     |
| 7420.10450 | 26 | 450 | 2,5 | Flat-breakers  |
|            |    |     |     | Burins étroits |
|            |    |     |     | Hierro plano   |

|            |     |     |     |               |
|------------|-----|-----|-----|---------------|
| 7420.20420 | 125 | 420 | 4,0 | Spaten        |
|            |     |     |     | Digger Steels |
|            |     |     |     | Bêches        |
|            |     |     |     | Pala          |

|            |     |     |     |               |
|------------|-----|-----|-----|---------------|
| 7420.30420 | 125 | 420 | 4,2 | Spaten        |
|            |     |     |     | Digger Steels |
|            |     |     |     | Bêches        |
|            |     |     |     | Pala          |

|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7420.40450 | 75 | 450 | 3,4 | Spaten        |
|            |    |     |     | Digger Steels |
|            |    |     |     | Bêches        |
|            |    |     |     | Pala          |

|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7420.50380 | 75 | 380 | 2,6 | Breitmeissel  |
|            |    |     |     | Large bits    |
|            |    |     |     | Burins larges |
|            |    |     |     | ancho         |

|            |     |     |     |                 |
|------------|-----|-----|-----|-----------------|
| 7420.60280 | 115 | 280 | 2,5 | Asphaltspaten   |
|            |     |     |     | Asphalt-Cuttera |
|            |     |     |     |                 |
|            |     |     |     |                 |



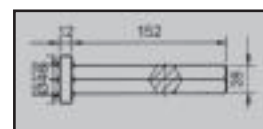
**7420**

○ 25 x 108

| No.        |   |     |     | Bezeichnung  |
|------------|---|-----|-----|--------------|
| 7421.00400 | - | 400 | 3,0 | Spitzeisen   |
| 7421.00450 | - | 450 | 3,3 | Moil points  |
|            |   |     |     | Pointerolles |
|            |   |     |     | Punzón       |

|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7421.10400 | 30 | 400 | 3,0 | Flacheisen     |
| 7421.10450 | 30 | 450 | 3,3 | Flat-breakers  |
|            |    |     |     | Burins étroits |
|            |    |     |     | Hierro plano   |

|            |     |     |     |               |
|------------|-----|-----|-----|---------------|
| 7421.30400 | 125 | 400 | 4,5 | Spaten        |
|            |     |     |     | Digger Steels |
|            |     |     |     | Bêches        |
|            |     |     |     | Pala          |



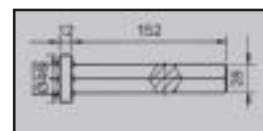
**7421**

○ 28 x 152

| No.        |  |  |  | Bezeichnung   |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|
| 7421.40450 | 75                                                                                | 450                                                                               | 4,1                                                                               | Spaten        |
|            |                                                                                   |                                                                                   |                                                                                   | Digger Steels |
|            |                                                                                   |                                                                                   |                                                                                   | Bêches        |
|            |                                                                                   |                                                                                   |                                                                                   | Pala          |

|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7421.50380 | 75 | 380 | 3,3 | Breitmeissel  |
|            |    |     |     | Large bits    |
|            |    |     |     | Burins larges |
|            |    |     |     | ancho         |

|            |     |     |     |                 |
|------------|-----|-----|-----|-----------------|
| 7421.60280 | 115 | 280 | 2,5 | Asphaltspaten   |
|            |     |     |     | Asphalt-Cuttera |
|            |     |     |     |                 |
|            |     |     |     |                 |



**7421**

○ 28 x 152

| No.        |  |  |  | Bezeichnung  |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------|
| 7422.00400 | -                                                                                 | 400                                                                               | 3,0                                                                               | Spitzeisen   |
| 7422.00450 | -                                                                                 | 450                                                                               | 3,3                                                                               | Moil points  |
|            |                                                                                   |                                                                                   |                                                                                   | Pointerolles |
|            |                                                                                   |                                                                                   |                                                                                   | Punzón       |

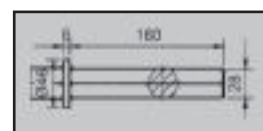
|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7422.10400 | 30 | 400 | 3,0 | Flacheisen     |
| 7422.10450 | 30 | 450 | 3,3 | Flat-breakers  |
|            |    |     |     | Burins étroits |
|            |    |     |     | Hierro plano   |

|            |     |     |     |               |
|------------|-----|-----|-----|---------------|
| 7422.30355 | 125 | 355 | 4,9 | Spaten        |
|            |     |     |     | Digger Steels |
|            |     |     |     | Bêches        |
|            |     |     |     | Pala          |

|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7422.40355 | 75 | 355 | 4,0 | Spaten        |
|            |    |     |     | Digger Steels |
|            |    |     |     | Bêches        |
|            |    |     |     | Pala          |

|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7422.50380 | 75 | 380 | 3,3 | Breitmeissel  |
|            |    |     |     | Large bits    |
|            |    |     |     | Burins larges |
|            |    |     |     | ancho         |

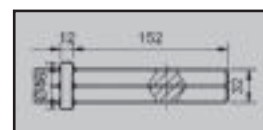
|            |     |     |     |                |
|------------|-----|-----|-----|----------------|
| 7422.60280 | 115 | 280 | 2,5 | Asphaltspaten  |
|            |     |     |     | Asphalt-Cutter |
|            |     |     |     |                |
|            |     |     |     |                |



**7422**

○ 28 x 160

| No.        |  |  |  | Bezeichnung  |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 7423.00400 | -                                                                                   | 400                                                                                 | 3,7                                                                                 | Spitzeisen   |
| 7423.00450 | -                                                                                   | 450                                                                                 | 4,0                                                                                 | Moil points  |
|            |                                                                                     |                                                                                     |                                                                                     | Pointerolles |
|            |                                                                                     |                                                                                     |                                                                                     | Punzón       |



**7423** ○ 32 x 152

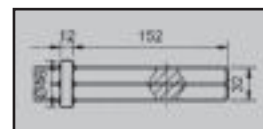
| No.        |  |  |  | Bezeichnung    |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------|
| 7423.10400 | 32                                                                                | 400                                                                               | 3,7                                                                               | Flacheisen     |
| 7423.10450 | 32                                                                                | 450                                                                               | 4,0                                                                               | Flat-breakers  |
|            |                                                                                   |                                                                                   |                                                                                   | Burins étroits |
|            |                                                                                   |                                                                                   |                                                                                   | Hierro plano   |

|            |     |     |     |               |
|------------|-----|-----|-----|---------------|
| 7423.30400 | 125 | 400 | 4,5 | Spaten        |
|            |     |     |     | Digger Steels |
|            |     |     |     | Bêches        |
|            |     |     |     | Pala          |

|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7423.40450 | 75 | 450 | 4,1 | Spaten        |
|            |    |     |     | Digger Steels |
|            |    |     |     | Bêches        |
|            |    |     |     | Pala          |

|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7423.50380 | 75 | 380 | 4,0 | Breitmeissel  |
|            |    |     |     | Large bits    |
|            |    |     |     | Burins larges |
|            |    |     |     | ancho         |

|            |     |     |     |                |
|------------|-----|-----|-----|----------------|
| 7423.60280 | 115 | 280 | 2,5 | Asphaltspaten  |
|            |     |     |     | Asphalt-Cutter |
|            |     |     |     |                |
|            |     |     |     |                |



**7423**

○ 32 x 152

| No.        |  |  |  | Bezeichnung  |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 7424.00400 | -                                                                                   | 400                                                                                 | 3,7                                                                                 | Spitzeisen   |
| 7424.00450 | -                                                                                   | 450                                                                                 | 4,0                                                                                 | Moil points  |
|            |                                                                                     |                                                                                     |                                                                                     | Pointerolles |
|            |                                                                                     |                                                                                     |                                                                                     | Punzón       |

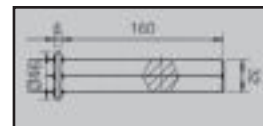
|            |    |     |     |                |
|------------|----|-----|-----|----------------|
| 7424.10400 | 32 | 400 | 3,7 | Flacheisen     |
| 7424.10450 | 32 | 450 | 4,0 | Flat-breakers  |
|            |    |     |     | Burins étroits |
|            |    |     |     | Hierro plano   |

|            |     |     |     |               |
|------------|-----|-----|-----|---------------|
| 7424.30355 | 125 | 355 | 5,3 | Spaten        |
|            |     |     |     | Digger Steels |
|            |     |     |     | Bêches        |
|            |     |     |     | Pala          |

|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7424.40355 | 75 | 355 | 4,2 | Spaten        |
|            |    |     |     | Digger Steels |
|            |    |     |     | Bêches        |
|            |    |     |     | Pala          |

|            |    |     |     |               |
|------------|----|-----|-----|---------------|
| 7424.50380 | 75 | 380 | 4,0 | Breitmeissel  |
|            |    |     |     | Large bits    |
|            |    |     |     | Burins larges |
|            |    |     |     | ancho         |

|            |     |     |     |                |
|------------|-----|-----|-----|----------------|
| 7424.60280 | 115 | 280 | 2,5 | Asphaltspaten  |
|            |     |     |     | Asphalt-Cutter |



**7424**

○ 32 x 160



| Art-No. | Seite<br>page<br>pagina | Art-No. | Seite<br>page<br>pagina | Art-No. | Seite<br>page<br>pagina | Art-No. | Seite<br>page<br>pagina | Art-No.  | Seite<br>page<br>pagina |
|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|----------|-------------------------|
| 40      | 96                      | 205     | 100                     | 495     | 95                      | 610 AF  | 110                     | 728      | 118                     |
| 42      | 96                      | 210     | 105                     | 495 P   | 95                      | 611     | 110                     | 729      | 118                     |
| 43      | 96                      | 291     | 105                     | 496     | 95                      | 612     | 111                     | 730      | 118                     |
| 44      | 96                      | 293     | 105                     | 496 P   | 95                      | 613     | 111                     | 731      | 118                     |
| 45      | 96                      | 295     | 105                     | 497     | 95                      | 615     | 115                     | 732      | 118                     |
| 46      | 96                      | 296     | 105                     | 505     | 211                     | 615 T   | 115                     | 733      | 118                     |
| 47      | 97                      | 297     | 105                     | 506     | 211                     | 616     | 109                     | 734      | 118                     |
| 48      | 97                      | 300     | 106                     | 507     | 211                     | 617     | 109                     | 734 AFT  | 118                     |
| 49      | 97                      | 302     | 106                     | 508     | 211                     | 618     | 112                     | 734 CVT  | 118                     |
| 50      | 97                      | 303     | 106                     | 509     | 211                     | 619     | 112                     | 735      | 118                     |
| 60      | 98                      | 304     | 106                     | 510     | 212                     | 620     | 112                     | 736      | 118                     |
| 61      | 98                      | 305     | 106                     | 511     | 212                     | 621     | 112                     | 737      | 119                     |
| 61 EX   | 98                      | 308     | 106                     | 513     | 212                     | 622     | 112                     | 738      | 118                     |
| 62      | 98                      | 324     | 106                     | 514     | 212                     | 625     | 112                     | 739      | 118                     |
| 62 P    | 98                      | 325     | 106                     | 520     | 212                     | 626     | 112                     | 740      | 119                     |
| 62 EX   | 98                      | 350     | 107                     | 521     | 212                     | 626 AF  | 112                     | 741      | 119                     |
| 62 PEX  | 98                      | 351     | 107                     | 522     | 212                     | 627     | 113                     | 741 HS   | 119                     |
| 63      | 98                      | 352     | 107                     | 523     | 213                     | 627 AF  | 113                     | 742      | 119                     |
| 67      | 98                      | 355     | 107                     | 530     | 213                     | 628     | 113                     | 743      | 119                     |
| 68      | 98                      | 356     | 107                     | 531     | 213                     | 628 AF  | 113                     | 745      | 120                     |
| 130     | 101                     | 361     | 107                     | 533     | 213                     | 629     | 113                     | 760      | 120                     |
| 133     | 101                     | 361 G   | 107                     | 534     | 213                     | 629 AF  | 113                     | 761      | 120                     |
| 134     | 101                     | 362     | 107                     | 535     | 213                     | 630     | 112                     | 762      | 120                     |
| 136     | 101                     | 362 G   | 107                     | 536     | 214                     | 631     | 112                     | 763      | 120                     |
| 136 P   | 101                     | 364     | 107                     | 537     | 214                     | 641     | 113                     | 764      | 120                     |
| 137     | 101                     | 364 G   | 107                     | 537 S   | 214                     | 641 PZ  | 113                     | 770      | 121                     |
| 137 P   | 101                     | 371     | 107                     | 538     | 214                     | 641 T   | 113                     | 771      | 121                     |
| 140     | 102                     | 380     | 107                     | 539     | 214                     | 644     | 115                     | 772      | 121                     |
| 141     | 102                     | 384     | 107                     | 540     | 214                     | 644 F   | 114                     | 773      | 121                     |
| 142     | 102                     | 457     | 93                      | 541     | 215                     | 645     | 113                     | 774      | 121                     |
| 143     | 102                     | 458     | 93                      | 545     | 215                     | 645 T   | 113                     | 775      | 121                     |
| 144     | 102                     | 459     | 93                      | 546     | 215                     | 649     | 114                     | 776      | 121                     |
| 145     | 102                     | 460     | 92                      | 547     | 215                     | 651     | 114                     | 777      | 122                     |
| 146     | 103                     | 461     | 93                      | 548     | 215                     | 655     | 112                     | 778      | 122                     |
| 147     | 103                     | 462     | 92                      | 549     | 215                     | 656     | 112                     | 779      | 122                     |
| 148     | 103                     | 463     | 92                      | 550     | 215                     | 659     | 115                     | 780      | 122                     |
| 149     | 103                     | 464     | 92                      | 551     | 216                     | 661     | 111                     | 782      | 122                     |
| 150     | 103                     | 465     | 92                      | 552     | 216                     | 662     | 111                     | 783      | 122                     |
| 155     | 104                     | 466     | 92                      | 553     | 216                     | 664     | 111                     | 792      | 122                     |
| 156     | 104                     | 467     | 93                      | 555     | 216                     | 700     | 116                     | 793      | 122                     |
| 158     | 104                     | 468     | 92                      | 556     | 216                     | 702     | 116                     | 800 CAF  | 36                      |
| 174     | 104                     | 469     | 91                      | 557     | 216                     | 703     | 116                     | 800 CAF  | 37                      |
| 177     | 104                     | 470     | 91                      | 558     | 216                     | 704     | 116                     | 800 CAFT | 37                      |
| 178     | 104                     | 471     | 94                      | 559     | 216                     | 705     | 117                     | 800 CI   | 36                      |
| 179     | 104                     | 475     | 91                      | 600     | 108                     | 706     | 117                     | 800 CI   | 37                      |
| 180     | 104                     | 476     | 91                      | 601     | 108                     | 707     | 117                     | 800 CIH  | 38                      |
| 181     | 104                     | 480     | 94                      | 602     | 108                     | 708     | 117                     | 800 CIHK | 38                      |
| 185     | 105                     | 481     | 94                      | 603     | 108                     | 713     | 117                     | 800 CIP  | 37                      |
| 186     | 105                     | 481 P   | 94                      | 603 AF  | 108                     | 714     | 117                     | 800 CIT  | 37                      |
| 187     | 105                     | 484     | 94                      | 604     | 108                     | 716     | 117                     | 800 H    | 38                      |
| 198     | 99                      | 484 P   | 94                      | 605     | 109                     | 718     | 117                     | 800 HK   | 38                      |
| 198 AF  | 99                      | 485     | 94                      | 606     | 109                     | 722     | 117                     | 802 AF   | 39                      |
| 200     | 99                      | 488     | 94                      | 607     | 109                     | 723     | 117                     | 802 CAF  | 40                      |
| 200 AF  | 99                      | 490     | 95                      | 608     | 109                     | 725     | 117                     | 802 CAFT | 40                      |
| 201     | 100                     | 493     | 95                      | 609     | 110                     | 726     | 117                     | 802 CI   | 39                      |
| 202     | 100                     | 494     | 95                      | 610     | 110                     | 727     | 117                     | 802 CI   | 40                      |

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| 802 CIH | 40                      | 843     | 59                      | 904 K   | 64                      | 950     | 75                      | 1003 AF | 82                      |
| 802 CIP | 40                      | 844     | 59                      | 904 U   | 64                      | 950 H   | 74                      | 1020    | 83                      |
| 802 CIT | 40                      | 846     | 59                      | 904 H   | 64                      | 950 R   | 75                      | 1020 AF | 83                      |
| 803 H   | 40                      | 849     | 159                     | 905     | 64                      | 950 HR  | 75                      | 1022    | 83                      |
| 805 CI  | 41                      | 853     | 160                     | 906     | 64                      | 951     | 75                      | 1024    | 83                      |
| 806     | 48                      | 855     | 160                     | 907     | 64                      | 953     | 75                      | 1025    | 83                      |
| 806 CI  | 48                      | 856     | 160                     | 907 A   | 64                      | 955     | 73                      | 1030    | 83                      |
| 808 P12 | 48                      | 857     | 160                     | 907 K   | 64                      | 960     | 73                      | 1031    | 83                      |
| 810 CI  | 43                      | 858     | 160                     | 908     | 65                      | 960 A   | 74                      | 1031 AF | 83                      |
| 810 AF  | 43                      | 859     | 160                     | 909     | 65                      | 961     | 74                      | 1045    | 84                      |
| 810 CIH | 44                      | 860     | 161                     | 910     | 65                      | 962     | 74                      | 1046    | 84                      |
| 810 CIK | 44                      | 861     | 160                     | 911     | 62                      | 963     | 74                      | 1050    | 84                      |
| 810 CIP | 44                      | 863     | 160                     | 912     | 62                      | 964     | 74                      | 1053    | 85                      |
| 810 CIT | 44                      | 864     | 160                     | 913     | 65                      | 965     | 72                      | 1054    | 85                      |
| 811 CI  | 45                      | 865     | 160                     | 914     | 65                      | 966     | 72                      | 1055    | 85                      |
| 811 AF  | 45                      | 866     | 161                     | 915     | 63                      | 967     | 72                      | 1056    | 85                      |
| 811 AFK | 46                      | 867     | 161                     | 916     | 66                      | 967 K   | 72                      | 1057    | 85                      |
| 811 AFT | 46                      | 868     | 161                     | 917     | 66                      | 968     | 72                      | 1058    | 85                      |
| 811 CIH | 47                      | 869     | 161                     | 918     | 66                      | 969     | 73                      | 1065    | 86                      |
| 811 CIK | 46                      | 870     | 154                     | 918 T   | 66                      | 969 H   | 73                      | 1066    | 86                      |
| 811 CIP | 46                      | 871     | 154                     | 919     | 66                      | 975     | 76                      | 1070    | 86                      |
| 811 CIT | 46                      | 872     | 154                     | 920     | 67                      | 975 AF  | 80                      | 1071    | 86                      |
| 813     | 47                      | 873     | 154                     | 921     | 67                      | 976     | 76                      | 1072    | 86                      |
| 813 B   | 47                      | 874     | 155                     | 922     | 68                      | 976 AF  | 80                      | 1075    | 87                      |
| 813 S   | 47                      | 875     | 155                     | 922 K   | 68                      | 977     | 76                      | 1076    | 87                      |
| 813 P   | 47                      | 876     | 155                     | 922 U   | 68                      | 977 AF  | 80                      | 1077    | 87                      |
| 814     | 47                      | 877     | 155                     | 922 H   | 68                      | 978     | 76                      | 1078    | 87                      |
| 815     | 49                      | 878     | 155                     | 922 D   | 68                      | 978 AF  | 80                      | 1079    | 87                      |
| 816     | 49                      | 879     | 155                     | 923     | 68                      | 979     | 77                      | 1125    | 266                     |
| 816 K   | 50                      | 879     | 156                     | 923 K   | 68                      | 979 AF  | 80                      | 1126    | 266                     |
| 817     | 50                      | 880     | 156                     | 924     | 69                      | 980     | 77                      | 1127    | 266                     |
| 818     | 50                      | 881     | 157                     | 925     | 69                      | 981     | 77                      | 1128    | 266                     |
| 820     | 50                      | 882     | 157                     | 926     | 69                      | 982     | 77                      | 1129    | 266                     |
| 821     | 58                      | 883     | 158                     | 927     | 69                      | 983     | 78                      | 1140    | 142                     |
| 824     | 58                      | 884     | 158                     | 928     | 69                      | 984     | 78                      | 1141    | 142                     |
| 825     | 41                      | 885     | 156                     | 929     | 68                      | 985     | 78                      | 1141 AF | 143                     |
| 825 K   | 41                      | 886     | 159                     | 929     | 159                     | 986     | 78                      | 1142    | 143                     |
| 830     | 42                      | 887     | 156                     | 930     | 69                      | 987     | 79                      | 1143    | 143                     |
| 830 CIH | 42                      | 888     | 156                     | 931     | 69                      | 988     | 79                      | 1144    | 145                     |
| 830 K   | 42                      | 889     | 159                     | 932     | 69                      | 989     | 79                      | 1145    | 145                     |
| 831     | 50                      | 890     | 159                     | 935     | 67                      | 990     | 81                      | 1146    | 145                     |
| 833     | 51                      | 891     | 159                     | 936     | 67                      | 990 AF  | 81                      | 1147    | 146                     |
| 835     | 51                      | 892     | 157                     | 940     | 70                      | 992     | 81                      | 1148    | 147                     |
| 836     | 51                      | 893     | 157                     | 940 AF  | 70                      | 992 R   | 81                      | 1149    | 147                     |
| 837     | 52                      | 894     | 57                      | 941     | 71                      | 993     | 81                      | 1150    | 146                     |
| 837 AF  | 52                      | 895     | 57                      | 942     | 71                      | 993 R   | 81                      | 1153    | 148                     |
| 838     | 53                      | 896     | 58                      | 943     | 71                      | 994     | 82                      | 1154    | 148                     |
| 838 AF  | 53                      | 897     | 58                      | 943     | 159                     | 995     | 82                      | 1155    | 150                     |
| 839     | 54                      | 898     | 59                      | 944     | 71                      | 996     | 82                      | 1156    | 150                     |
| 839 R   | 54                      | 899     | 59                      | 945     | 73                      | 997     | 82                      | 1160    | 140                     |
| 839 AF  | 54                      | 900     | 62                      | 946     | 73                      | 998     | 82                      | 1161    | 140                     |
| 840     | 55                      | 900 AF  | 62                      | 947     | 74                      | 1000    | 82                      | 1162    | 141                     |
| 840 AF  | 55                      | 901     | 63                      | 947 R   | 75                      | 1001    | 82                      | 1163    | 141                     |
| 841     | 56                      | 902     | 63                      | 948     | 74                      | 1002    | 82                      | 1164    | 141                     |
| 841 AF  | 56                      | 903     | 63                      | 948 R   | 75                      | 1002 AF | 82                      | 1165    | 141                     |
| 842     | 159                     | 904     | 63                      | 949     | 75                      | 1003    | 82                      | 1166    | 141                     |

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| 1167    | 144                     | 1261    | 128                     | 1324    | 170                     | 1396    | 166                     | 1521    | 196                     |
| 1167 AF | 144                     | 1262    | 128                     | 1325    | 169                     | 1397    | 166                     | 1525    | 196                     |
| 1168    | 148                     | 1263    | 128                     | 1326    | 169                     | 1398    | 166                     | 1526    | 196                     |
| 1169    | 148                     | 1265    | 128                     | 1327    | 169                     | 1400    | 172                     | 1527    | 196                     |
| 1170    | 149                     | 1266    | 128                     | 1328    | 170                     | 1401    | 172                     | 1528    | 196                     |
| 1171    | 147                     | 1268    | 128                     | 1329    | 170                     | 1402    | 172                     | 1530    | 197                     |
| 1172    | 149                     | 1269    | 129                     | 1330    | 161                     | 1403    | 172                     | 1531    | 197                     |
| 1173    | 149                     | 1270    | 129                     | 1331    | 161                     | 1405    | 172                     | 1532    | 197                     |
| 1174    | 149                     | 1271    | 129                     | 1333    | 161                     | 1406    | 172                     | 1533    | 174                     |
| 1174 R  | 149                     | 1272    | 129                     | 1335    | 171                     | 1407    | 172                     | 1534    | 174                     |
| 1175    | 149                     | 1273    | 129                     | 1336    | 171                     | 1410    | 172                     | 1535    | 174                     |
| 1176    | 150                     | 1274    | 129                     | 1337    | 161                     | 1415    | 173                     | 1536    | 174                     |
| 1177    | 150                     | 1275    | 129                     | 1338    | 171                     | 1416    | 173                     | 1538    | 176                     |
| 1178    | 149                     | 1276    | 130                     | 1339    | 171                     | 1420    | 173                     | 1539    | 176                     |
| 1183    | 150                     | 1277    | 130                     | 1340    | 162                     | 1425    | 173                     | 1540    | 177                     |
| 1184    | 151                     | 1278    | 130                     | 1341    | 162                     | 1426    | 173                     | 1541    | 177                     |
| 1185    | 151                     | 1279    | 130                     | 1342    | 162                     | 1430    | 173                     | 1542    | 177                     |
| 1186    | 151                     | 1280    | 130                     | 1343    | 162                     | 1431    | 175                     | 1543    | 177                     |
| 1187    | 151                     | 1281    | 131                     | 1344    | 162                     | 1431 H  | 175                     | 1544    | 177                     |
| 1188    | 151                     | 1282    | 131                     | 1345    | 162                     | 1432    | 175                     | 1550    | 197                     |
| 1189    | 151                     | 1283    | 130                     | 1346    | 163                     | 1433    | 175                     | 1551    | 197                     |
| 1190    | 132                     | 1285    | 131                     | 1347    | 163                     | 1435    | 173                     | 1552    | 197                     |
| 1191    | 132                     | 1287    | 131                     | 1348    | 163                     | 1436    | 173                     | 1553    | 197                     |
| 1192    | 132                     | 1288    | 131                     | 1349    | 163                     | 1437    | 174                     | 1554    | 197                     |
| 1193    | 132                     | 1289    | 131                     | 1350    | 162                     | 1437 B  | 174                     | 1555    | 197                     |
| 1194    | 132                     | 1295    | 133                     | 1351    | 162                     | 1438    | 175                     | 1556    | 198                     |
| 1195    | 132                     | 1295 S  | 133                     | 1352    | 162                     | 1439    | 175                     | 1557    | 198                     |
| 1201    | 124                     | 1296 S  | 133                     | 1353    | 162                     | 1440    | 176                     | 1558    | 198                     |
| 1202    | 125                     | 1298 S  | 134                     | 1354    | 167                     | 1441    | 176                     | 1559    | 198                     |
| 1206    | 124                     | 1300    | 133                     | 1355    | 167                     | 1442    | 176                     | 1560    | 197                     |
| 1211    | 124                     | 1300 S  | 134                     | 1356    | 167                     | 1450    | 192                     | 1561    | 197                     |
| 1216    | 124                     | 1301    | 133                     | 1359    | 162                     | 1450 B  | 192                     | 1562    | 197                     |
| 1217    | 125                     | 1301 S  | 134                     | 1361    | 162                     | 1451    | 192                     | 1563    | 197                     |
| 1221    | 124                     | 1302    | 133                     | 1371    | 163                     | 1452    | 192                     | 1565    | 198                     |
| 1222    | 125                     | 1302 S  | 134                     | 1372    | 163                     | 1453    | 192                     | 1566    | 198                     |
| 1226    | 125                     | 1303    | 133                     | 1373    | 164                     | 1463    | 192                     | 1567    | 176                     |
| 1227    | 125                     | 1303 S  | 134                     | 1374    | 164                     | 1463 K  | 192                     | 1568    | 174                     |
| 1231    | 124                     | 1304    | 133                     | 1375    | 164                     | 1464    | 192                     | 1570    | 198                     |
| 1232    | 124                     | 1304 S  | 134                     | 1378    | 164                     | 1464 K  | 192                     | 1571    | 198                     |
| 1236    | 125                     | 1305 S  | 134                     | 1379    | 164                     | 1465    | 192                     | 1573    | 198                     |
| 1240    | 125                     | 1306 S  | 134                     | 1380    | 164                     | 1466    | 192                     | 1575    | 199                     |
| 1241    | 125                     | 1308    | 170                     | 1381    | 164                     | 1499    | 152                     | 1576    | 199                     |
| 1245    | 126                     | 1309    | 170                     | 1382    | 164                     | 1500    | 193                     | 1578    | 199                     |
| 1246    | 126                     | 1310    | 166                     | 1383    | 165                     | 1501    | 194                     | 1580    | 199                     |
| 1247    | 126                     | 1311    | 166                     | 1384    | 165                     | 1505    | 194                     | 1581    | 199                     |
| 1248    | 126                     | 1312    | 167                     | 1385    | 172                     | 1506    | 194                     | 1582    | 199                     |
| 1252    | 127                     | 1313    | 167                     | 1386    | 165                     | 1507    | 194                     | 1583    | 199                     |
| 1253    | 126                     | 1314    | 167                     | 1387    | 165                     | 1508    | 195                     | 1590    | 206                     |
| 1253 S  | 126                     | 1316    | 167                     | 1388    | 165                     | 1509    | 195                     | 1591    | 206                     |
| 1254    | 126                     | 1317    | 167                     | 1389    | 165                     | 1513    | 195                     | 1592    | 206                     |
| 1254 S  | 127                     | 1318    | 168                     | 1390    | 172                     | 1514    | 195                     | 1595    | 206                     |
| 1258    | 127                     | 1319    | 168                     | 1391    | 172                     | 1515    | 195                     | 1596    | 206                     |
| 1258 S  | 127                     | 1320    | 168                     | 1392    | 172                     | 1516    | 195                     | 1600    | 207                     |
| 1258 H  | 127                     | 1321    | 168                     | 1393    | 165                     | 1517    | 196                     | 1601    | 207                     |
| 1259    | 128                     | 1322    | 168                     | 1394    | 165                     | 1518    | 196                     | 1602    | 207                     |
| 1260    | 128                     | 1323    | 168                     | 1395    | 166                     | 1520    | 196                     | 1603    | 207                     |

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| 1605     | 207                     | 1722     | 14                      | 1823     | 181                     | 1885     | 186                     | 1977     | 179                     |
| 1606     | 207                     | 1723     | 14                      | 1824     | 181                     | 1886     | 187                     | 1978     | 179                     |
| 1607     | 207                     | 1724     | 15                      | 1830     | 181                     | 1887     | 187                     | 1979     | 179                     |
| 1608     | 207                     | 1725     | 19                      | 1831     | 181                     | 1888     | 187                     | 1980     | 180                     |
| 1609     | 207                     | 1726 mm  | 24                      | 1832     | 182                     | 1889     | 187                     | 1981     | 180                     |
| 1610     | 207                     | 1726 AF  | 24                      | 1833     | 182                     | 1890     | 187                     | 1982     | 180                     |
| 1611     | 207                     | 1727     | 15                      | 1834     | 182                     | 1891     | 187                     | 1983     | 180                     |
| 1612     | 207                     | 1728     | 15                      | 1835     | 181                     | 1892     | 187                     | 1984     | 180                     |
| 1613     | 207                     | 1729     | 15                      | 1836     | 181                     | 1893     | 187                     | 1985     | 180                     |
| 1614     | 207                     | 1732 B   | 8                       | 1837     | 182                     | 1894     | 187                     | 1986     | 180                     |
| 1615     | 209                     | 1732 KB  | 8                       | 1838     | 182                     | 1895     | 187                     | 1990     | 180                     |
| 1616     | 209                     | 1737     | 8                       | 1839     | 182                     | 1896     | 187                     | 1991     | 180                     |
| 1617     | 209                     | 1738     | 8                       | 1840     | 190                     | 1897     | 187                     | 1992     | 180                     |
| 1618     | 209                     | 1739     | 15                      | 1841     | 190                     | 1898     | 187                     | 1994     | 180                     |
| 1619     | 209                     | 1743     | 9                       | 1842     | 190                     | 1899     | 187                     | 2100     | 200                     |
| 1620     | 209                     | 1744     | 9                       | 1843     | 190                     | 1900     | 33                      | 2105     | 201                     |
| 1621     | 209                     | 1745     | 9                       | 1844     | 190                     | 1901-1   | 33                      | 2110     | 202                     |
| 1622     | 209                     | 1746     | 9                       | 1845     | 190                     | 1901-2   | 33                      | 2115     | 203                     |
| 1623     | 209                     | 1747     | 10                      | 1846     | 190                     | 1901-3   | 33                      | 2120     | 204                     |
| 1625     | 209                     | 1748     | 10                      | 1847     | 182                     | 1902     | 33                      | 2130     | 205                     |
| 1630     | 209                     | 1749     | 10                      | 1848     | 182                     | 1903     | 33                      | 2131     | 205                     |
| 1631     | 209                     | 1750     | 25                      | 1850     | 190                     | 1904     | 33                      | 2132     | 205                     |
| 1632     | 209                     | 1751     | 26                      | 1851     | 183                     | 1905     | 33                      | 2133     | 205                     |
| 1633     | 209                     | 1752 AF  | 28                      | 1852     | 183                     | 1906     | 33                      | 2134     | 205                     |
| 1640     | 209                     | 1752 MM  | 27                      | 1853     | 183                     | 1907     | 34                      | 2135     | 205                     |
| 1641     | 209                     | 1753     | 29                      | 1854     | 183                     | 1910     | 34                      | 2200     | 188                     |
| 1645     | 209                     | 1754     | 30                      | 1855     | 183                     | 1920     | 34                      | 2201     | 188                     |
| 1646     | 209                     | 1765     | 16                      | 1856     | 184                     | 1921     | 34                      | 2202     | 188                     |
| 1648     | 209                     | 1767     | 16                      | 1857     | 184                     | 1922     | 34                      | 2203     | 188                     |
| 1651     | 207                     | 1770     | 16                      | 1858     | 184                     | 1923     | 34                      | 2204     | 188                     |
| 1654     | 207                     | 1772     | 16                      | 1859     | 184                     | 1924     | 187                     | 2205     | 188                     |
| 1657     | 207                     | 1773     | 16                      | 1860     | 184                     | 1925     | 187                     | 2206     | 188                     |
| 1675     | 210                     | 1775     | 16                      | 1861     | 184                     | 1926     | 187                     | 2207     | 188                     |
| 1676     | 210                     | 1776     | 17                      | 1862     | 184                     | 1927     | 187                     | 2208     | 188                     |
| 1677     | 211                     | 1777     | 17                      | 1863     | 184                     | 1928     | 187                     | 2209     | 188                     |
| 1678     | 211                     | 1778     | 17                      | 1864     | 185                     | 1929     | 187                     | 2210     | 188                     |
| 1700     | 11                      | 1779     | 17                      | 1865     | 185                     | 1930     | 187                     | 2211     | 188                     |
| 1701     | 11                      | 1780     | 17                      | 1866     | 185                     | 1931     | 187                     | 2212     | 188                     |
| 1702     | 11                      | 1783     | 18                      | 1867     | 185                     | 1932     | 187                     | 2213     | 188                     |
| 1703     | 11                      | 1784     | 18                      | 1868     | 185                     | 1933     | 187                     | 2214     | 188                     |
| 1704     | 11                      | 1785     | 18                      | 1869     | 185                     | 1934     | 187                     | 2215     | 188                     |
| 1705     | 12                      | 1786     | 18                      | 1870     | 185                     | 1935     | 187                     | 2216     | 188                     |
| 1706     | 12                      | 1787     | 17                      | 1871     | 185                     | 1950 H   | 32                      | 2217     | 188                     |
| 1707     | 12                      | 1790     | 20                      | 1872     | 182                     | 1950 A   | 32                      | 2218     | 188                     |
| 1708     | 12                      | 1791     | 21                      | 1873     | 182                     | 1965     | 178                     | 2219     | 188                     |
| 1709     | 12                      | 1793     | 22                      | 1874     | 182                     | 1966     | 178                     | 2220     | 188                     |
| 1710     | 19                      | 1794     | 23                      | 1875     | 182                     | 1967     | 178                     | 2221     | 188                     |
| 1711     | 19                      | 1799     | 31                      | 1876     | 183                     | 1968     | 178                     | 2222     | 188                     |
| 1713     | 13                      | 1815     | 181                     | 1877     | 186                     | 1969     | 178                     | 2223     | 188                     |
| 1714     | 13                      | 1816     | 181                     | 1878     | 186                     | 1970     | 178                     | 2224     | 188                     |
| 1715     | 146                     | 1817     | 181                     | 1879     | 186                     | 1971     | 178                     | 2225     | 189                     |
| 1716     | 13                      | 1818     | 181                     | 1880     | 186                     | 1972     | 178                     | 2226     | 189                     |
| 1717     | 13                      | 1819     | 181                     | 1881     | 186                     | 1973     | 178                     | 2227     | 189                     |
| 1718     | 14                      | 1820     | 181                     | 1882     | 186                     | 1974     | 179                     | 2228     | 189                     |
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| 2231     | 189                     | 4030     | 256                     | 7320     | 210                     | 21443    | 228                     | 212800   | 223                     |
| 2232     | 190                     | 4031     | 256                     | 7321     | 210                     | 21448    | 228                     | 212850   | 224                     |
| 2233     | 190                     | 4040     | 258                     | 7322     | 210                     | 21449    | 228                     | 212900   | 226                     |
| 2234     | 190                     | 4045     | 258                     | 7323     | 210                     | 24106    | 238                     | 212910   | 226                     |
| 2235     | 190                     | 4050     | 258                     | 7324     | 210                     | 24116    | 238                     | 213000   | 225                     |
| 2236     | 190                     | 4060     | 258                     | 7325     | 210                     | 24206    | 238                     | 213010   | 225                     |
| 2237     | 190                     | 4070     | 258                     | 7390     | 277                     | 24501    | 238                     | 213015   | 227                     |
| 2238     | 190                     | 4080     | 259                     | 7392     | 277                     | 24511    | 238                     | 213200   | 225                     |
| 2239     | 190                     | 4090     | 259                     | 7393     | 279                     | 24611    | 238                     | 213210   | 225                     |
| 2240     | 190                     | 4095     | 259                     | 7395     | 279                     | 28115    | 238                     | 213215   | 227                     |
| 3000     | 242                     | 4100     | 260                     | 7400     | 289                     | 28120    | 238                     | 214000   | 226                     |
| 3010     | 242                     | 4110     | 260                     | 7401     | 289                     | 28130    | 235                     | 214010   | 226                     |
| 3015     | 243                     | 4120     | 260                     | 7402     | 289                     | 28131    | 235                     | 214450   | 228                     |
| 3020     | 243                     | 4121     | 261                     | 7403     | 289                     | 28306    | 237                     | 214470   | 228                     |
| 3030     | 244                     | 4122     | 261                     | 7404     | 290                     | 28307    | 237                     | 214600   | 229                     |
| 3031     | 244                     | 4130     | 261                     | 7405     | 290                     | 28308    | 237                     | 215000   | 226                     |
| 3040     | 245                     | 4140     | 262                     | 7406     | 290                     | 28310    | 234                     | 216900   | 229                     |
| 3041     | 245                     | 4150     | 262                     | 7407     | 291                     | 28311    | 234                     | 216960   | 229                     |
| 3045     | 245                     | 4151     | 262                     | 7408     | 291                     | 28313    | 234                     | 218006   | 230                     |
| 3050     | 246                     | 4160     | 263                     | 7410     | 291                     | 28314    | 234                     | 219000   | 230                     |
| 3060     | 246                     | 4170     | 263                     | 7411     | 291                     | 28316    | 235                     | 219001   | 230                     |
| 3065     | 246                     | 4171     | 263                     | 7412     | 292                     | 28317    | 235                     | 219050   | 230                     |
| 3070     | 247                     | 4180     | 264                     | 7413     | 292                     | 28322    | 236                     | 219051   | 230                     |
| 3080     | 247                     | 4190     | 264                     | 7414     | 292                     | 28323    | 236                     | 219060   | 230                     |
| 3090     | 248                     | 4191     | 264                     | 7416     | 293                     | 28325    | 236                     | 219061   | 230                     |
| 3095     | 248                     | 4201     | 272                     | 7417     | 293                     | 28326    | 236                     | 219100   | 230                     |
| 3100     | 248                     | 4202     | 270                     | 7418     | 294                     | 28327    | 236                     | 219101   | 230                     |
| 3110     | 248                     | 4204     | 270                     | 7419     | 294                     | 28333    | 237                     | 219200   | 230                     |
| 3120     | 249                     | 4207     | 271                     | 7420     | 295                     | 28334    | 237                     | 219210   | 230                     |
| 3121     | 249                     | 4215     | 271                     | 7421     | 295                     | 210000   | 224                     | 219300   | 229                     |
| 3122     | 250                     | 5045     | 272                     | 7422     | 296                     | 210010   | 224                     | 219310   | 229                     |
| 3130     | 250                     | 6001     | 266                     | 7423     | 296                     | 210015   | 227                     | 219320   | 229                     |
| 3132     | 251                     | 6010     | 266                     | 7424     | 297                     | 210100   | 224                     | 219330   | 229                     |
| 3133     | 251                     | 6030     | 266                     | 7500     | 276                     | 210105   | 227                     | 219350   | 229                     |
| 3135     | 252                     | 6390     | 249                     | 7501     | 276                     | 210110   | 224                     | 219360   | 231                     |
| 3140     | 253                     | 6391     | 249                     | 7502     | 279                     | 210500   | 223                     | 219370   | 231                     |
| 3150     | 253                     | 6392     | 252                     | 7503     | 279                     | 210515   | 227                     | 219380   | 231                     |
| 3151     | 253                     | 6393     | 252                     | 7504     | 282                     | 210600   | 223                     | 219390   | 231                     |
| 3160     | 253                     | 6400     | 267                     | 7505     | 282                     | 210615   | 227                     | 221500   | 231                     |
| 3160 F   | 253                     | 6410     | 267                     | 7507     | 282                     | 211000   | 224                     | 232000   | 238                     |
| 3170     | 253                     | 6420     | 267                     | 7508     | 283                     | 211010   | 224                     | 235630   | 231                     |
| 3171     | 253                     | 6421     | 267                     | 7512     | 283                     | 211015   | 227                     | 235650   | 231                     |
| 3180     | 253                     | 6425     | 267                     | 7514     | 284                     | 211500   | 223                     | 235651   | 231                     |
| 3190     | 253                     | 6428     | 267                     | 7517     | 284                     | 211600   | 223                     |          |                         |
| 3191     | 253                     | 6430     | 267                     | 7518     | 285                     | 212000   | 225                     |          |                         |
| 3201     | 272                     | 6435     | 267                     | 7520     | 285                     | 212010   | 225                     |          |                         |
| 3202     | 270                     | 6439     | 267                     | 7522     | 286                     | 212100   | 225                     |          |                         |
| 3204     | 270                     | 6440     | 267                     | 7595     | 280                     | 212110   | 225                     |          |                         |
| 3207     | 271                     | 6445     | 267                     | 7596     | 281                     | 212500   | 223                     |          |                         |
| 3215     | 271                     | 6450     | 267                     | 7597     | 281                     | 212515   | 227                     |          |                         |
| 3219     | 272                     | 6451     | 267                     | 20108    | 219                     | 212600   | 223                     |          |                         |
| 3220     | 272                     | 7315     | 269                     | 20115    | 218                     | 212615   | 227                     |          |                         |
| 4000     | 254                     | 7316     | 269                     | 20120    | 219                     | 212700   | 223                     |          |                         |
| 4010     | 254                     | 7317     | 269                     | 20300    | 220                     | 212750   | 223                     |          |                         |
| 4015     | 255                     | 7318     | 269                     | 21441    | 228                     | 212760   | 224                     |          |                         |

**1. Gültigkeit**

Für alle Verkäufe sind die nachstehenden Bedingungen verbindlich. Eventuelle Abweichungen oder mündliche Nebenabsprachen bedürfen unserer schriftlichen Bestätigung. Vertragsbindungen durch den Besteller können wir nicht anerkennen, auch wenn wir nicht separat widersprechen. Durch Auftragserteilung werden neben den von uns angebotenen Preisen auch unsere Lieferungs- und Zahlungsbedingungen anerkannt.

**2. Angebote**

Alle unsere Angebote sind bezüglich Preis und Lieferzeit freibleibend.

**3. Auftragserteilung**

Eingehende Aufträge werden nur auf schriftlichen Wunsch bestätigt. Aufträge werden nur zu unseren Verkaufs- und Lieferbedingungen angenommen. Einkaufsbedingungen unserer Kunden haben keine Gültigkeit. Änderungen und Nebenreden mündlicher Art bedürfen unserer schriftlichen Bestätigung.

**4. Lieferung**

Wir liefern grundsätzlich im Inland "Frei Haus" wobei wir bis EUR 385,-- netto Auftragswert die Fracht billigt berechnen und zwischen EUR 386,-- bis EUR 769,-- ein verbilligtes Rollgeld berechnen. Ab EUR 770,-- liefern wir "Frei Haus" oder "Frei deutsche Grenze". Export ab EUR 1300,-- Netto Auftragswert liefern wir FOB inklusive Verpackung.

**5. Mindermengenauspauschale**

Der Mindestauftragswert beträgt EUR 50,--. Wird dieser Wert nicht erreicht behalten wir uns vor eine Bearbeitungspauschale von EUR 10,-- zu berechnen.

**6. Lieferzeit**

Die Lieferzeit ist grundsätzlich kurzfristig sofern die bestellten Artikel am Lager sind. Schadenersatzansprüche oder Verzugszinsen wegen verspäteter Lieferung sind nicht möglich.

**7. Nachlieferung**

Artikel, die bei Versand des Auftrags nicht vorrätig oder nicht kurzfristig verfügbar sind, behalten wir als Rückstand und werden mit einem folgenden Auftrag mitgeliefert.

Franco-Nachlieferung ist grundsätzlich ausgeschlossen, wenn der Wert der neuen Sendung unter EUR 385,-- liegt.

**8. Versand**

Der Versand erfolgt auf Gefahr des Empfängers. Beim Transport abhanden gekommene oder beschädigte Ware muß sofort bei Erhalt am Spediteur bescheinigt und auch dort reklamiert werden, da wir diese nicht ersetzen.

**9. Mängelrügen**

Offene und versteckte Mängel müssen uns innerhalb der gesetzlich festgelegten Frist schriftlich bekanntgegeben werden. Wir übernehmen in der Weise Gewähr, daß wir im Falle von Material- oder Herstellungsfehlern die Ware zum berechneten Preis zurücknehmen oder nach unserer Wahl durch neue einwandfreie Ware ersetzen.

**10. Garantie**

Für gelieferte Ware übernehmen wir volle Garantie, wenn der Fehler auf Bearbeitungs- oder Materialfehler zurückzuführen ist. In jedem Fall ist die defekte Ware frachtfrei zurückzusenden. Nach unserer Prüfung behalten wir uns vor, eine Gut-schrift zu erteilen oder einwandfreie, neue Ware zu schicken. In Zweifelsfällen können wir die beanstandete Ware durch die Prüfanstalt prüfen lassen. Die Kosten trägt der unterliegende Teil.

**11. Zahlungsbedingungen**

Innerhalb 10 Tagen mit 2% Skonto oder in 30 Tagen netto. Die Annahme von Schecks und Wechseln erfolgt nur zahlungshalber. Alle Nebenkosten gehen zu Lasten des Bestellers. Die Zurückhaltung der Zahlung wegen Minderungs- oder sonstiger Gegenansprüche des Bestellers ist ausgeschlossen.

**12. Eigentumsvorbehalt**

Die von uns gelieferte Ware bleibt bis zur vollständigen Bezahlung aller Forderungen aus der Geschäftsverbindung unser Eigentum (erweiterter Kontokorrent - Eigentumsvorbehalt). Dies gilt auch für die Gefahr des Untergangs oder der Beschädigung der von uns gelieferten Ware. Die vorherige Verpfändung oder Sicherungsübereignung der unter Eigentumsvorbehalt stehenden Waren ist unzulässig. Im Falle der Weiterveräußerung der unter Eigentumsvorbehalt stehenden Gegenstände tritt unser Käufer die Ansprüche zwischen unserem Käufer und dem Dritten an uns ab. Dies gilt in der Höhe der jeweils noch bestehenden Forderungen zzgl. der evtl. anfallenden Zinsen.

**13. Sonderanfertigungen**

Bei Sonderanfertigungen können die Liefermengen bis zu 15 % über- oder unterschritten werden. Der Besteller kann nicht vom Auftrag zurücktreten bzw. Änderung des Kaufvertrages verlangen. Die gilt auch für serienmäßig hergestellte Ware, die im Auftrag des Bestellers mit einem Sonderzeichen markiert wurde.

**14. Erfüllungsort und Gerichtsstand**

Erfüllungsort und Gerichtsstand ist in jedem Fall Wermelskirchen. Mit einer Bestellung erkennt der Kunde unsere obigen Verkaufs-, Liefer- und Zahlungsbedingungen an.

**1. Validity**

All sales are subject to the following conditions. Any deviations or supplementary oral agreements require our written confirmation. No conditions of the purchaser shall be binding on us, even without our express contradiction. Our prices and conditions of delivery and payment shall be deemed to be accepted by the purchaser when he places an order with us.

**2. Quotations**

All our quotations are in reference of price and delivery times not binding on us.

**3. Placing orders**

Placed orders are confirmed only upon request. Orders are accepted only according to our terms of sale and delivery. Terms of purchase of the customers are not valid. Modifications or verbal terms have to be confirmed through us by letter.

**4. Delivery**

Generally we supply "Delivery Duty unpaid". For orders exceeding a net value of EUR 385,-- we calculate a cheap freight and between EUR 386,-- to EUR 769,-- we calculate a cheap carriage. For values exceeding EUR 770,-- we deliver "free to the delivery address" or "free german border". Export, from value of EUR 1.300,-- net we deliver "FOB" inclusive packing.

**5. Flat fee for small orders**

The minimum order value is EUR 50,--. If you don't reach this value we reserve us to calculate a flat fee for small orders of EUR 10,--.

**6. Deliverytime**

Our deliverytime is generally short, in case the ordered goods are in stock. Claims for damages or interest for delay because of late delivery are not possible.

**7. Subsequent delivery**

The items, that are not available on delivery or within shortest time, are noted and will be supplied with a next order. Franco-subsequent delivery is generally excluded, when the net-value of the new shipment is less than EUR 385,--.

**8. Dispatch**

Shipment is always effected at risk of the buyer. Goods missing or damaged on transport have to be claimed immediately after receipt at the transporter, because we do not replace them.

**9. Notice of defects**

The purchaser shall notify us in writing of any apparent or latent defect within the period of time as provided for by law. In cases when notices of defects are justified, we will at our sole discretion take back the goods and refund the purchase price or replace the defective parts with flawless ones.

**10. Guarantee**

We take full guarantee for goods supplied by our company, in case the mistake is caused by wrong production or materials. Defective goods have to be returned to us free of charge in any case. After our examination we can either send a credit note or send new goods. In case of doubt we are in the position to have the claimed goods examined by the experimental station in Remscheid. The arising costs have to be paid by the unsuccessful party.

**11. Terms of payment**

Within 10 days at 2% cash discount or within 30 days net. The acceptance of cheques or drafts is only made on payment purpose. All charges arising are for buyer's account. Retention of a payment due to demand of decrease or any other demands of the buyer are excluded.

**12. Reservation of proprietary rights**

All goods supplied shall remain our property until all claims resulting from the contract have been paid in full (extended current account - reservation of proprietary rights). The same applies to the risk of loss or damage to the goods supplied by us. Prior leasing or mortgaging of the goods subject to reservation of proprietary rights is not permitted. In the case where the purchaser sells the goods subject to reservation of proprietary rights, he shall assign to us his claims against his customer up to the amount of our claim plus interest, if any.

**13. Special makes**

The delivered quantities of special products may exceed or fall below the ordered quantities by 15 %. The purchaser shall not be entitled to withdraw from the contract or request an alteration to the contract. The same applies to standard products marked with a special stamp at the purchaser's request.

**14. Jurisdiction**

Place of jurisdiction and fulfilment is Wermelskirchen in any case. Our customers are accepting the above terms of sale, delivery and payment, when they are placing an order.

#### 1. Validité

Pour tout le vent le suivant conditions sont obligatoire. Eventuelle déviations ou d'autre conventions par verbal avons besoin de notre confirmation par écrit. Les conditions d'achat du écrit. Les conditions d'achat du client ne peut etre reconnu, même ce nous ne contredire séparé. Avec la passation de commande vous accepté aussi nos conditions de vente.

#### 2. Offres

Tout notre offres sont concerner le prix et délai de livraison sont facultatifs.

#### 3. Passation de Commande

Les commandes passé sont confirmer sur demande formelle. Les ordres sont accepté seulement d' après nos conditions de vente. Les conditions d'achat du client ne sont pas valables.

#### 4. Livraison

En principe nous livrons libre en l'intérieur du pays, de quoi jusqu'à une valeur net d'ordre de EUR 385,- nous calculons une fret équitale et entre une valeur net d'ordre de 386,- EUR jusqu'à EUR 769,- nous calculons une camionnage équitale. A partir d'une valeur net d'ordre de EUR 770,- nous livrons "libre" ou "franco frontière Alemand". Exportation a partir d'une valeur net d'ordre de EUR 1.300,- nous livrons FOB inclus emballage.

#### 5. Quantité inférieure forfaitaire

Le valeur de la commande se monter à EUR 50,- au minimum. Si cette valeur n'est pas rattraper nous calculons un forfait de travail de EUR 10,-.

#### 6. Délai de livraison

Le délai de livraison est très court en principe si les articles sont en magasin. Une demande de dommage et intérêts de retard ne sont pas possible.

#### 7. Après livraison

Des articles pas disponible à la date de livraison ou en court temps, sont notés ici et sont livrés avec une prochaine ordre. Une livraison Franco n'est pas possible, si le valeur de la nouvelle livraison est dessous de EUR 385,-.

#### 8. Expédition

L'expédition arrive au risque du client. S'il y a des marchandise perdu ou dommagé au transport, l'expéditeur faut le certifier tout de suite au reçu et le client faut le récapitulé chez l'expéditeur.

#### 9. Avis défauts

Défauts visible et cacher devoir nous annoncer par écrit au dedans de le temps légal. Nous prendre garantie, en cas d'une faute de le matériaux ou de la fabrication, la marchandise est reprendre pour le prix calculé ou nous restituer avec marchandise irrécusable.

#### 10. Garantie

Nous garantissons pour chaque outil livré et remplaçons gratuitement les outils inutilisable, pourvu que les défauts soient les défauts de fabrication ou de matériaux. En tout

le cas les outils défectueux faut être retourné franco de fret à nous. Après notre examination nous pouvons faire une note de crédit ou livrer des outils impeccable. En cas de doute nous pouvons laisser examiner les outils réclamé par la station d'essai à Remscheid. Le part, qui à le dessous, faut paier les costs de cette examination.

#### 11. Conditions de règlement

Avec 2 % d'escompte dans les 10 jours ou net dans les 30 jours. Des chèques et des changements sont accepté seulement pour payer. Les frais supplémentaires sont au débit du client. Le détenir du paiement à cause de prétention de réduction ou d'autres prétentions est exclu.

#### 12. Réserve de propriété

Le vendeur se réserve la propriété de ses livraisons de marchandise, jusqu'à tous les prétentions de la relations commerciale, inclusivement le danger d'outils couler ou endommagement d'outils, sont payés.

#### 13. Fabrication spéciale

Pour les fabrication spéciale nous livrons une quantité de 15 % moins ou plus. Le commettant ne peut pas se retirer de l'ordre ou il ne peut pas demander modification en le contrat d'achat. Cette valable aussi pour la marchandise fabriqué sériel.

Cettes en l'ordre de le commettant marquer avec une caractère spécial.

#### 14. Jurisdiction

La place pour la jurisdiction est Wermelskirchen en tout cas. Le client accepte nos conditions de vente, livraison et règlement s'il place une ordre.

#### 1. Válido

Para todas ventas las siguientes condiciones son vinculantes. Eventual diversiones o otros acuerdos verbales necesitan nuestra confirmación escrita. Condiciones por lo comprador no podemos reconocer, mismo que nosotros no contradecimos separado.

Por petición de pedidos llegan a ser reconocidos al lado de los precios ofrecidos tambien nuestras condiciones de entrega y de pago.

#### 2. Ofertas

Todas nuestras ofertas son referentes a los precios y tiempo de entrega.

#### 3. Petición de pedidos

Los pedidos serán confirmados solo bjo petición expresa. Los pedidos son aceptados solo bajo nuestras condiciones de entrega y entrega. Las condiciones de compra impuestas unilateralmente por les clientes no son validas. Modificaciones verbales de las condiciones deben ser confirmados per escrito.

#### 4. Porte

Generalmente las condiciones de entrega son libres en territorio nacional con lo cual nosotros calculamos en un valor de pedido hasta 385,- EUR neto un gasto de transporte barato y entre 386,- EUR hasta 769,- EUR un camionage barato. Desde 770,- EUR nosotros suministramos "libre" o "puesto en frontera alemana". Exportación, desde un valor de 1300,- EUR nosotros suministramos FOB inclusivo embalaje.

#### 5. Suplemento para cantidad mínima

Lo valor mínimo de un pedido ascende 50,- EUR . Si este valor no es alcanzado nosotros de calculamos una suma de trabajo de 10,-EUR.

#### 6. Tiempo de entrega

Nuestro tiempo de entrega es generalmente corto, en caso de que los productos pedidos estén en existencia. Reclamaciones por perjuicios debidos al retraso en la entrega no son admitidos.

#### 7. Pedidos pendientes

Los artículos que no se encuentren en existencia o en un corto periodo de tiempo, serán suministrados en el siguiente pedido. El porte del pedido pendiente es generalmente excluido si el nuevo pedido es menor de EUR 385,-.

#### 8. Despacho

El envio es siempre efectuado bajo riesgo del comprador. Los productos faltantes o danados en el transporte deberan ser inmediatamente reclamados al transportista desques de recibirlos, ya que no lo repondremos.

#### 9. Reclamaciones

Defectos visibles o escondidos tienen de nos ser comunicados en el plazo de la ley. Nosotros hacemos cargo de garantia, que en caso de errors en el material o en la producción o los productos serán aceptados por el precio calculado o segun nuestro deseo les reemplazamos por productos sin defecto.

#### 10. Garantia

Garantizamos totalmente los productos suministrados por nuestra compania, en caso de que el error sea causado por culpa de la producción o de los materiales. Los productos defectuosos nos serán devueltos libres de cargos en cualquier caso. Después d examinarlos les remitiremos un abono o le mandaremos un producto nuevo. En caso de duda, el producto podrá ser examinado por el centro experimental en Remscheid. La parte sin éxito corra con los gastos.

#### 11. Condiciones de pago

Contra 10 días 2% de descuento o neto a los 30 días. La aceptación de cheques o efectos es solo hecha como propósito de pago. Todos los gastos derivados serán por cuenta del comprador. La retencion del pago debido a disminuciones o cualquier otra reclamación del comprador están excluidas.

#### 12. Derechos de propiedad

La mercancía que nosotros suministramos quedase nuestra, hasta lo pagamento completo. Isto tambien vale para lo peligro de la desaparencia de deterioro de nuestra mercancía.

#### 13. Fabricación especiales

En casa de fabricación especiales las cantidades de entrega pueden ser más bajas o más altas hasta 15%. Lo comprador no puede se retirar del pedido o él no puede pedir modificaciones en el contrato de compra. Esto también vale para mercancía fabricada en serie, que esta marcada en el pedido del comprador con un carácter especial.

#### 14. Jurisdicción

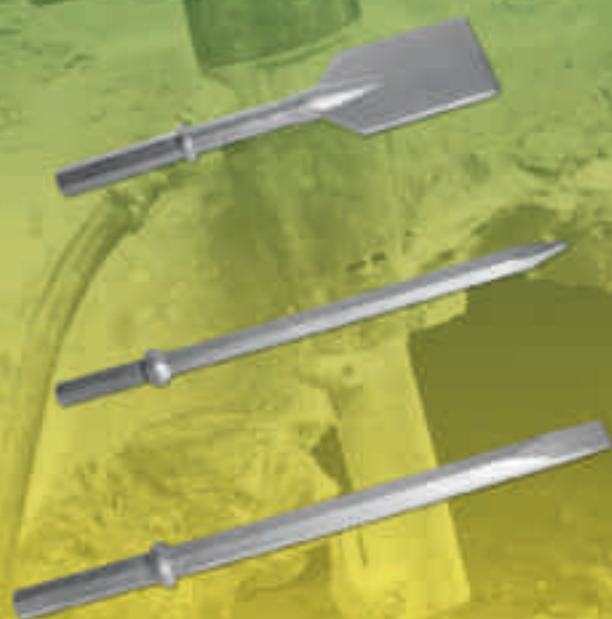
En cualquier caso la jurisdicción será reservada a los Tribunales de Wermelskirchen. Nuestros clientes aceptan las indicadas condiciones de venta, portes y pago cuando efectuan el pedido.





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