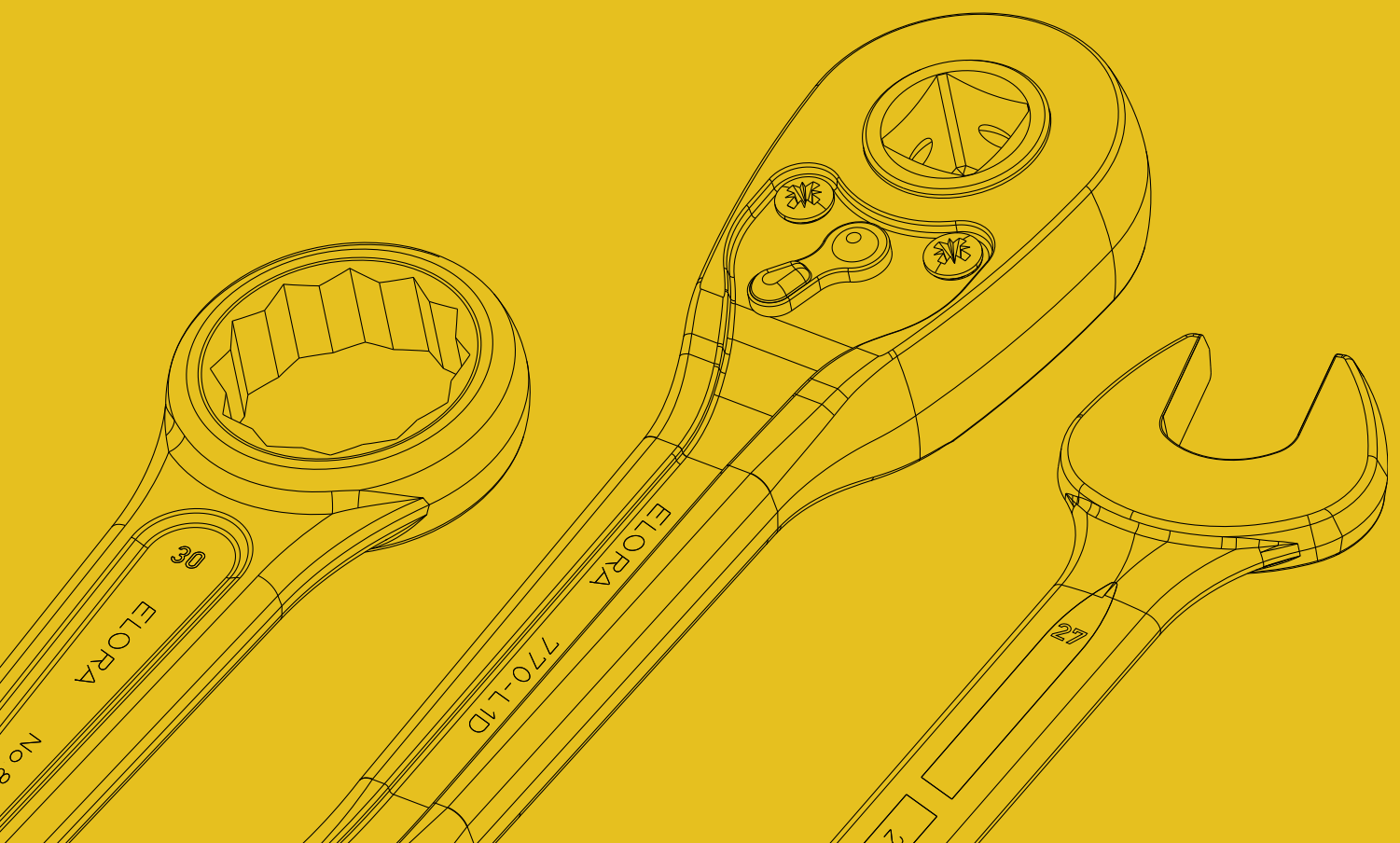
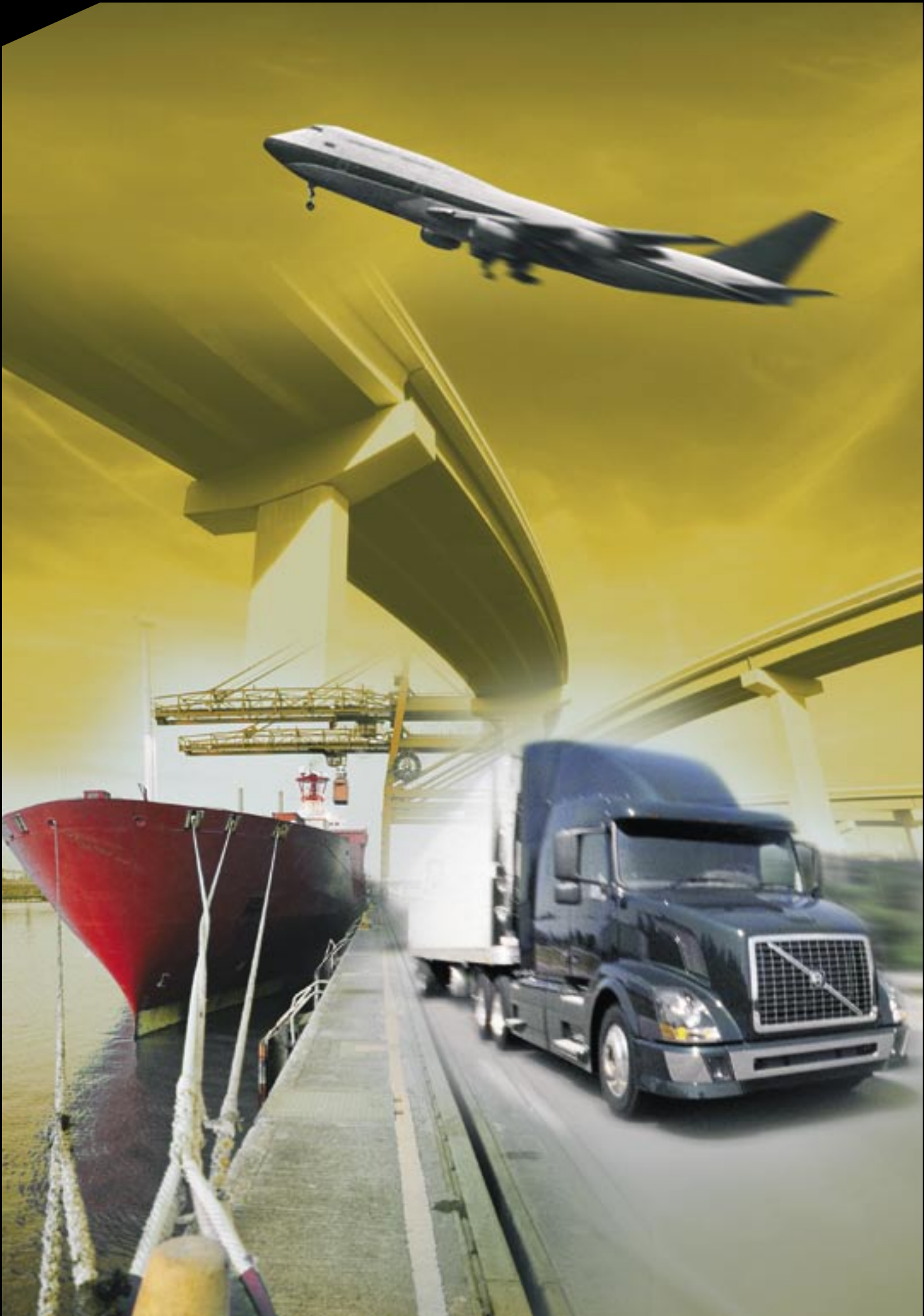




# TOOLCATALOGUE E81





## ELORA – QUALITY, CONVINCING ON AN INTERNATIONAL SCALE.

„To me, it was always an unbearable thought that, when checking one of my products, somebody might prove that I manufacture something of inferior quality.“

*(Robert Bosch, 1928)*

### PREAMBLE



Always keeping pace with the times we realised very early the importance of Export markets. From the very beginning not only the European markets, but also the Overseas markets played an important role in the development of ELORA. This led to the fact that today ELORA is established on the markets in the Middle and Far East as one of the leading brands. We notice with great satisfaction that

whenever people look for high quality in the countries which flood the German and European market with cheap products, ELORA products are their first choice. All our actions are dominated by the strongest will only to manufacture to the highest quality. Each and every ELORA tool is a product which has a world-wide convincing quality standard.





*Management with old tradition. The picture shows the two Managing Directors Erich and Andreas Rauch.*





## **ELORA – TRADITION MADE IN GERMANY.**

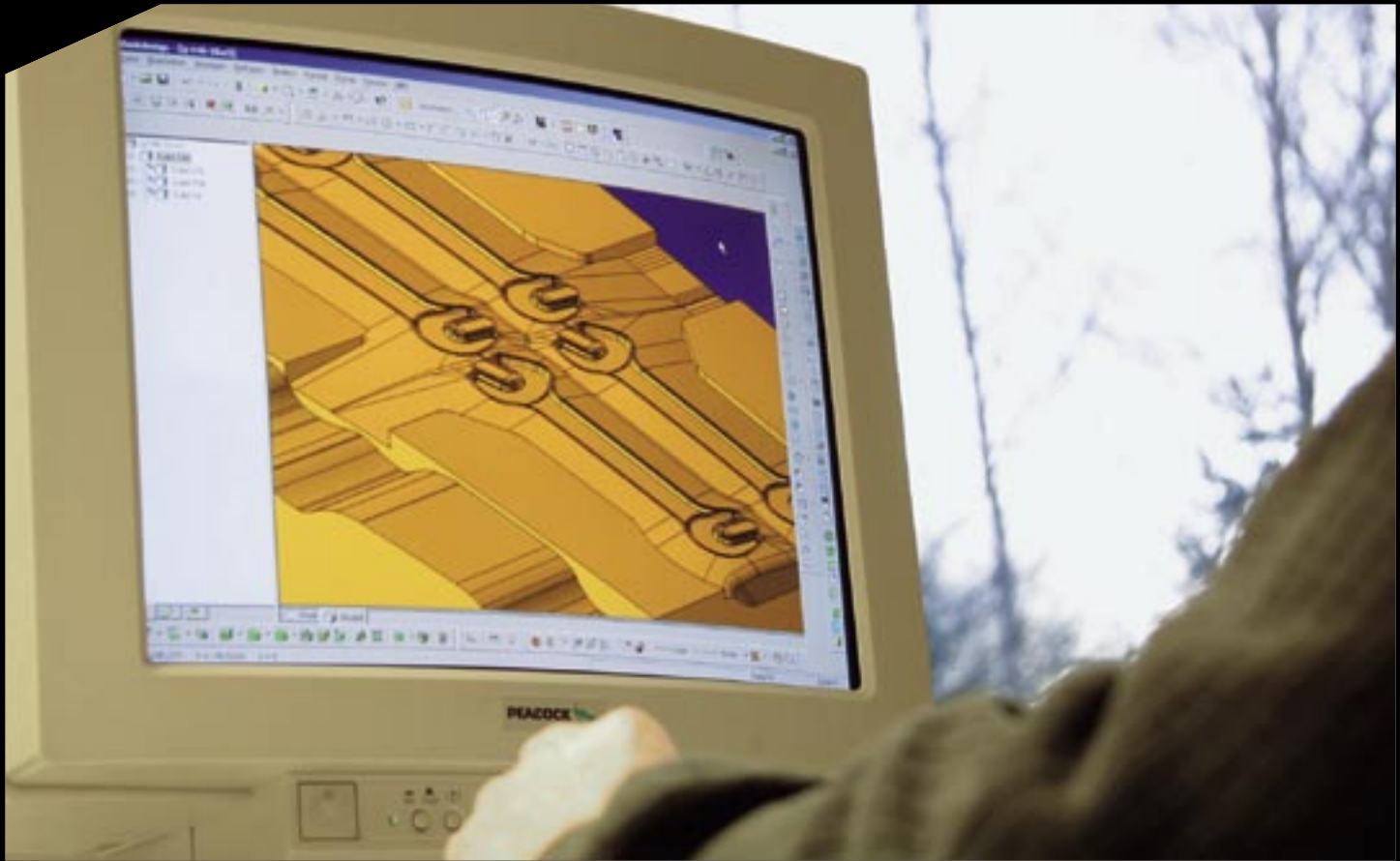
In 1924, the 20 years young Erich Rauch founded the ELORA company. Due to his success he had his first premises in 1928 at Remscheid-Lüttringhausen. After World War II ELORA started with the manufacturing of open ended and ring spanners. The range of products was increased during the 50 th, the most significant product line being sockets and accessories making ELORA No. 1 for this line of products. In 1948 already, ELORA went for direct contacts to customers in Europe and Overseas.

### **TRADITION**

At that time, co-operation started which are working still today. In 1958 ELORA set up a second production plant in Münk – a small village in the Eifel – which is even today an important part in the production line process. In the beginning of the 60th year both sons Karl-Hermann and Erich Rauch joined the company. Later in the 60th ELORA build two more production halls and started with their own forging department. Today the company is one of the world's leading companies with a wide range of high quality tools.

In the 90th a building of almost 7.000 m<sup>2</sup> was bought to host the greatly expanded company. Also the 3rd generation of family members were represented when Bettina Rauch-Lach and Andreas Rauch joined the company. After the unexpected and sad demise of Karl-Hermann Rauch his nephew Andreas was promoted to Managing Director in co-operation with his father Erich Rauch.

In more than 80 years ELORA achieved a remarkable reputation for supplying the finest high quality handtools. The base for this excellent reputation is the strong desire to manufacture to the highest quality only. In order to put this strong will into action ELORA benefits from modern machinery, and most of all from excellent skilled staff members. ELORA: "Made in Germany" has been in the past and will be in future a cachet for highest and finest quality – Worldwide!





## **ELORA – BECAUSE INNOVATION IS PROGRESS – INTERNATIONAL.**

### **INNOVATION – INTERNATIONAL**

Where does a company get its strategies for success from in hectic times and how can tomorrow's business be achieved?

Instead of having individual solutions for each and every process, global concepts for problem analysing become more important. The answer to the challenges of globalisation is the increase in quality, minimizing cost and enhancing the effectiveness of each individual process. Main criteria are not only the technological and the financial background, but also the company strategy and its implementation as well as the use of supporting resources.

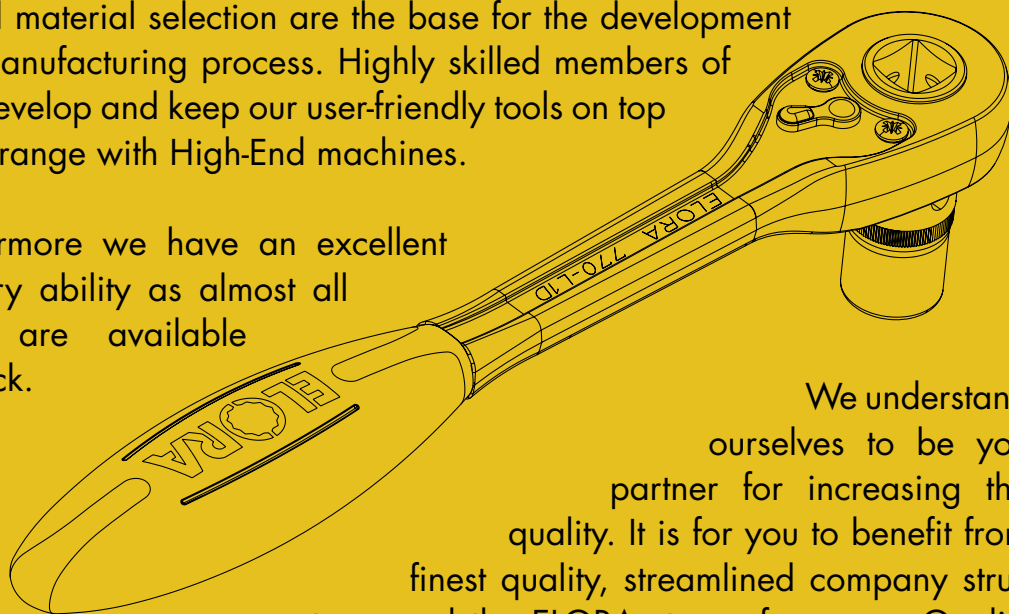
The success of a company depends at the end on the satisfaction of its customers. Our strategy targets for this reason the use of technical innovations for the benefit of our customers. The certification acc. To DIN EN ISO 9001-2000 is proof of the efficient co-operation with an innovative partner.

ELORA – because innovation is progress – international!



All manufacturing process are subject to strongest quality management – right from the initial concept through to the final product. Meticulous precision and the highest quality requirements, as well as careful material selection are the base for the development and manufacturing process. Highly skilled members of staff develop and keep our user-friendly tools on top of the range with High-End machines.

Furthermore we have an excellent delivery ability as almost all items are available ex stock.



We understand ourselves to be your partner for increasing the quality. It is for you to benefit from finest quality, streamlined company structures and the ELORA story of success. Quality comes from ELORA.



## QUALITY TOOLS FOR THE DAILY USE AS WELL AS FOR EXTREME LOAD – ONCE ELORA – ALWAYS QUALITY.

„Manufacturing does not mean buying cheap and selling expensive. Rather, it means purchasing raw materials at appropriate prices, converting them into a useful product at the lowest possible additional cost and distributing them to the consumers.“

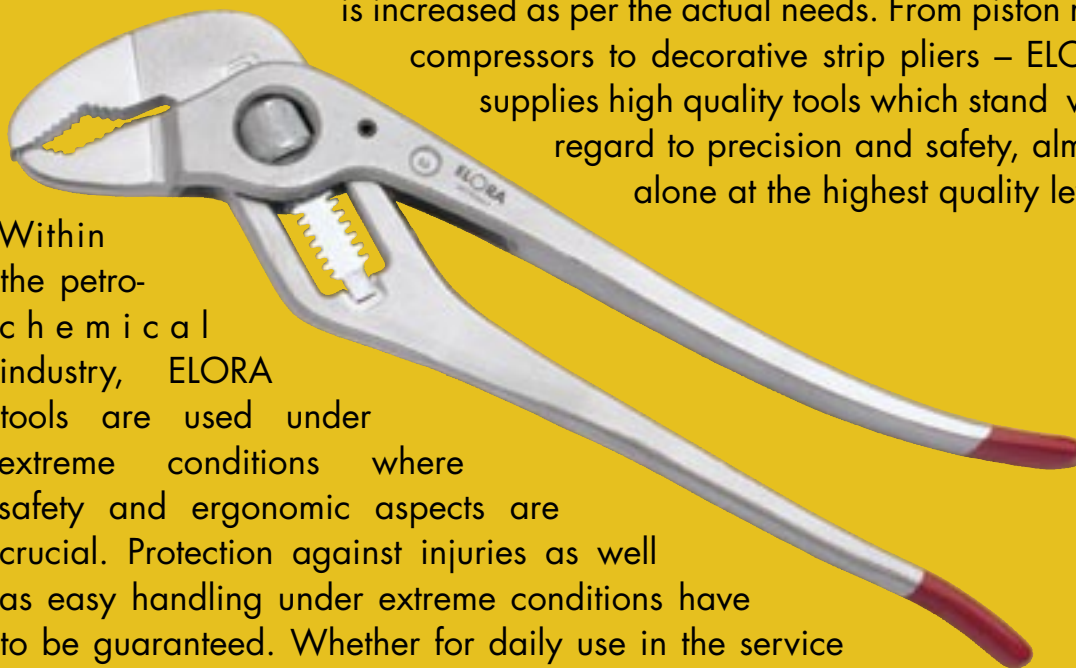
*(Henry Ford, 1923)*

### DEVELOPMENT

Our quality tools are established in various fields of industry world-wide.

For the automotive industry we have a range of special tools which is increased as per the actual needs. From piston ring compressors to decorative strip pliers – ELORA supplies high quality tools which stand with regard to precision and safety, almost alone at the highest quality level.

Within the petro-chemical industry, ELORA tools are used under extreme conditions where safety and ergonomic aspects are crucial. Protection against injuries as well as easy handling under extreme conditions have to be guaranteed. Whether for daily use in the service garage and workshop, or for heavy use under difficult conditions – You can rely on ELORA top quality tools!



# EXPLANATION OF SYMBOLS APPEARING IN CATALOGUE

|                                                                                     |                                                      |                                                                                     |                                                                 |                                                                                     |                                         |
|-------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------|
|    | Sizes in mm                                          |    | Total length in mm                                              |  | Female square                           |
|    | Sizes in AF                                          |    | Weight of hammer heads                                          |  | VDE-tested                              |
|    | Sizes in WHITWORTH                                   |    | Hexagon pattern                                                 |  | Voltage withstand strength up to 1000 V |
|    | Sizes in BA                                          |    | Bi-Hexagon pattern                                              |  | Units of quantity                       |
|    | Sizes IN in mm                                       |    | Suitable for male hexagon screws                                |  | Weight of each piece or set             |
|    | Sizes IN in AF                                       |    | Suitable for outside TORX-screws                                |                                                                                     |                                         |
|    | TORX-size corner to corner in mm                     |    | Suitable for inside TORX-screws                                 |                                                                                     |                                         |
|   | Sizes for slotted round nuts for hook spanners in mm |   | Suitable for inside TORX-safety screws (tools with hole in tip) |                                                                                     |                                         |
|  | Sizes for capstan headed screws in mm                |  | Suitable for RIBE-CV screws                                     |                                                                                     |                                         |
|  | Sizes for round nuts with drilled holes in mm        |  | Suitable for B&S-XZN screws                                     |                                                                                     |                                         |
|  | Sizes of threads in mm                               |  | Suitable for plain slot screws                                  |                                                                                     |                                         |
|  | Thread diameter of spark plugs                       |  | Suitable for cross slot screws Phillips Recess                  |                                                                                     |                                         |
|  | Diameter in mm                                       |  | Suitable for cross slot screws Supa-Pozidriv                    |                                                                                     |                                         |
|  | Length                                               |  | Male square                                                     |                                                                                     |                                         |
|  | Blade length in mm                                   |                                                                                     |                                                                 |                                                                                     |                                         |

## Symbols for patternFeilen

|                                                                                       |                      |
|---------------------------------------------------------------------------------------|----------------------|
|  | Square pattern       |
|  | Three square pattern |
|  | Round pattern        |
|  | Half-round pattern   |
|  | Flat pattern         |

**New!** New articles in product range

# IMPRINT

## The ELORA Catalogue E 81

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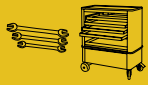
Print: Druckerei J.P. Bachem  
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The Catalogue E 81 cancels all previous catalogues, price lists and offers.

All illustrations in the ELORA Catalogue E 81 are unretouched and the tools are originating from current production or from stocks.

The measures given in the ELORA Catalogue E 81 are not binding. Whilst every has been made to ensure accuracy of information given in the ELORA Catalogue E 81 our policy of continuous improvement determines that we reserve the right to deviate from printed details and prices without prior notice to keep pace with latest developments

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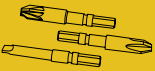
## 01 STORAGE UNITS, TOOL ASSORTMENTS



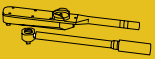
## 02 SPANNERS AND WRENCHES



## 03 SOCKETS, SOCKET PARTS, SOCKET AND SPANNER SETS



## 04 IMPACT-TOOLS, IMPACT-BITS



## 05 TORQUE WRENCHES

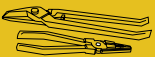
# SECTIONS



## 06 HEXAGON AND OFFSET KEYS, SCREWDRIVERS



## 07 FINE MECHANICS, ELECTICIANS' AND VDE-TOOLS



## 08 PLIERS, BOLT CUTTERS, SNIPS AND SHEARS



## 09 HAMMERS, SHISELS, PUNCHES, VICES, MARKING TOOLS



## 10 GRIP PLIERS, PIPE WRENCHES AND PLUMBER TOOLS



## 11 MEASURING TOOLS



## 12 AUTOMOTIVE TOOLS, PULLERS



## 13 SCRAPERS, FILES, SAWS, BRUSHES, MISCELLANEOUS





## WITH ONE STROKE THE RIGHT TOOL – 1ST STEP FOR EFFECTIVENESS IS KEEPING GOOD ORDER.

A good old German saying means that “good order makes almost half of your life”. We at ELORA support your demand for good order . You can keep, with an increased number of tool modules suitable tool trolleys, the well known “ELORA-Order”. For your convenience the ELORA Super-Caddy (1220L) is available not only in the traditional ELORA yellow colour but also in 3 additional colours.

### STORAGE UNITS, TOOL ASSORTMENTS

01



## 800/810 Cantilever Tool Box with 5 Trays



| Type               | To be opened like a sewing box, blue lacquered;<br>To be locked with padlock Stock-No. 256 |              |             |     |
|--------------------|--------------------------------------------------------------------------------------------|--------------|-------------|-----|
| Material           | Heavy gauge sheet steel                                                                    |              |             |     |
| Stock-No.<br>empty | Width<br>mm                                                                                | Height<br>mm | Depth<br>mm | kg  |
| 800 L              | 430                                                                                        | 200          | 200         | 4,3 |
| 810 L              | 530                                                                                        | 200          | 200         | 5,2 |

## 803/813 Cantilever Tool Box with 3 Trays



| Type               | To be opened like a sewing box, blue lacquered;<br>To be locked with padlock Stock-No. 256 |              |             |     |
|--------------------|--------------------------------------------------------------------------------------------|--------------|-------------|-----|
| Material           | Heavy gauge sheet steel                                                                    |              |             |     |
| Stock-No.<br>empty | Width<br>mm                                                                                | Height<br>mm | Depth<br>mm | kg  |
| 803 L              | 430                                                                                        | 150          | 195         | 3,3 |
| 813 L              | 530                                                                                        | 150          | 195         | 3,6 |

Cantilever Tool Box 800, supplied with the following tool assortments:

| Stock-No. | Contents<br>pieces |   | kg   |
|-----------|--------------------|---|------|
| 800 WS-1M | 64                 | 1 | 12,6 |
| 800 WS-9  | 48                 | 1 | 9,6  |
| 800 WS-10 | 82                 | 1 | 10,1 |
| 800 WS-1A | 64                 | 1 | 12,6 |

Cantilever Tool Box 810, supplied with the following tool assortments:

| Stock-No. | Contents<br>pieces |   | kg   |
|-----------|--------------------|---|------|
| 810 WS-1M | 64                 | 1 | 13,5 |
| 810 WS-2M | 100                | 1 | 20,2 |
| 810 WS-3M | 86                 | 1 | 22,7 |
| 810 WS-9  | 48                 | 1 | 10,5 |
| 810 WS-10 | 82                 | 1 | 11,0 |
| 810 WS-1A | 64                 | 1 | 13,5 |
| 810 WS-2A | 99                 | 1 | 19,7 |
| 810 WS-3A | 86                 | 1 | 22,5 |

Cantilever Tool Box 803, supplied with the following tool assortments:

| Stock-No. | Contents<br>pieces |   | kg   |
|-----------|--------------------|---|------|
| 803 WS-1M | 64                 | 1 | 11,6 |
| 803 WS-9  | 48                 | 1 | 8,6  |
| 803 WS-10 | 82                 | 1 | 9,1  |
| 803 WS-1A | 64                 | 1 | 11,6 |

Cantilever Tool Box 813, supplied with the following tool assortments:

| Stock-No. | Contents<br>pieces |   | kg   |
|-----------|--------------------|---|------|
| 813 WS-1M | 64                 | 1 | 11,9 |
| 813 WS-9  | 48                 | 1 | 8,9  |
| 813 WS-10 | 82                 | 1 | 9,4  |
| 813 WS-1A | 64                 | 1 | 11,9 |



## 1000 Tool Cabinet, small model



|                 |                                                                        |           |          |      |
|-----------------|------------------------------------------------------------------------|-----------|----------|------|
| Type            | with 2 doors, cylinder lock offers security, lacquered in ELORA-yellow |           |          |      |
| Material        | Heavy gauge sheet steel                                                |           |          |      |
| Stock-No. empty | Width mm                                                               | Height mm | Depth mm | kg   |
| 1000 L          | 600                                                                    | 700       | 150      | 14,0 |

Tool Cabinet, small model, Stock-No. 1000, supplied with the following tool assortments:

| Stock-No.  | Contents pieces |   | kg   |
|------------|-----------------|---|------|
| 1000 WS-1M | 64              | 1 | 22,3 |
| 1000 WS-2M | 100             | 1 | 29,0 |
| 1000 WS-3M | 86              | 1 | 31,5 |
| 1000 WS-1A | 64              | 1 | 22,3 |
| 1000 WS-2A | 99              | 1 | 29,0 |
| 1000 WS-3A | 86              | 1 | 31,5 |

## 1100 Tool Cabinet, large model



|                 |                                                                                      |           |          |      |
|-----------------|--------------------------------------------------------------------------------------|-----------|----------|------|
| Type            | with 2 doors and 2 drawers, cylinder lock offers security, lacquered in ELORA-yellow |           |          |      |
| Material        | Heavy gauge sheet steel                                                              |           |          |      |
| Stock-No. empty | Width mm                                                                             | Height mm | Depth mm | kg   |
| 1100 L          | 650                                                                                  | 1000      | 300      | 30,0 |

Tool Cabinet, large model, Stock-No. 1100, supplied with the following tool assortments:

| Stock-No.  | Contents pieces |   | kg   |
|------------|-----------------|---|------|
| 1100 WS-1M | 64              | 1 | 38,3 |
| 1100 WS-2M | 100             | 1 | 45,0 |
| 1100 WS-3M | 86              | 1 | 47,5 |
| 1100 WS-4M | 137             | 1 | 52,8 |
| 1100 WS-5M | 146             | 1 | 58,6 |
| 1100 WS-1A | 64              | 1 | 38,3 |
| 1100 WS-2A | 99              | 1 | 44,5 |
| 1100 WS-3A | 86              | 1 | 47,3 |
| 1100 WS-4A | 133             | 1 | 52,5 |
| 1100 WS-5A | 151             | 1 | 58,2 |

## 1110 Tool Cabinet, large model



**New!**

|                 |                                                                                      |           |          |       |
|-----------------|--------------------------------------------------------------------------------------|-----------|----------|-------|
| Application     | for individual assortment                                                            |           |          |       |
| Type            | with two doors and drawers, cylinder lock offers security, lacquered in ELORA-yellow |           |          |       |
| Material        | Heavy gauge sheet steel                                                              |           |          |       |
| Stock-No. empty | Width mm                                                                             | Height mm | Depth mm | kg    |
| 1110 L          | 650                                                                                  | 1000      | 300      | 33,0  |
| 1110 LSH        | with assortment of hooks, 160 pcs.                                                   |           |          | 34,24 |

## 1110H Hooks, Bowls



**New!**

| Application | for use in tool cabinet Stock-No. 1110               |     |    |    |
|-------------|------------------------------------------------------|-----|----|----|
| Type        | made from plastic (Stock-No. 1110SH made from steel) |     |    |    |
| Stock-No.   |                                                      | mm  |    | g  |
| 1110 H      | Straight Hook                                        | 39  | 12 | 5  |
| 1110 V      | Straight Hook, heavy duty                            | 61  | 12 | 5  |
| 1110 G      | Bend Hook                                            | 28  | 12 | 5  |
| 1110 K      | Clamping Hook                                        | 40  | 12 | 5  |
| 1110 R      | Ring Hook                                            | 43  | 12 | 5  |
| 1110 S      | Tray for small pieces                                | 105 | 3  | 70 |
| 1110 B      | Quiver for small pieces                              | 76  | 3  | 25 |
| 1110 SH     | Steel Hook, 100mm                                    | 100 | 12 | 30 |

## 1110 S160 Assortment of Hooks, Trays and Quivers

| Application | for use in tool cabinet Stock-No. 1110               |    |      |
|-------------|------------------------------------------------------|----|------|
| Type        | made from plastic (Stock-No. 1110SH made from steel) |    |      |
| Stock-No.   | Contents                                             |    | g    |
| 1110 S160   | 1110 H Straight Hook                                 | 30 | 1240 |
|             | 1110 V Straight Hook, heavy duty                     | 30 |      |
|             | 1110 G Bend Hook                                     | 30 |      |
|             | 1110 K Clamping Hook                                 | 30 |      |
|             | 1110 R Ring Hook                                     | 25 |      |
|             | 1110 S Tray for small pieces                         | 2  |      |
|             | 1110 B Quiver for small pieces                       | 3  |      |
|             | 1110 SH Steel Hook, 100mm                            | 10 |      |

**New!**

## Modules

We have created for you 33 tool sets in practical modules, well-fitting for the drawers of the ELORA-Roller tool cabinets CADDY, **Stock-No. 1200**, BUDDY, **Stock-No. 1210** and SUPER-CADDY, **Stock-No. 1220**. You can choose between 2 module sizes with the most popular tools: Spanners, Sockets and Socket parts, Screwdrivers, Pliers, VDE-Pliers and VDE-Screwdrivers.

## MS-1 Module



|             |                                                                                                                            |   |       |
|-------------|----------------------------------------------------------------------------------------------------------------------------|---|-------|
| Application | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b> |   |       |
| Type        | Black, with transparent cover                                                                                              |   |       |
| Material    | ABS                                                                                                                        |   |       |
| Stock-No.   | Contents                                                                                                                   |   |       |
| <b>MS-1</b> | <b>Double open-ended spanners</b><br>100- 6×7; 8×9; 10×11; 12×13; 14×15; 16×17;<br>18×19; 21×22 mm                         | 1 | 900 g |

## MS-3 Module



|             |                                                                                                                            |   |        |
|-------------|----------------------------------------------------------------------------------------------------------------------------|---|--------|
| Application | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b> |   |        |
| Type        | Black, with transparent cover                                                                                              |   |        |
| Material    | ABS                                                                                                                        |   |        |
| Stock-No.   | Contents                                                                                                                   |   |        |
| <b>MS-3</b> | <b>Double-ended ring spanners, deep cranked</b><br>110- 6×7; 8×9; 10×11; 12×13; 14×15; 16×17;<br>18×19; 21×22 mm           | 1 | 1340 g |

## MS-5 Module



|             |                                                                                                                                                                        |   |        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------|
| Application | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b>                                             |   |        |
| Type        | Black, with transparent cover                                                                                                                                          |   |        |
| Material    | ABS                                                                                                                                                                    |   |        |
| Stock-No.   | Contents                                                                                                                                                               |   |        |
| <b>MS-5</b> | <b>Double open-ended spanners</b><br>156- 2,5×3,2; 3×3,5; 4×5; 4,5×5,5 mm<br>100- 6×7; 8×9; 10×11; 12×13; 14×15; 16×17; 18×19;<br>20×22; 21×23; 24×27; 25×28; 30×32 mm | 1 | 2500 g |

## MS-2 Module



|             |                                                                                                                            |   |       |
|-------------|----------------------------------------------------------------------------------------------------------------------------|---|-------|
| Application | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b> |   |       |
| Type        | Black, with transparent cover                                                                                              |   |       |
| Material    | ABS                                                                                                                        |   |       |
| Stock-No.   | Contents                                                                                                                   |   |       |
| <b>MS-2</b> | <b>Combination spanners</b><br>205- 8; 10; 11; 13; 14; 17; 19; 22 mm                                                       | 1 | 960 g |

## MS-6 Module



**New!**

|             |                                                                                                                            |   |       |
|-------------|----------------------------------------------------------------------------------------------------------------------------|---|-------|
| Application | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b> |   |       |
| Type        | Black, with transparent cover                                                                                              |   |       |
| Material    | ABS                                                                                                                        |   |       |
| Stock-No.   | Contents                                                                                                                   |   |       |
| <b>MS-6</b> | <b>Combination spanners</b><br>203- 8; 10; 11; 13; 17; 19; 22; 24 mm                                                       | 1 | 980 g |

## MS-4 Module



Application For roller tool cabinet CADDY, **Stock-No. 1200**,  
BUDDY, **Stock-No. 1210** and SUPER-CADDY, **Stock-No. 1220**

Type Black, with transparent cover

Material ABS

Stock-No. Contents g

**MS-4** Double ended swivel socket wrenches  
123 - 8×9; 10×11; 12×13; 14×15; 16×17; 18×19 mm 1 1300

## MS-10 Module



Application For roller tool cabinet CADDY, **Stock-No. 1200**,  
BUDDY, **Stock-No. 1210** and SUPER-CADDY, **Stock-No. 1220**

Type Black, with transparent cover

Material ABS

Stock-No. Contents g

**MS-10** Combination spanners with Ring Ratchet  
204 - 8; 9; 10; 12; 13; 14; 17; 19 mm 1 800

## MS-8 Module



New!

Application For roller tool cabinet CADDY, **Stock-No. 1200**,  
BUDDY, **Stock-No. 1210** and SUPER-CADDY, **Stock-No. 1220**

Type Black, with transparent cover

Material ABS

Stock-No. Contents g

**MS-8** Ratchet ring spanners  
115 - 6×7; 8×9; 10×11; 12×13; 14×15; 16×17;  
18×19; 21×22 mm 1 1400

## MS-9 Module



New!

Application For roller tool cabinet CADDY, **Stock-No. 1200**,  
BUDDY, **Stock-No. 1210** and SUPER-CADDY, **Stock-No. 1220**

Type Black, with transparent cover

Material ABS

Stock-No. Contents g

**MS-9** Ratchet ring spanners  
115G - 6×7; 8×9; 10×11; 12×13; 14×15; 16×17;  
18×19; 21×22 mm 1 1418

## MS-50 Module

1/4"



Application For roller tool cabinet CADDY, **Stock-No. 1200**,  
BUDDY, **Stock-No. 1210** and SUPER-CADDY, **Stock-No. 1220**

Type Black, with transparent cover

Material ABS

Stock-No. Contents g

**MS-50** 1450-1 D Reversible ratchet 1 950  
● 1455- Hexagon sockets  
4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm  
● 1455-IN Screwdriver Sockets  
3, 4, 5, 6, 8 mm  
★ 1455-TXE TORX-Sockets  
4, 5, 6, 7, 8, 10, 11  
⊗ 3243-TX TORX-Sockets  
8, 9, 10, 15, 20, 25, 27, 30, 40  
1450-3 Spinner handle 150 mm  
1450-4 Sliding T-bar 115 mm  
1450-11 Extension bar 50 mm  
1450-5 Extension bar 100 mm  
1450-12 Extension bar 150 mm  
1450-8 Universal joint 45 mm

## MS-55 Module

3/8"



New!

Application For roller tool cabinet CADDY, **Stock-No. 1200**,  
BUDDY, **Stock-No. 1210** and SUPER-CADDY, **Stock-No. 1220**

Type Black, with transparent cover

Material ABS

Stock-No. Contents g

**MS-55** Screwdriver Sockets  
● 3510-IN 3; 4; 5; 6; 7; 8; 10; 12 mm  
Torx-Screwdriver Sockets  
★ 3244-TX 15; 20; 25; 27; 30; 40; 45; 50 TX



## MS-56/57 Module

**New!**

3/8"



| Application  | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b> |   |      |  |
|--------------|----------------------------------------------------------------------------------------------------------------------------|---|------|--|
| Type         | Black, with transparent cover                                                                                              |   |      |  |
| Material     | ABS                                                                                                                        |   |      |  |
| Stock-No.    | Contents                                                                                                                   |   |      |  |
| <b>MS-56</b> | 870-1D Reversible Ratchet                                                                                                  | 1 | 1275 |  |
|              | 871- 6; 7; 8; 9 mm                                                                                                         |   |      |  |
|              | 870- 10; 11; 13; 14; 15; 16; 17; 18; 19; 21; 22 mm                                                                         |   |      |  |
|              | 870-3 Extension Bar 75 mm                                                                                                  |   |      |  |
|              | 870-4 Extension Bar 150 mm                                                                                                 |   |      |  |
|              | 870-8 Sliding T-Bar                                                                                                        |   |      |  |
| <b>MS-57</b> | 870-9 Universal Joint                                                                                                      |   |      |  |
|              | same as MS-56; but all sockets in hexagon pattern                                                                          | 1 | 1275 |  |

## MS-16/17 Module

1/2"



| Application  | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b> |   |      |  |
|--------------|----------------------------------------------------------------------------------------------------------------------------|---|------|--|
| Type         | Black, with transparent cover                                                                                              |   |      |  |
| Material     | ABS                                                                                                                        |   |      |  |
| Stock-No.    | Contents                                                                                                                   |   |      |  |
| <b>MS-16</b> | 770-L1D Reversible ratchet                                                                                                 | 1 | 3500 |  |
|              | 770-L 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 30; 32 mm                                    |   |      |  |
|              | 770-L3 Sliding T-bar                                                                                                       |   |      |  |
|              | 770-L5 Extension bar 125 mm                                                                                                |   |      |  |
|              | 770-L6 Extension bar 250 mm                                                                                                |   |      |  |
|              | 770-L7 Universal joint 75 mm                                                                                               |   |      |  |
| <b>MS-17</b> | same as MS-16; but all sockets in hexagon pattern                                                                          | 1 | 3500 |  |

## MS-11/12 Module

1/2"



| Application  | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b> |   |      |  |
|--------------|----------------------------------------------------------------------------------------------------------------------------|---|------|--|
| Type         | Black, with transparent cover                                                                                              |   |      |  |
| Material     | ABS                                                                                                                        |   |      |  |
| Stock-No.    | Contents                                                                                                                   |   |      |  |
| <b>MS-11</b> | 770-L1D Reversible ratchet                                                                                                 | 1 | 2200 |  |
|              | 770-L 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 22 mm                                                                    |   |      |  |
|              | 770-L6 Extension bar 250 mm                                                                                                |   |      |  |
|              | 770-L3 Sliding T-bar                                                                                                       |   |      |  |
| <b>MS-12</b> | Same as MS-11, but all sockets in hexagon pattern                                                                          | 1 | 2200 |  |

## MS-13 Module



| Application  | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b> |   |      |  |
|--------------|----------------------------------------------------------------------------------------------------------------------------|---|------|--|
| Type         | Black, with transparent cover                                                                                              |   |      |  |
| Material     | ABS                                                                                                                        |   |      |  |
| Stock-No.    | Contents                                                                                                                   |   |      |  |
| <b>MS-13</b> | Screwdriver sockets                                                                                                        | 1 | 1500 |  |
|              | 3210 IN 4, 5, 6, 8, 10, 12, 14, 17, 19 mm                                                                                  |   |      |  |
|              | Ball end hexagon keys                                                                                                      |   |      |  |
|              | 159 SKU KU1,5; KU2; KU2,5; KU3; KU4; KU5; KU6; KU8; KU10 mm                                                                |   |      |  |

## MS-14 Module



| Application  | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b> |   |     |  |
|--------------|----------------------------------------------------------------------------------------------------------------------------|---|-----|--|
| Type         | Black, with transparent cover                                                                                              |   |     |  |
| Material     | ABS                                                                                                                        |   |     |  |
| Stock-No.    | Contents                                                                                                                   |   |     |  |
| <b>MS-14</b> | TORX Screwdriver sockets                                                                                                   | 1 | 950 |  |
|              | 3245 TX 20, 25, 27, 30, 40, 45, 50, 55, 60                                                                                 |   |     |  |
|              | TORX Ball end keys                                                                                                         |   |     |  |
|              | 1625-TXKU TXKU 9; TXKU10; TXKU15; TXKU20; TXKU25; TXKU27; TXKU30; TXKU40;                                                  |   |     |  |

## MS-21 Module



**New!**

| Application  | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b>                          |   |     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Type         | Black, with transparent cover                                                                                                                       |   |     |
| Material     | ABS                                                                                                                                                 |   |     |
| Stock-No.    | Contents                                                                                                                                            |   | g   |
| <b>MS-21</b> | <b>TOP-KRAFT-Pliers with insulated 2K plastic handles</b><br>495BI-185 Combination plier<br>470BI-200 Flat round plier<br>490BI-165 Diagonal Cutter | 1 | 807 |

## MS-24 Module



| Application  | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b>                                        |   |     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Type         | Black, with transparent cover                                                                                                                                     |   |     |
| Material     | ABS                                                                                                                                                               |   |     |
| Stock-No.    | Contents                                                                                                                                                          |   | g   |
| <b>MS-24</b> | <b>Circlip Pliers</b><br>473C-19A Internal circlip plier<br>473D-19A Internal circlip plier<br>474A-19A External circlip plier<br>474B-19A External circlip plier | 1 | 650 |

## MS-22 Module



| Application  | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b>                   |   |     |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Type         | Black, with transparent cover                                                                                                                |   |     |
| Material     | ABS                                                                                                                                          |   |     |
| Stock-No.    | Contents                                                                                                                                     |   | g   |
| <b>MS-22</b> | <b>TOP-KRAFT-Pliers</b><br>495MB-185 Combination plier<br>470MB-200 Flat round plier<br>490MB-165 Diagonal cutter<br>132-240 Waterpump plier | 1 | 870 |

## MS-25 Module



| Application  | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b>                                        |   |     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Type         | Black, with transparent cover                                                                                                                                     |   |     |
| Material     | ABS                                                                                                                                                               |   |     |
| Stock-No.    | Contents                                                                                                                                                          |   | g   |
| <b>MS-25</b> | <b>Circlip Pliers</b><br>383C-19A Internal circlip plier<br>383D-19A Internal circlip plier<br>384A-19A External circlip plier<br>384B-19A External circlip plier | 1 | 610 |

## MS-23 Module



**New!**

| Application  | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b>              |   |     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Type         | Black, with transparent cover                                                                                                           |   |     |
| Material     | ABS                                                                                                                                     |   |     |
| Stock-No.    | Contents                                                                                                                                |   | g   |
| <b>MS-23</b> | <b>VDE Pliers with 2K insulated plastic handles</b><br>960-185 Combination plier<br>930-210 Flat round plier<br>950-165 Diagonal cutter | 1 | 822 |

## MS-26 Module



| Application  | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b>                                        |   |     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Type         | Black, with transparent cover                                                                                                                                     |   |     |
| Material     | ABS                                                                                                                                                               |   |     |
| Stock-No.    | Contents                                                                                                                                                          |   | g   |
| <b>MS-26</b> | <b>Circlip Pliers</b><br>473C-19B Internal circlip plier<br>473D-19B Internal circlip plier<br>474A-19B External circlip plier<br>474B-19B External circlip plier | 1 | 650 |

**MS-31** Module

| Application  | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b>                                                                                                                                                                                                                                                       |                                                                                   |                                                                                   |  |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|
| Type         | Black, with transparent cover                                                                                                                                                                                                                                                                                                                                                    |                                                                                   |                                                                                   |  |
| Material     | ABS                                                                                                                                                                                                                                                                                                                                                                              |                                                                                   |                                                                                   |  |
| Stock-No.    | Contents                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |
| <b>MS-31</b> | <b>PROFI-Screwdrivers</b>                                                                                                                                                                                                                                                                                                                                                        | 1                                                                                 | 600                                                                               |  |
|              | <ul style="list-style-type: none"> <li>⊖ 649-IS 75 Engineers screwdriver</li> <li>639-IS 100 Engineers screwdriver</li> <li>639-IS 125 Engineers screwdriver</li> <li>639-IS 150 Engineers screwdriver</li> <li>⊕ 659-PH 1 Engineers screwdriver</li> <li>659-PH 2 Engineers screwdriver</li> <li>655-PH 2 Chubby screwdriver</li> <li>⊖ 643-IS 60 Chubby screwdriver</li> </ul> |                                                                                   |                                                                                   |  |

**MS-34** Module

| Application  | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b>                                                                                                                                                                                                                                                         |                                                                                     |                                                                                     |  |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
| Type         | Black, with transparent cover                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                                                                                     |  |
| Material     | ABS                                                                                                                                                                                                                                                                                                                                                                                |                                                                                     |                                                                                     |  |
| Stock-No.    | Contents                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| <b>MS-34</b> | <b>PROFI-Screwdrivers</b>                                                                                                                                                                                                                                                                                                                                                          | 1                                                                                   | 550                                                                                 |  |
|              | <ul style="list-style-type: none"> <li>⊖ 645-IS 75 Engineers screwdriver</li> <li>645-IS 100 Engineers screwdriver</li> <li>645-IS 125 Engineers screwdriver</li> <li>645-IS 150 Engineers screwdriver</li> <li>⊕ 657-PH 1 Engineers screwdriver</li> <li>657-PH 2 Engineers screwdriver</li> <li>⊖ 643-IS 60 Chubby screwdriver</li> <li>⊕ 655-PH 2 Chubby screwdriver</li> </ul> |                                                                                     |                                                                                     |  |

**MS-32** Module

| Application  | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b>                                                                                                                                                       |                                                                                     |                                                                                     |  |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
| Type         | Black, with transparent cover                                                                                                                                                                                                                                                    |                                                                                     |                                                                                     |  |
| Material     | ABS                                                                                                                                                                                                                                                                              |                                                                                     |                                                                                     |  |
| Stock-No.    | Contents                                                                                                                                                                                                                                                                         |  |  |  |
| <b>MS-32</b> | <b>VDE-Screwdrivers</b>                                                                                                                                                                                                                                                          | 1                                                                                   | 495                                                                                 |  |
|              | <ul style="list-style-type: none"> <li>⊖ 900-IS 0,4x2,5 VDE-Screwdriver</li> <li>900-IS 0,6x3,5 VDE-Screwdriver</li> <li>900-IS 1,0x5,5 VDE-Screwdriver</li> <li>900-IS 1,2x8,0 VDE-Screwdriver</li> <li>⊕ 910-PH 1 VDE-Screwdriver</li> <li>910-PH 2 VDE-Screwdriver</li> </ul> |                                                                                     |                                                                                     |  |

**MS-36** Module**New!**

| Application  | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b>                                                                                                                                                                          |                                                                                       |                                                                                       |  |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| Type         | Black, with transparent cover                                                                                                                                                                                                                                                                       |                                                                                       |                                                                                       |  |
| Material     | ABS                                                                                                                                                                                                                                                                                                 |                                                                                       |                                                                                       |  |
| Stock-No.    | Contents                                                                                                                                                                                                                                                                                            |  |  |  |
| <b>MS-36</b> | <b>TOP-KRAFT-2 Component Screwdrivers</b>                                                                                                                                                                                                                                                           | 1                                                                                     | 517                                                                                   |  |
|              | <ul style="list-style-type: none"> <li>⊖ 539-IS 75 Engineers Screwdriver</li> <li>539-IS 100 Engineers Screwdriver</li> <li>539-IS 125 Engineers Screwdriver</li> <li>539-IS 150 Engineers Screwdriver</li> <li>⊕ 559-PH 1 Engineers Screwdriver</li> <li>559-PH 2 Engineers Screwdriver</li> </ul> |                                                                                       |                                                                                       |  |

**MS-33** Module

| Application  | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b>                                                                                                                                                                                                                                                         |                                                                                     |                                                                                     |  |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
| Type         | Black, with transparent cover                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                                                                                     |  |
| Material     | ABS                                                                                                                                                                                                                                                                                                                                                                                |                                                                                     |                                                                                     |  |
| Stock-No.    | Contents                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| <b>MS-33</b> | <b>PROFI-Screwdrivers</b>                                                                                                                                                                                                                                                                                                                                                          | 1                                                                                   | 600                                                                                 |  |
|              | <ul style="list-style-type: none"> <li>⊖ 649-IS 75 Engineers screwdriver</li> <li>639-IS 100 Engineers screwdriver</li> <li>639-IS 125 Engineers screwdriver</li> <li>639-IS 150 Engineers screwdriver</li> <li>⊕ 669-PZ 1 Engineers screwdriver</li> <li>669-PZ 2 Engineers screwdriver</li> <li>⊖ 643-IS 60 Chubby screwdriver</li> <li>⊕ 654-PZ 2 Chubby screwdriver</li> </ul> |                                                                                     |                                                                                     |  |

**MS-37** Module**New!**

| Application  | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b>                                                                                                                                                                          |                                                                                       |                                                                                       |  |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| Type         | Black, with transparent cover                                                                                                                                                                                                                                                                       |                                                                                       |                                                                                       |  |
| Material     | ABS                                                                                                                                                                                                                                                                                                 |                                                                                       |                                                                                       |  |
| Stock-No.    | Contents                                                                                                                                                                                                                                                                                            |  |  |  |
| <b>MS-37</b> | <b>TOP-KRAFT-2 Component Screwdrivers</b>                                                                                                                                                                                                                                                           | 1                                                                                     | 511                                                                                   |  |
|              | <ul style="list-style-type: none"> <li>⊖ 539-IS 75 Engineers Screwdriver</li> <li>539-IS 100 Engineers Screwdriver</li> <li>539-IS 125 Engineers Screwdriver</li> <li>539-IS 150 Engineers Screwdriver</li> <li>⊕ 569-PZ 1 Engineers Screwdriver</li> <li>569-PZ 2 Engineers Screwdriver</li> </ul> |                                                                                       |                                                                                       |  |



MS-38

Module

New!

|             |                                                                                                                                                                                                                                                                  |   |       |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------|
| Application | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b>                                                                                                                                       |   |       |
| Type        | Black, with transparent cover                                                                                                                                                                                                                                    |   |       |
| Material    | ABS                                                                                                                                                                                                                                                              |   |       |
| Stock-No.   | Contents                                                                                                                                                                                                                                                         |   |       |
| MS-38       | <b>TOP-KRAFT-2 Component Screwdrivers</b><br>— 545-IS 75 Engineers Screwdriver<br>545-IS 100 Engineers Screwdriver<br>545-IS 125 Engineers Screwdriver<br>545-IS 150 Engineers Screwdriver<br>+ 547-PH 1 Engineers Screwdriver<br>547-PH 2 Engineers Screwdriver | 1 | 407 g |

MS-40

Module

|             |                                                                                                                                                                                                                                                              |   |       |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------|
| Application | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b>                                                                                                                                   |   |       |
| Type        | Black, with transparent cover                                                                                                                                                                                                                                |   |       |
| Material    | ABS                                                                                                                                                                                                                                                          |   |       |
| Stock-No.   | Contents                                                                                                                                                                                                                                                     |   |       |
| MS-40       | <b>Screwdrivers with wooden handle</b><br>— 636-IS 75 Engineers screwdriver<br>636-IS 90 Engineers screwdriver<br>636-IS 100 Engineers screwdriver<br>636-IS 125 Engineers screwdriver<br>+ 656-PH 1 Engineers screwdriver<br>656-PH 2 Engineers screwdriver | 1 | 500 g |

MS-39

Module

New!

|             |                                                                                                                                                                                                                                                                  |   |       |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------|
| Application | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b>                                                                                                                                       |   |       |
| Type        | Black, with transparent cover                                                                                                                                                                                                                                    |   |       |
| Material    | ABS                                                                                                                                                                                                                                                              |   |       |
| Stock-No.   | Contents                                                                                                                                                                                                                                                         |   |       |
| MS-39       | <b>TOP-KRAFT-2 Component Screwdrivers</b><br>— 545-IS 75 Engineers Screwdriver<br>545-IS 100 Engineers Screwdriver<br>545-IS 125 Engineers Screwdriver<br>545-IS 150 Engineers Screwdriver<br>+ 549-PZ 1 Engineers Screwdriver<br>549-PZ 2 Engineers Screwdriver | 1 | 511 g |

MS-41

Module

|             |                                                                                                                                                                                                                                                              |   |       |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------|
| Application | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b>                                                                                                                                   |   |       |
| Type        | Black, with transparent cover                                                                                                                                                                                                                                |   |       |
| Material    | ABS                                                                                                                                                                                                                                                          |   |       |
| Stock-No.   | Contents                                                                                                                                                                                                                                                     |   |       |
| MS-41       | <b>Screwdrivers with wooden handle</b><br>— 636-IS 75 Engineers screwdriver<br>636-IS 90 Engineers screwdriver<br>636-IS 100 Engineers screwdriver<br>636-IS 125 Engineers screwdriver<br>+ 658-PZ 1 Engineers screwdriver<br>658-PZ 2 Engineers screwdriver | 1 | 500 g |

MS-35

Module

|             |                                                                                                                                                                                                                                                                                                                     |   |       |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------|
| Application | For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b>                                                                                                                                                                                          |   |       |
| Type        | Black, with transparent cover                                                                                                                                                                                                                                                                                       |   |       |
| Material    | ABS                                                                                                                                                                                                                                                                                                                 |   |       |
| Stock-No.   | Contents                                                                                                                                                                                                                                                                                                            |   |       |
| MS-35       | <b>PROFI-Screwdrivers</b><br>— 645-IS 75 Engineers screwdriver<br>645-IS 100 Engineers screwdriver<br>645-IS 125 Engineers screwdriver<br>645-IS 150 Engineers screwdriver<br>+ 669-PZ 1 Engineers screwdriver<br>669-PZ 2 Engineers screwdriver<br>— 643-IS 60 Chubby screwdriver<br>+ 654-PZ 2 Chubby screwdriver | 1 | 650 g |

MS

Empty Module

|             |                                                                                                                                                                        |   |       |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------|
| Application | To be fitted with your individual contents, For roller tool cabinet CADDY, <b>Stock-No. 1200</b> , BUDDY, <b>Stock-No. 1210</b> and SUPER-CADDY, <b>Stock-No. 1220</b> |   |       |
| Type        | Black, with transparent cover                                                                                                                                          |   |       |
| Material    | ABS                                                                                                                                                                    |   |       |
| Stock-No.   | Fitting for:                                                                                                                                                           |   |       |
| Small type  | in case of order to be specified                                                                                                                                       | 1 | 110 g |
| Large type  | in case of order to be specified                                                                                                                                       | 1 | 220 g |

## 1200 Roller Tool Cabinet CADDY



| Application     | To be fitted with max. 8 modules Stock-No. MS-1 up to MS-57 (p. 14-21) or with the tool assortments WS-1 up to WS-5 and MS-91, MS-114, MS-136                                                                                                                                                                                                                      |           |          |                  |      |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|------------------|------|
| Type            | Locking bar with telescope steel shutters and locking catches for padlocks, four drawers in the upper section on support guides, open on both sides of cabinet, practical support and top with anti-slip mat, with four rubber tyred castors, with the front two swivelling for easy manoeuvrability and one with brake. The cabinet is lacquered in ELORA-yellow. |           |          |                  |      |
| Material        | Heavy gauge sheet steel                                                                                                                                                                                                                                                                                                                                            |           |          |                  |      |
| Stock-No. empty | Width mm                                                                                                                                                                                                                                                                                                                                                           | Height mm | Depth mm | Load capacity kg | kg   |
| 1200 L          | 800                                                                                                                                                                                                                                                                                                                                                                | 780       | 450      | 280              | 50,0 |

Roller Tool Cabinet CADDY 1200, supplied with the following tool assortments:

| Stock-No.   | Contents pieces | kg   |
|-------------|-----------------|------|
| 1200 WS-1M  | 64              | 58,3 |
| 1200 WS-2M  | 100             | 65,0 |
| 1200 WS-3M  | 86              | 67,5 |
| 1200 WS-4M  | 137             | 72,8 |
| 1200 WS-5M  | 146             | 78,6 |
| 1200 MS-91  | 91              | 61,6 |
| 1200 MS-114 | 114             | 58,3 |
| 1200 MS-136 | 136             | 64,0 |
| 1200 WS-1A  | 64              | 58,3 |
| 1200 WS-2A  | 99              | 64,5 |
| 1200 WS-3A  | 86              | 67,3 |
| 1200 WS-4A  | 133             | 72,5 |
| 1200 WS-5A  | 151             | 78,2 |

## 1210 Roller Tool Cabinet BUDDY



| Application     | To be fitted with max. 9 modules Stock-No. MS-1 up to MS-57 (p. 14-21) or with the tool assortments WS-1 up to WS-5 and MS-91, MS-114, MS-136                                                                                                                                                                                                                      |           |          |                  |      |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|------------------|------|
| Type            | Locking bar with telescope steel shutters and locking catches for padlocks, four drawers in the upper section on support guides, open on both sides of cabinet, practical support and top with anti-slip mat, with four rubber tyred castors, with the front two swivelling for easy manoeuvrability and one with brake. The cabinet is lacquered in ELORA-yellow. |           |          |                  |      |
| Material        | Heavy gauge sheet steel                                                                                                                                                                                                                                                                                                                                            |           |          |                  |      |
| Stock-No. empty | Width mm                                                                                                                                                                                                                                                                                                                                                           | Height mm | Depth mm | Load capacity kg | kg   |
| 1210 L          | 660                                                                                                                                                                                                                                                                                                                                                                | 920       | 390      | 280              | 47,0 |

Roller Tool Cabinet BUDDY 1210, supplied with the following tool assortments:

| Stock-No.   | Contents pieces | kg   |
|-------------|-----------------|------|
| 1210 WS-1M  | 64              | 55,3 |
| 1210 WS-2M  | 100             | 62,0 |
| 1210 WS-3M  | 86              | 64,5 |
| 1210 WS-4M  | 137             | 69,8 |
| 1210 WS-5M  | 146             | 75,6 |
| 1210 MS-91  | 91              | 58,6 |
| 1210 MS-114 | 114             | 55,3 |
| 1210 MS-136 | 136             | 61,0 |
| 1210 WS-1A  | 64              | 55,3 |
| 1210 WS-2A  | 99              | 61,5 |
| 1210 WS-3A  | 86              | 64,3 |
| 1210 WS-4A  | 133             | 69,5 |
| 1210 WS-5A  | 151             | 75,2 |

## 1220 Roller Tool Cabinet SUPER-CADDY



| Application     | To be fitted with max. 12 modules Stock-No. MS-1 up to MS-57 (p. 14-21) or with the tool assortments WS-1 up to WS-5 and MS-91, MS-114, MS-136                                                                                                                                                                           |           |          |                  |      |  |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|------------------|------|--|
| Type            | Locking bar with telescope steel shutters and locking catches for padlocks, four drawers in the upper section on support guides, open on both sides of cabinet, practical support and top with anti-slip mat, with four rubber tyred castors, with the front two swivelling for easy manoeuvrability and one with brake. |           |          |                  |      |  |
| Material        | Heavy gauge sheet steel                                                                                                                                                                                                                                                                                                  |           |          |                  |      |  |
| Stock-No. empty | Width mm                                                                                                                                                                                                                                                                                                                 | Height mm | Depth mm | Load capacity kg | kg   |  |
| 1220 L yellow   | 890                                                                                                                                                                                                                                                                                                                      | 845       | 490      | 280              | 44,0 |  |
| 1220 LR red     | 890                                                                                                                                                                                                                                                                                                                      | 845       | 490      | 280              | 44,0 |  |
| 1220 LB blue    | 890                                                                                                                                                                                                                                                                                                                      | 845       | 490      | 280              | 44,0 |  |
| 1220 LS silver  | 890                                                                                                                                                                                                                                                                                                                      | 845       | 490      | 280              | 44,0 |  |

Roller Tool Cabinet SUPER-CADDY 1220, supplied with the following tool assortments:

| Stock-No.   | Contents pieces |   | kg   |
|-------------|-----------------|---|------|
| 1220 WS-1M  | 64              | 1 | 52,3 |
| 1220 WS-2M  | 100             | 1 | 59,0 |
| 1220 WS-3M  | 86              | 1 | 61,5 |
| 1220 WS-4M  | 137             | 1 | 66,8 |
| 1220 WS-5M  | 146             | 1 | 72,6 |
| 1220 MS-91  | 91              | 1 | 55,6 |
| 1220 MS-114 | 114             | 1 | 52,3 |
| 1220 MS-136 | 136             | 1 | 58,0 |
| 1220 WS-1A  | 64              | 1 | 52,3 |
| 1220 WS-2A  | 99              | 1 | 58,5 |
| 1220 WS-3A  | 86              | 1 | 61,3 |
| 1220 WS-4A  | 133             | 1 | 66,5 |
| 1220 WS-5A  | 151             | 1 | 72,2 |

## 1850 Roller Tool Cabinet PRAKTIKUS



| Type            | The upper section features the well-known "Serving trolley principle" with 4 levels:<br>1. level: 2 easily moveable trays<br>2. level: 2 large drawers on support guides<br>3. level: over the total width moveable inside drawer<br>4. level: large storage compartment with practical dividers<br>In the lower section: a large storage compartment is open from both sides, with three drawers on each side.<br>All protruding edges are fitted with rubber buffers.<br>With four rubber tyred castors, with the front two swivelling for easy manoeuvrability and one with a brake.<br>The cabinet is to be locked with the padlock Stock-No. 256, lacquered in ELORA-yellow |                    |          |          |                  |      |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|----------|------------------|------|
| Material        | Heavy gauge sheet steel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |          |          |                  |      |
| Stock-No. empty | Height (closed) mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Height (opened) mm | Width mm | Depth mm | Load capacity kg | kg   |
| 1850 L          | 885                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 900                | 1720     | 490      | 280              | 47,0 |

Roller Tool Cabinet PRAKTIKUS 1850, supplied with the following tool assortment:

| Stock-No.   | Contents pieces |   | kg   |
|-------------|-----------------|---|------|
| 1850 WS-1M  | 64              | 1 | 55,3 |
| 1850 WS-2M  | 100             | 1 | 62,0 |
| 1850 WS-3M  | 86              | 1 | 64,5 |
| 1850 WS-4M  | 137             | 1 | 69,8 |
| 1850 WS-5M  | 146             | 1 | 75,6 |
| 1850 MS-114 | 114             | 1 | 55,3 |
| 1850 WS-1A  | 64              | 1 | 55,3 |
| 1850 WS-2A  | 99              | 1 | 61,5 |
| 1850 WS-3A  | 86              | 1 | 64,3 |
| 1850 WS-4A  | 133             | 1 | 69,5 |
| 1850 WS-5A  | 151             | 1 | 75,2 |



## 1250 Tool Kit



|                 |                                                                                                                             |           |          |      |  |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------|-----------|----------|------|--|
| Type            | With 5 drawers on support guides, with grab handles on both sides, cylinder lock offers security, lacquered in ELORA-yellow |           |          |      |  |
| Material        | Heavy gauge sheet steel                                                                                                     |           |          |      |  |
| Stock-No. empty | Width mm                                                                                                                    | Height mm | Depth mm | kg   |  |
| 1250 L          | 635                                                                                                                         | 400       | 350      | 26,0 |  |

Tool Kit 1250, supplied with the following tool assortments:

| Stock-No.  | Contents pieces |   | kg   |
|------------|-----------------|---|------|
| 1250 WS-1M | 64              | 1 | 34,3 |
| 1250 WS-2M | 100             | 1 | 41,0 |
| 1250 WS-3M | 86              | 1 | 43,5 |
| 1250 WS-4M | 137             | 1 | 48,8 |
| 1250 WS-1A | 64              | 1 | 34,3 |
| 1250 WS-2A | 99              | 1 | 40,5 |
| 1250 WS-3A | 86              | 1 | 43,3 |
| 1250 WS-4A | 133             | 1 | 48,5 |

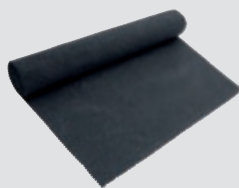
## 1815 Work Table, foldable



**New!**

|             |                                                                                                                   |           |          |      |
|-------------|-------------------------------------------------------------------------------------------------------------------|-----------|----------|------|
| Application | for mobile use in work shop, Service Van etc.                                                                     |           |          |      |
| Type        | Working top made from wood, zinc plated steel frame, legs construction made from steel, lacquered in ELORA-yellow |           |          |      |
| Stock-No.   | Width mm                                                                                                          | Height mm | Depth mm | kg   |
| 1815        | 1000                                                                                                              | 820       | 700      | 34,0 |

## 1200-RM 18 Anti Slip Mat



**New!**

|             |                                               |          |   |     |
|-------------|-----------------------------------------------|----------|---|-----|
| Application | for drawers in tool cabinets and work benches |          |   |     |
| Type        | black plastic                                 |          |   |     |
| Stock-No.   | mm                                            | Width mm |   | g   |
| 1200-RM 18  | 2000                                          | 475      | 1 | 650 |

## 1820 Work Bench with Hydraulic Operated Tool Bar



|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Type     | Tool bar self opened with gas pressure elevator:<br>A lever behind the front door operates the tool bar. The tools are coming smooth from the submission and disappear for transport and to protect the tools when the tool bar is pressed down;<br>In the lower section the work bench has a storage room with large capacity with a door and 5 drawers on support guides;<br>when the heavy duty tubular arm is swivelled the work bench is easily moveable on rubber tyred castors;<br>with robust working top made from hard wood, thickness 28 mm, multiple bonded, solid construction,<br>to be locked with integrated lock, lacquered in ELORA-yellow |  |  |  |  |
| Material | heavy gauge sheet steel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |

| Stock-No. empty | Height (closed) mm | Height (opened) mm | Width mm | Depth mm | Load capacity kg | kg    |
|-----------------|--------------------|--------------------|----------|----------|------------------|-------|
| 1820 L          | 840                | 1360               | 1100     | 610      | 250              | 115,0 |

Work bench 1820, supplied with the following tool assortments:

| Stock-No.  | Contents pieces |   | kg    |
|------------|-----------------|---|-------|
| 1820 WS-1M | 64              | 1 | 123,3 |
| 1820 WS-1A | 64              | 1 | 123,3 |

## 1825 Roller Tool Cabinet BUGGY



**Type** Ergonomic design and a convincing concept:  
The famous bestseller with the innovative conception and excellent storage capacity; for optimal order and overview, practical and robust in use.  
The 45° angle of the storage trays gives the optimum position to view into the trolley. Easily moveable trays which are arranged at different levels slide over each other independently in both directions.  
The cabinet lid is fitted with an integral lock and can be swivelled by a heavy duty tubular arm which holds the cabinet lid in the horizontal position. It then becomes a rigid worktop.  
All protruding edges are fitted with rubber buffers.  
The cabinet is lacquered in ELORA-yellow.

**Material** heavy gauge sheet steel

| Stock-No.<br>empty | Height<br>(closed) mm | Height<br>(opened) mm | Width<br>mm | Depth<br>mm | Load capacity<br>kg | kg   |
|--------------------|-----------------------|-----------------------|-------------|-------------|---------------------|------|
| 1825 L             | 875                   | 920                   | 1020        | 500         | 280                 | 53,0 |

Roller Tool Cabinet BUGGY 1825, supplied with the following tool assortments:

| Stock-No.  | Contents<br>pieces |   | kg   |
|------------|--------------------|---|------|
| 1825 WS-1M | 64                 | 1 | 61,3 |
| 1825 WS-2M | 100                | 1 | 68,0 |
| 1825 WS-3M | 86                 | 1 | 70,8 |
| 1825 WS-4M | 137                | 1 | 75,8 |
| 1825 WS-5M | 146                | 1 | 81,6 |
| 1825 WS-1A | 64                 | 1 | 61,3 |
| 1825 WS-2A | 99                 | 1 | 68,0 |
| 1825 WS-3A | 86                 | 1 | 70,8 |
| 1825 WS-4A | 133                | 1 | 75,8 |
| 1825 WS-5A | 151                | 1 | 81,6 |

## 1830 Roller Tool Cabinet SUPER-BUGGY



**Type** Ergonomic design and a convincing concept:  
The famous bestseller with the innovative conception and excellent storage capacity; for optimal order and overview, practical and most robust in use.  
The 45° angle of the storage trays gives the optimum position to view into the trolley. Easily moveable trays which are arranged at different levels slide over each other independently in both directions.  
The cabinet lid is fitted with an integral lock and can be swivelled by a heavy duty tubular arm which holds the cabinet lid in the horizontal position. It then becomes a rigid worktop.  
All protruding edges are fitted with rubber buffers.  
Plus a cable reel (4 plug sockets and 5 m cable) and an extra lockable storage compartment in the lower section of the cabinet. The cabinet is lacquered in ELORA-yellow.

**Material** heavy gauge sheet steel

| Stock-No.<br>empty | Height<br>(closed) mm | Height<br>(opened) mm | Width<br>mm | Depth<br>mm | Load capacity<br>kg | kg   |
|--------------------|-----------------------|-----------------------|-------------|-------------|---------------------|------|
| 1830 L             | 875                   | 920                   | 1020        | 500         | 280                 | 53,0 |

Roller Tool Cabinet SUPER-BUGGY 1830, supplied with the following tool assortments:

| Stock-No.  | Contents<br>pieces |   | kg   |
|------------|--------------------|---|------|
| 1830 WS-1M | 64                 | 1 | 66,3 |
| 1830 WS-2M | 100                | 1 | 73,0 |
| 1830 WS-3M | 86                 | 1 | 75,5 |
| 1830 WS-4M | 137                | 1 | 80,8 |
| 1830 WS-5M | 146                | 1 | 86,6 |
| 1830 WS-1A | 64                 | 1 | 66,3 |
| 1830 WS-2A | 99                 | 1 | 72,5 |
| 1830 WS-3A | 86                 | 1 | 75,3 |
| 1830 WS-4A | 133                | 1 | 80,5 |
| 1830 WS-5A | 151                | 1 | 86,2 |

## 1380 Hard-Top Case



|          |                                                                                    |  |  |  |  |
|----------|------------------------------------------------------------------------------------|--|--|--|--|
| Type     | 2 trays for tools, 1 ABS bottom tray with separators, lockable, ergonomical handle |  |  |  |  |
| Material | ABS plastic, black; aluminium frame                                                |  |  |  |  |

| Stock-No.<br>empty | Width<br>mm | Height<br>mm | Depth<br>mm |   | <br>kg |
|--------------------|-------------|--------------|-------------|---|--------|
| 1380 L             | 490         | 180          | 340         | 1 | 4,0    |

Hard-top case 1380, supplied with 48 tools

| Stock-No. | Contents<br>pieces |   | <br>kg |
|-----------|--------------------|---|--------|
| 1380 WS-9 | 48                 | 1 | 9,3    |

Hard-top case 1380, supplied with 82 tools for the perfect electrician

| Stock-No.  | Contents<br>pieces |   | <br>kg |
|------------|--------------------|---|--------|
| 1380 WS-10 | 82                 | 1 | 9,8    |

## 256 Padlock



|             |                                                                          |  |  |
|-------------|--------------------------------------------------------------------------|--|--|
| Application | for Cantilever Box 800, 803, 810, 813 and Roller Tool Cabinet 1200, 1850 |  |  |
| Type        | with steel bow 35mm, incl. 2 keys                                        |  |  |
| Material    | brass                                                                    |  |  |

| Stock-No. | mm |   | <br>g |
|-----------|----|---|-------|
| 256       | 47 | 1 | 80    |

## 1390 Electricians Tool Kit



|          |                                             |  |  |
|----------|---------------------------------------------|--|--|
| Type     | with 5 drawers and a removable plastic tray |  |  |
| Material | leather imitations                          |  |  |

| Stock-No.<br>empty | Width<br>mm | Height<br>mm | <br>kg |
|--------------------|-------------|--------------|--------|
| 1390 L             | 360         | 430          | 4,4    |

Electricians Tool Kit 1390, supplied with the following tool assortment:

| Stock-No.  | Contents<br>pieces |   | <br>kg |
|------------|--------------------|---|--------|
| 1390 WS-6M | 85                 | 1 | 12,2   |

## 256-1000 Cylinder Lock



**New!**

|             |                                                                |  |  |
|-------------|----------------------------------------------------------------|--|--|
| Application | for use in tool cabinet Stock-No. 1000, 1100, 1110 with 2 keys |  |  |
|-------------|----------------------------------------------------------------|--|--|

| Stock-No. |   | <br>g |
|-----------|---|-------|
| 256-1000  | 1 | 80    |

## 256-1210 Cylinder Lock

|             |                                                            |  |  |
|-------------|------------------------------------------------------------|--|--|
| Application | for use in roller tool cabinet Stock-No. 1210, with 2 keys |  |  |
|-------------|------------------------------------------------------------|--|--|

| Stock-No. |   | <br>g |
|-----------|---|-------|
| 256-1210  | 1 | 112   |

## 256-1220 Cylinder Lock

|             |                                                            |  |  |
|-------------|------------------------------------------------------------|--|--|
| Application | for use in roller tool cabinet Stock-No. 1220, with 2 keys |  |  |
|-------------|------------------------------------------------------------|--|--|

| Stock-No. |   | <br>g |
|-----------|---|-------|
| 256-1220  | 1 | 40    |

## 256-1250 Cylinder Lock

|             |                                                                                  |  |  |
|-------------|----------------------------------------------------------------------------------|--|--|
| Application | for use in tool box Stock-No. 1250 and in work bench Stock-No. 1820, with 2 keys |  |  |
|-------------|----------------------------------------------------------------------------------|--|--|

| Stock-No. |   | <br>g |
|-----------|---|-------|
| 256-1250  | 1 | 55    |

## 256-1825 Cylinder Lock

|             |                                                                  |  |  |
|-------------|------------------------------------------------------------------|--|--|
| Application | for use in roller tool cabinet Stock-No. 1825, 1830, with 2 keys |  |  |
|-------------|------------------------------------------------------------------|--|--|

| Stock-No. |   | <br>g |
|-----------|---|-------|
| 256-1825  | 1 | 75    |



| 1200 E Spare parts for Tool Trolley CADDY |                                                                         |                                                                                   |                                                                                        |             |
|-------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------|
| Application                               | additional or replacement parts for tool trolley CADDY, Stock-No. 1200L |                                                                                   |                                                                                        |             |
| Stock-No.                                 |                                                                         |  | <br>g |             |
| 1200 EH                                   | Plastic Handle                                                          | 1                                                                                 | 345                                                                                    |             |
| 1200 EP                                   | Roll Holder                                                             | 1                                                                                 | 600                                                                                    |             |
| 1200 EG                                   | Rubber Mat for working top                                              | 1                                                                                 | 945                                                                                    |             |
| 1200 EK                                   | Edge protector                                                          | 1                                                                                 | 325                                                                                    |             |
| 1200 EGS                                  | Slides with stop                                                        | 1                                                                                 | 305                                                                                    |             |
| 1200 EBO                                  | Fix wheel                                                               | 1                                                                                 | 450                                                                                    | <b>New!</b> |
| 1200 EBR                                  | Fix wheel with brake                                                    | 1                                                                                 | 875                                                                                    |             |
| 1200 ELR                                  | Swivelling wheel                                                        | 1                                                                                 | 700                                                                                    |             |
| 1200 ES1                                  | Drawer with 3 dividers                                                  | 1                                                                                 | 200                                                                                    |             |
| 1200 ES2                                  | Drawer with 1 length and 1 cross dividers                               | 1                                                                                 | 200                                                                                    |             |
| 1200 ES3                                  | Drawer with 2 cross dividers                                            | 1                                                                                 | 200                                                                                    |             |

| 1210 E Spare parts for Tool Trolley BUDDY |                                                                        |                                                                                   |                                                                                        |             |
|-------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------|
| Application                               | additional or replacement parts for tool trolley BUDDY Stock-No. 1210L |                                                                                   |                                                                                        |             |
| Stock-No.                                 |                                                                        |  | <br>g |             |
| 1200 EH                                   | Plastic Handle                                                         | 1                                                                                 | 345                                                                                    |             |
| 1200 EP                                   | Roll Holder                                                            | 1                                                                                 | 600                                                                                    |             |
| 1210 EG                                   | Rubber Mat for working top                                             | 1                                                                                 | 945                                                                                    |             |
| 1210 EK                                   | Edge protector                                                         | 1                                                                                 | 320                                                                                    |             |
| 1210 EGS                                  | Slides with stop                                                       | 1                                                                                 | 210                                                                                    |             |
| 1210 EBO                                  | Fix wheel                                                              | 1                                                                                 | 560                                                                                    | <b>New!</b> |
| 1210 EBR                                  | Fix wheel with brake                                                   | 1                                                                                 | 635                                                                                    |             |
| 1210 ELR                                  | Swivelling wheel                                                       | 1                                                                                 | 565                                                                                    |             |
| 1210 ES1                                  | Drawer with 3 dividers                                                 | 1                                                                                 | 1710                                                                                   |             |
| 1210 ES2                                  | Drawer with 1 cross divider                                            | 1                                                                                 | 1600                                                                                   |             |
| 1210 ES3                                  | Drawer without divider                                                 | 1                                                                                 | 1500                                                                                   |             |

| 1825 E Spare parts for Tool Trolley BUGGY and SUPER-BUGGY |                                                                                                                    |                                                                                     |                                                                                          |             |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------|
| Application                                               | additional or replacement parts for tool trolley BUGGY Stock-No. 1825L and tool trolley SUPERBUGGY Stock-No. 1830L |                                                                                     |                                                                                          |             |
| Stock-No.                                                 |                                                                                                                    |  | <br>g |             |
| 1825 EH                                                   | Plastic Handle                                                                                                     | 1                                                                                   | 1500                                                                                     |             |
| 1825 EG1                                                  | Rubber Mat for working top                                                                                         | 1                                                                                   | 440                                                                                      |             |
| 1825 EG2                                                  | Rubber Mat for basement                                                                                            | 1                                                                                   | 1200                                                                                     |             |
| 1825 EK                                                   | Edge protector                                                                                                     | 1                                                                                   | 1230                                                                                     |             |
| 1825 EBO                                                  | Fix wheel                                                                                                          | 1                                                                                   | 450                                                                                      | <b>New!</b> |
| 1825 EBR                                                  | Fix wheel with brake                                                                                               | 1                                                                                   | 875                                                                                      |             |
| 1825 ELR                                                  | Swivelling wheel                                                                                                   | 1                                                                                   | 700                                                                                      |             |
| 1825 ES                                                   | Drawer                                                                                                             | 1                                                                                   | 3460                                                                                     |             |
| 1825 ESR                                                  | Plastic roll for drawer                                                                                            | 1                                                                                   | 10                                                                                       |             |

| 1220 E Spare parts for Tool Trolley SUPER-CADDY |                                                                               |                                                                                     |                                                                                          |             |
|-------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------|
| Application                                     | additional or replacement parts for tool trolley SUPER-CADDY, Stock-No. 1220L |                                                                                     |                                                                                          |             |
| Stock-No.                                       |                                                                               |  | <br>g |             |
| 1220 EH                                         | Plastic Handle                                                                | 1                                                                                   | 420                                                                                      |             |
| 1220 EP                                         | Roll Holder                                                                   | 1                                                                                   | 600                                                                                      |             |
| 1220 EG                                         | Rubber Mat for working top                                                    | 1                                                                                   | 640                                                                                      |             |
| 1220 ESG                                        | Set of Rubber Mats for Drawers                                                | 1                                                                                   | 2600                                                                                     |             |
| 1220 ES                                         | Tray for small pieces                                                         | 1                                                                                   | 470                                                                                      |             |
| 1220 EK                                         | Edge protector                                                                | 1                                                                                   | 290                                                                                      | <b>New!</b> |
| 1220 EGS                                        | Slide                                                                         | 1                                                                                   | 250                                                                                      |             |
| 1220 EBO                                        | Fix wheel                                                                     | 1                                                                                   | 450                                                                                      |             |
| 1220 EBR                                        | Fix wheel with brake                                                          | 1                                                                                   | 875                                                                                      |             |
| 1220 ELR                                        | Swivelling wheel                                                              | 1                                                                                   | 700                                                                                      |             |
| 1220 LG ES 1                                    | Drawer with 2 dividers and 1 cross divider, height 45mm                       | 1                                                                                   | 3100                                                                                     |             |
| 1220 LG ES 2                                    | Drawer with 2 dividers and 1 cross divider, height 72mm                       | 1                                                                                   | 3600                                                                                     |             |
| 1220 LG ES 3                                    | Drawer without divider, height 72mm                                           | 1                                                                                   | 3100                                                                                     |             |
| 1220 LG ES 4                                    | Drawer without divider, height 172mm                                          | 1                                                                                   | 4400                                                                                     |             |
| 1220 LR ES 1                                    | Drawer with 2 dividers and 1 cross divider, height 45mm                       | 1                                                                                   | 3100                                                                                     |             |
| 1220 LR ES 2                                    | Drawer with 2 dividers and 1 cross divider, height 72mm                       | 1                                                                                   | 3600                                                                                     |             |
| 1220 LR ES 3                                    | Drawer without divider, height 72mm                                           | 1                                                                                   | 3100                                                                                     |             |
| 1220 LR ES 4                                    | Drawer without divider, height 172mm                                          | 1                                                                                   | 4400                                                                                     |             |
| 1220 LB ES 1                                    | Drawer with 2 dividers and 1 cross divider, height 45mm                       | 1                                                                                   | 3100                                                                                     |             |
| 1220 LB ES 2                                    | Drawer with 2 dividers and 1 cross divider, height 72mm                       | 1                                                                                   | 3600                                                                                     |             |
| 1220 LB ES 3                                    | Drawer without divider, height 72mm                                           | 1                                                                                   | 3100                                                                                     |             |
| 1220 LB ES 4                                    | Drawer without divider, height 172mm                                          | 1                                                                                   | 4400                                                                                     |             |
| 1220 LS ES 1                                    | Drawer with 2 dividers and 1 cross divider, height 45mm                       | 1                                                                                   | 3100                                                                                     |             |
| 1220 LS ES 2                                    | Drawer with 2 dividers and 1 cross divider, height 72mm                       | 1                                                                                   | 3600                                                                                     |             |
| 1220 LS ES 3                                    | Drawer without divider, height 72mm                                           | 1                                                                                   | 3100                                                                                     |             |
| 1220 LS ES 4                                    | Drawer without divider, height 172mm                                          | 1                                                                                   | 4400                                                                                     |             |

| 1850 E Spare parts for Tool Trolley PRAKTIKUS |                                                                             |                                                                                       |                                                                                            |             |
|-----------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------|
| Application                                   | additional or replacement parts for tool trolley PRAKTIKUS, Stock-No. 1850L |                                                                                       |                                                                                            |             |
| Stock-No.                                     |                                                                             |  | <br>g |             |
| 1850 EH                                       | Plastic Handle                                                              | 1                                                                                     | 1500                                                                                       |             |
| 1850 EG1                                      | Rubber Mat for working top                                                  | 1                                                                                     | 440                                                                                        |             |
| 1850 EG2                                      | Rubber Mat for basement                                                     | 1                                                                                     | 800                                                                                        |             |
| 1850 EK                                       | Edge protector                                                              | 1                                                                                     | 1000                                                                                       | <b>New!</b> |
| 1850 EGS1                                     | Slide, short pattern                                                        | 1                                                                                     | 250                                                                                        |             |
| 1850 EGS2                                     | Slide, long pattern                                                         | 1                                                                                     | 250                                                                                        |             |
| 1850 EBO                                      | Fix wheel                                                                   | 1                                                                                     | 120                                                                                        |             |
| 1850 EBR                                      | Fix wheel with brake                                                        | 1                                                                                     | 865                                                                                        |             |
| 1850 ELR                                      | Swivelling wheel                                                            | 1                                                                                     | 725                                                                                        |             |

| WS-1         | Tool Assortment                                                                                                                 |              |     |
|--------------|---------------------------------------------------------------------------------------------------------------------------------|--------------|-----|
| Application  | Suitable for all ELORA-storage units except hard-top case <b>Stock-No. 1380</b> and electricians tool kit <b>Stock-No. 1390</b> |              |     |
| Stock-No.    | Contents                                                                                                                        |              | kg  |
| <b>WS-1M</b> | 64 metric tools MM                                                                                                              | 1 assortment | 8,3 |
| <b>WS-1A</b> | 64 inch tools AF                                                                                                                | 1 assortment | 8,3 |

| MM-Assortment WS-1M |                                                                                        | AF-Assortment WS-1A |                                                                                                                   |
|---------------------|----------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>205</b>          | <b>Combination spanners</b><br>8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 19; 22 mm         | <b>205A</b>         | <b>Combination spanners</b><br>5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8; 15/16; 1 AF               |
| <b>770-L</b>        | <b>Bi-Hexagon sockets</b><br>10; 11; 12; 13; 14; 15; 16; 17; 19; 22; 24; 27; 30; 32 mm | <b>770-LA</b>       | <b>Bi-Hexagon sockets</b><br>3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 13/16; 7/8; 1; 1.1/16; 1.1/8; 1.1/4 AF |
| <b>158-R1</b>       | <b>Hexagon key set</b><br>2; 2,5; 3; 4; 5; 6; 8; 10 mm                                 | <b>158-R3</b>       | <b>Hexagon key set</b><br>1/16; 5/64; 3/32; 1/8; 5/32; 3/16; 7/32; 1/4 AF                                         |

One piece of each tool is included in both tool assortments WS-1M and WS-1A.

|                  |                                                                                                    |                  |                                                                                                                                          |
|------------------|----------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>770-L1D</b>   | Reversible ratchet                                                                                 | <b>266-K</b>     | <b>Chisel and punch set (6 pieces)</b><br>262-125 mm    264-120×10×4 mm<br>262-150 mm    264-120×12×4 mm<br>263-125 mm    265-120×10mm   |
| <b>770-L3</b>    | Sliding T-bar                                                                                      | <b>271-K</b>     | <b>Parallel pin punch set (6 pieces)</b><br>271-150×2 mm    271-150×5 mm<br>271-150×3 mm    271-150×6 mm<br>271-150×4 mm    271-150×8 mm |
| <b>770-L5/L6</b> | <b>Extension bar</b><br>770-L5 125 mm<br>770-L6 250 mm                                             | <b>246-1×200</b> | Engineers file with plastic handle 255K-110, flat pattern                                                                                |
| <b>770-L7</b>    | <b>Universal joint</b>                                                                             | <b>247-2×200</b> | Engineers file with plastic handle 255K-110, half round pattern                                                                          |
| <b>639</b>       | <b>Profi Engineers screwdriver for plain slot screws</b><br>639-IS 100<br>639-IS 125<br>639-IS 150 | <b>248-2×200</b> | Engineers file with plastic handle 255K-110, round pattern                                                                               |
| <b>649-IS 75</b> | <b>Profi Electricians screwdriver</b>                                                              | <b>132-240</b>   | <b>Waterpump plier</b>                                                                                                                   |
| <b>659</b>       | <b>Profi screwdriver for cross slot screws</b><br>659-PH 1<br>659-PH 2<br>659-PH 3                 | <b>495MB-165</b> | <b>TOP-KRAFT Combination plier</b>                                                                                                       |
| <b>1665-300</b>  | <b>Engineers hammer</b>                                                                            |                  |                                                                                                                                          |

| WS-2 Tool Assortment |                                                                                                                                                                                                                                                                                                                                                                        |                     |                                                                                                                                                                        |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application          | Suitable for Cantilever Tool Box <b>Stock-No. 810</b> , Tool kit <b>Stock-No. 1250</b> , Tool cabinets <b>Stock-No. 1000</b> and <b>1100</b> , Roller tool cabinet <b>CADDY Stock-No. 1200</b> , <b>BUDDY Stock-No. 1210</b> , <b>SUPER-CADDY Stock-No. 1220</b> , <b>BUGGY Stock-No. 1825</b> , <b>SUPER-BUGGY Stock-No. 1830</b> and <b>PRAKTIKUS Stock-No. 1850</b> |                     |                                                                                                                                                                        |
| Stock-No.            | Contents                                                                                                                                                                                                                                                                                                                                                               |                     | kg                                                                                                                                                                     |
| <b>WS-2M</b>         | 100 metric tools MM                                                                                                                                                                                                                                                                                                                                                    | 1 assortment        | 15,0                                                                                                                                                                   |
| <b>WS-2A</b>         | 99 inch tools AF                                                                                                                                                                                                                                                                                                                                                       | 1 assortment        | 14,5                                                                                                                                                                   |
| MM-Assortment WS-2M  |                                                                                                                                                                                                                                                                                                                                                                        | AF-Assortment WS-2A |                                                                                                                                                                        |
| <b>100</b><br>       | <b>Double open-ended spanners</b><br>6×7; 8×9; 10×11; 12×13; 14×15;<br>16×17; 18×19; 20×22; 24×27; 30×32 mm                                                                                                                                                                                                                                                            | <b>100A</b><br>     | <b>Double open-ended spanners</b><br>1/4×5/16; 5/16×3/8; 3/8×7/16; 7/16×1/2; 1/2×9/16; 9/16×5/8;<br>5/8×11/16; 11/16×3/4; 3/4×7/8; 13/16×7/8; 15/16×1; 1.1/16×1.1/4 AF |
| <b>110</b><br>       | <b>Double-ended ring spanners</b><br>6×7; 8×9; 10×11; 12×13; 14×15;<br>16×17; 18×19; 20×22; 24×27; 30×32 mm                                                                                                                                                                                                                                                            | <b>110A</b><br>     | <b>Double-ended ring spanners</b><br>1/4×5/16; 3/8×7/16; 1/2×9/16; 5/8×11/16;<br>3/4×25/32; 13/16×7/8; 15/16×1; 1.1/16×1.1/4 AF                                        |
| <b>770-L</b><br>     | <b>Bi-Hexagon sockets</b><br>10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32 mm                                                                                                                                                                                                                                                                         | <b>770-LA</b><br>   | <b>Bi-Hexagon sockets</b><br>3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4;<br>13/16; 25/32; 7/8; 15/16; 1; 1.1/8; 1.1/4 AF                                             |
| <b>157-11M</b><br>   | <b>Ignition spanner set</b>                                                                                                                                                                                                                                                                                                                                            | <b>157-11A</b><br>  | <b>Ignition spanner set</b>                                                                                                                                            |
| <b>158-R1</b><br>    | <b>Hexagon key set</b><br>2; 2,5; 3; 4; 5; 6; 8; 10 mm                                                                                                                                                                                                                                                                                                                 | <b>158-R3</b><br>   | <b>Hexagon key set</b><br>1/16; 5/64; 3/32; 1/8; 5/32; 3/16; 7/32; 1/4 AF                                                                                              |
| <b>188-13M</b><br>   | <b>Feeler gauge</b>                                                                                                                                                                                                                                                                                                                                                    | <b>188-13Z</b><br>  | <b>Feeler gauge</b>                                                                                                                                                    |

One piece of each tool is included in both tool assortments WS-2M and WS-2A.

|                        |                                                                    |                      |                                                                                                          |                       |                                                                                                                        |
|------------------------|--------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>770-L1D</b><br>     | Reversible ratchet                                                 | <b>1665-500</b><br>  | Engineers hammer 500 g                                                                                   | <b>649-IS 200</b><br> | Profi Electricians screwdriver                                                                                         |
| <b>770-L3</b><br>      | Sliding T-bar                                                      | <b>470-MB200</b><br> | TOP-KRAFT Flat-round nose plier                                                                          | <b>657</b><br>        | Profi screwdriver for cross slot screws<br>657-PH 1<br>657-PH 2<br>657-PH 3                                            |
| <b>770-L5/L6</b><br>   | Extension bar<br>770-L5 125 mm<br>770-L6 250 mm                    | <b>492-MB160</b><br> | TOP-KRAFT Diagonal cutter                                                                                |                       |                                                                                                                        |
| <b>770-L7</b><br>      | Universal joint                                                    | <b>495MB-185</b><br> | TOP-KRAFT Combination plier                                                                              | <b>165-500</b><br>    | Tyre levers (2 pieces)                                                                                                 |
| <b>222-16×20,8</b><br> | Spark plug wrench                                                  | <b>1660-32</b><br>   | Soft faced hammer                                                                                        | <b>266-K</b><br>      | Chisel and punch set (6 pieces)<br>262-125 mm 264-120×10×4 mm<br>262-150 mm 264-120×12×4 mm<br>263-125 mm 265-120×10mm |
| <b>246-1×200</b><br>   | Engineers file with plastic handle<br>255K-110, flat pattern       | <b>251</b><br>       | Spark plug cleaning brush                                                                                |                       |                                                                                                                        |
| <b>247-2×200</b><br>   | Engineers file with plastic handle<br>255K-110, half round pattern | <b>60-8A</b><br>     | Adjustable wrench                                                                                        | <b>189</b><br>        | Adjustable hacksaw frame                                                                                               |
| <b>248-2×200</b><br>   | Engineers file with plastic handle<br>255K-110, round pattern      | <b>242KM-250</b><br> | Oil can, 250 ccm                                                                                         | <b>1549-2</b><br>     | Measuring tape 2,0 m                                                                                                   |
| <b>132-240</b><br>     | Waterpump plier                                                    | <b>645</b><br>       | Profi Engineers screwdriver for plain slot screws<br>645-IS 75<br>645-IS 100<br>645-IS 125<br>645-IS 150 | <b>249 S6</b><br>     | Contact file set (6 pieces)                                                                                            |
| <b>500-250</b><br>     | Grip plier                                                         |                      |                                                                                                          | <b>250-4</b><br>      | Steel wire brush 4 rows                                                                                                |



| WS-3 Tool Assortment |                                                                                                                                                                                                                                                                                                                                                                        |                     |                                                                                                                                                                        |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application          | Suitable for Cantilever Tool Box <b>Stock-No. 810</b> , Tool kit <b>Stock-No. 1250</b> , Tool cabinets <b>Stock-No. 1000</b> and <b>1100</b> , Roller tool cabinet <b>CADDY Stock-No. 1200</b> , <b>BUDDY Stock-No. 1210</b> , <b>SUPER-CADDY Stock-No. 1220</b> , <b>BUGGY Stock-No. 1825</b> , <b>SUPER-BUGGY Stock-No. 1830</b> and <b>PRAKTIKUS Stock-No. 1850</b> |                     |                                                                                                                                                                        |
| Stock-No.            | Contents                                                                                                                                                                                                                                                                                                                                                               |                     | kg                                                                                                                                                                     |
| <b>WS-3M</b>         | 86 metric tools MM                                                                                                                                                                                                                                                                                                                                                     | 1 assortment        | 17,5                                                                                                                                                                   |
| <b>WS-3A</b>         | 86 inch tools AF                                                                                                                                                                                                                                                                                                                                                       | 1 assortment        | 17,3                                                                                                                                                                   |
| MM-Assortment WS-3M  |                                                                                                                                                                                                                                                                                                                                                                        | AF-Assortment WS-3A |                                                                                                                                                                        |
| <b>100</b>           | <b>Double open-ended spanners</b><br>6×7; 8×9; 10×11; 12×13; 14×15; 16×17;<br>18×19; 20×22; 21×23; 25×28; 30×32 mm                                                                                                                                                                                                                                                     | <b>100A</b>         | <b>Double open-ended spanners</b><br>1/4×5/16; 5/16×3/8; 3/8×7/16; 7/16×1/2; 1/2×9/16; 9/16×5/8;<br>5/8×11/16; 11/16×3/4; 3/4×7/8; 13/16×7/8; 15/16×1; 1.1/16×1.1/4 AF |
| <b>110</b>           | <b>Double-ended ring spanners</b><br>6×7; 8×9; 10×11; 12×13; 14×15; 16×17;<br>18×19; 20×22; 24×27; 25×28; 30×32 mm                                                                                                                                                                                                                                                     | <b>110A</b>         | <b>Double-ended ring spanners</b><br>1/4×5/16; 5/16×3/8; 3/8×7/16; 7/16×1/2; 1/2×9/16; 9/16×5/8;<br>5/8×11/16; 3/4×25/32; 13/16×7/8; 15/16×1; 1.1/8; 1.1/16×1.1/4 AF   |
| <b>205</b>           | <b>Combination spanners</b><br>8; 9; 10; 11; 13; 17; 19; 22 mm                                                                                                                                                                                                                                                                                                         | <b>205A</b>         | <b>Combination spanners</b><br>5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4 AF                                                                                          |
| <b>770-L</b>         | <b>Bi-Hexagon sockets</b><br>10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20;<br>21; 22; 23; 24; 25; 26; 27; 30; 32 mm                                                                                                                                                                                                                                                      | <b>770-LA</b>       | <b>Bi-Hexagon sockets</b><br>3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 25/32; 13/16; 7/8;<br>15/16; 31/32; 1; 1.1/16; 1.1/8; 1.3/16; 1.1/4 AF                      |

One piece of each tool is included in both tool assortments WS-3M and WS-3A.

|                    |                                                        |                  |                                                                                                                  |
|--------------------|--------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------|
| <b>770-L1D</b>     | <b>Reversible ratchet</b>                              | <b>639</b>       | <b>Profi Engineers screwdriver for plain slot screws</b><br>639-IS 100<br>639-IS 125<br>639-IS 150<br>639-IS 200 |
| <b>770-L3</b>      | <b>Sliding T-bar</b>                                   | <b>649</b>       | <b>Profi Electricians screwdrivers</b><br>649-IS 75<br>649-IS 150                                                |
| <b>770-L5/L6</b>   | <b>Extension bar</b><br>770-L5 125 mm<br>770-L6 250 mm | <b>659-PH2</b>   | <b>Profi screwdriver for cross slot screws</b>                                                                   |
| <b>770-L7</b>      | <b>Universal joint</b>                                 | <b>260-150</b>   | <b>Flat cold chisel</b>                                                                                          |
| <b>222-16×20,8</b> | <b>Spark plug wrench</b>                               | <b>261-150</b>   | <b>Cross cut chisel</b>                                                                                          |
| <b>165-500</b>     | <b>Tyre levers (2 pieces)</b>                          | <b>265-10</b>    | <b>Centre punch</b>                                                                                              |
| <b>60- 8A</b>      | <b>Adjustable wrench</b>                               | <b>264</b>       | <b>Taper pin punches</b><br>264-120×10×2<br>264-120×10×3<br>264-120×12×4<br>264-120×12×5<br>264-120×12×6         |
| <b>60-10A</b>      | <b>Adjustable wrench</b>                               | <b>1665-500</b>  | <b>Engineers hammer</b>                                                                                          |
| <b>132-240</b>     | <b>Waterpump plier</b>                                 | <b>246-1×200</b> | <b>Engineers file with plastic handle 255K-110, flat pattern</b>                                                 |
| <b>470MB-200</b>   | <b>TOP-KRAFT Flat round nose plier</b>                 | <b>247-2×200</b> | <b>Engineers file with plastic handle 255K-110, half round pattern</b>                                           |
| <b>490MB-165</b>   | <b>TOP-KRAFT Diagonal cutter</b>                       | <b>248-2×200</b> | <b>Engineers file with plastic handle 255K-110, round pattern</b>                                                |
| <b>495MB-185</b>   | <b>TOP-KRAFT Combination plier</b>                     | <b>189</b>       | <b>Adjustable hacksaw frame</b>                                                                                  |
| <b>473C-19B</b>    | <b>TOP-KRAFT Internal circlip plier</b>                |                  |                                                                                                                  |
| <b>473D-19B</b>    | <b>TOP-KRAFT Internal circlip plier</b>                |                  |                                                                                                                  |

| WS-4 Tool Assortment |                                                                                                                                                                                                                                                                                                            |                     |                                                                                                                                                                        |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application          | Suitable for Tool kit <b>Stock-No. 1250</b> , Tool Cabinet <b>Stock-No. 1100</b> , Roller tool cabinet <b>CADDY Stock-No. 1200</b> , <b>BUDDY Stock-No. 1210</b> , <b>SUPER-CADDY Stock-No. 1220</b> , <b>BUGGY Stock-No. 1825</b> , <b>SUPER-BUGGY Stock-No. 1830</b> and <b>PRAKTIKUS Stock-No. 1850</b> |                     |                                                                                                                                                                        |
| Stock-No.            | Contents                                                                                                                                                                                                                                                                                                   |                     | kg                                                                                                                                                                     |
| <b>WS-4M</b>         | 137 metric tools MM                                                                                                                                                                                                                                                                                        | 1 assortment        | 22,8                                                                                                                                                                   |
| <b>WS-4A</b>         | 133 inch tools AF                                                                                                                                                                                                                                                                                          | 1 assortment        | 22,5                                                                                                                                                                   |
| MM-Assortment WS-4M  |                                                                                                                                                                                                                                                                                                            | AF-Assortment WS-4A |                                                                                                                                                                        |
| <b>100</b>           | <b>Double open-ended spanners</b><br>6×7; 8×9; 10×11; 12×13; 14×15; 16×17;<br>18×19; 20×22; 21×23; 24×27; 25×28; 30×32 mm                                                                                                                                                                                  | <b>100A</b>         | <b>Double open-ended spanners</b><br>1/4×5/16; 5/16×3/8; 3/8×7/16; 7/16×1/2; 1/2×9/16; 9/16×5/8;<br>5/8×11/16; 11/16×3/4; 3/4×7/8; 13/16×7/8; 15/16×1; 1.1/16×1.1/4 AF |
| <b>110</b>           | <b>Double-ended ring spanners</b><br>6×7; 8×9; 10×11; 12×13; 14×15; 16×17;<br>18×19; 20×22; 21×23; 24×27; 25×28; 30×32 mm                                                                                                                                                                                  | <b>110A</b>         | <b>Double-ended ring spanners</b><br>1/4×5/16; 5/16×3/8; 3/8×7/16; 7/16×1/2; 1/2×9/16; 9/16×5/8;<br>5/8×11/16; 3/4×25/32; 13/16×7/8; 15/16×1; 1.1/16×1.1/4 AF          |
| <b>205</b>           | <b>Combination spanners</b><br>8; 9; 10; 11; 13; 17; 19; 22 mm                                                                                                                                                                                                                                             | <b>205A</b>         | <b>Combination spanners</b><br>5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4 AF                                                                                          |
| <b>770-L</b>         | <b>Bi-Hexagon sockets</b><br>10; 11; 12; 13; 14; 15; 16; 17; 18; 19;<br>20; 21; 22; 23; 24; 25; 26; 27; 30; 32 mm                                                                                                                                                                                          | <b>770-LA</b>       | <b>Bi-Hexagon sockets</b><br>3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 25/32; 13/16;<br>7/8; 15/16; 31/32; 1; 1.1/16; 1.1/8; 1.3/16; 1.1/4 AF                      |
| <b>1455M</b>         | <b>Hexagon sockets 1/4"</b><br>4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 13 mm                                                                                                                                                                                                                                   | <b>1455A</b>        | <b>Hexagon sockets 1/4"</b><br>3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2 AF                                                                                   |
| <b>157-11M</b>       | <b>Ignition spanner set</b>                                                                                                                                                                                                                                                                                | <b>157-11A</b>      | <b>Ignition spanner set</b>                                                                                                                                            |
| <b>158-R1</b>        | <b>Hexagon key set</b>                                                                                                                                                                                                                                                                                     | <b>158-R3</b>       | <b>Hexagon key set</b>                                                                                                                                                 |
| <b>188-13M</b>       | <b>Feeler gauge</b>                                                                                                                                                                                                                                                                                        | <b>188-13Z</b>      | <b>Feeler gauge</b>                                                                                                                                                    |

One piece of each tool is included in both tool assortments WS-4M and WS-4A.

|                     |                                                        |                  |                                                                                                    |                  |                                                                                                                               |
|---------------------|--------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>770-L1D</b>      | <b>Reversible ratchet</b>                              | <b>171-500</b>   | <b>Tommy bar</b>                                                                                   | <b>643-IS 60</b> | <b>Profi Chubby screwdriver</b>                                                                                               |
| <b>770-L3</b>       | <b>Sliding T-bar</b>                                   | <b>60-8A</b>     | <b>Adjustable wrench</b>                                                                           | <b>659</b>       | <b>Profi screwdriver for cross slot screws</b><br>659-PH1<br>659-PH2                                                          |
| <b>770-L5/L6</b>    | <b>Extension bar</b><br>770-L5 125 mm<br>770-L6 250 mm | <b>132</b>       | <b>Waterpump plier</b><br>132-190<br>132-240                                                       | <b>655-PH1</b>   | <b>Profi Chubby screwdriver</b>                                                                                               |
| <b>770-L7</b>       | <b>Universal joint</b>                                 | <b>470MB-200</b> | <b>TOP-KRAFT Flat round nose plier</b>                                                             | <b>266-K</b>     | <b>Chisel and punch set (6 pieces)</b><br>262-125 mm 264-120×10×4 mm<br>262-150 mm 264-120×12×4 mm<br>263-125 mm 265-120×10mm |
| <b>1450-1D</b>      | <b>Reversible ratchet</b>                              | <b>471MB-200</b> | <b>TOP-KRAFT Flat round nose plier</b>                                                             | <b>352-S6</b>    | <b>Screw extractor set (6 pieces)</b>                                                                                         |
| <b>1450-3</b>       | <b>Spinner handle</b>                                  | <b>480MB-330</b> | <b>Brake spring plier</b>                                                                          | <b>189</b>       | <b>Adjustable hacksaw frame</b>                                                                                               |
| <b>1450-4</b>       | <b>Sliding T-bar</b>                                   | <b>485MB-165</b> | <b>TOP-KRAFT End cutter</b>                                                                        | <b>1660-35</b>   | <b>Soft face hammer</b>                                                                                                       |
| <b>1450-5</b>       | <b>Extension bar 100 mm</b>                            | <b>490MB-165</b> | <b>TOP-KRAFT Diagonal cutter</b>                                                                   | <b>1665-500</b>  | <b>Engineers hammer</b>                                                                                                       |
| <b>1450-8</b>       | <b>Universal joint</b>                                 | <b>495MB-185</b> | <b>TOP-KRAFT Combination plier</b>                                                                 | <b>246-1×200</b> | <b>Engineers file with plastic handle</b><br>255K-110, flat pattern                                                           |
| <b>222- 16×20,8</b> | <b>Spark plug wrench</b>                               | <b>500-250</b>   | <b>Grip plier</b>                                                                                  | <b>247-2×200</b> | <b>Engineers file with plastic handle</b><br>255K-110, half round pattern                                                     |
| <b>165-500</b>      | <b>Tyre levers (2 pieces)</b>                          | <b>639</b>       | <b>Profi Engineers screwdriver for plain slot screws</b><br>639-IS 100<br>639-IS 150<br>639-IS 200 | <b>248-2×200</b> | <b>Engineers file with plastic handle</b><br>255K-110, round pattern                                                          |
| <b>170-24</b>       | <b>Wheel nut wrench</b>                                | <b>649</b>       | <b>Profi Electricians screwdriver</b><br>649-IS 60<br>649-IS 100<br>649-IS 150                     | <b>242KM-250</b> | <b>Oil can, 250 ccm</b>                                                                                                       |

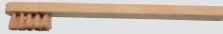
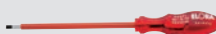
| WS-5 Tool Assortment |                                                                                                                                                                                                                     |                     |                                                                                                                                                                        |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application          | Suitable for Tool Cabinet Stock-No. 1100, Roller tool cabinet CADDY Stock-No. 1200, BUDDY Stock-No. 1210, SUPER-CADDY Stock-No. 1220, BUGGY Stock-No. 1825, SUPER-BUGGY Stock-No. 1830 and PRAKTIKUS Stock-No. 1850 |                     |                                                                                                                                                                        |
| Stock-No.            | Contents                                                                                                                                                                                                            |                     | kg                                                                                                                                                                     |
| WS-5M                | 146 metric tools MM                                                                                                                                                                                                 | 1 assortment        | 28,6                                                                                                                                                                   |
| WS-5A                | 151 inch tools AF                                                                                                                                                                                                   | 1 assortment        | 28,2                                                                                                                                                                   |
| MM-Assortment WS-5M  |                                                                                                                                                                                                                     | AF-Assortment WS-5A |                                                                                                                                                                        |
| <b>100</b>           | <b>Double open-ended spanners</b><br>6×7; 8×9; 10×11; 12×13; 14×15; 16×17;<br>18×19; 20×22; 21×23; 24×27; 25×28; 30×32 mm                                                                                           | <b>100A</b>         | <b>Double open-ended spanners</b><br>1/4×5/16; 5/16×3/8; 3/8×7/16; 7/16×1/2; 1/2×9/16; 9/16×5/8;<br>5/8×11/16; 11/16×3/4; 3/4×7/8; 13/16×7/8; 15/16×1; 1.1/16×1.1/4 AF |
| <b>110</b>           | <b>Double-ended ring spanners</b><br>6×7; 8×9; 10×11; 12×13; 14×15; 16×17;<br>18×19; 20×22; 21×23; 24×27; 25×28; 30×32 mm                                                                                           | <b>110A</b>         | <b>Double-ended ring spanners</b><br>1/4×5/16; 5/16×3/8; 3/8×7/16; 7/16×1/2; 1/2×9/16; 9/16×5/8;<br>5/8×11/16; 3/4×25/32; 13/16×7/8; 15/16×1; 1.1/16×1.1/4 AF          |
| <b>205</b>           | <b>Combination spanners</b><br>6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm                                                                                                                    | <b>205A</b>         | <b>Combination spanners</b><br>5/16; 3/8; 7/16; 1/2; 9/16; 9/32; 5/8; 11/16; 3/4; 25/32; 13/16; 7/8;<br>15/16; 1; 1.1/16; 1.1/8; 1.1/4 AF                              |
| <b>770-L</b>         | <b>Bi-Hexagon sockets 1/2"</b><br>10; 11; 12; 13; 14; 15; 16; 17; 18; 19;<br>20; 21; 22; 23; 24; 25; 26; 27; 30; 32 mm                                                                                              | <b>770-LA</b>       | <b>Bi-Hexagon sockets 1/2"</b><br>3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 25/32; 13/16; 7/8;<br>15/16; 31/32; 1; 1.1/16; 1.1/8; 1.3/16; 1.1/4 AF                 |
| <b>1455</b>          | <b>Hexagon sockets 1/4"</b><br>4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 13 mm                                                                                                                                            | <b>1455A</b>        | <b>Hexagon sockets 1/4"</b><br>3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2AF                                                                                    |
| <b>157-11M</b>       | <b>Ignition spanner set</b>                                                                                                                                                                                         | <b>157-11A</b>      | <b>Ignition spanner set</b>                                                                                                                                            |
| <b>158-R1</b>        | <b>Hexagon key set</b>                                                                                                                                                                                              | <b>158-R3</b>       | <b>Hexagon key set</b>                                                                                                                                                 |
| <b>188-13M</b>       | <b>Feeler gauge</b>                                                                                                                                                                                                 | <b>188-13Z</b>      | <b>Feeler gauge</b>                                                                                                                                                    |

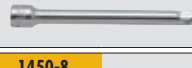
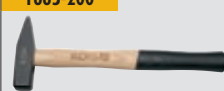
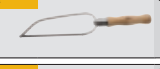
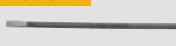
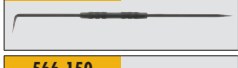
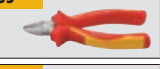
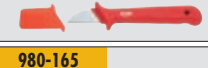
One piece of each tool is included in both tool assortments WS-5M and WS-5A.

|                    |                                                  |                  |                                               |                  |                                                                                     |
|--------------------|--------------------------------------------------|------------------|-----------------------------------------------|------------------|-------------------------------------------------------------------------------------|
| <b>770-L1D</b>     | <b>Reversible ratchet</b>                        | <b>195CV-17</b>  | <b>Four way wheel nut wrench</b>              | <b>242KM-250</b> | <b>Oil can, 250 ccm</b>                                                             |
| <b>770-L2</b>      | <b>Speed brace</b>                               | <b>60</b>        | <b>Adjustable wrench 60-6A; 60-8A; 60-10A</b> | <b>639</b>       | <b>Profi Engineers screwdriver for plain slot screws 639-IS 100; IS 150; IS 200</b> |
| <b>770-L3</b>      | <b>Sliding T-bar</b>                             | <b>480-MB330</b> | <b>Brake spring plier</b>                     | <b>649</b>       | <b>Profi Electricians screwdriver 649-IS 60; IS 100, IS 150</b>                     |
| <b>770-L5/L6</b>   | <b>Extension bar 770-L5 125 mm 770-L6 250 mm</b> | <b>132</b>       | <b>Waterpump plier 132-190; 132-240</b>       | <b>643-IS 60</b> | <b>Profi Chubby screwdriver</b>                                                     |
| <b>770-L7</b>      | <b>Universal joint</b>                           | <b>500-250</b>   | <b>Grip plier</b>                             | <b>655-PH 1</b>  | <b>Profi Chubby screwdriver</b>                                                     |
| <b>1450-1D</b>     | <b>Reversible ratchet</b>                        | <b>470BI-200</b> | <b>TOP-KRAFT Flat round nose plier</b>        | <b>659</b>       | <b>Profi screwdriver for cross slot screws 659-PH 1; 659-PH 2</b>                   |
| <b>1450-3</b>      | <b>Spinner handle</b>                            | <b>471MB-200</b> | <b>TOP-KRAFT Flat round nose plier</b>        | <b>260</b>       | <b>Flat cold chisel 260-150; 260-200</b>                                            |
| <b>1450-4</b>      | <b>Sliding T-bar</b>                             | <b>485MB-165</b> | <b>TOP-KRAFT End cutter</b>                   | <b>261-150</b>   | <b>Cross cut chisel</b>                                                             |
| <b>1450-5</b>      | <b>Extension bar 100 mm</b>                      | <b>490MB-165</b> | <b>TOP-KRAFT Diagonal cutter</b>              | <b>264</b>       | <b>Taper pin punches 264-120×10×3 264-120×12×5 264-120×12×4 264-120×12×6</b>        |
| <b>1450-8</b>      | <b>Universal joint</b>                           | <b>495MB-185</b> | <b>TOP-KRAFT Combination plier</b>            | <b>265-10</b>    | <b>Centre punch</b>                                                                 |
| <b>222-16×20,8</b> | <b>Spark plug wrench</b>                         | <b>473C-19B</b>  | <b>TOP-KRAFT- Internal circlip plier</b>      | <b>189</b>       | <b>Adjustable hacksaw frame</b>                                                     |
| <b>165-500</b>     | <b>Tyre levers (2 pieces)</b>                    | <b>473D-19B</b>  | <b>TOP-KRAFT- Internal circlip plier</b>      | <b>1665-300</b>  | <b>Engineers hammer</b>                                                             |
| <b>170</b>         | <b>Wheel nut wrench 170-24 170-32</b>            | <b>474A-19B</b>  | <b>TOP-KRAFT- External circlip plier</b>      | <b>246-1x200</b> | <b>Engineers file with plastic handle 255K-110, flat pattern</b>                    |
| <b>171-500</b>     | <b>Tommy bar</b>                                 | <b>474B-19B</b>  | <b>TOP-KRAFT- External circlip plier</b>      | <b>247-2x200</b> | <b>Engineers file with plastic handle 255K-110, half round pattern</b>              |
|                    |                                                  | <b>352-S6</b>    | <b>Screw extractor set (6 pieces)</b>         | <b>248-2x200</b> | <b>Engineers file with plastic handle 255K-110, round pattern</b>                   |

| WS-6 Tool Assortment |                                                                                                                            |
|----------------------|----------------------------------------------------------------------------------------------------------------------------|
| Application          | Suitable for Electricians tool kit <b>Stock-No. 1390</b>                                                                   |
| Stock-No.            | Contents                                                                                                                   |
|                      |                                                                                                                            |
| WS-6M                | 85 metric tools MM 1 assortment 7,8 kg                                                                                     |
| MM-Assortment WS-6M  |                                                                                                                            |
| 146                  | Obstruction wrenches<br>4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11; 12; 13; 14; 17 mm                                              |
| 113                  | Comp.- Double-ended ring spanners<br>4x4,5; 5x5,5; 6x7; 8x9; 10x11 mm                                                      |
| 1455                 | Hexagon sockets 1/4"<br>4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm                                                  |
| 158-R1               | Hexagon key set                                                                                                            |
| 216                  | Hexagon nut driver<br>4; 4,5; 5; 5,5; 6; 7; 8; 9; 10 mm                                                                    |
| 1450-1D              | Reversible ratchet                                                                                                         |
| 1450-3               | Spinner handle                                                                                                             |
| 1450-4               | Sliding T-bar                                                                                                              |
| 1450-5               | Extension bar 100 mm                                                                                                       |
| 1450-8               | Universal joint                                                                                                            |
| 130BI-190            | Waterpump plier                                                                                                            |
| 476BI-145            | TOP-KRAFT Flat nose plier                                                                                                  |
| 476BI-170            | TOP-KRAFT Flat nose plier                                                                                                  |
| 477BI-145            | TOP-KRAFT Round nose plier                                                                                                 |
| 477BI-170            | TOP-KRAFT Round nose plier                                                                                                 |
| 490BI-165            | TOP-KRAFT Diagonal cutter                                                                                                  |
| 494BI-160            | TOP-KRAFT Wire stripper                                                                                                    |
| 495BI-165            | TOP-KRAFT Combination plier                                                                                                |
| 900IS                | VDE screwdriver for plain slot screws<br>900IS-0,4x2,5<br>900IS-0,5x3,0<br>900IS-0,6x2,8<br>900IS-0,8x4,0<br>900IS-1,0x5,5 |
| 910                  | VDE screwdriver for cross slot screws<br>910-PH0<br>910-PH1<br>910-PH2                                                     |
| 740                  | Angle screwdriver for plain slot screws<br>740-4,0<br>740-5,5<br>740-8,0                                                   |
| 730                  | Angle screwdriver for cross slot screws<br>730-1<br>730-3                                                                  |
| 271                  | Parallel pin punches<br>271-150x2<br>271-150x3<br>271-150x4<br>271-150x5                                                   |
| 242K-60              | Oil can 60 ccm                                                                                                             |
| 237-500              | Flexible magnetic Pick-up tool                                                                                             |
| 1665-100             | Engineers hammer                                                                                                           |
| 566-150              | VDE voltage tester                                                                                                         |
| 1591                 | Scriber                                                                                                                    |
| 257                  | Puk-Hacksaw frame                                                                                                          |



| WS-9 Tool Assortment                                                                 |                                                                                             |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Application                                                                          | Suitable for hard-top case <b>Stock-No. 1380</b>                                            |
| Stock-No.                                                                            | Contents                                                                                    |
|                                                                                      |            |
| <b>WS-9M</b>                                                                         | 48 metric tools MM                                                                          |
|                                                                                      | 1 assortment                                                                                |
|                                                                                      |  kg      |
|                                                                                      | 5,3                                                                                         |
| MM-Assortment WS-9M                                                                  |                                                                                             |
| <b>203</b>                                                                           | Combination spanners<br>6, 7, 8, 10, 13, 15, 17, 19 mm                                      |
|      |                                                                                             |
| <b>321-180</b>                                                                       | Carpenters pincers                                                                          |
|    |                                                                                             |
| <b>159-SKK 1</b>                                                                     | Hexagon key set<br>2,5; 3; 4; 5; 6; 8 mm                                                    |
|     |                                                                                             |
| <b>470MB-200</b>                                                                     | TOP-KRAFT Flat round nose plier                                                             |
|    |                                                                                             |
| <b>771-L</b>                                                                         | Hexagon sockets 1/2"<br>10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22 mm                   |
|      |                                                                                             |
| <b>490MB-165</b>                                                                     | TOP-KRAFT Diagonal cutter                                                                   |
|    |                                                                                             |
| <b>251</b>                                                                           | Spark plug cleaning brush                                                                   |
|      |                                                                                             |
| <b>495MB-185</b>                                                                     | TOP-KRAFT Combination plier                                                                 |
|    |                                                                                             |
| <b>561</b>                                                                           | Mains testing screwdriver                                                                   |
|      |                                                                                             |
| <b>647-IS 75</b>                                                                     | Profi Engineers screwdriver for plain slot screws                                           |
|    |                                                                                             |
| <b>586</b>                                                                           | Car electric test set                                                                       |
|     |                                                                                             |
| <b>645</b>                                                                           | Profi Engineers screwdriver for plain slot screws<br>645-IS 100<br>645-IS 125<br>645-IS 150 |
|  |                                                                                             |
| <b>132-240</b>                                                                       | Waterpump plier                                                                             |
|    |                                                                                             |
| <b>657</b>                                                                           | Profi Engineers screwdriver for cross slot screws<br>657-PH1<br>657-PH2                     |
|  |                                                                                             |
| <b>1665-200</b>                                                                      | Engineers hammer                                                                            |
|    |                                                                                             |
| <b>770-L1D</b>                                                                       | Reversible ratchet                                                                          |
|  |                                                                                             |
| <b>260-150</b>                                                                       | Flat cold chisel                                                                            |
|    |                                                                                             |
| <b>770-L3</b>                                                                        | Sliding T-bar                                                                               |
|  |                                                                                             |
| <b>265-10</b>                                                                        | Centre punch                                                                                |
|    |                                                                                             |
| <b>770-L6</b>                                                                        | Extension bar 250 mm                                                                        |
|  |                                                                                             |
| <b>271-4</b>                                                                         | Parallel pin punch                                                                          |
|    |                                                                                             |
| <b>771-LTZ 20,8</b>                                                                  | Extra Deep hexagon spark plug socket                                                        |
|   |                                                                                             |

| WS-10 Tool Assortment                                                                                     |                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application                                                                                               | Suitable for hard-top case <b>Stock-No. 1380</b>                                                                                                                      |
| Stock-No.                                                                                                 | Contents                                                                                                                                                              |
|                                                                                                           |   |
| <b>WS-10M</b>                                                                                             | 82 metric tools MM 1 assortment 5,8                                                                                                                                   |
| <b>MM-Assortment WS-10M</b>                                                                               |                                                                                                                                                                       |
| <b>146</b><br>           | Combination spanners<br>4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17 mm                                                                                 |
| <b>1595-KUB</b><br>      | Ball end hexagon key set<br>1,5; 2; 2,5; 3; 4; 5; 6; 8; 10 mm                                                                                                         |
| <b>1625-TXKU</b><br>     | TORX® Ball end key set<br>TX9, TX10, TX15, TX20, TX25, TX27, TX30, TX40                                                                                               |
| <b>1455</b><br>     | Hexagon sockets 1/4"<br>4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11; 13 mm                                                                                                     |
| <b>60-8 MB</b><br>       | Adjustable wrench                                                                                                                                                     |
| <b>130BI-240</b><br>      | Waterpump plier                                                                                                                                                       |
| <b>1450-1D</b><br>        | Reversible ratchet                                                                                                                                                    |
| <b>1450-3</b><br>       | Spinner handle                                                                                                                                                        |
| <b>1450-4</b><br>      | Sliding T-bar                                                                                                                                                         |
| <b>1450-5</b><br>      | Extension bar 100 mm                                                                                                                                                  |
| <b>1450-8</b><br>      | Universal joint 45 mm                                                                                                                                                 |
| <b>1542-3</b><br>      | Measuring tape 3,0 m                                                                                                                                                  |
| <b>1665-200</b><br>     | Engineers hammer 200 g                                                                                                                                                |
| <b>237-220</b><br>     | Flexible magnetic pick-up tool 220 g                                                                                                                                  |
| <b>257 A</b><br>       | PUK hacksaw                                                                                                                                                           |
| <b>260-200</b><br>     | Flat cold chisel                                                                                                                                                      |
| <b>264</b><br>         | Taper pin punch<br>264-120×10×2<br>264-120×10×4                                                                                                                       |
| <b>365-200×8×10</b><br> | Electricians chisel                                                                                                                                                   |
| <b>643-IS 60</b><br>    | PROFI-Chubby screwdriver                                                                                                                                              |
| <b>655-PH 1</b><br>     | PROFI-Chubby screwdriver                                                                                                                                              |
| <b>730-1</b><br>        | Offset key for cross slot screws                                                                                                                                      |
| <b>740</b><br>          | Offset key for plain slot screws<br>740-5,5<br>740-8,0                                                                                                                |
| <b>746</b><br>          | Square awl                                                                                                                                                            |
| <b>1591</b><br>         | Engineers scriber 250 mm                                                                                                                                              |
| <b>566-150</b><br>     | VDE voltage tester                                                                                                                                                    |
| <b>900IS</b><br>      | VDE screwdriver for plain slot screws<br>900IS-0,5×3,0 900IS-0,8×4,0<br>900IS-0,6×2,8 900IS-0,8×5,5<br>900IS-0,6×3,5                                                  |
| <b>910</b><br>        | VDE screwdriver for cross slot screws<br>910-PH 1<br>910-PH2                                                                                                          |
| <b>912</b><br>        | VDE screwdriver for cross slot screws<br>912-PZ1<br>912-PZ2                                                                                                           |
| <b>920-175</b><br>    | VDE flat nose plier                                                                                                                                                   |
| <b>930-170</b><br>    | VDE flat round nose plier                                                                                                                                             |
| <b>950-185</b><br>    | VDE universal diagonal cutter                                                                                                                                         |
| <b>960-185</b><br>    | VDE combination plier                                                                                                                                                 |
| <b>977</b><br>        | VDE cable knife                                                                                                                                                       |
| <b>980-165</b><br>    | VDE wire stripper                                                                                                                                                     |

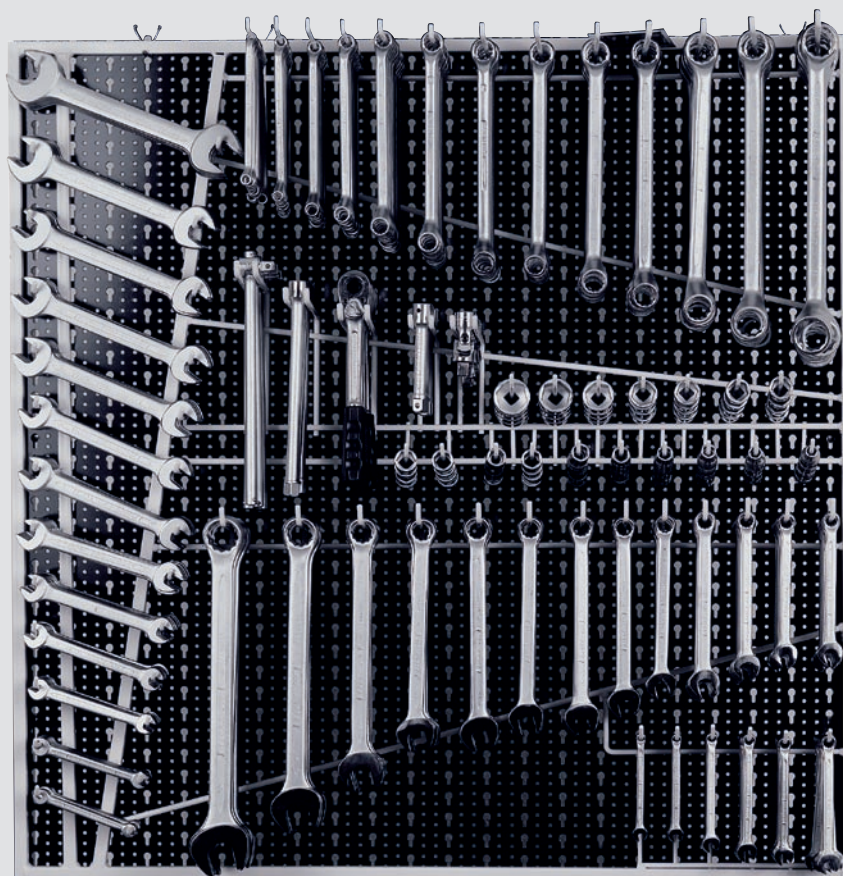
| MS-91 Tool Assortment                                                                                |                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application                                                                                          | Suitable for ELORA Roller Tool Cabinet BUDDY, Stock-No. 1210, CADDY, Stock-No. 1200 and SUPER-CADDY, Stock-No. 1220                                                                               |
| Stock-No.                                                                                            | Contents                                                                                                                                                                                          |
| MS-91                                                                                                | 91 metric tools MM                                                                                                                                                                                |
| Module                                                                                               | Description                                                                                                                                                                                       |
| MS-2                                                                                                 | Combination spanners                                                                                                                                                                              |
| MS-12                                                                                                | Socket set                                                                                                                                                                                        |
| MS-21                                                                                                | TOP-KRAFT Pliers with insulated handles                                                                                                                                                           |
| MS-25                                                                                                | Circclip pliers                                                                                                                                                                                   |
| MS-31                                                                                                | PROFI-screwdrivers                                                                                                                                                                                |
| 1430-MU                                                                                              | Socket set<br>1455-4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11 mm<br>1450-1D Reversible Ratchet<br>1450-3 Spinner Handle<br>1450-4 Sliding T-bar<br>1450-5 Extension Bar 100mm<br>1450-8 Universal Joint   |
| 132-240                                                                                              | Waterpump plier                                                                                                                                                                                   |
| 159SKU                                                                                               | Ball end hexagon key set                                                                                                                                                                          |
| 162S-TXKU                                                                                            | TORX® Ball end key set                                                                                                                                                                            |
| 1665-500                                                                                             | Engineers hammer                                                                                                                                                                                  |
| 500-250                                                                                              | Grip plier                                                                                                                                                                                        |
| 60-8A                                                                                                | Adjustable wrench                                                                                                                                                                                 |
| 205                                                                                                  | 8; 10; 11; 13; 14; 17; 19; 22 mm                                                                                                                                                                  |
| 770-L1D<br>771-L<br>770-L6<br>770-L3                                                                 | Reversible ratchet<br>Hexagon sockets 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 22 mm<br>Extension bar 250 mm<br>Sliding T-bar                                                                  |
| 495BI-185<br>470BI-200<br>490BI-165                                                                  | Combination plier<br>Flat round plier<br>Diagonal cutter                                                                                                                                          |
| 383C-19A<br>383D-19A<br>384A-19A<br>384B-19A                                                         | Internal circclip plier<br>Internal circclip plier<br>External circclip plier<br>External circclip plier                                                                                          |
| 639-IS 100<br>639-IS 125<br>639-IS 150<br>649-IS 75<br>659-PH 1<br>659-PH 2<br>655-PH 2<br>643-IS 60 | Engineers screwdriver<br>Engineers screwdriver<br>Engineers screwdriver<br>Electricians screwdriver<br>Engineers screwdriver<br>Engineers screwdriver<br>Chubby screwdriver<br>Chubby screwdriver |
| 250-4                                                                                                | Steel wire brush                                                                                                                                                                                  |
| 251                                                                                                  | Spark plug cleaning brush                                                                                                                                                                         |
| 1548-2                                                                                               | Measuring tape                                                                                                                                                                                    |
| 266-KS                                                                                               | Chisel and punch set (6 pieces)<br>262-125mm 264-120×10×4mm<br>262-150mm 264-120×12×4mm<br>263-125mm 265-120×10mm                                                                                 |
| 209 S5K                                                                                              | Engineers file set<br>207-2×200<br>208-2×200<br>246-2×200<br>247-2×200<br>248-2×200                                                                                                               |
| 189                                                                                                  | Adjustable hacksaw frame                                                                                                                                                                          |
| 242KM-250                                                                                            | Oil can, 250 ccm                                                                                                                                                                                  |

| MS-114 Tool Assortment |                                                                                                                                       |                                                                                   |                                                                                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application            | Suitable for ELORA Roller Tool Cabinet BUDDY, Stock-No. 1200, CADDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220, 1825, 1830, 1850 |                                                                                   |                                                                                                                                                                                                 |
| Stock-No.              | Contents                                                                                                                              |  |                                                                                                              |
| MS-114                 | 114 metric tools MM                                                                                                                   | 1 assortment                                                                      | 8,3                                                                                                                                                                                             |
| MM-Assortment MS-114   |                                                                                                                                       |                                                                                   |                                                                                                                                                                                                 |
| 205                    | Combination spanners<br>8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 19; 22 mm                                                               | 189                                                                               | Adjustable hacksaw frame                                                                                                                                                                        |
| 132-240                | Waterpump plier                                                                                                                       | 1430-MU                                                                           | Socket set<br>1455-4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11 mm<br>1450-1D Reversible Ratchet<br>1450-3 Spinner Handle<br>1450-4 Sliding T-bar<br>1450-5 Extension Bar 100mm<br>1450-8 Universal Joint |
| 495BI-165              | Combination plier                                                                                                                     | 281U                                                                              | Safety knife                                                                                                                                                                                    |
| 266-KS                 | Chisel and punch set (6 pieces)<br>262-125mm<br>262-150mm<br>263-125mm<br>264-120×10×4mm<br>264-120×12×4mm<br>265-120×10mm            | 352-S6                                                                            | Screw extractor set (6 pieces)                                                                                                                                                                  |
| 271-KS                 | Parallel pin punch set (6 pieces)<br>271-150×2mm<br>271-150×3mm<br>271-150×4mm<br>271-150×5mm<br>271-150×6mm<br>271-150×8mm           | 1548SP-3                                                                          | Measuring tape                                                                                                                                                                                  |
| 1665-300               | Engineers hammer                                                                                                                      | 500-250                                                                           | Grip plier                                                                                                                                                                                      |
| 159S-KUB               | Ball end hexagon key set<br>1,5; 2; 2,5; 3; 4; 5; 6; 8; 10 mm                                                                         | 490BI-165                                                                         | TOP-KRAFT Diagonal cutter                                                                                                                                                                       |
| 770-L1D                | Reversible Ratchet                                                                                                                    | 680-S6                                                                            | PROFI-Engineers Screwdriver Set<br>645-IS 100<br>645-IS 125<br>645-IS 150<br>643-IS 45<br>657-PH 1<br>657-PH 2                                                                                  |
| 770-L5/L6              | Extension bar<br>770-L5 125 mm<br>770-L6 250 mm                                                                                       | 250-4                                                                             | Steel wire brush                                                                                                                                                                                |
| 770-L7                 | Universal joint                                                                                                                       | 3455S                                                                             | Bit-Box                                                                                                                                                                                         |
| 770-L                  | Bi-Hexagon sockets 1/2"<br>10; 11; 12; 13; 14; 15; 16; 17; 19; 22; 24; 27; 30; 32 mm                                                  |                                                                                   |                                                                                                                                                                                                 |



| MS-136 Tool Assortment |                                                                                                                     |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application            | Suitable for ELORA Roller Tool Cabinet BUDDY, Stock-No. 1200, CADDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                         |
| Stock-No.              | Contents                                                                                                            |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                         |
| MS-136                 | 136 metric tools MM                                                                                                 | 1 assortment                                                                                                     | 14,0 kg                                                                                                                                                                                                                                                                                                                                                                                 |
| Module                 | Description                                                                                                         | Stock-No.                                                                                                        | Contents: 1 piece of each                                                                                                                                                                                                                                                                                                                                                               |
| MS-2                   | Combination spanners                                                                                                | 205                                                                                                              | 8; 10; 11; 13; 14; 17; 19; 22 mm                                                                                                                                                                                                                                                                                                                                                        |
| MS-13                  | Screwdriver sockets                                                                                                 | 3210<br>159-SKU                                                                                                  | Screwdriver sockets<br>● IN 4, 5, 6, 8, 10, 12, 14, 17, 19 mm<br>Ball end hexagon keys<br>● KU1,5; KU2; KU2,5; KU3; KU4; KU5; KU6; KU8; KU10 mm                                                                                                                                                                                                                                         |
| MS-14                  | TORX Screwdriver sockets                                                                                            | 3245<br>1625-TXKU                                                                                                | TORX Screwdriver sockets<br>★ TX 20, 25, 27, 30, 40, 45, 50, 55, 60<br>TORX Ball end keys<br>★ TXKU 9; TXKU10; TXKU15; TXKU20; TXKU25; TXKU27; TXKU30; TXKU40                                                                                                                                                                                                                           |
| MS-17                  | Screwdriver set                                                                                                     | 770-L1D<br>770-L<br>770-L3<br>770-L5<br>770-L6<br>770-L7                                                         | each 1 piece<br>Reversible Ratchet<br>10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 30; 32 mm<br>Sliding T-bar 300 mm<br>Extension Bar 125 mm<br>Extension Bar 250 mm<br>Universal Joint 75 mm                                                                                                                                                                |
| MS-21                  | TOP-KRAFT Pliers with insulated handles                                                                             | 495BI-185<br>470BI-200<br>490BI-165                                                                              | Combination plier<br>Flat round plier<br>Diagonal cutter                                                                                                                                                                                                                                                                                                                                |
| MS-25                  | Circlip pliers                                                                                                      | 383C-19A<br>383D-19A<br>384A-19A<br>384B-19A                                                                     | Internal circlip plier<br>Internal circlip plier<br>External circlip plier<br>External circlip plier                                                                                                                                                                                                                                                                                    |
| MS-34                  | PROFI-Screwdriver set                                                                                               | 645-IS 75<br>645-IS 100<br>645-IS 125<br>645-IS 150<br>657-PH 1<br>657-PH 2<br>643-IS 60<br>655-PH 2             | each 1 piece<br>Engineers screwdriver<br>Engineers screwdriver<br>Engineers screwdriver<br>Engineers screwdriver<br>Engineers screwdriver<br>Engineers screwdriver<br>Chubby screwdriver<br>Chubby screwdriver                                                                                                                                                                          |
| MS-50                  | Socket set                                                                                                          | 1455-<br>1455-IN<br>1455-TXE<br>3243-TX<br>1450-1D<br>1450-3<br>1450-4<br>1450-11<br>1450-5<br>1450-12<br>1450-8 | each 1 piece<br>Hexagon sockets 4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm<br>Screwdriver sockets 3; 4; 5; 6; 8 mm<br>TORX-Sockets 4; 5; 6; 7; 8; 10; 11<br>TORX-Sockets 8; 9; 10; 15; 20; 25; 27; 30; 40<br>Reversible Ratchet<br>Spinner handle 150 mm<br>Sliding T-bar 115 mm<br>Extension Bar 50 mm<br>Extension Bar 100 mm<br>Extension Bar 150 mm<br>Universal Joint 45 mm |
| 1665-500               | Engineers hammer                                                                                                    | 266-KS                                                                                                           | Chisel and punch set (6 pieces)<br>262-125mm<br>262-150mm<br>263-125mm<br>264-120×10×4mm<br>264-120×12×4mm<br>265-120×10mm                                                                                                                                                                                                                                                              |
| 132-240                | Waterpump plier                                                                                                     | 189                                                                                                              | Adjustable hacksaw frame                                                                                                                                                                                                                                                                                                                                                                |
| 500-250                | Grip plier                                                                                                          |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                         |
| 60-8A                  | Adjustable wrench                                                                                                   |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                         |

## 1880 Tool Dispenser



|                    |                                                                                                                          |             |      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------|-------------|------|
| Application        | A practical display unit ready for use on pegboards (not included), the unit is available for use where space is limited |             |      |
| Type               | Welded, lacquered                                                                                                        |             |      |
| Material           | Steel tubing                                                                                                             |             |      |
| Stock-No.<br>empty | Height<br>mm                                                                                                             | Width<br>mm | kg   |
| 1880 L             | 1000                                                                                                                     | 1000        | 10,8 |

Tool Dispenser 1880, supplied with the following tool assortment:

| Stock-No. | Contents                                                              | Pieces<br>each | kg   |
|-----------|-----------------------------------------------------------------------|----------------|------|
| 1880-M    | Tool Dispenser with 497 tools                                         | 1              | 99,8 |
|           | <b>Double open-ended spanners</b>                                     |                |      |
| 100-      | 6×7, 8×9, 10×11, 12×13, 14×15, 16×17 mm                               | 12             |      |
| 100-      | 17×19, 18×19, 20×22, 21×23, 22×24, 24×27, 30×32 mm                    | 6              |      |
|           | <b>Double-ended ring spanners</b>                                     |                |      |
| 110-      | 6×7, 8×9, 10×11, 12×13, 14×15, 16×17 mm                               | 12             |      |
| 110-      | 17×19, 18×19, 20×22, 21×23, 22×24, 24×27, 30×32 mm                    | 6              |      |
|           | <b>Combination spanners</b>                                           |                |      |
| 205-      | 6; 7; 8; 9; 10; 11; 12; 13; 14; 15 mm                                 | 12             |      |
| 205-      | 16; 17; 18; 19; 22; 24; 27; 30; 32 mm                                 | 6              |      |
| 770-L1D   | Reversible ratchet                                                    | 5              |      |
| 770-L3    | Sliding T-bar                                                         | 4              |      |
| 770-L5    | Extension bar 125 mm                                                  | 6              |      |
| 770-L6    | Extension bar 250 mm                                                  | 6              |      |
| 770-L7    | Universal joint                                                       | 6              |      |
|           | <b>Hexagon sockets</b>                                                |                |      |
| 771-L     | 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32 mm | 4              |      |

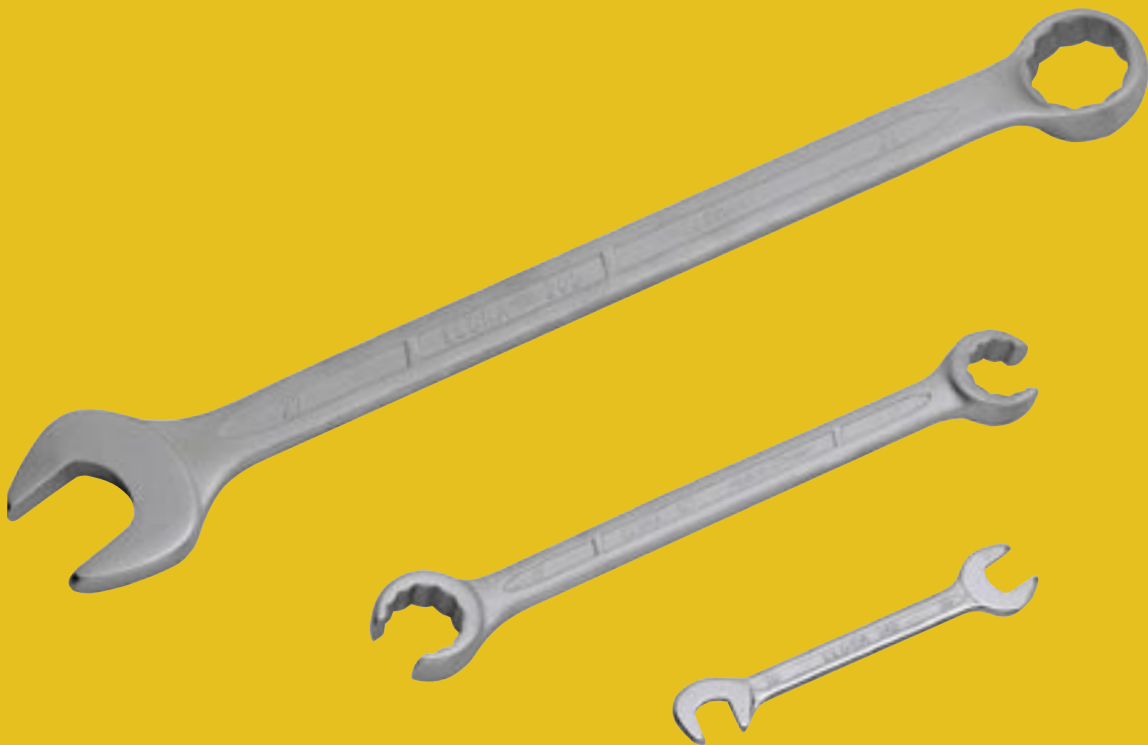




**FOR LOOSENING AND FIXING –  
THE RIGHT SPANNER IS AN ELORA SPANNER.**

## **SPANNERS AND WRENCHES**

**02**





## Double Open-Ended Spanners

### 100 Double Open-Ended Spanner



|          |                                           |
|----------|-------------------------------------------|
| Type     | jaws set at 15°, chrome plated            |
| Material | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |
| Standard | DIN 3110/ISO 3318/ISO 1085                |

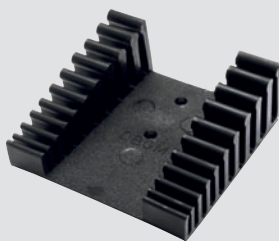
| Stock-No.    | mm  |    | g    | Stock-No.            | mm  |    | g    |
|--------------|-----|----|------|----------------------|-----|----|------|
| 100- 4x 5    | 110 | 12 | 16   | 100A- 1/4 x5/16      | 130 | 12 | 24   |
| 100-4,5x 5,5 | 110 | 12 | 16   | 100A- 5/16 x3/8      | 145 | 12 | 36   |
| 100-5,5x 7   | 130 | 12 | 24   | 100A- 11/32 x3/8     | 145 | 12 | 36   |
| 100- 6x 7    | 130 | 12 | 24   | 100A- 3/8 x7/16      | 160 | 12 | 52   |
| 100- 6x 8    | 130 | 12 | 24   | 100A- 7/16 x1/2      | 175 | 12 | 74   |
| 100- 7x 8    | 130 | 12 | 24   | 100A- 1/2 x9/16      | 190 | 12 | 95   |
| 100- 8x 9    | 145 | 12 | 36   | 100A- 9/16 x5/8      | 190 | 12 | 95   |
| 100- 8x10    | 145 | 12 | 36   | 100A- 19/32 x11/16   | 202 | 6  | 124  |
| 100- 8x11    | 160 | 12 | 52   | 100A- 5/8 x11/16     | 203 | 6  | 126  |
| 100- 9x10    | 145 | 12 | 36   | 100A- 5/8 x3/4       | 220 | 6  | 170  |
| 100- 9x11    | 160 | 12 | 52   | 100A- 5/8 x25/32     | 220 | 6  | 170  |
| 100- 10x11   | 160 | 12 | 52   | 100A- 11/16 x3/4     | 220 | 6  | 170  |
| 100- 10x12   | 160 | 12 | 52   | 100A- 3/4 x25/32     | 220 | 6  | 185  |
| 100- 10x13   | 175 | 12 | 74   | 100A- 3/4 x7/8       | 233 | 6  | 235  |
| 100- 11x13   | 175 | 12 | 74   | 100A- 25/32 x7/8     | 233 | 6  | 235  |
| 100- 11x14   | 175 | 12 | 74   | 100A- 13/16 x7/8     | 235 | 6  | 240  |
| 100- 12x13   | 175 | 12 | 74   | 100A- 7/8 x15/16     | 250 | 6  | 290  |
| 100- 12x14   | 175 | 12 | 74   | 100A- 7/8 x1         | 265 | 6  | 340  |
| 100- 13x14   | 190 | 12 | 95   | 100A- 15/16 x1       | 265 | 6  | 340  |
| 100- 13x15   | 190 | 12 | 95   | 100A- 15/16 x1.1/16  | 278 | 3  | 375  |
| 100- 14x15   | 190 | 12 | 95   | 100A- 1 x1.1/8       | 278 | 3  | 375  |
| 100- 13x16   | 202 | 12 | 124  | 100A- 1.1/16 x1.1/8  | 295 | 3  | 450  |
| 100- 13x17   | 202 | 12 | 124  | 100A- 1.1/16 x1.1/4  | 295 | 3  | 460  |
| 100- 14x17   | 202 | 12 | 124  | 100A- 1.1/8 x1.5/16  | 295 | 3  | 460  |
| 100- 16x17   | 203 | 12 | 126  | 100A- 1.3/16 x1.5/16 | 295 | 3  | 460  |
| 100- 16x18   | 203 | 12 | 126  | 100A- 1.1/4 x1.3/8   | 345 | 3  | 650  |
| 100- 17x19   | 220 | 6  | 170  | 100A- 1.1/4 x1.7/16  | 345 | 3  | 650  |
| 100- 17x22   | 220 | 6  | 185  | 100A- 1.1/4 x1.1/2   | 345 | 3  | 670  |
| 100- 18x19   | 220 | 6  | 170  | 100A- 1.5/16 x1.1/2  | 345 | 3  | 670  |
| 100- 18x21   | 220 | 6  | 185  | 100A- 1.3/8 x1.7/16  | 345 | 3  | 670  |
| 100- 19x21   | 233 | 6  | 235  | 100A- 1.3/8 x1.1/2   | 345 | 3  | 670  |
| 100- 19x22   | 233 | 6  | 235  | 100A- 1.7/16 x1.1/2  | 345 | 3  | 670  |
| 100- 19x24   | 233 | 6  | 235  | 100A- 1.7/16 x1.5/8  | 355 | 3  | 860  |
| 100- 20x22   | 235 | 6  | 240  | 100A- 1.1/2 x1.5/8   | 355 | 3  | 860  |
| 100- 21x22   | 235 | 6  | 240  | 100A- 1.5/8 x1.3/4   | 400 | 2  | 1120 |
| 100- 21x23   | 250 | 6  | 270  | 100A- 1.11/16x1.7/8  | 400 | 2  | 1120 |
| 100- 21x24   | 250 | 6  | 270  | 100A- 1.3/4 x2       | 445 | 2  | 1610 |
| 100- 22x24   | 250 | 6  | 290  | 100A- 1.13/16x2      | 445 | 2  | 1610 |
| 100- 24x26   | 265 | 6  | 340  | 100A- 1.7/8 x2       | 445 | 2  | 1610 |
| 100- 24x27   | 265 | 6  | 340  | 100A- 1.7/8 x2.1/16  | 445 | 2  | 1610 |
| 100- 24x30   | 278 | 3  | 375  | 100A- 2.3/16 x2.3/8  | 560 | 1  | 3020 |
| 100- 25x28   | 278 | 3  | 375  | 100A- 2.1/4 x2.7/16  | 560 | 1  | 3020 |
| 100- 27x29   | 295 | 3  | 450  |                      |     |    |      |
| 100- 27x30   | 295 | 3  | 450  |                      |     |    |      |
| 100- 27x32   | 295 | 3  | 460  |                      |     |    |      |
| 100- 30x32   | 295 | 3  | 460  |                      |     |    |      |
| 100- 30x34   | 345 | 3  | 650  |                      |     |    |      |
| 100- 32x34   | 345 | 3  | 650  |                      |     |    |      |
| 100- 30x36   | 345 | 3  | 650  |                      |     |    |      |
| 100- 32x36   | 345 | 3  | 650  |                      |     |    |      |
| 100- 34x36   | 345 | 3  | 670  |                      |     |    |      |
| 100- 36x41   | 355 | 3  | 860  |                      |     |    |      |
| 100- 38x42   | 355 | 3  | 860  |                      |     |    |      |
| 100- 41x46   | 400 | 2  | 1120 |                      |     |    |      |
| 100- 46x50   | 445 | 2  | 1610 |                      |     |    |      |
| 100- 55x60   | 560 | 1  | 3020 |                      |     |    |      |

## 100S Double Open-Ended Spanner Set



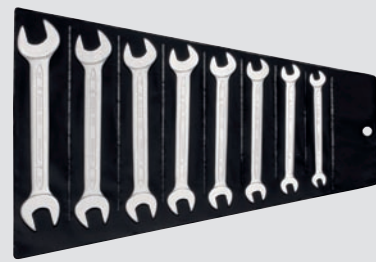
| Type        | in two-colour carton box                                                                                                       |   |      |
|-------------|--------------------------------------------------------------------------------------------------------------------------------|---|------|
| Stock-No.   | Contents<br>mm                                                                                                                 |   | g    |
| 100S 6M     | 8×9; 10×11; 12×13; 14×15; 16×17; 18×19 mm                                                                                      | 1 | 615  |
| 100S 8M     | 6×7; 8×9; 10×11; 12×13; 14×15; 16×17; 18×19; 20×22 mm                                                                          | 1 | 840  |
| 100S 8DIN   | 6×7; 8×9; 10×11; 12×13; 14×15; 16×17; 18×19; 21×22 mm                                                                          | 1 | 840  |
| 100S 10M    | 6×7; 8×9; 10×11; 12×13; 14×15; 16×17; 18×19; 20×22; 21×23; 24×27 mm                                                            | 1 | 1520 |
| 100S 101M   | 6×7; 8×9; 10×11; 12×13; 14×15; 16×17; 18×19; 20×22; 24×27; 30×32 mm                                                            | 1 | 1715 |
| 100S 101DIN | 6×7; 8×9; 10×11; 12×13; 14×15; 16×17; 18×19; 21×22; 24×26; 30×34 mm                                                            | 1 | 1850 |
| 100S 12M    | 6×7; 8×9; 10×11; 12×13; 14×15; 16×17; 18×19; 20×22; 21×23; 24×27; 25×28; 30×32 mm                                              | 1 | 2420 |
| 100S 12DIN  | 6×7; 8×9; 10×11; 12×13; 14×15; 16×17; 18×19; 20×22; 21×23; 24×26; 27×32; 30×34 mm                                              | 1 | 2610 |
| Stock-No.   | Contents<br>AF                                                                                                                 |   | g    |
| 100S 6AF    | 5/16×3/8; 7/16×1/2; 9/16×5/8; 11/16×3/4; 13/16×7/8; 15/16×1 AF                                                                 | 1 | 980  |
| 100S 8AF    | 1/4×5/16; 5/16×3/8; 7/16×1/2; 9/16×5/8; 11/16×3/4; 13/16×7/8; 15/16×1; 1.1/16×1.1/4 AF                                         | 1 | 1500 |
| 100S 12AF   | 1/4×5/16; 5/16×3/8; 3/8×7/16; 7/16×1/2; 1/2×9/16; 9/16×5/8; 5/8×11/16; 3/4×25/32; 13/16×7/8; 15/16×1; 1×1.1/8; 1.1/16×1.1/4 AF | 1 | 2100 |
| 100S 14AF   | 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; 1×1.1/8; 1.1/16×1.5/8; 1.11/16×1.7/8; 1.13/16×2 AF     | 1 | 5580 |

## 100SH Clip for Double Open-Ended Spanners



| Application | for double open-ended spanner sets of 8, 10 and 12 pcs, for fitting on tool boards and in tool cabinets |   |      |
|-------------|---------------------------------------------------------------------------------------------------------|---|------|
| Material    | solid plastic                                                                                           |   |      |
| Stock-No.   | for set                                                                                                 |   | g    |
| 100S H8     | for sets No. 100 of 8 pcs                                                                               | 1 | 19   |
| 100S H10    | for sets No. 100 of 10 pcs                                                                              | 1 | 26   |
| 100S H12    | for sets No. 100 of 12 pcs                                                                              | 1 | 38   |
| Stock-No.   | Contents                                                                                                |   | g    |
| 100S 8MH    | 100 S 8M with Clip 100S H 8                                                                             | 1 | 859  |
| 100S 10MH   | 100 S 10M with Clip 100S H 10                                                                           | 1 | 1546 |
| 100S 101MH  | 100 S101M with Clip 100 S H 10                                                                          | 1 | 1741 |
| 100S 12MH   | 100 S 12M with Clip 100 S H 12                                                                          | 1 | 2458 |
| Stock-No.   | Contents                                                                                                |   | g    |
| 100S 8AH    | 100 S 8AF with Clip 100 S H 8                                                                           | 1 | 1519 |
| 100S 12AH   | 100 S12AF with Clip 100 S H 12                                                                          | 1 | 2138 |

## 100SB Double Open-Ended Spanner Set



| Type        | in black plastic wallet                                                          |   |      |
|-------------|----------------------------------------------------------------------------------|---|------|
| Stock-No.   | Contents<br>mm                                                                   |   | g    |
| 100S 6MSB   | 6×7; 8×9; 10×11; 12×13; 14×15; 16×17 mm                                          | 1 | 495  |
| 100S 8MSB   | 6×7; 8×9; 10×11; 12×13; 14×15; 16×17; 18×19; 20×22 mm                            | 1 | 950  |
| 100S 8SBDIN | 6×7; 8×9; 10×11; 12×13; 14×15; 16×17; 18×19; 21×22 mm                            | 1 | 950  |
| Stock-No.   | Contents<br>AF                                                                   |   | g    |
| 100S 6AFSB  | 1/4×5/16; 5/16×3/8; 7/16×1/2; 9/16×5/8; 11/16×3/4; 13/16×7/8 AF                  | 1 | 730  |
| 100S 8AFSB  | 1/4×5/16; 5/16×3/8; 3/8×7/16; 7/16×1/2; 1/2×9/16; 5/8×11/16; 3/4×7/8; 15/16×1 AF | 1 | 1140 |

## MS-1 Module



| Application | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |   |     |
|-------------|------------------------------------------------------------------------------------------------------|---|-----|
| Type        | Black, with transparent cover                                                                        |   |     |
| Material    | ABS                                                                                                  |   |     |
| Stock-No.   | Contents                                                                                             |   | g   |
| MS-1        | Double open-ended spanners 100- 6×7; 8×9; 10×11; 12×13; 14×15; 16×17; 18×19; 21×22 mm                | 1 | 900 |

## MS-5 Module



| Application | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220                                                   |   |      |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| Type        | Black, with transparent cover                                                                                                                          |   |      |
| Material    | ABS                                                                                                                                                    |   |      |
| Stock-No.   | Contents                                                                                                                                               |   | g    |
| MS-5        | Double open-ended spanners 156- 2,5×3,2; 3×3,5; 4×5; 4,5×5,5 mm 100- 6×7; 8×9; 10×11; 12×13; 14×15; 16×17; 18×19; 20×22; 21×23; 24×27; 25×28; 30×32 mm | 1 | 2500 |

## 146 Obstruction Wrench



| Type     | both ends fit same nut size, extra thin jaws, jaws set at 82,5° and 15°, chrome plated, polished |
|----------|--------------------------------------------------------------------------------------------------|
| Material | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                        |

| Stock-No.      | mm  | jaws thickness mm | mm | g  |
|----------------|-----|-------------------|----|----|
| 146- 3,2 x 3,2 | 74  | 3,2               | 12 | 6  |
| 146- 3,5 x 3,5 | 74  | 3,2               | 12 | 6  |
| 146- 4 x 4     | 74  | 3,2               | 12 | 6  |
| 146- 4,5 x 4,5 | 74  | 3,2               | 12 | 6  |
| 146- 5 x 5     | 74  | 3,2               | 12 | 6  |
| 146- 5,5 x 5,5 | 84  | 3,2               | 12 | 11 |
| 146- 6 x 6     | 84  | 3,2               | 12 | 11 |
| 146- 7 x 7     | 84  | 3,2               | 12 | 11 |
| 146- 8 x 8     | 93  | 3,2               | 12 | 20 |
| 146- 9 x 9     | 93  | 3,2               | 12 | 20 |
| 146- 10 x 10   | 114 | 3,2               | 12 | 28 |
| 146- 11 x 11   | 114 | 3,2               | 12 | 28 |
| 146- 12 x 12   | 136 | 3,8               | 12 | 45 |
| 146- 13 x 13   | 136 | 3,8               | 12 | 45 |
| 146- 14 x 14   | 136 | 3,8               | 12 | 45 |
| 146- 15 x 15   | 156 | 3,8               | 12 | 65 |
| 146- 16 x 16   | 156 | 4,5               | 12 | 65 |
| 146- 17 x 17   | 156 | 4,5               | 12 | 65 |

| Stock-No.          | mm  | jaws thickness mm | mm | g  |
|--------------------|-----|-------------------|----|----|
| 146A-5/32 x 5/32   | 74  | 3,2               | 12 | 6  |
| 146A-3/16 x 3/16   | 74  | 3,2               | 12 | 6  |
| 146A-7/32 x 7/32   | 84  | 3,2               | 12 | 11 |
| 146A-1/4 x 1/4     | 84  | 3,2               | 12 | 11 |
| 146A-9/32 x 9/32   | 84  | 3,2               | 12 | 11 |
| 146A-5/16 x 5/16   | 93  | 3,2               | 12 | 20 |
| 146A-11/32 x 11/32 | 93  | 3,2               | 12 | 20 |
| 146A-3/8 x 3/8     | 93  | 3,2               | 12 | 20 |
| 146A-7/16 x 7/16   | 114 | 3,2               | 12 | 28 |
| 146A-15/32 x 15/32 | 136 | 3,8               | 12 | 45 |
| 146A-1/2 x 1/2     | 136 | 3,8               | 12 | 45 |
| 146A-9/16 x 9/16   | 136 | 3,8               | 12 | 45 |
| 146A-5/8 x 5/8     | 156 | 4,5               | 12 | 65 |

| Stock-No.  | mm  | jaws thickness mm | mm | g  |
|------------|-----|-------------------|----|----|
| 146BA- 8x8 | 74  | 3,2               | 12 | 6  |
| 146BA- 7x7 | 74  | 3,2               | 12 | 6  |
| 146BA- 6x6 | 74  | 3,2               | 12 | 6  |
| 146BA- 5x5 | 84  | 3,2               | 12 | 11 |
| 146BA- 4x4 | 84  | 3,2               | 12 | 11 |
| 146BA- 3x3 | 84  | 3,2               | 12 | 11 |
| 146BA- 2x2 | 93  | 3,2               | 12 | 20 |
| 146BA- 1x1 | 93  | 3,2               | 12 | 20 |
| 146BA- 0x0 | 114 | 3,2               | 12 | 28 |

## 1465 Obstruction Wrench Set



| Type | 8 and 10 pcs: in black plastic wallet;<br>12, 13 and 14 pcs:<br>in two-colour carton box |
|------|------------------------------------------------------------------------------------------|
|------|------------------------------------------------------------------------------------------|

| Stock-No. | Contents                                                                                                | mm | g   |
|-----------|---------------------------------------------------------------------------------------------------------|----|-----|
| 1465 8M   | 4x4; 5x5; 6x6; 7x7; 8x8;<br>9x9; 10x10; 11x11 mm                                                        | 1  | 145 |
| 1465 10M  | 4x4; 5x5; 6x6; 7x7; 8x8;<br>9x9; 10x10; 11x11;<br>12x12; 13x13 mm                                       | 1  | 230 |
| 1465 12M  | 4x4; 4,5x4,5; 5x5;<br>5,5x5,5; 6x6; 7x7; 8x8;<br>9x9; 10x10; 11x11;<br>12x12; 13x13 mm                  | 1  | 350 |
| 1465 14M  | 4x4; 4,5x4,5; 5x5;<br>5,5x5,5; 6x6; 7x7; 8x8;<br>9x9; 10x10; 11x11;<br>12x12; 13x13; 14x14;<br>17x17 mm | 1  | 365 |

| Stock-No. | Contents                                                                                                                                       | mm | g   |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
| 1465 8AF  | 5/32x5/32; 3/16x3/16;<br>7/32x7/32; 1/4x1/4;<br>9/32x9/32; 5/16x5/16;<br>11/32x11/32; 3/8x3/8 AF                                               | 1  | 115 |
| 1465 10AF | 5/32x5/32; 3/16x3/16;<br>7/32x7/32; 1/4x1/4;<br>9/32x9/32; 5/16x5/16;<br>11/32x11/32; 3/8x3/8;<br>7/16x7/16; 1/2x1/2 AF                        | 1  | 188 |
| 1465 12AF | 5/32x5/32; 3/16x3/16;<br>7/32x7/32; 1/4x1/4;<br>9/32x9/32; 5/16x5/16;<br>11/32x11/32; 3/8x3/8;<br>7/16x7/16; 1/2x1/2;<br>9/16x9/16; 5/8x5/8 AF | 1  | 298 |

## 1565 Midget Open-Ended Spanner Set



| Type | in black plastic wallet |
|------|-------------------------|
|------|-------------------------|

| Stock-No. | Contents                                                                                | mm | g   |
|-----------|-----------------------------------------------------------------------------------------|----|-----|
| 1565 6M   | 3,2x4; 3,5x4,5; 5x5,5;<br>6x7; 8x9; 10x11 mm                                            | 1  | 88  |
| 1565 12M  | 3x3,5; 3,2x4; 3,5x4,5;<br>4x5; 5x5,5; 5,5x7;<br>6x7; 7x8; 8x9; 8x10;<br>10x11; 12x13 mm | 1  | 180 |

| Stock-No. | Contents                                                                     | mm | g  |
|-----------|------------------------------------------------------------------------------|----|----|
| 1565 6AF  | 1/8x3/16; 5/32x13/64;<br>7/32x15/64; 1/4x5/16;<br>9/32x5/16;<br>11/32x3/8 AF | 1  | 92 |

| Stock-No. | Contents                      | mm | g  |
|-----------|-------------------------------|----|----|
| 1565 5BA  | 8x6, 6x4, 5x3, 4x2,<br>1x0 BA | 1  | 96 |

## 156 Midget Open-Ended Spanner



| Type     | jaws set at 15°, chrome plated, polished  |
|----------|-------------------------------------------|
| Material | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |

| Chrom. Validation of C17, Code No. 1-2200 |                                                                                        |                                                                                     |                                                                                       |
|-------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Stock-No.                                 |  mm |  |  g |
| 156- 2,5x3,2                              | 80                                                                                     | 12                                                                                  | 8                                                                                     |
| 156- 3 x3,5                               | 80                                                                                     | 12                                                                                  | 8                                                                                     |
| 156- 3,2x4                                | 80                                                                                     | 12                                                                                  | 8                                                                                     |
| 156- 3,5x4,5                              | 80                                                                                     | 12                                                                                  | 8                                                                                     |
| 156- 4 x4,5                               | 80                                                                                     | 12                                                                                  | 8                                                                                     |
| 156- 4 x5                                 | 80                                                                                     | 12                                                                                  | 8                                                                                     |
| 156- 4,5x5,5                              | 86                                                                                     | 12                                                                                  | 8                                                                                     |
| 156- 4 x6                                 | 86                                                                                     | 12                                                                                  | 12                                                                                    |
| 156- 5 x5,5                               | 86                                                                                     | 12                                                                                  | 12                                                                                    |
| 156- 5,5x7                                | 92                                                                                     | 12                                                                                  | 14                                                                                    |
| 156- 6 x7                                 | 92                                                                                     | 12                                                                                  | 14                                                                                    |
| 156- 7 x8                                 | 98                                                                                     | 12                                                                                  | 15                                                                                    |
| 156- 8 x9                                 | 98                                                                                     | 12                                                                                  | 15                                                                                    |
| 156- 8 x10                                | 105                                                                                    | 12                                                                                  | 22                                                                                    |
| 156- 10 x11                               | 105                                                                                    | 12                                                                                  | 22                                                                                    |
| 156- 12 x13                               | 112                                                                                    | 12                                                                                  | 26                                                                                    |

| Stock-No.        |  |  mm |  |  g |  |
|------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| 156A-1/8 x3/16   |                                                                                     | 80                                                                                     | 12                                                                                  | 8                                                                                     |  |
| 156A-5/32 x13/64 |                                                                                     | 80                                                                                     | 12                                                                                  | 8                                                                                     |  |
| 156A-3/16 x9/32  |                                                                                     | 80                                                                                     | 12                                                                                  | 8                                                                                     |  |
| 156A-13/64x7/32  |                                                                                     | 112                                                                                    | 12                                                                                  | 8                                                                                     |  |
| 156A-7/32 x15/64 |                                                                                     | 86                                                                                     | 12                                                                                  | 12                                                                                    |  |
| 156A-15/64x1/4   |                                                                                     | 92                                                                                     | 12                                                                                  | 14                                                                                    |  |
| 156A-3/16 x1/4   |                                                                                     | 92                                                                                     | 12                                                                                  | 14                                                                                    |  |
| 156A-1/4 x5/16   |                                                                                     | 98                                                                                     | 12                                                                                  | 15                                                                                    |  |
| 156A-9/32 x5/16  |                                                                                     | 98                                                                                     | 12                                                                                  | 15                                                                                    |  |
| 156A-11/32x3/8   |                                                                                     | 105                                                                                    | 12                                                                                  | 22                                                                                    |  |
| 156A-7/16 x1/2   |                                                                                     | 112                                                                                    | 12                                                                                  | 26                                                                                    |  |

| Stock-No.                                                                                        |  mm |  |  g |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|  156BA- 9x7 | 80                                                                                       | 12                                                                                    | 8                                                                                       |
| 156BA- 8x6                                                                                       | 80                                                                                       | 12                                                                                    | 8                                                                                       |
| 156BA- 6x4                                                                                       | 86                                                                                       | 12                                                                                    | 12                                                                                      |
| 156BA- 5x4                                                                                       | 80                                                                                       | 12                                                                                    | 8                                                                                       |
| 156BA- 5x3                                                                                       | 86                                                                                       | 12                                                                                    | 12                                                                                      |
| 156BA- 4x2                                                                                       | 98                                                                                       | 12                                                                                    | 15                                                                                      |
| 156BA- 1x0                                                                                       | 105                                                                                      | 12                                                                                    | 22                                                                                      |

## 157 Ignition Spanner Set



| Contents | 8 single open-ended spanners, 1 screwdriver, 1 contact file, 1 feeler gauge, complete on ring |
|----------|-----------------------------------------------------------------------------------------------|
| Type     | jaw set at 15°, nickel plated, polished                                                       |
| Material | sheet metal                                                                                   |

| Stock-No. | Contents                             | mm | g  |
|-----------|--------------------------------------|----|----|
| 157S 11M  | 4; 4,5; 5; 5,5; 6; 6,5; 7;<br>7,5 mm | 1  | 47 |

| Stock-No. | Contents                                            | mm | g  |
|-----------|-----------------------------------------------------|----|----|
| 157S 11AF | 3/16; 7/32; 1/4; 9/32; 5/16;<br>11/32; 3/8; 7/16 AF | 1  | 53 |

## Hook Wrenches

### 890 Hook Wrench



|             |                                |
|-------------|--------------------------------|
| Application | for nuts according to DIN 1804 |
| Type        | black finish                   |
| Material    | high grade tool steel          |
| Standard    | according to DIN 1810, form A  |

| Stock-No. | mm        | mm  | mm | g     |
|-----------|-----------|-----|----|-------|
| 890- 12   | 12 – 14   | 110 | 6  | 23    |
| 890- 16   | 16 – 20   | 110 | 6  | 23    |
| 890- 25   | 25 – 28   | 136 | 6  | 43    |
| 890- 30   | 30 – 32   | 136 | 6  | 50    |
| 890- 34   | 34 – 36   | 170 | 6  | 88    |
| 890- 40   | 40 – 42   | 170 | 6  | 88    |
| 890- 45   | 45 – 50   | 205 | 6  | 155   |
| 890- 52   | 52 – 55   | 205 | 6  | 160   |
| 890- 58   | 58 – 62   | 242 | 6  | 255   |
| 890- 68   | 68 – 75   | 242 | 6  | 255   |
| 890- 80   | 80 – 90   | 280 | 6  | 400   |
| 890- 95   | 95 – 100  | 280 | 6  | 400   |
| 890- 110  | 110 – 115 | 335 | 6  | 750   |
| 890- 120  | 120 – 130 | 335 | 6  | 750   |
| 890- 135  | 135 – 145 | 385 | 3  | 995   |
| 890- 155  | 155 – 165 | 385 | 3  | 995   |
| 890- 180  | 180 – 195 | 470 | 3  | 1505  |
| 890- 205  | 205 – 220 | 470 | 3  | 1505  |
| 890- 230  | 230 – 245 | 560 | 1  | 3600  |
| 890- 260  | 260 – 270 | 560 | 1  | 3600  |
| 890- 280  | 280 – 300 | 680 | 1  | 5000  |
| 890- 300  | 300 – 320 | 695 | 1  | 5000  |
| 890- 320  | 320 – 345 | 695 | 1  | 5800  |
| 890- 350  | 350 – 375 | 735 | 1  | 5800  |
| 890- 380  | 380 – 400 | 770 | 1  | 6700  |
| 890- 480  | 480 – 500 | 988 | 1  | 13000 |

### 891 Pin Wrench



|             |                                            |
|-------------|--------------------------------------------|
| Application | for nuts according to DIN 1816 and DIN 548 |
| Type        | black finish                               |
| Material    | high grade tool steel                      |
| Standard    | according to DIN 1810, form B              |

| Stock-No. | mm        | pin<br>mm | mm  | mm | g    |
|-----------|-----------|-----------|-----|----|------|
| 891- 12   | 12 – 14   | 2,0       | 110 | 6  | 23   |
| 891- 16   | 16 – 18   | 2,5       | 110 | 6  | 23   |
| 891- 20   | 20 – 22   | 2,5       | 110 | 6  | 22   |
| 891- 25   | 25 – 28   | 3,0       | 136 | 6  | 49   |
| 891- 30   | 30 – 32   | 4,0       | 136 | 6  | 49   |
| 891- 34   | 34 – 36   | 4,0       | 170 | 6  | 88   |
| 891- 40   | 40 – 42   | 4,0       | 170 | 6  | 88   |
| 891- 45   | 45 – 50   | 5,0       | 205 | 6  | 160  |
| 891- 52   | 52 – 55   | 5,0       | 205 | 6  | 160  |
| 891- 58   | 58 – 62   | 5,0       | 240 | 6  | 260  |
| 891- 68   | 68 – 75   | 6,0       | 240 | 6  | 260  |
| 891- 80   | 80 – 90   | 6,0       | 280 | 6  | 400  |
| 891- 95   | 95 – 100  | 6,0       | 280 | 6  | 400  |
| 891- 110  | 110 – 115 | 8,0       | 335 | 6  | 725  |
| 891- 120  | 120 – 130 | 8,0       | 335 | 6  | 725  |
| 891- 135  | 135 – 145 | 8,0       | 380 | 3  | 1005 |
| 891- 155  | 155 – 165 | 8,0       | 390 | 3  | 1005 |
| 891- 180  | 180 – 195 | 10,0      | 470 | 3  | 1500 |
| 891- 205  | 205 – 220 | 10,0      | 470 | 3  | 1500 |
| 891- 230  | 230 – 245 | 10,0      | 570 | 1  | 2190 |
| 891- 260  | 260 – 270 | 10,0      | 570 | 1  | 2190 |

## Open-Ended Spanners

### 894 Single Open-Ended Spanner



|          |                               |
|----------|-------------------------------|
| Type     | jaw set at 15°, black finish  |
| Material | high grade tool steel         |
| Standard | according to DIN 894/ISO 3318 |

| Stock-No. | mm   | mm | g    |
|-----------|------|----|------|
| 894- 5,5  | 75   | 10 | 8    |
| 894- 6    | 75   | 10 | 8    |
| 894- 7    | 80   | 10 | 10   |
| 894- 8    | 95   | 10 | 16   |
| 894- 9    | 100  | 10 | 20   |
| 894- 10   | 105  | 10 | 21   |
| 894- 11   | 115  | 10 | 27   |
| 894- 12   | 125  | 10 | 30   |
| 894- 13   | 130  | 10 | 36   |
| 894- 14   | 140  | 10 | 42   |
| 894- 15   | 145  | 10 | 42   |
| 894- 16   | 160  | 10 | 65   |
| 894- 17   | 160  | 10 | 62   |
| 894- 18   | 170  | 10 | 78   |
| 894- 19   | 170  | 10 | 84   |
| 894- 21   | 195  | 10 | 115  |
| 894- 22   | 195  | 10 | 102  |
| 894- 24   | 215  | 10 | 185  |
| 894- 27   | 240  | 10 | 190  |
| 894- 28   | 240  | 10 | 190  |
| 894- 30   | 250  | 10 | 300  |
| 894- 32   | 260  | 10 | 316  |
| 894- 34   | 260  | 10 | 350  |
| 894- 36   | 300  | 5  | 435  |
| 894- 38   | 300  | 5  | 440  |
| 894- 41   | 340  | 5  | 580  |
| 894- 46   | 380  | 1  | 770  |
| 894- 50   | 410  | 1  | 1000 |
| 894- 55   | 460  | 1  | 1300 |
| 894- 60   | 490  | 1  | 1600 |
| 894- 65   | 530  | 1  | 1850 |
| 894- 70   | 575  | 1  | 2160 |
| 894- 75   | 610  | 1  | 2800 |
| 894- 80   | 645  | 1  | 2900 |
| 894- 85   | 690  | 1  | 3900 |
| 894- 90   | 690  | 1  | 3750 |
| 894- 95   | 845  | 1  | 5450 |
| 894- 100  | 850  | 1  | 5500 |
| 894- 105  | 1000 | 1  | 7650 |
| 894- 110  | 1000 | 1  | 7600 |
| 894- 115  | 1000 | 1  | 7050 |
| 894- 120  | 1000 | 1  | 7300 |
| 894- 125  | 1000 | 1  | 7200 |
| 894- 130  | 1000 | 1  | 7600 |
| 894- 135  | 1000 | 1  | 7350 |

### 892 Adjustable Face Pin Spanner



|             |                                                                                                  |
|-------------|--------------------------------------------------------------------------------------------------|
| Application | for servicing seal and packing nuts used on hydraulic cylinders or other industrial applications |
| Type        | black finish                                                                                     |
| Material    | special steel                                                                                    |
| Standard    | similar to DIN 3116                                                                              |

| Stock-No. | pin<br>Ø<br>mm | pin<br>depth<br>mm | mm  |  | <br>g |
|-----------|----------------|--------------------|-----|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 892- 3    | 3              | 4                  | 160 | 5                                                                                   | 115                                                                                      |
| 892- 4    | 4              | 5                  | 160 | 5                                                                                   | 120                                                                                      |
| 892- 5    | 5              | 6                  | 215 | 5                                                                                   | 295                                                                                      |
| 892- 6    | 6              | 7                  | 215 | 5                                                                                   | 300                                                                                      |
| 892- 8    | 8              | 8                  | 215 | 5                                                                                   | 305                                                                                      |



## 895 Double Open-Ended Spanner



|          |                                        |
|----------|----------------------------------------|
| Type     | jaws set at 15°, black finish          |
| Material | high grade tool steel                  |
| Standard | according to DIN 895/ISO 3318/ISO 1085 |

| Stock-No.  | mm  | mm | g    |
|------------|-----|----|------|
| 895- 6x 7  | 95  | 10 | 15   |
| 895- 7x 8  | 110 | 10 | 16   |
| 895- 7x 9  | 120 | 10 | 28   |
| 895- 8x 9  | 110 | 10 | 22   |
| 895- 8x10  | 115 | 10 | 25   |
| 895- 9x10  | 120 | 10 | 20   |
| 895- 9x11  | 125 | 10 | 30   |
| 895- 9x12  | 125 | 10 | 30   |
| 895- 10x11 | 125 | 10 | 30   |
| 895- 10x12 | 125 | 10 | 32   |
| 895- 10x13 | 130 | 10 | 42   |
| 895- 11x12 | 125 | 10 | 32   |
| 895- 12x13 | 140 | 10 | 50   |
| 895- 10x14 | 140 | 10 | 58   |
| 895- 12x14 | 140 | 10 | 48   |
| 895- 13x14 | 140 | 10 | 48   |
| 895- 13x15 | 140 | 10 | 52   |
| 895- 14x15 | 140 | 10 | 54   |
| 895- 13x16 | 155 | 10 | 66   |
| 895- 13x17 | 155 | 10 | 64   |
| 895- 14x16 | 140 | 10 | 54   |
| 895- 14x17 | 160 | 10 | 64   |
| 895- 16x17 | 160 | 10 | 72   |
| 895- 16x18 | 160 | 10 | 88   |
| 895- 17x19 | 170 | 10 | 100  |
| 895- 17x21 | 190 | 10 | 118  |
| 895- 17x22 | 190 | 10 | 118  |
| 895- 18x21 | 190 | 10 | 120  |
| 895- 19x21 | 190 | 10 | 120  |
| 895- 19x22 | 195 | 10 | 145  |
| 895- 19x24 | 215 | 10 | 170  |
| 895- 21x23 | 215 | 10 | 150  |
| 895- 22x24 | 220 | 10 | 200  |
| 895- 22x27 | 235 | 10 | 230  |
| 895- 24x27 | 245 | 10 | 250  |
| 895- 24x30 | 265 | 10 | 320  |
| 895- 27x30 | 265 | 10 | 360  |
| 895- 27x32 | 265 | 10 | 400  |
| 895- 30x32 | 265 | 10 | 405  |
| 895- 30x34 | 270 | 10 | 405  |
| 895- 30x36 | 305 | 5  | 475  |
| 895- 32x36 | 305 | 5  | 525  |
| 895- 36x41 | 345 | 5  | 725  |
| 895- 41x46 | 380 | 1  | 975  |
| 895- 46x50 | 415 | 1  | 1215 |
| 895- 50x55 | 460 | 1  | 1705 |
| 895- 55x60 | 480 | 1  | 1935 |
| 895- 65x70 | 580 | 1  | 2700 |
| 895- 75x80 | 665 | 1  | 4000 |

## Combination Spanners

### 205 Combination Spanner



|          |                                                                                                                                                                     |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type     | long series, both ends fit same nut size, jaw and ring end set at 15°, chrome plated, size 5 and 5,5 mm only hexagon; up to 34 mm, 1.1/4" AF, 3/4" WW: jaw polished |
| Material | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                                                                           |
| Standard | according to DIN 3113, form B/ISO 3318                                                                                                                              |

| Stock-No. | mm  | mm | g    |
|-----------|-----|----|------|
| 205- 5    | 125 | 12 | 20   |
| 205- 5,5  | 125 | 12 | 20   |
| 205- 6    | 130 | 12 | 20   |
| 205- 7    | 130 | 12 | 22   |
| 205- 8    | 140 | 12 | 30   |
| 205- 9    | 150 | 12 | 40   |
| 205- 10   | 150 | 12 | 40   |
| 205- 11   | 160 | 12 | 60   |
| 205- 12   | 180 | 6  | 75   |
| 205- 13   | 180 | 6  | 75   |
| 205- 14   | 195 | 6  | 88   |
| 205- 15   | 215 | 6  | 120  |
| 205- 16   | 215 | 6  | 120  |
| 205- 17   | 235 | 6  | 150  |
| 205- 18   | 245 | 6  | 160  |
| 205- 19   | 255 | 6  | 190  |
| 205- 20   | 270 | 6  | 220  |
| 205- 21   | 270 | 6  | 220  |
| 205- 22   | 295 | 6  | 290  |
| 205- 23   | 320 | 3  | 325  |
| 205- 24   | 320 | 3  | 325  |
| 205- 25   | 345 | 3  | 390  |
| 205- 26   | 345 | 3  | 390  |
| 205- 27   | 370 | 3  | 510  |
| 205- 28   | 370 | 3  | 510  |
| 205- 29   | 390 | 3  | 605  |
| 205- 30   | 390 | 3  | 605  |
| 205- 32   | 420 | 3  | 770  |
| 205- 33   | 420 | 3  | 770  |
| 205- 34   | 420 | 3  | 770  |
| 205- 36   | 460 | 3  | 950  |
| 205- 38   | 460 | 3  | 950  |
| 205- 41   | 510 | 3  | 1350 |
| 205- 46   | 520 | 1  | 1750 |
| 205- 50   | 560 | 1  | 2225 |
| 205- 55   | 570 | 1  | 2640 |
| 205- 60   | 570 | 1  | 2640 |
| 205- 65   | 570 | 1  | 2640 |
| 205- 70   | 760 | 1  | 5600 |
| 205- 75   | 810 | 1  | 6600 |
| 205- 80   | 850 | 1  | 8100 |

| Stock-No.  | mm  | mm | g   |
|------------|-----|----|-----|
| 205W- 1/8  | 150 | 12 | 40  |
| 205W- 3/16 | 160 | 12 | 60  |
| 205W- 1/4  | 180 | 6  | 72  |
| 205W- 5/16 | 215 | 6  | 120 |
| 205W- 3/8  | 255 | 6  | 175 |
| 205W- 7/16 | 270 | 6  | 220 |
| 205W- 1/2  | 320 | 3  | 325 |
| 205W- 9/16 | 345 | 3  | 390 |
| 205W- 5/8  | 370 | 3  | 510 |

| Stock-No.     | mm  | mm | g    |
|---------------|-----|----|------|
| 205A- 1/4     | 130 | 12 | 20   |
| 205A- 5/16    | 140 | 12 | 30   |
| 205A- 11/32   | 150 | 12 | 40   |
| 205A- 3/8     | 150 | 12 | 40   |
| 205A- 7/16    | 160 | 12 | 60   |
| 205A- 1/2     | 180 | 6  | 72   |
| 205A- 9/16    | 195 | 6  | 88   |
| 205A- 19/32   | 215 | 6  | 120  |
| 205A- 5/8     | 215 | 6  | 120  |
| 205A- 11/16   | 235 | 6  | 150  |
| 205A- 3/4     | 255 | 6  | 175  |
| 205A- 13/16   | 270 | 6  | 220  |
| 205A- 7/8     | 295 | 6  | 290  |
| 205A- 15/16   | 320 | 3  | 325  |
| 205A- 1       | 345 | 3  | 390  |
| 205A- 1.1/16  | 370 | 3  | 510  |
| 205A- 1.1/8   | 370 | 3  | 510  |
| 205A- 1.3/16  | 390 | 3  | 605  |
| 205A- 1.1/4   | 420 | 3  | 770  |
| 205A- 1.5/16  | 420 | 3  | 770  |
| 205A- 1.3/8   | 460 | 3  | 950  |
| 205A- 1.7/16  | 460 | 3  | 950  |
| 205A- 1.1/2   | 460 | 3  | 950  |
| 205A- 1.5/8   | 510 | 3  | 1350 |
| 205A- 1.11/16 | 510 | 3  | 1340 |
| 205A- 1.3/4   | 520 | 1  | 1750 |
| 205A- 1.13/16 | 520 | 1  | 1750 |
| 205A- 1.7/8   | 520 | 1  | 1750 |
| 205A- 2       | 560 | 1  | 2200 |
| 205A- 2.1/16  | 560 | 1  | 2200 |
| 205A- 2.1/8   | 570 | 1  | 2900 |
| 205A- 2.3/16  | 570 | 1  | 2900 |
| 205A- 2.1/4   | 570 | 1  | 2900 |
| 205A- 2.3/8   | 660 | 1  | 3900 |
| 205A- 2.9/16  | 750 | 1  | 4700 |
| 205A- 2.3/4   | 760 | 1  | 5600 |
| 205A- 3       | 810 | 1  | 6600 |
| 205A- 3.1/8   | 850 | 1  | 8100 |
| 205A- 3.1/4   | 960 | 1  | 7500 |

| Stock-No.   | mm  | mm | g    |
|-------------|-----|----|------|
| 205W- 11/16 | 390 | 3  | 605  |
| 205W- 3/4   | 420 | 3  | 770  |
| 205W- 13/16 | 460 | 3  | 950  |
| 205W- 7/8   | 460 | 3  | 950  |
| 205W- 15/16 | 510 | 3  | 1350 |
| 205W- 1     | 510 | 3  | 1340 |
| 205W- 1.1/8 | 520 | 1  | 1750 |
| 205W- 1.1/4 | 560 | 1  | 2200 |

## 205S Combination Spanner Set



| Type      | in two-colour carton box                                                                              |      |
|-----------|-------------------------------------------------------------------------------------------------------|------|
| Stock-No. | Contents                                                                                              |      |
|           | mm                                                                                                    | g    |
| 205S 8M   | 8; 10; 11; 13; 14; 17; 19; 22 mm                                                                      | 920  |
| 205S 10M  | 6; 7; 8; 9; 10; 11; 13; 14; 17; 19 mm                                                                 | 775  |
| 205S 12M  | 6; 7; 8; 9; 10; 11; 13; 14; 16; 17; 19; 22 mm                                                         | 1300 |
| 205S 16M  | 6; 7; 8; 9; 10; 11; 12; 13; 14; 17; 19; 22; 24; 27; 30; 32 mm                                         | 3300 |
| 205S 17M  | 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm                                     | 1617 |
| 205S 18M  | 8; 9; 10; 11; 12; 13; 14; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32; 34 mm                               | 4600 |
| 205S 25M  | 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 mm     | 6020 |
| 205S 26M  | 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 29; 30; 32 mm | 6625 |

| Stock-No. | Contents                                                                                        |      |
|-----------|-------------------------------------------------------------------------------------------------|------|
|           | AF                                                                                              | g    |
| 205S 8AF  | 5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4 AF                                                  | 810  |
| 205S 11AF | 1/4; 5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8 AF                                 | 1300 |
| 205S 12AF | 5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8; 15/16; 1 AF                            | 2060 |
| 205S 16AF | 1/4; 5/16; 3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 13/16; 7/8; 15/16; 1; 1.1/16; 1.1/4 AF | 3410 |

| Stock-No. | Contents                                                       |      |
|-----------|----------------------------------------------------------------|------|
|           | WW                                                             | g    |
| 205S 6W   | 3/16; 1/4; 5/16; 3/8; 7/16; 1/2 WW                             | 980  |
| 205S 8W   | 3/16; 1/4; 5/16; 3/8; 7/16; 1/2; 5/8; 3/4 WW                   | 2340 |
| 205S 11W  | 1/8; 3/16; 1/4; 5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4 WW | 3287 |

## 205SB Combination Spanner Set



| Type        | in black plastic wallet                                                |      |
|-------------|------------------------------------------------------------------------|------|
| Stock-No.   | Contents                                                               |      |
|             | mm                                                                     | g    |
| 205S 8MSB   | 8; 10; 11; 13; 14; 17; 19; 22 mm                                       | 1000 |
| 205S 12MSB  | 6; 7; 8; 9; 10; 11; 13; 14; 16; 17; 19; 22 mm                          | 1250 |
| Stock-No.   | Contents                                                               |      |
|             | AF                                                                     | g    |
| 205S 8AFSB  | 5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4 AF                         | 850  |
| 205S 12AFSB | 1/4; 5/16; 3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 13/16; 7/8 AF | 1570 |

## MS-2 Module



| Application | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |   |     |
|-------------|------------------------------------------------------------------------------------------------------|---|-----|
| Type        | Black, with transparent cover                                                                        |   |     |
| Material    | ABS                                                                                                  |   |     |
| Stock-No.   | Contents                                                                                             |   |     |
|             |                                                                                                      | g |     |
| MS-2        | Combination spanners                                                                                 | 1 | 960 |
| 205M-       | 8; 10; 11; 13; 14; 17; 19; 22 mm                                                                     |   |     |

## 202 Combination Spanner



| Type     | extra short series, both ends fit same nut size, jaw and ring end set at 15°, chrome plated, polished, up to 5 mm, 3/16" AF and 6 BA = hexagon, all others = bi-hexagon |  |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Material | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                                                                               |  |

| Stock-No. | mm  | g  |
|-----------|-----|----|
| 202- 4    | 80  | 12 |
| 202- 4,5  | 80  | 12 |
| 202- 5    | 80  | 12 |
| 202- 5,5  | 90  | 12 |
| 202- 6    | 90  | 12 |
| 202- 7    | 100 | 12 |
| 202- 8    | 100 | 12 |
| 202- 9    | 110 | 12 |
| 202-10    | 110 | 12 |

| Stock-No.  | mm  | g  |
|------------|-----|----|
| 202A- 3/16 | 80  | 12 |
| 202A- 1/4  | 90  | 12 |
| 202A- 5/16 | 100 | 12 |
| 202A- 3/8  | 110 | 12 |

| Stock-No. | mm  | g  |
|-----------|-----|----|
| 202BA-6   | 80  | 12 |
| 202BA-4   | 90  | 12 |
| 202BA-2   | 100 | 12 |
| 202BA-0   | 110 | 12 |

## 202S Combination Spanner Set



| Type      | in black plastic wallet        |  |     |
|-----------|--------------------------------|--|-----|
| Stock-No. | Contents                       |  |     |
|           | mm                             |  | g   |
| 202S 6M   | 5; 5,5; 6; 7; 8; 10 mm         |  | 125 |
| 202S 8M   | 4; 4,5; 5; 5,5; 6; 7; 8; 10 mm |  | 150 |
| Stock-No. | Contents                       |  |     |
|           | AF                             |  | g   |
| 202S 4AF  | 3/16; 1/4; 5/16; 3/8 AF        |  | 78  |
| Stock-No. | Contents                       |  |     |
|           | BA                             |  | g   |
| 202S 4BA  | 6; 4; 2; 0 BA                  |  | 85  |

## 203 Combination Spanner



| Type     | both ends fit same nut size, jaw and ring end set at 15°, chrome plated |  |  |
|----------|-------------------------------------------------------------------------|--|--|
| Material | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                               |  |  |
| Standard | according to DIN 3113, form A/ISO 3318                                  |  |  |

| Stock-No. | mm  |    | g   |
|-----------|-----|----|-----|
| 203- 6    | 103 | 12 | 15  |
| 203- 7    | 108 | 12 | 15  |
| 203- 8    | 113 | 12 | 22  |
| 203- 9    | 123 | 12 | 26  |
| 203- 10   | 133 | 12 | 33  |
| 203- 11   | 142 | 12 | 40  |
| 203- 12   | 156 | 12 | 56  |
| 203- 13   | 163 | 12 | 57  |
| 203- 14   | 172 | 12 | 70  |
| 203- 15   | 187 | 12 | 70  |
| 203- 16   | 197 | 6  | 90  |
| 203- 17   | 209 | 6  | 90  |
| 203- 18   | 221 | 6  | 130 |
| 203- 19   | 227 | 6  | 130 |
| 203- 20   | 231 | 6  | 175 |
| 203- 21   | 231 | 6  | 170 |
| 203- 22   | 245 | 6  | 170 |
| 203- 23   | 271 | 3  | 245 |
| 203- 24   | 271 | 3  | 250 |
| 203- 25   | 290 | 3  | 320 |
| 203- 26   | 290 | 3  | 320 |
| 203- 27   | 317 | 3  | 400 |
| 203- 28   | 317 | 3  | 400 |
| 203- 29   | 340 | 3  | 455 |
| 203- 30   | 341 | 3  | 510 |
| 203- 32   | 363 | 3  | 600 |
| 203- 34   | 390 | 3  | 720 |

## 203 Combination Spanner

| Stock-No.    | mm  |    | g   |
|--------------|-----|----|-----|
| 203A- 1/4    | 103 | 12 | 15  |
| 203A- 5/16   | 113 | 12 | 22  |
| 203A- 3/8    | 133 | 12 | 33  |
| 203A- 7/16   | 142 | 12 | 40  |
| 203A- 1/2    | 156 | 12 | 52  |
| 203A- 9/16   | 172 | 12 | 70  |
| 203A- 5/8    | 197 | 6  | 90  |
| 203A- 11/16  | 197 | 6  | 90  |
| 203A- 3/4    | 227 | 6  | 130 |
| 203A- 13/16  | 231 | 6  | 175 |
| 203A- 7/8    | 245 | 6  | 170 |
| 203A- 15/16  | 271 | 3  | 250 |
| 203A- 1      | 290 | 3  | 320 |
| 203A- 1.1/16 | 317 | 3  | 400 |
| 203A- 1.1/8  | 317 | 3  | 395 |
| 203A- 1.3/16 | 341 | 3  | 510 |
| 203A- 1.1/4  | 363 | 3  | 600 |

## 203S Combination Spanner Set



| Type      | in two-colour carton box                                                                              |  |      |
|-----------|-------------------------------------------------------------------------------------------------------|--|------|
| Stock-No. | Contents                                                                                              |  | g    |
|           | mm                                                                                                    |  |      |
| 203S 8M   | 8; 10; 11; 13; 14; 17; 19; 22 mm                                                                      |  | 610  |
| 203S 10M  | 6; 7; 8; 9; 10; 11; 13; 14; 17; 19 mm                                                                 |  | 520  |
| 203S 12M  | 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 19; 22 mm                                                       |  | 860  |
| 203S 16M  | 6; 7; 8; 9; 10; 11; 12; 13; 14; 17; 19; 22; 24; 27; 30; 32 mm                                         |  | 2470 |
| 203S 17M  | 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22mm                                      |  | 1380 |
| 203S 18M  | 8; 9; 10; 11; 12; 13; 14; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32; 34 mm                               |  | 4600 |
| 203S 25M  | 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 mm     |  | 6020 |
| 203S 26M  | 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 29; 30; 32 mm |  | 4840 |
| Stock-No. | Contents                                                                                              |  | g    |
|           | AF                                                                                                    |  |      |
| 203S 8AF  | 5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4 AF                                                        |  | 480  |
| 203S 10AF | 1/4; 5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 7/8 AF                                              |  | 800  |
| 203S 12AF | 5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8; 15/16; 1 AF                                  |  | 2060 |
| 203S 16AF | 1/4; 5/16; 3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 13/16; 7/8; 15/16; 1; 1.1/16; 1.1/4 AF       |  | 3410 |

## 203SB Combination Spanner Set



|                   |                                                          |     |  |
|-------------------|----------------------------------------------------------|-----|--|
| Type              | in black plastic wallet                                  |     |  |
| Stock-No.         | Contents                                                 |     |  |
|                   |                                                          |     |  |
| <b>203S 8MSB</b>  | 8; 10; 11; 13; 14; 17; 19; 22 mm                         | 670 |  |
| <b>203S 12MSB</b> | 6; 7; 8; 9; 10; 11; 12; 13; 14; 17; 19; 22 mm            | 800 |  |
| Stock-No.         | Contents                                                 |     |  |
|                   |                                                          |     |  |
| <b>203S 8ASB</b>  | 5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4 AF           | 600 |  |
| <b>203S 10ASB</b> | 1/4; 5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 7/8 AF | 800 |  |

## 204 Combination Spanner with Ring Ratchet



|                |                                                 |   |     |
|----------------|-------------------------------------------------|---|-----|
| Application    | in confined areas                               |   |     |
| Type           | chrome plated, fine tooth ratchet with 72 teeth |   |     |
| Material       | chrome plated                                   |   |     |
| Stock-No.      |                                                 |   |     |
| <b>204- 8</b>  | 140                                             | 6 | 30  |
| <b>204- 9</b>  | 150                                             | 6 | 40  |
| <b>204- 10</b> | 160                                             | 6 | 43  |
| <b>204- 11</b> | 165                                             | 6 | 55  |
| <b>204- 12</b> | 172                                             | 6 | 63  |
| <b>204- 13</b> | 177                                             | 6 | 73  |
| <b>204- 14</b> | 191                                             | 6 | 92  |
| <b>204- 15</b> | 200                                             | 6 | 108 |
| <b>204- 16</b> | 208                                             | 6 | 119 |
| <b>204- 17</b> | 225                                             | 6 | 147 |
| <b>204- 18</b> | 236                                             | 6 | 171 |
| <b>204- 19</b> | 248                                             | 6 | 193 |
| <b>204- 22</b> | 280                                             | 6 | 380 |
| <b>204- 24</b> | 310                                             | 6 | 540 |

## MS-6 Module

**New!**



|             |                                                                                                      |   |     |
|-------------|------------------------------------------------------------------------------------------------------|---|-----|
| Application | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |   |     |
| Type        | Black, with transparent cover                                                                        |   |     |
| Material    | ABS                                                                                                  |   |     |
| Stock-No.   | Contents                                                                                             |   |     |
| <b>MS-6</b> | <b>Combination spanners</b><br>203- 8; 10; 11; 13; 17; 19; 22; 24 mm                                 | 1 | 980 |

## MS-10 Module

**New!**



|              |                                                                                                      |   |     |
|--------------|------------------------------------------------------------------------------------------------------|---|-----|
| Application  | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |   |     |
| Type         | Black, with transparent cover                                                                        |   |     |
| Material     | ABS                                                                                                  |   |     |
| Stock-No.    | Contents                                                                                             |   |     |
| <b>MS-10</b> | <b>Combination spanners with Ring Ratchet</b><br>204- 8; 9; 10; 12; 13; 14; 17; 19 mm                | 1 | 800 |



## Double-Ended Ring Spanners

### 110 Double-Ended Ring Spanner



|          |                                           |
|----------|-------------------------------------------|
| Type     | deep cranked, chrome plated               |
| Material | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |
| Standard | according to DIN 838/ISO 3318             |

| Stock-No.    | mm  |    | g    |
|--------------|-----|----|------|
| 110- 5,5 x 7 | 175 | 12 | 42   |
| 110- 6 x 7   | 175 | 12 | 42   |
| 110- 6 x 8   | 175 | 12 | 50   |
| 110- 7 x 8   | 185 | 12 | 60   |
| 110- 7 x 9   | 185 | 12 | 60   |
| 110- 8 x 9   | 185 | 12 | 60   |
| 110- 8 x 10  | 185 | 12 | 60   |
| 110- 9 x 11  | 200 | 12 | 86   |
| 110- 10 x 11 | 200 | 12 | 86   |
| 110- 10 x 12 | 200 | 12 | 86   |
| 110- 10 x 13 | 215 | 12 | 122  |
| 110- 11 x 13 | 215 | 12 | 122  |
| 110- 11 x 14 | 215 | 12 | 109  |
| 110- 12 x 13 | 215 | 12 | 122  |
| 110- 12 x 14 | 215 | 12 | 122  |
| 110- 13 x 14 | 230 | 12 | 150  |
| 110- 13 x 15 | 230 | 12 | 150  |
| 110- 14 x 15 | 230 | 12 | 150  |
| 110- 13 x 16 | 230 | 12 | 150  |
| 110- 13 x 17 | 245 | 12 | 185  |
| 110- 14 x 17 | 245 | 12 | 185  |
| 110- 16 x 17 | 250 | 12 | 210  |
| 110- 16 x 18 | 250 | 12 | 210  |
| 110- 17 x 19 | 265 | 6  | 260  |
| 110- 18 x 19 | 265 | 6  | 260  |
| 110- 18 x 21 | 290 | 6  | 335  |
| 110- 19 x 22 | 290 | 6  | 335  |
| 110- 19 x 24 | 290 | 6  | 335  |
| 110- 20 x 22 | 295 | 6  | 350  |
| 110- 21 x 22 | 310 | 6  | 430  |
| 110- 21 x 23 | 310 | 6  | 430  |
| 110- 21 x 24 | 330 | 3  | 465  |
| 110- 22 x 24 | 330 | 3  | 465  |
| 110- 24 x 26 | 330 | 3  | 460  |
| 110- 24 x 27 | 330 | 3  | 460  |
| 110- 24 x 30 | 350 | 3  | 500  |
| 110- 25 x 28 | 350 | 3  | 500  |
| 110- 27 x 29 | 370 | 3  | 630  |
| 110- 27 x 30 | 370 | 3  | 635  |
| 110- 27 x 32 | 375 | 3  | 670  |
| 110- 30 x 32 | 375 | 3  | 670  |
| 110- 30 x 34 | 375 | 3  | 670  |
| 110- 32 x 34 | 400 | 3  | 870  |
| 110- 30 x 36 | 400 | 3  | 870  |
| 110- 32 x 36 | 400 | 3  | 870  |
| 110- 34 x 36 | 400 | 3  | 870  |
| 110- 36 x 41 | 455 | 3  | 1125 |
| 110- 38 x 42 | 455 | 3  | 1050 |
| 110- 41 x 46 | 500 | 1  | 1445 |
| 110- 46 x 50 | 520 | 1  | 1700 |
| 110- 55 x 60 | 620 | 1  | 3455 |
| 110- 65 x 70 | 700 | 1  | 4850 |
| 110- 75 x 80 | 785 | 1  | 7350 |

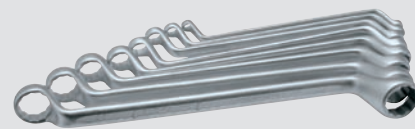
| Stock-No.           | mm  |    | g    |
|---------------------|-----|----|------|
| 110A-1/4 x5/16      | 175 | 12 | 42   |
| 110A-5/16 x3/8      | 185 | 12 | 60   |
| 110A-3/8 x7/16      | 200 | 12 | 86   |
| 110A-7/16 x1/2      | 215 | 12 | 122  |
| 110A-1/2 x9/16      | 230 | 12 | 150  |
| 110A-1/2 x19/32     | 230 | 12 | 150  |
| 110A-9/16 x5/8      | 230 | 12 | 150  |
| 110A-5/8 x11/16     | 250 | 12 | 210  |
| 110A-5/8 x3/4       | 265 | 6  | 260  |
| 110A-11/16 x3/4     | 265 | 6  | 260  |
| 110A-3/4 x25/32     | 275 | 6  | 335  |
| 110A-13/16 x7/8     | 295 | 6  | 350  |
| 110A-7/8 x15/16     | 330 | 3  | 465  |
| 110A-15/16 x1       | 330 | 3  | 465  |
| 110A-1 x1.1/8       | 350 | 3  | 500  |
| 110A-1.1/16 x1.1/8  | 370 | 3  | 635  |
| 110A-1.1/16 x1.1/4  | 375 | 3  | 670  |
| 110A-1.3/16 x1.5/16 | 375 | 3  | 670  |
| 110A-1.1/4 x1.7/16  | 405 | 3  | 870  |
| 110A-1.5/16 x1.3/8  | 405 | 3  | 870  |
| 110A-1.5/16 x1.1/2  | 405 | 3  | 870  |
| 110A-1.3/8 x1.1/2   | 450 | 3  | 1125 |
| 110A-1.7/16 x1.5/8  | 450 | 3  | 1125 |
| 110A-1.11/16 x1.7/8 | 500 | 1  | 1445 |
| 110A-1.13/16 x2     | 520 | 1  | 1700 |
| 110A-1.7/8 x2       | 520 | 1  | 1700 |
| 110A-1.7/8 x2.1/16  | 620 | 1  | 1700 |
| 110A-2.3/16 x2.3/8  | 620 | 1  | 3455 |
| 110A-2.1/4 x2.7/16  | 620 | 1  | 3455 |
| 110A-2.9/16 x2.3/4  | 700 | 1  | 4850 |
| 110A-2.5/8 x2.13/16 | 700 | 1  | 4850 |
| 110A-3 x3.1/8       | 785 | 1  | 7350 |

### MS-3 Module



|             |                                                                                                              |                                                                                     |                                                                                     |
|-------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Application | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220         |                                                                                     |                                                                                     |
| Type        | Black, with transparent cover                                                                                |                                                                                     |                                                                                     |
| Material    | ABS                                                                                                          |                                                                                     |                                                                                     |
| Stock-No.   | Contents                                                                                                     |  |  |
|             |  mm                       | g                                                                                   |                                                                                     |
| MS-3        | Double-ended ring spanners, deep cranked<br>110- 6×7; 8×9; 10×11;<br>12×13; 14×15; 16×17;<br>18×19; 21×22 mm | 1                                                                                   | 1340                                                                                |

### 110S Double-Ended Ring Spanner Set



| Type        | in two-colour carton box                                                                           |                                                                                          |
|-------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Stock-No.   | Contents<br> mm | <br>g |
| 110S 6M     | 8×9; 10×11; 12×13; 14×15; 16×17;<br>18×19 mm                                                       | 950                                                                                      |
| 110S 8M     | 6×7; 8×9; 10×11; 12×13; 14×15;<br>16×17; 18×19; 20×22 mm                                           | 1300                                                                                     |
| 110S 8DIN   | 6×7; 8×9; 10×11; 12×13; 14×15;<br>16×17; 18×19; 21×22 mm                                           | 1300                                                                                     |
| 110S 10M    | 6×7; 8×9; 10×11; 12×13; 14×15;<br>16×17; 18×19; 20×22; 21×23;<br>24×27 mm                          | 2200                                                                                     |
| 110S 101M   | 6×7; 8×9; 10×11; 12×13; 14×15;<br>16×17; 18×19; 20×22; 24×27;<br>30×32 mm                          | 2520                                                                                     |
| 110S 101DIN | 6×7; 8×9; 10×11; 12×13; 14×15;<br>16×17; 18×19; 21×22; 24×26;<br>30×34 mm                          | 2650                                                                                     |
| 110S 12M    | 6×7; 8×9; 10×11; 12×13; 14×15;<br>16×17; 18×19; 20×22; 21×23;<br>24×27; 25×28; 30×32 mm            | 3600                                                                                     |
| 110S 12DIN  | 6×7; 8×9; 10×11; 12×13; 14×15;<br>16×17; 18×19; 20×22; 21×23;<br>24×26; 27×32; 30×34 mm            | 3630                                                                                     |

| Stock-No. | Contents                                                                                                                                                                                  | g    |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 110S 61AF | 1/4x5/16; 3/8x7/16; 1/2x9/16;<br>5/8x11/16; 3/4x25/32;<br>13/16x7/8 AF                                                                                                                    | 1100 |
| 110S 62AF | 3/8x7/16; 1/2x9/16; 5/8x11/16;<br>3/4x25/32; 13/16x7/8; 15/16x1 AF                                                                                                                        | 1480 |
| 110S 8AF  | 1/4x5/16; 3/8x7/16; 1/2x9/16;<br>5/8x11/16; 3/4x25/32; 13/16x7/8;<br>15/16x1; 1.1/16x1.1/4 AF                                                                                             | 2280 |
| 110S 12AF | 1/4x5/16; 5/16x3/8; 3/8x7/16;<br>7/16x1/2; 1/2x9/16; 9/16x5/8;<br>5/8x11/16; 3/4x25/32; 13/16x7/8;<br>15/16x1; 1x1.1/8; 1.1/16x1.1/4 AF                                                   | 3250 |
| 110S 14AF | 1/4x5/16; 3/8x7/16; 1/2x9/16;<br>5/8x11/16; 3/4x25/32; 13/16x7/8;<br>15/16x1; 1.1/16x1.1/4;<br>1.1/16x1.1/8; 1.3/16x1.5/16;<br>1.1/4x1.7/16; 1.7/16x1.5/8;<br>1.11/16x1.7/8; 1.13/16x2 AF | 8600 |

### 110SB Double-Ended Ring Spanner Set



| Type        | in black plastic wallet                                  |                                                                                            |
|-------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Stock-No.   | Contents                                                 | <br>g |
| 110S 6MSB   | 6×7; 8×9; 10×11; 12×13;<br>14×15; 16×17 mm               | 800                                                                                        |
| 110S 8MSB   | 6×7; 8×9; 10×11; 12×13;<br>14×15; 16×17; 18×19; 20×22 mm | 1385                                                                                       |
| 110S 8SBDIN | 6×7; 8×9; 10×11; 12×13;<br>14×15; 16×17; 18×19; 21×22 mm | 1385                                                                                       |

| Stock-No.  | Contents                                                                                  | <br>g |
|------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 110S 6AFSB | 1/4×5/16; 3/8×7/16; 1/2×9/16;<br>5/8×11/16; 3/4×25/32;<br>13/16×7/8 AF                    | 1200                                                                                       |
| 110S 8AFSB | 1/4×5/16; 3/8×7/16; 7/16×1/2;<br>1/2×9/16; 5/8×11/16; 3/4×25/32;<br>13/16×7/8; 15/16×1 AF | 1800                                                                                       |

## 112 Double-Ended Ring Spanner



|          |                                                     |
|----------|-----------------------------------------------------|
| Type     | short series, deep cranked, chrome plated, polished |
| Material | Chrome-Vanadium 31 CrV 3, Code-No. 1.2208           |

| Stock-No.  | mm  | mm | g   |
|------------|-----|----|-----|
| 112- 8x 9  | 100 | 12 | 28  |
| 112- 10x11 | 116 | 12 | 42  |
| 112- 12x13 | 136 | 12 | 56  |
| 112- 14x15 | 156 | 12 | 85  |
| 112- 16x17 | 180 | 12 | 115 |

| Stock-No.       | mm  | mm | g   |
|-----------------|-----|----|-----|
| 112A- 3/8 x7/16 | 116 | 12 | 42  |
| 112A- 7/16 x1/2 | 136 | 12 | 56  |
| 112A- 1/2 x9/16 | 156 | 12 | 85  |
| 112A- 9/16x5/8  | 180 | 12 | 115 |
| 112A- 5/8 x3/4  | 181 | 12 | 136 |

## 113 Double-Ended Ring Spanner



|          |                                                                                                                                              |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Type     | extra short series, deep cranked, 4x4,5 mm, 3/16x13/64 to 7/32x15/64 AF and 6x4 BA = hexagon, all others bi-hexagon, chrome plated, polished |
| Material | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                                                    |

| Stock-No.   | mm  | mm | g  |
|-------------|-----|----|----|
| 113- 4x 4,5 | 75  | 12 | 10 |
| 113- 5x 5,5 | 75  | 12 | 10 |
| 113- 6x 7   | 86  | 12 | 18 |
| 113- 8x 9   | 95  | 12 | 22 |
| 113- 10x11  | 105 | 12 | 32 |

| Stock-No.        | mm  | mm | g  |
|------------------|-----|----|----|
| 113A-3/16 x13/64 | 75  | 12 | 10 |
| 113A-3/16 x9/32  | 75  | 12 | 10 |
| 113A-1/4 x9/32   | 86  | 12 | 18 |
| 113A-1/4 x5/16   | 90  | 12 | 18 |
| 113A-3/8 x7/16   | 105 | 12 | 32 |

| Stock-No.  | mm  | mm | g  |
|------------|-----|----|----|
| 113BA- 6x4 | 75  | 12 | 10 |
| 113BA- 4x2 | 90  | 12 | 18 |
| 113BA- 2x0 | 105 | 12 | 38 |

## 112S Double-Ended Ring Spanner Set



|           |                                       |                                                                                     |     |
|-----------|---------------------------------------|-------------------------------------------------------------------------------------|-----|
| Type      | in black plastic wallet               |                                                                                     |     |
| Stock-No. | Contents                              |  | g   |
| 112S 3M   | 10×11; 12×13; 14×15 mm                |                                                                                     | 210 |
| 112S 5M   | 8×9; 10×11; 12×13; 14×15;<br>16×17 mm |                                                                                     | 380 |

| Stock-No. | Contents                                           | g   |
|-----------|----------------------------------------------------|-----|
| 112S 3AF  | 3/8x7/16; 1/2x9/16; 5/8x3/4 AF                     | 325 |
| 112S 5AF  | 3/8x7/16; 7/16x1/2; 1/2x9/16; 9/16x5/8; 5/8x3/4 AF | 450 |

## 113S Double-Ended Ring Spanner Set

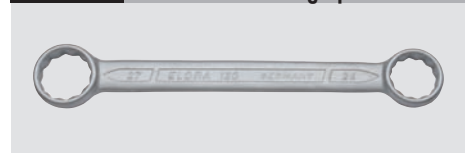


|           |                         |                                                                                          |
|-----------|-------------------------|------------------------------------------------------------------------------------------|
| Type      | in black plastic wallet |                                                                                          |
| Stock-No. | Contents                | <br>g |
| 113S 3M   | 4x4,5; 6x7; 10x11 mm    | 70                                                                                       |
| 113S 5M   | 4x4,5; 5x5,5; 6x7; 8x9; | 106                                                                                      |

| Stock-No. | Contents                         | g  |
|-----------|----------------------------------|----|
| 113S 3AF  | 3/16x9/32; 1/4x5/16; 3/8x7/16 AF | 76 |

| Stock-No. | Contents         | g  |
|-----------|------------------|----|
| 113S 3BA  | 6x4; 4x2; 2x0 BA | 80 |

## 120 Double-Ended Ring Spanner



|          |                                              |
|----------|----------------------------------------------|
| Type     | flat series, straight pattern, chrome plated |
| Material | Chrome-Vanadium 31 CrV 3, Code No. 1.2208    |
| Standard | according to DIN 837/ISO 3318                |

| Stock-No.  | mm  | mm | g   |
|------------|-----|----|-----|
| 120- 6x 7  | 100 | 12 | 11  |
| 120- 8x 9  | 115 | 12 | 16  |
| 120- 8x10  | 115 | 12 | 16  |
| 120- 10x11 | 125 | 12 | 26  |
| 120- 11x13 | 140 | 12 | 37  |
| 120- 12x13 | 140 | 12 | 37  |
| 120- 12x14 | 140 | 12 | 37  |
| 120- 13x15 | 155 | 12 | 55  |
| 120- 13x16 | 170 | 12 | 70  |
| 120- 14x15 | 155 | 12 | 55  |
| 120- 13x17 | 170 | 12 | 70  |
| 120- 14x17 | 170 | 12 | 70  |
| 120- 16x17 | 170 | 12 | 70  |
| 120- 16x18 | 170 | 12 | 70  |
| 120- 17x19 | 185 | 6  | 90  |
| 120- 18x19 | 185 | 6  | 90  |
| 120- 18x21 | 200 | 6  | 116 |
| 120- 19x22 | 200 | 6  | 116 |
| 120- 20x22 | 200 | 6  | 116 |
| 120- 21x22 | 215 | 6  | 140 |
| 120- 21x23 | 215 | 6  | 140 |
| 120- 22x24 | 215 | 6  | 140 |
| 120- 24x26 | 255 | 6  | 200 |
| 120- 24x27 | 240 | 6  | 205 |
| 120- 25x28 | 265 | 6  | 215 |
| 120- 27x32 | 282 | 6  | 320 |
| 120- 30x32 | 285 | 6  | 290 |
| 120- 30x34 | 330 | 3  | 420 |
| 120- 36x41 | 390 | 3  | 515 |

## 120S Double-Ended Ring Spanner Set





| Type        | in two-colour carton box                                                                             |                                                                                            |
|-------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Stock-No.   | Contents<br> mm | <br>g |
| 120S 6M     | 8×9; 10×11; 12×13; 14×15;<br>16×17; 18×19 mm                                                         | 325                                                                                        |
| 120S 8M     | 6×7; 8×9; 10×11; 12×13;<br>14×15; 16×17; 18×19; 20×22 mm                                             | 460                                                                                        |
| 120S 8DIN   | 6×7; 8×9; 10×11; 12×13;<br>14×15; 16×17; 18×19; 21×22 mm                                             | 460                                                                                        |
| 120S 10M    | 6×7; 8×9; 10×11; 12×13;<br>14×15; 16×17; 18×19;<br>20×22; 21×23; 24×27 mm                            | 820                                                                                        |
| 120S 101M   | 6×7; 8×9; 10×11; 12×13;<br>14×15; 16×17; 18×19;<br>20×22; 24×27; 30×32 mm                            | 970                                                                                        |
| 120S 101DIN | 6×7; 8×9; 10×11; 12×13;<br>14×15; 16×17; 18×19;<br>21×22; 24×26; 30×34 mm                            | 1140                                                                                       |
| 120S 12M    | 6×7; 8×9; 10×11; 12×13;<br>14×15; 16×17; 18×19; 20×22;<br>21×23; 24×27; 25×28; 30×32 mm              | 1320                                                                                       |
| 120S 12DIN  | 6×7; 8×9; 10×11; 12×13;<br>14×15; 16×17; 18×19; 20×22;<br>21×23; 24×26; 27×32; 30×34 mm              | 1570                                                                                       |

## 115 Ratchet Ring Spanner



| Application | for right and left hand use |    |     |
|-------------|-----------------------------|----|-----|
| Type        | chrome plated, polished     |    |     |
| Material    | special steel               |    |     |
| Stock-No.   | mm                          | mm | g   |
| 115- 6x 7   | 117                         | 6  | 53  |
| 115- 8x 9   | 135                         | 6  | 73  |
| 115- 10x11  | 143                         | 6  | 80  |
| 115- 12x13  | 179                         | 6  | 145 |
| 115- 14x15  | 179                         | 6  | 150 |
| 115- 16x17  | 209                         | 6  | 258 |
| 115- 18x19  | 209                         | 6  | 260 |
| 115- 21x22  | 227                         | 6  | 283 |

## MS-9 Module



| Application | For roller tool cabinet CADDY, Stock.-No. 1200, BUDDY, Stock.-No. 1210 and SUPER-CADDY, Stock.-No. 1220 |    |      |
|-------------|---------------------------------------------------------------------------------------------------------|----|------|
| Type        | Black, with transparent cover                                                                           |    |      |
| Material    | ABS                                                                                                     |    |      |
| Stock-No.   | Contents                                                                                                | mm | g    |
| MS-9        | Ratchet ring spanners 115G - 6x7; 8x9; 10x11; 12x13; 14x15; 16x17; 18x19; 21x22 mm                      | 1  | 1418 |

## 123 Double End Swivel Socket Wrench



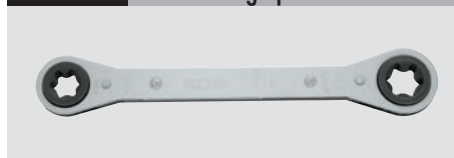
| Type       | chrome plated, head polished              |    |     |
|------------|-------------------------------------------|----|-----|
| Material   | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |    |     |
| Stock-No.  | mm                                        | mm | g   |
| 123- 8x 9  | 185                                       | 6  | 60  |
| 123- 10x11 | 210                                       | 6  | 112 |
| 123- 12x13 | 230                                       | 6  | 170 |
| 123- 14x15 | 245                                       | 6  | 220 |
| 123- 16x17 | 270                                       | 6  | 270 |
| 123- 18x19 | 290                                       | 3  | 360 |
| 123- 20x22 | 330                                       | 3  | 500 |
| 123- 21x23 | 345                                       | 3  | 530 |
| 123- 24x27 | 360                                       | 3  | 790 |
| 123- 30x32 | 400                                       | 3  | 950 |

## MS-8 Module



| Application | For roller tool cabinet CADDY, Stock.-No. 1200, BUDDY, Stock.-No. 1210 and SUPER-CADDY, Stock.-No. 1220 |    |      |
|-------------|---------------------------------------------------------------------------------------------------------|----|------|
| Type        | Black, with transparent cover                                                                           |    |      |
| Material    | ABS                                                                                                     |    |      |
| Stock-No.   | Contents                                                                                                | mm | g    |
| MS-8        | Ratchet ring spanners 115 - 6x7; 8x9; 10x11; 12x13; 14x15; 16x17; 18x19; 21x22 mm                       | 1  | 1400 |

## 116TXE Ratchet Ring Spanner



| Application   | for TORX-screws, for right and left hand use |    |     |
|---------------|----------------------------------------------|----|-----|
| Type          | chrome plated, polished                      |    |     |
| Material      | special steel                                |    |     |
| Stock-No.     | mm                                           | mm | g   |
| 116TXE- 6x 8  | 114                                          | 6  | 54  |
| 116TXE- 10x12 | 140                                          | 6  | 91  |
| 116TXE- 14x18 | 174                                          | 6  | 132 |
| 116TXE- 20x24 | 235                                          | 6  | 227 |

## 123A Double End Swivel Socket Wrench

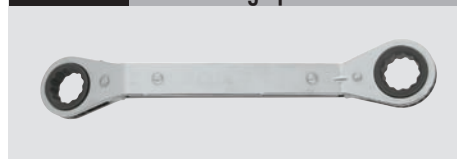
| Stock-No.       | mm  | mm | g   |
|-----------------|-----|----|-----|
| 123A-3/8 x7/16  | 210 | 6  | 112 |
| 123A-1/2 x9/16  | 245 | 6  | 220 |
| 123A-5/8 x11/16 | 270 | 6  | 270 |
| 123A-13/16x7/8  | 345 | 3  | 530 |

## 121 Flare Nut Open Ring Spanner



|             |                                                                                                                                    |  |  |
|-------------|------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Application | for flare nuts e.g. at gasoline or hydraulic pipes                                                                                 |  |  |
| Type        | up to 13x14 mm and 1/2 x 9/16 AF = hex. pattern, from 13x15 mm and 9/16 x 5/8 AF = bi-hex. pattern, jaws set at 15°, chrome plated |  |  |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                                          |  |  |
| Standard    | according to DIN 3118                                                                                                              |  |  |

## 115G Ratchet Ring Spanner



| Application | for right and left hand use      |    |     |
|-------------|----------------------------------|----|-----|
| Type        | cranked, chrome plated, polished |    |     |
| Material    | special steel                    |    |     |
| Stock-No.   | mm                               | mm | g   |
| 115G- 6x 7  | 108                              | 6  | 59  |
| 115G- 8x 9  | 138                              | 6  | 91  |
| 115G- 10x11 | 172                              | 6  | 150 |
| 115G- 12x13 | 172                              | 6  | 150 |
| 115G- 14x15 | 203                              | 6  | 200 |
| 115G- 16x17 | 203                              | 6  | 200 |
| 115G- 18x19 | 232                              | 6  | 236 |
| 115G- 21x22 | 232                              | 6  | 236 |

## 119TXE Double-Ended Ring Spanner



| Application   | for TORX-screws                           |    |     |
|---------------|-------------------------------------------|----|-----|
| Type          | straight pattern, chrome plated           |    |     |
| Material      | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |    |     |
| Stock-No.     | mm                                        | mm | g   |
| 119TXE- 6x 8  | 115                                       | 12 | 15  |
| 119TXE- 10x12 | 142                                       | 12 | 30  |
| 119TXE- 14x18 | 162                                       | 12 | 75  |
| 119TXE- 20x24 | 225                                       | 6  | 180 |

## 121S Flare Nut Open Ring Spanner Set

| Type      | in black plastic wallet                                 |    |      |
|-----------|---------------------------------------------------------|----|------|
| Stock-No. | Contents                                                | mm | g    |
| 121S 8M   | 8x10; 9x11; 12x14; 13x15; 14x16; 17x19; 21x23; 22x24 mm | 1  | 1130 |

## 121 Double-Ended Ring Spanner

| Stock-No.  | mm  | mm | g   |
|------------|-----|----|-----|
| 121- 8x10  | 150 | 12 | 48  |
| 121- 9x11  | 150 | 12 | 48  |
| 121- 10x11 | 165 | 12 | 67  |
| 121- 10x12 | 165 | 12 | 67  |
| 121- 11x13 | 165 | 12 | 67  |
| 121- 12x13 | 190 | 12 | 100 |
| 121- 12x14 | 190 | 12 | 100 |
| 121- 13x14 | 190 | 12 | 100 |
| 121- 13x15 | 190 | 12 | 100 |
| 121- 14x16 | 200 | 12 | 135 |
| 121- 14x17 | 200 | 12 | 135 |
| 121- 16x18 | 210 | 12 | 160 |
| 121- 17x19 | 210 | 12 | 160 |
| 121- 19x22 | 230 | 6  | 190 |
| 121- 21x23 | 245 | 6  | 240 |
| 121- 22x24 | 245 | 6  | 240 |
| 121- 24x27 | 260 | 6  | 325 |
| 121- 30x32 | 288 | 6  | 465 |

| Stock-No.       | mm  | mm | g   |
|-----------------|-----|----|-----|
| 121A- 5/16 x3/8 | 150 | 12 | 48  |
| 121A- 3/8 x7/16 | 165 | 12 | 67  |
| 121A- 7/16 x1/2 | 165 | 12 | 65  |
| 121A- 9/16 x5/8 | 200 | 12 | 135 |
| 121A- 5/8 x3/4  | 210 | 12 | 160 |
| 121A-11/16 x3/4 | 215 | 12 | 170 |
| 121A- 3/4 x7/8  | 230 | 6  | 190 |
| 121A- 1 x1.1/8  | 260 | 6  | 325 |

## 122 Obstruction Ring Spanner



|             |                                                                                           |
|-------------|-------------------------------------------------------------------------------------------|
| Application | especially suitable for work on engines e.g. bolts on alternator, carburettor and starter |
| Type        | chrome plated                                                                             |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                 |

| Stock-No.  | mm  |   | g   |
|------------|-----|---|-----|
| 122- 10x12 | 145 | 6 | 80  |
| 122- 11x13 | 146 | 6 | 74  |
| 122- 12x13 | 146 | 6 | 68  |
| 122- 13x15 | 164 | 6 | 76  |
| 122- 13x17 | 190 | 6 | 136 |
| 122- 14x16 | 190 | 6 | 130 |
| 122- 14x17 | 190 | 6 | 122 |
| 122- 15x17 | 190 | 6 | 118 |
| 122- 17x19 | 200 | 6 | 195 |
| 122- 19x21 | 220 | 6 | 245 |
| 122- 19x22 | 220 | 6 | 250 |

| Stock-No.        | mm  |   | g   |
|------------------|-----|---|-----|
| 122A- 7/16 x 1/2 | 146 | 6 | 74  |
| 122A- 1/2 x 9/16 | 164 | 6 | 76  |
| 122A- 9/16 x 5/8 | 190 | 6 | 130 |
| 122A- 5/8 x 3/4  | 200 | 6 | 195 |
| 122A- 3/4 x 7/8  | 220 | 6 | 250 |

## 86S Ring Slogging Spanner Set



| Type      | on yellow metal display board                                                          |           |                                                                                     |                                                                                     |  |
|-----------|----------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
| Stock-No. | Contents                                                                               | Board     |  |  |  |
|           |  mm | mm        |                                                                                     | kg                                                                                  |  |
| 86S-13    | 86M- 30, 32,<br>36, 38, 41,<br>46, 50, 55,<br>60, 65, 70,<br>75, 80                    | 895 × 725 | 1                                                                                   | 26                                                                                  |  |

## Slogging Spanners

### 86 Ring Slogging Spanner



|          |                               |
|----------|-------------------------------|
| Type     | steelgrey, heavy duty pattern |
| Material | high grade tool steel         |
| Standard | according to DIN 7444         |

| Stock-No. | mm  |   | g     |
|-----------|-----|---|-------|
| 86- 22    | 165 | 1 | 230   |
| 86- 24    | 165 | 1 | 230   |
| 86- 27    | 180 | 1 | 350   |
| 86- 28    | 180 | 1 | 350   |
| 86- 30    | 190 | 1 | 465   |
| 86- 32    | 190 | 1 | 465   |
| 86- 34    | 190 | 1 | 465   |
| 86- 36    | 210 | 1 | 570   |
| 86- 38    | 210 | 1 | 570   |
| 86- 41    | 230 | 1 | 760   |
| 86- 46    | 242 | 1 | 950   |
| 86- 50    | 254 | 1 | 1120  |
| 86- 55    | 268 | 1 | 1560  |
| 86- 60    | 283 | 1 | 1625  |
| 86- 65    | 300 | 1 | 2060  |
| 86- 70    | 325 | 1 | 3000  |
| 86- 75    | 325 | 1 | 2940  |
| 86- 80    | 358 | 1 | 4000  |
| 86- 85    | 358 | 1 | 4000  |
| 86- 90    | 388 | 1 | 5400  |
| 86- 95    | 388 | 1 | 5400  |
| 86-100    | 420 | 1 | 6530  |
| 86-105    | 420 | 1 | 6530  |
| 86-110    | 450 | 1 | 8600  |
| 86-115    | 450 | 1 | 8600  |
| 86-120    | 475 | 1 | 12000 |
| 86-125    | 475 | 1 | 12000 |
| 86-130    | 520 | 1 | 13200 |
| 86-135    | 520 | 1 | 13400 |
| 86-140    | 520 | 1 | 13800 |
| 86-145    | 575 | 1 | 19200 |
| 86-150    | 575 | 1 | 19200 |
| 86-155    | 575 | 1 | 19200 |
| 86-160    | 575 | 1 | 19200 |
| 86-165    | 650 | 1 | 28600 |
| 86-170    | 650 | 1 | 28600 |
| 86-175    | 650 | 1 | 28600 |

other sizes on request

| Stock-No.  | mm  |   | g    |
|------------|-----|---|------|
| 86W- 1/2   | 165 | 1 | 230  |
| 86W- 9/16  | 165 | 1 | 230  |
| 86W- 5/8   | 180 | 1 | 350  |
| 86W- 11/16 | 190 | 1 | 465  |
| 86W- 3/4   | 190 | 1 | 465  |
| 86W- 13/16 | 210 | 1 | 570  |
| 86W- 7/8   | 210 | 1 | 570  |
| 86W- 15/16 | 230 | 1 | 760  |
| 86W- 1     | 230 | 1 | 760  |
| 86W- 1.1/8 | 242 | 1 | 950  |
| 86W- 1.1/4 | 254 | 1 | 1120 |
| 86W- 1.3/8 | 268 | 1 | 1560 |

other sizes on request

| Stock-No.    | mm  |   | g    |
|--------------|-----|---|------|
| 86A- 1       | 165 | 1 | 230  |
| 86A- 1.1/16  | 180 | 1 | 350  |
| 86A- 1.1/8   | 180 | 1 | 350  |
| 86A- 1.3/16  | 190 | 1 | 465  |
| 86A- 1.1/4   | 190 | 1 | 465  |
| 86A- 1.5/16  | 190 | 1 | 465  |
| 86A- 1.3/8   | 210 | 1 | 570  |
| 86A- 1.7/16  | 210 | 1 | 570  |
| 86A- 1.1/2   | 210 | 1 | 570  |
| 86A- 1.9/16  | 230 | 1 | 760  |
| 86A- 1.5/8   | 230 | 1 | 760  |
| 86A- 1.11/16 | 230 | 1 | 760  |
| 86A- 1.3/4   | 242 | 1 | 950  |
| 86A- 1.13/16 | 242 | 1 | 950  |
| 86A- 1.7/8   | 242 | 1 | 950  |
| 86A- 1.15/16 | 254 | 1 | 1120 |
| 86A- 2       | 254 | 1 | 1120 |
| 86A- 2.1/16  | 254 | 1 | 1120 |
| 86A- 2.1/8   | 268 | 1 | 1560 |
| 86A- 2.3/16  | 268 | 1 | 1560 |
| 86A- 2.1/4   | 268 | 1 | 1560 |
| 86A- 2.5/16  | 283 | 1 | 1625 |
| 86A- 2.3/8   | 283 | 1 | 1625 |
| 86A- 2.7/16  | 283 | 1 | 1625 |
| 86A- 2.1/2   | 300 | 1 | 2060 |
| 86A- 2.9/16  | 300 | 1 | 2060 |
| 86A- 2.5/8   | 300 | 1 | 2060 |
| 86A- 2.3/4   | 325 | 1 | 3000 |
| 86A- 2.13/16 | 325 | 1 | 3000 |
| 86A- 2.7/8   | 325 | 1 | 3000 |
| 86A- 2.15/16 | 325 | 1 | 2940 |
| 86A- 3       | 325 | 1 | 2940 |
| 86A- 3.1/8   | 358 | 1 | 4000 |
| 86A- 3.1/4   | 358 | 1 | 4000 |
| 86A- 3.3/8   | 358 | 1 | 4000 |
| 86A- 3.1/2   | 358 | 1 | 4000 |
| 86A- 3.5/8   | 388 | 1 | 5400 |
| 86A- 3.3/4   | 388 | 1 | 5400 |
| 86A- 3.7/8   | 388 | 1 | 5400 |
| 86A- 4       | 420 | 1 | 6530 |
| 86A- 4.1/8   | 420 | 1 | 6530 |
| 86A- 4.1/4   | 450 | 1 | 8600 |
| 86A- 4.1/2   | 450 | 1 | 8600 |

other sizes on request



## 87 Open End Slogging Spanner



|          |                               |
|----------|-------------------------------|
| Type     | steelgrey, heavy duty pattern |
| Material | high grade tool steel         |
| Standard | according to DIN 133          |

| Stock-No. | mm  | mm | g     |
|-----------|-----|----|-------|
| 87- 24    | 180 | 1  | 340   |
| 87- 27    | 180 | 1  | 340   |
| 87- 30    | 190 | 1  | 440   |
| 87- 32    | 190 | 1  | 425   |
| 87- 36    | 215 | 1  | 750   |
| 87- 38    | 215 | 1  | 750   |
| 87- 41    | 235 | 1  | 930   |
| 87- 46    | 255 | 1  | 1200  |
| 87- 50    | 275 | 1  | 1675  |
| 87- 55    | 300 | 1  | 1900  |
| 87- 60    | 320 | 1  | 2500  |
| 87- 65    | 342 | 1  | 3460  |
| 87- 70    | 375 | 1  | 4450  |
| 87- 75    | 375 | 1  | 4050  |
| 87- 80    | 408 | 1  | 6000  |
| 87- 85    | 408 | 1  | 5650  |
| 87- 90    | 445 | 1  | 7800  |
| 87- 95    | 445 | 1  | 7800  |
| 87- 100   | 485 | 1  | 11500 |
| 87- 105   | 485 | 1  | 11500 |
| 87- 110   | 510 | 1  | 13500 |
| 87- 115   | 510 | 1  | 13500 |
| 87- 120   | 545 | 1  | 16000 |
| 87- 125   | 545 | 1  | 16000 |
| 87- 130   | 575 | 1  | 19000 |
| 87- 135   | 575 | 1  | 19000 |
| 87- 140   | 575 | 1  | 20700 |
| 87- 145   | 640 | 1  | 27100 |
| 87- 150   | 640 | 1  | 27300 |
| 87- 155   | 640 | 1  | 27400 |
| 87- 160   | 715 | 1  | 25500 |
| 87- 165   | 715 | 1  | 40000 |
| 87- 170   | 715 | 1  | 39000 |
| 87- 175   | 715 | 1  | 39000 |

other sizes on request

| Stock-No.    | mm  | mm | g     |
|--------------|-----|----|-------|
| 87A- 1       | 180 | 1  | 340   |
| 87A- 1.1/16  | 180 | 1  | 345   |
| 87A- 1.1/8   | 180 | 1  | 345   |
| 87A- 1.3/16  | 190 | 1  | 440   |
| 87A- 1.1/4   | 190 | 1  | 425   |
| 87A- 1.5/16  | 190 | 1  | 425   |
| 87A- 1.3/8   | 215 | 1  | 750   |
| 87A- 1.7/16  | 215 | 1  | 750   |
| 87A- 1.1/2   | 215 | 1  | 750   |
| 87A- 1.9/16  | 235 | 1  | 930   |
| 87A- 1.5/8   | 235 | 1  | 930   |
| 87A- 1.11/16 | 235 | 1  | 930   |
| 87A- 1.3/4   | 255 | 1  | 1200  |
| 87A- 1.13/16 | 255 | 1  | 1200  |
| 87A- 1.7/8   | 255 | 1  | 1200  |
| 87A- 1.15/16 | 275 | 1  | 1675  |
| 87A- 2       | 275 | 1  | 1675  |
| 87A- 2.1/16  | 275 | 1  | 1675  |
| 87A- 2.1/8   | 300 | 1  | 1900  |
| 87A- 2.3/16  | 300 | 1  | 1900  |
| 87A- 2.1/4   | 300 | 1  | 1900  |
| 87A- 2.5/16  | 320 | 1  | 2500  |
| 87A- 2.3/8   | 320 | 1  | 2500  |
| 87A- 2.7/16  | 320 | 1  | 2500  |
| 87A- 2.1/2   | 342 | 1  | 3460  |
| 87A- 2.9/16  | 342 | 1  | 3460  |
| 87A- 2.5/8   | 342 | 1  | 3460  |
| 87A- 2.3/4   | 375 | 1  | 4450  |
| 87A- 2.13/16 | 375 | 1  | 4450  |
| 87A- 2.7/8   | 375 | 1  | 4450  |
| 87A- 2.15/16 | 375 | 1  | 4050  |
| 87A- 3       | 375 | 1  | 4050  |
| 87A- 3.1/8   | 408 | 1  | 6000  |
| 87A- 3.1/4   | 408 | 1  | 6000  |
| 87A- 3.3/8   | 408 | 1  | 5650  |
| 87A- 3.1/2   | 445 | 1  | 7800  |
| 87A- 3.5/8   | 445 | 1  | 7800  |
| 87A- 3.3/4   | 445 | 1  | 7800  |
| 87A- 3.7/8   | 485 | 1  | 11500 |
| 87A- 4       | 485 | 1  | 11500 |
| 87A- 4.1/8   | 485 | 1  | 11500 |
| 87A- 4.1/4   | 510 | 1  | 13500 |
| 87A- 4.1/2   | 510 | 1  | 13500 |

other sizes in AF and WW on request

## 88 Single End Ring Spanner



|          |                             |
|----------|-----------------------------|
| Type     | straight pattern, steelgrey |
| Material | high grade tool steel       |
| Standard | according to DIN 3111       |

| Stock-No. | mm  | mm | g    |
|-----------|-----|----|------|
| 88- 13    | 138 | 6  | 45   |
| 88- 14    | 138 | 6  | 45   |
| 88- 17    | 155 | 6  | 75   |
| 88- 19    | 171 | 6  | 100  |
| 88- 22    | 190 | 6  | 140  |
| 88- 24    | 215 | 3  | 160  |
| 88- 27    | 230 | 3  | 200  |
| 88- 30    | 254 | 3  | 280  |
| 88- 32    | 265 | 3  | 350  |
| 88- 36    | 295 | 1  | 500  |
| 88- 41    | 330 | 1  | 750  |
| 88- 46    | 365 | 1  | 950  |
| 88- 50    | 400 | 1  | 1200 |
| 88- 55    | 442 | 1  | 1600 |
| 88- 60    | 475 | 1  | 1800 |
| 88- 65    | 510 | 1  | 2400 |
| 88- 70    | 555 | 1  | 2700 |
| 88- 75    | 590 | 1  | 3400 |
| 88- 80    | 620 | 1  | 3800 |
| 88- 85    | 665 | 1  | 4400 |
| 88- 90    | 698 | 1  | 5300 |
| 88- 95    | 700 | 1  | 5800 |

## Construction Ring Spanners

### 85 Construction Ring Spanner



|             |                                                 |
|-------------|-------------------------------------------------|
| Application | for use with tommy bar tubes No. 855            |
| Type        | heavy duty pattern, deep cranked, chrome plated |
| Material    | high grade tool steel                           |

| Stock-No. | mm  | mm | g    | Stock-No.   | mm  | mm | g    |
|-----------|-----|----|------|-------------|-----|----|------|
| 85- 22    | 195 | 1  | 370  | 85- 7/8     | 195 | 1  | 370  |
| 85- 24    | 180 | 1  | 370  | 85- 1       | 180 | 1  | 370  |
| 85- 27    | 185 | 1  | 410  | 85- 1.1/16  | 185 | 1  | 410  |
| 85- 30    | 195 | 1  | 490  | 85- 1.1/8   | 185 | 1  | 410  |
| 85- 32    | 230 | 1  | 720  | 85- 1.3/16  | 195 | 1  | 490  |
| 85- 36    | 240 | 1  | 840  | 85- 1.1/4   | 230 | 1  | 720  |
| 85- 38    | 240 | 1  | 840  | 85- 1.5/16  | 230 | 1  | 720  |
| 85- 41    | 250 | 1  | 935  | 85- 1.3/8   | 240 | 1  | 840  |
| 85- 46    | 260 | 1  | 1300 | 85- 1.7/16  | 240 | 1  | 840  |
| 85- 50    | 270 | 1  | 1450 | 85- 1.1/2   | 240 | 1  | 840  |
| 85- 55    | 270 | 1  | 1450 | 85- 1.9/16  | 250 | 1  | 935  |
| 85- 60    | 325 | 1  | 2400 | 85- 1.5/8   | 250 | 1  | 935  |
| 85- 65    | 340 | 1  | 2600 | 85- 1.11/16 | 250 | 1  | 935  |
| 85- 70    | 340 | 1  | 2800 | 85- 1.3/4   | 250 | 1  | 935  |
| 85- 75    | 370 | 1  | 3000 | 85- 1.13/16 | 260 | 1  | 1300 |
| 85- 80    | 385 | 1  | 3920 | 85- 1.7/8   | 260 | 1  | 1300 |
| 85- 85    | 385 | 1  | 4100 | 85- 2       | 270 | 1  | 1450 |
| 85- 90    | 410 | 1  | 4950 | 85- 2.1/16  | 270 | 1  | 1450 |
| 85- 95    | 410 | 1  | 4950 | 85- 2.1/8   | 270 | 1  | 1450 |
| 85- 100   | 410 | 1  | 4800 | 85- 2.3/16  | 270 | 1  | 1500 |
|           |     |    |      | 85- 2.1/4   | 270 | 1  | 1500 |
|           |     |    |      | 85- 2.3/8   | 325 | 1  | 2400 |
|           |     |    |      | 85- 2.1/2   | 325 | 1  | 2400 |
|           |     |    |      | 85- 2.9/16  | 340 | 1  | 2600 |
|           |     |    |      | 85- 2.3/4   | 340 | 1  | 2800 |
|           |     |    |      | 85- 2.15/16 | 370 | 1  | 3000 |
|           |     |    |      | 85- 3.1/8   | 385 | 1  | 3920 |
|           |     |    |      | 85- 3.3/8   | 385 | 1  | 4100 |

other sizes on request

other sizes on request

### 855 Tommy Bar Tube



|             |                                                |
|-------------|------------------------------------------------|
| Application | for use with construction ring spanners No. 85 |
| Type        | chrome plated                                  |
| Material    | steel tube                                     |

| Stock-No. | for 85-<br>mm                          | for 85-<br>AF                                                  | mm     | g    |
|-----------|----------------------------------------|----------------------------------------------------------------|--------|------|
| 855- 22   | 22; 24; 27; 30 mm                      | 7/8; 1; 1.1/16; 1.1/8; 1.3/16 AF                               | 460x23 | 600  |
| 855- 32   | 32; 36; 38; 41 mm                      | 1.1/4; 1.5/16; 1.3/8; 1.7/16; 1.1/2; 1.9/16; 1.5/8; 1.11/16 AF | 610x27 | 1090 |
| 855- 46   | 46; 50; 55 mm                          | 1.3/4; 1.13/16; 1.7/8; 2; 2.1/16; 2.1/8; 2.3/16; 2.1/4 AF      | 760x30 | 2150 |
| 855- 60   | 60; 65; 70; 75; 80; 85; 90; 95; 100 mm | 2.3/8; 2.1/2; 2.9/16; 2.3/4; 2.15/16; 3.1/8; 3.3/8 AF          | 865x37 | 2900 |

### 855 Construction Ring Spanner Set



| Type      | on yellow/black metal display board                                                                                                    |             |                                                                                           |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------|
| Stock-No. | Contents                                                                                                                               | Board<br>mm | <br>kg |
| 855 17M   | 27; 30; 32; 36; 41; 46;<br>50; 55; 60; 65; 70; 75;<br>80 mm<br>855-22; 855-32;<br>855-46; 855-60                                       | 895x725     | 37                                                                                        |
| 855 16AF  | 1.1/4; 1.7/16; 1.5/8;<br>1.13/16; 2; 2.3/16;<br>2.3/8; 2.9/16; 2.3/4;<br>2.15/16; 3.1/8; 3.3/8 AF<br>855-22; 855-32;<br>855-46; 855-60 | 895x725     | 33                                                                                        |

## Tubular Box Spanners and Hexagon Nut Drivers

### 206 Hexagon Tubular Box Spanner



|             |                                                                                           |
|-------------|-------------------------------------------------------------------------------------------|
| Application | for use with open end spanner, tommy bar No. 211 and stepped tommy bar No. 212-2 or 212-3 |
| Type        | solid series, chrome plated, heads polished                                               |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                 |
| Standard    | according to DIN 896, form A/ISO 2236/1085                                                |

| Stock-No.  | mm  | mm | g   |
|------------|-----|----|-----|
| 206- 6x 7  | 105 | 12 | 30  |
| 206- 8x 9  | 110 | 12 | 60  |
| 206- 10x11 | 120 | 12 | 80  |
| 206- 12x13 | 140 | 6  | 125 |
| 206- 13x17 | 155 | 6  | 140 |
| 206- 14x15 | 145 | 6  | 145 |
| 206- 16x17 | 155 | 6  | 150 |
| 206- 16x18 | 160 | 6  | 150 |
| 206- 17x19 | 165 | 6  | 225 |
| 206- 18x19 | 165 | 6  | 235 |
| 206- 18x21 | 170 | 6  | 235 |
| 206- 20x22 | 175 | 3  | 290 |
| 206- 21x23 | 185 | 3  | 340 |
| 206- 21x24 | 190 | 3  | 380 |
| 206- 24x26 | 195 | 3  | 410 |
| 206- 24x27 | 195 | 3  | 445 |
| 206- 25x28 | 210 | 3  | 510 |
| 206- 27x29 | 210 | 3  | 575 |
| 206- 30x32 | 210 | 3  | 690 |

## 206S Hexagon Tubular Box Spanner Set



| Type      | in two-colour carton box                                                          |  |      |
|-----------|-----------------------------------------------------------------------------------|--|------|
| Stock-No. | Contents                                                                          |  | g    |
| 206S 8M   | 6×7; 8×9; 10×11; 12×13; 14×15; 16×17; 18×19; 20×22 mm                             |  | 1120 |
| 206S 12M  | 6×7; 8×9; 10×11; 12×13; 14×15; 16×17; 18×19; 20×22; 21×23; 24×27; 25×28; 30×32 mm |  | 3100 |

## 211 Tommy Bar



| Application | for hexagon tubular box spanners No. 210 and 217 |                |        |        |
|-------------|--------------------------------------------------|----------------|--------|--------|
| Type        | hardened, chrome plated                          |                |        |        |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208        |                |        |        |
| Standard    | according to DIN 900, form A                     |                |        |        |
| Stock-No.   | for sizes mm                                     | for sizes AF   |        |        |
| 211- 5      | 4 – 5                                            | 1/4 – 9/32     | 125× 5 | 12 20  |
| 211- 6      | 6 – 11                                           | 5/16 – 7/16    | 160× 6 | 6 35   |
| 211- 8      | 12 – 15                                          | 15/32 – 19/32  | 180× 8 | 6 71   |
| 211- 10     | 16 – 17                                          | 5/8 – 11/16    | 200×10 | 6 123  |
| 211- 12     | 18 – 22                                          | 3/4 – 7/8      | 250×12 | 3 222  |
| 211- 14     | 23 – 27                                          | 15/16 – 1      | 320×14 | 3 386  |
| 211- 16     | 24 – 32                                          | 1.1/16 – 1.1/4 | 400×16 | 3 631  |
| 211- 18     | 30 – 41                                          | –              | 500×18 | 3 1000 |
| 211- 20     | 41 – 60                                          | –              | 630×20 | 3 1553 |

## 212 Stepped Tommy Bar



| Application | for hex. tubular box spanners No. 206, 210 and 217 |                 |       |     |
|-------------|----------------------------------------------------|-----------------|-------|-----|
| Type        | hardened, chrome plated                            |                 |       |     |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208          |                 |       |     |
| Standard    | according to DIN 900, form C                       |                 |       |     |
| Stock-No.   | for sizes mm                                       | for sizes AF    |       |     |
| 212- 1      | for 210/217                                        | 6 – 27 5/16 – 1 | 250 6 | 230 |
| 212- 2      | for 206                                            | 6 – 19          | 250 6 | 230 |
| 212- 3      | for 206                                            | 20 – 32         | 250 6 | 230 |

## 210 Hexagon Tubular Box Spanner



| Type       | chrome plated                              |    |      |  |
|------------|--------------------------------------------|----|------|--|
| Material   | steel tube hardened                        |    |      |  |
| Standard   | according to DIN 896, form B/ISO 2236/1015 |    |      |  |
| Stock-No.  |                                            | mm |      |  |
| 210- 4× 5  | 100                                        | 12 | 16   |  |
| 210- 6× 7  | 100                                        | 12 | 27   |  |
| 210- 7× 8  | 105                                        | 12 | 36   |  |
| 210- 8× 9  | 105                                        | 12 | 36   |  |
| 210- 8×10  | 120                                        | 12 | 46   |  |
| 210- 9×10  | 120                                        | 12 | 46   |  |
| 210- 9×11  | 120                                        | 12 | 46   |  |
| 210- 10×11 | 120                                        | 12 | 50   |  |
| 210- 10×12 | 140                                        | 6  | 68   |  |
| 210- 10×13 | 140                                        | 6  | 70   |  |
| 210- 10×14 | 140                                        | 6  | 70   |  |
| 210- 11×13 | 140                                        | 6  | 92   |  |
| 210- 11×14 | 140                                        | 6  | 70   |  |
| 210- 12×13 | 140                                        | 6  | 72   |  |
| 210- 12×14 | 140                                        | 6  | 76   |  |
| 210- 13×14 | 140                                        | 6  | 76   |  |
| 210- 13×15 | 140                                        | 6  | 82   |  |
| 210- 13×16 | 150                                        | 6  | 120  |  |
| 210- 13×17 | 150                                        | 6  | 122  |  |
| 210- 14×15 | 140                                        | 6  | 82   |  |
| 210- 14×17 | 150                                        | 6  | 122  |  |
| 210- 16×17 | 150                                        | 6  | 126  |  |
| 210- 16×18 | 160                                        | 6  | 205  |  |
| 210- 17×19 | 160                                        | 6  | 205  |  |
| 210- 17×22 | 170                                        | 6  | 200  |  |
| 210- 18×19 | 160                                        | 6  | 205  |  |
| 210- 18×21 | 160                                        | 6  | 210  |  |
| 210- 19×22 | 170                                        | 6  | 235  |  |
| 210- 20×22 | 170                                        | 6  | 235  |  |
| 210- 21×23 | 170                                        | 3  | 250  |  |
| 210- 19×24 | 190                                        | 3  | 275  |  |
| 210- 21×24 | 190                                        | 3  | 280  |  |
| 210- 22×24 | 190                                        | 3  | 280  |  |
| 210- 22×27 | 190                                        | 3  | 305  |  |
| 210- 24×26 | 190                                        | 3  | 300  |  |
| 210- 24×27 | 190                                        | 3  | 300  |  |
| 210- 24×30 | 200                                        | 3  | 380  |  |
| 210- 25×28 | 200                                        | 3  | 340  |  |
| 210- 27×29 | 200                                        | 3  | 390  |  |
| 210- 27×30 | 200                                        | 3  | 380  |  |
| 210- 27×32 | 200                                        | 3  | 400  |  |
| 210- 28×32 | 270                                        | 3  | 375  |  |
| 210- 30×32 | 200                                        | 3  | 395  |  |
| 210- 30×36 | 220                                        | 1  | 515  |  |
| 210- 32×36 | 220                                        | 1  | 525  |  |
| 210- 36×41 | 220                                        | 1  | 680  |  |
| 210- 38×42 | 230                                        | 1  | 740  |  |
| 210- 41×46 | 240                                        | 1  | 810  |  |
| 210- 46×50 | 240                                        | 1  | 870  |  |
| 210- 50×55 | 240                                        | 1  | 1040 |  |
| 210- 55×60 | 240                                        | 1  | 1120 |  |

## 210S Hexagon Tubular Box Spanner Set



| Type      | in two-colour carton box                                                                        |  |      |
|-----------|-------------------------------------------------------------------------------------------------|--|------|
| Stock-No. | Contents                                                                                        |  | g    |
| 210S 6M   | 6×7; 8×9; 10×11; 12×13; 14×15; 16×17 mm                                                         |  | 430  |
| 210S 8M   | 6×7; 8×9; 10×11; 12×13; 14×15; 16×17; 18×19; 20×22 mm                                           |  | 870  |
| 210S 10M  | 6×7; 8×9; 10×11; 12×13; 14×15; 16×17; 18×19; 20×22; 21×23; 24×27 mm                             |  | 1470 |
| 210S 12M  | 6×7; 8×9; 10×11; 12×13; 14×15; 16×17; 18×19; 20×22; 21×23; 24×27; 25×28; 30×32 mm               |  | 2100 |
| 210S 14M  | 6×7; 8×9; 10×11; 12×13; 14×15; 16×17; 18×19; 20×22; 21×23; 24×27; 25×28; 30×32; 36×41; 46×50 mm |  | 3750 |
| Stock-No. | Contents                                                                                        |  | g    |
| 210S 6AF  | 5/16×3/8; 7/16×1/2; 9/16×5/8; 11/16×3/4; 13/16×7/8; 15/16×1 AF                                  |  | 1030 |
| 210S 8AF  | 1/4×9/32; 5/16×3/8; 7/16×1/2; 9/16×5/8; 11/16×3/4; 13/16×7/8; 15/16×1; 1.1/16×1.1/4 AF          |  | 1470 |

213

## Flexible Hexagon Nut Driver



Type chrome plated shank, with 2 Components-Handle

| Stock-No.<br>mm | mm  | mm | g   |
|-----------------|-----|----|-----|
| 213- 5          | 250 | 6  | 150 |
| 213- 6          | 250 | 6  | 150 |
| 213- 7          | 250 | 6  | 150 |
| 213- 8          | 250 | 6  | 150 |
| 213- 10         | 275 | 6  | 270 |

214

## Hexagon Nut Driver



Type chrome plated, polished shank, with plastic T-handle

Material Chrome-Vanadium 31 CrV 3, Code No. 1.2208

| Stock-No.<br>mm | mm  | Shank Ø<br>mm | mm | g   |
|-----------------|-----|---------------|----|-----|
| 214- 5,5-125    | 125 | 6             | 6  | 68  |
| 214- 6 -125     | 125 | 6             | 6  | 70  |
| 214- 7 -125     | 125 | 6             | 6  | 104 |
| 214- 8 -125     | 125 | 6             | 6  | 104 |
| 214- 9 -125     | 125 | 6             | 6  | 110 |
| 214- 10 -125    | 125 | 6             | 6  | 104 |
| 214- 11 -125    | 125 | 7             | 6  | 120 |
| 214- 12 -125    | 125 | 7             | 6  | 130 |
| 214- 13 -125    | 125 | 7             | 6  | 130 |
| 214- 14 -125    | 125 | 7             | 6  | 140 |

| Stock-No.<br>mm | mm  | Shank Ø<br>mm | mm | g   |
|-----------------|-----|---------------|----|-----|
| 214- 5,5-230    | 230 | 6             | 6  | 120 |
| 214- 6 -230     | 230 | 6             | 6  | 120 |
| 214- 7 -230     | 230 | 6             | 6  | 125 |
| 214- 8 -230     | 230 | 6             | 6  | 125 |
| 214- 9 -230     | 230 | 6             | 6  | 140 |
| 214- 10 -230    | 230 | 6             | 6  | 140 |
| 214- 11 -230    | 230 | 7             | 6  | 170 |
| 214- 12 -230    | 230 | 7             | 6  | 170 |
| 214- 13 -230    | 230 | 7             | 6  | 180 |
| 214- 14 -230    | 230 | 7             | 6  | 180 |

| Stock-No.<br>mm | mm  | Shank Ø<br>mm | mm | g   |
|-----------------|-----|---------------|----|-----|
| 214- 8-350      | 350 | 6             | 6  | 170 |
| 214- 9-350      | 350 | 6             | 6  | 155 |
| 214- 10-350     | 350 | 6             | 6  | 215 |
| 214- 11-350     | 350 | 7             | 6  | 215 |
| 214- 12-350     | 350 | 7             | 6  | 215 |
| 214- 13-350     | 350 | 7             | 6  | 220 |
| 214- 14-350     | 350 | 7             | 6  | 220 |

215

## Hexagon Nut Driver



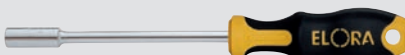
Type short series, chrome plated and polished shank, with 2 Components-Handle

Material Chrome-Vanadium 31 CrV 3, Code No. 1.2208

| Stock-No.<br>mm | mm  | mm | g   |
|-----------------|-----|----|-----|
| 215- 3          | 140 | 6  | 55  |
| 215- 4          | 140 | 6  | 55  |
| 215- 4,5        | 140 | 6  | 55  |
| 215- 5          | 140 | 6  | 55  |
| 215- 5,5        | 140 | 6  | 58  |
| 215- 6          | 140 | 6  | 58  |
| 215- 7          | 150 | 6  | 82  |
| 215- 8          | 150 | 6  | 84  |
| 215- 9          | 150 | 6  | 86  |
| 215- 10         | 150 | 6  | 88  |
| 215- 11         | 160 | 6  | 116 |
| 215- 12         | 160 | 6  | 118 |
| 215- 13         | 160 | 6  | 130 |
| 215- 14         | 160 | 6  | 130 |

216

## Hexagon Nut Driver



Type long series, chrome plated and polished shank, with 2 Components-Handle

Material Chrome-Vanadium 31 CrV 3, Code No. 1.2208

Standard according to DIN 3125

| Stock-No.<br>mm | mm  | mm | g   |
|-----------------|-----|----|-----|
| 216- 3          | 210 | 6  | 65  |
| 216- 4          | 210 | 6  | 65  |
| 216- 4,5        | 210 | 6  | 65  |
| 216- 5          | 210 | 6  | 65  |
| 216- 5,5        | 210 | 6  | 65  |
| 216- 6          | 210 | 6  | 75  |
| 216- 7          | 220 | 6  | 98  |
| 216- 8          | 220 | 6  | 114 |
| 216- 9          | 220 | 6  | 130 |
| 216- 10         | 220 | 6  | 130 |
| 216- 11         | 230 | 6  | 160 |
| 216- 12         | 230 | 6  | 180 |
| 216- 13         | 230 | 6  | 190 |
| 216- 14         | 230 | 6  | 190 |

| Stock-No.<br>mm | mm  | mm | g   |
|-----------------|-----|----|-----|
| 216A- 1/8       | 210 | 6  | 65  |
| 216A- 5/32      | 210 | 6  | 65  |
| 216A- 3/16      | 220 | 6  | 65  |
| 216A- 7/32      | 210 | 6  | 98  |
| 216A- 1/4       | 210 | 6  | 98  |
| 216A- 9/32      | 220 | 6  | 114 |
| 216A- 5/16      | 220 | 6  | 114 |
| 216A- 11/32     | 220 | 6  | 130 |
| 216A- 3/8       | 220 | 6  | 130 |
| 216A- 7/16      | 230 | 6  | 160 |
| 216A- 1/2       | 230 | 6  | 190 |
| 216A- 9/16      | 230 | 6  | 190 |

217

## Hexagon Tubular Box Spanner



Application for use with tommy bar No. 211

Type long series, with bore for use with tommy bar, with plastic handle, chrome plated shank

Material Chrome-Vanadium 31 CrV 3, Code No. 1.2208

| Stock-No.<br>mm | mm  | mm | g   |
|-----------------|-----|----|-----|
| 217- 3          | 210 | 6  | 56  |
| 217- 4          | 210 | 6  | 62  |
| 217- 4,5        | 210 | 6  | 56  |
| 217- 5          | 210 | 6  | 60  |
| 217- 5,5        | 210 | 6  | 92  |
| 217- 6          | 220 | 6  | 104 |
| 217- 7          | 220 | 6  | 104 |
| 217- 8          | 220 | 6  | 104 |
| 217- 9          | 220 | 6  | 112 |
| 217- 10         | 230 | 6  | 112 |
| 217- 11         | 230 | 6  | 116 |
| 217- 12         | 230 | 6  | 155 |
| 217- 13         | 230 | 6  | 155 |
| 217- 14         | 230 | 6  | 160 |
| 217- 15         | 240 | 6  | 165 |
| 217- 16         | 240 | 6  | 210 |
| 217- 17         | 240 | 6  | 210 |





## **SUITABLE FOR ALL APPLICATIONS – BECAUSE ELORA IS AHEAD OF ITS TIME.**

“Once upon a time...” is how many fairytales start but there was a time when we had hexagon bolts, hexagon screws, plain slot and cross slot screws – and nothing else. Today there are a large number of different screw head profiles. Furthermore we have driving systems from ¼" up to 1". We at ELORA have the matching sockets and accessories for each and every system. Not only in metric and imperial sizes but also for BSW and BA sizes.

### **SOCKETS, SOCKET PARTS, SOCKETS AND SPANNER SETS 03**



## Sockets and Screwdriver Sockets

- Type: chrome-plated
- Material: Chrome-Vanadium 31 Cr-V 3., Code No. 1.2208
- Standard: 1/4" square drive acc. to DIN 3120/ISO 1174, with hole for accessories, for manual drive

### 1455 Hexagon Sockets

1/4"



| Application | for outside hexagon bolts            |
|-------------|--------------------------------------|
| Standard    | sizes according to DIN 3124/ISO 2725 |

| Stock-No. | mm | mm | g  |
|-----------|----|----|----|
| 1455- 3,5 | 25 | 12 | 9  |
| 1455- 4   | 25 | 12 | 9  |
| 1455- 4,5 | 25 | 12 | 10 |
| 1455- 5   | 25 | 12 | 10 |
| 1455- 5,5 | 25 | 12 | 10 |
| 1455- 6   | 25 | 12 | 10 |
| 1455- 7   | 25 | 12 | 11 |
| 1455- 8   | 25 | 12 | 12 |
| 1455- 9   | 25 | 12 | 14 |
| 1455- 10  | 25 | 12 | 18 |
| 1455- 11  | 25 | 12 | 23 |
| 1455- 12  | 25 | 12 | 24 |
| 1455- 13  | 25 | 12 | 24 |
| 1455- 14  | 25 | 12 | 28 |

| Stock-No.    | mm | mm | g  |
|--------------|----|----|----|
| 1455-A 5/32  | 25 | 12 | 9  |
| 1455-A 3/16  | 25 | 12 | 10 |
| 1455-A 7/32  | 25 | 12 | 10 |
| 1455-A 1/4   | 25 | 12 | 10 |
| 1455-A 9/32  | 25 | 12 | 11 |
| 1455-A 5/16  | 25 | 12 | 12 |
| 1455-A 11/32 | 25 | 12 | 14 |
| 1455-A 3/8   | 25 | 12 | 18 |
| 1455-A 7/16  | 25 | 12 | 23 |
| 1455-A 1/2   | 25 | 12 | 24 |
| 1455-A 9/16  | 25 | 12 | 28 |

| Stock-No.  | mm | mm | g  |
|------------|----|----|----|
| 1455-BA 10 | 25 | 12 | 9  |
| 1455-BA 8  | 25 | 12 | 10 |
| 1455-BA 7  | 25 | 12 | 10 |
| 1455-BA 6  | 25 | 12 | 10 |
| 1455-BA 5  | 25 | 12 | 10 |
| 1455-BA 4  | 25 | 12 | 10 |
| 1455-BA 3  | 25 | 12 | 11 |
| 1455-BA 2  | 25 | 12 | 12 |
| 1455-BA 1  | 25 | 12 | 14 |
| 1455-BA 0  | 25 | 12 | 18 |

### 1455-KLS Hexagon Sockets on Socket Rail

1/4"



| Application | for fitting in tool trolleys or on tool bars |
|-------------|----------------------------------------------|
|-------------|----------------------------------------------|

| Type | with 14 socket clips, made from metal, socket rail chrome-plated, polished |
|------|----------------------------------------------------------------------------|
|------|----------------------------------------------------------------------------|

| Stock-No.     | Contents                                                                   | mm  | g   |
|---------------|----------------------------------------------------------------------------|-----|-----|
| 1455-KLS M 10 | 1455-KL, 4; 5; 5,5; 6; 7; 8; 9; 10; 11; 13 mm                              | 414 | 210 |
| 1455-KLS A 11 | 1455-KL, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16 AF | 414 | 240 |
| 1455-KLS B 9  | 1455-KL, 10; 8; 6; 5; 4; 3; 2; 1; 0 BA                                     | 414 | 185 |
| 1455-KL       | socket rail only                                                           | 414 | 67  |

### 1455-T Extra Deep Hexagon Sockets

1/4"



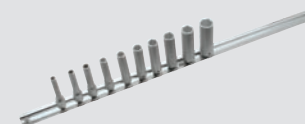
| Application | for outside hexagon bolts, especially suitable for nuts on long threaded bolts and for deep lying nuts and bolts |
|-------------|------------------------------------------------------------------------------------------------------------------|
|-------------|------------------------------------------------------------------------------------------------------------------|

| Type     | extra deep                           |
|----------|--------------------------------------|
| Standard | sizes according to DIN 3124/ISO 2725 |

| Stock-No.  | mm | mm | g  |
|------------|----|----|----|
| 1455-T 4   | 50 | 6  | 14 |
| 1455-T 4,5 | 50 | 6  | 14 |
| 1455-T 5   | 50 | 6  | 15 |
| 1455-T 5,5 | 50 | 6  | 16 |
| 1455-T 6   | 50 | 6  | 17 |
| 1455-T 7   | 50 | 6  | 22 |
| 1455-T 8   | 50 | 6  | 25 |
| 1455-T 9   | 50 | 6  | 29 |
| 1455-T 10  | 50 | 6  | 33 |
| 1455-T 11  | 50 | 6  | 46 |
| 1455-T 12  | 50 | 6  | 51 |
| 1455-T 13  | 50 | 6  | 55 |
| 1455-T 14  | 50 | 6  | 72 |

### 1455-TKLS Hexagon Sockets on Socket Rail

1/4"



| Application | for fitting in tool trolleys or on tool bars |
|-------------|----------------------------------------------|
|-------------|----------------------------------------------|

| Type | with 14 socket clips, made from metal, socket rail chrome-plated, polished |
|------|----------------------------------------------------------------------------|
|------|----------------------------------------------------------------------------|

| Stock-No.    | Contents                                      | mm  | g   |
|--------------|-----------------------------------------------|-----|-----|
| 1455-TKLS 10 | 1455-KL, 4; 5; 5,5; 6; 7; 8; 9; 10; 11; 13 mm | 414 | 340 |
| 1455-KL      | socket rail only                              | 414 | 67  |

### 1455-TXE Sockets

1/4"



| Application | for outside TORX screws |
|-------------|-------------------------|
|-------------|-------------------------|

| Stock-No.   | mm   | mm | mm | g  |
|-------------|------|----|----|----|
| 1455-TXE 4  | 3,86 | 25 | 12 | 12 |
| 1455-TXE 5  | 4,75 | 25 | 12 | 12 |
| 1455-TXE 6  | 5,74 | 25 | 12 | 14 |
| 1455-TXE 7  | 6,22 | 25 | 12 | 14 |
| 1455-TXE 8  | 7,52 | 25 | 12 | 15 |
| 1455-TXE 10 | 9,42 | 25 | 12 | 18 |
| 1455-TXE 11 | 9,98 | 25 | 12 | 18 |

### 1455-IN Screwdriver Sockets

1/4"



| Application | for inside hexagon screws   |
|-------------|-----------------------------|
| Type        | with black point tip        |
| Standard    | sizes according to DIN 7422 |

| Stock-No.   | mm | mm | g  |
|-------------|----|----|----|
| 1455-IN 2,5 | 25 | 12 | 10 |
| 1455-IN 3   | 25 | 12 | 10 |
| 1455-IN 4   | 25 | 12 | 10 |
| 1455-IN 5   | 25 | 12 | 11 |
| 1455-IN 6   | 25 | 12 | 11 |
| 1455-IN 7   | 25 | 12 | 12 |
| 1455-IN 8   | 25 | 12 | 14 |

| Stock-No.    | mm | mm | g  |
|--------------|----|----|----|
| 1455-IN 1/8  | 25 | 12 | 10 |
| 1455-IN 5/32 | 25 | 12 | 10 |
| 1455-IN 3/16 | 25 | 12 | 11 |
| 1455-IN 7/32 | 25 | 12 | 11 |
| 1455-IN 1/4  | 25 | 12 | 11 |
| 1455-IN 5/16 | 25 | 12 | 14 |

# SOCKETS, SOCKET PARTS, SOCKET AND SPANNER SETS 1/4"

## 1455-IS Screwdriver Sockets

1/4"



| Application | for plain slot screws                |    |    |    |
|-------------|--------------------------------------|----|----|----|
| Type        | with black point tip                 |    |    |    |
| Standard    | tip according to DIN 5264/ISO 2380-1 |    |    |    |
| Stock-No.   | tip size                             | mm | g  |    |
| 1455-IS 4   | 0,8 x 4,0                            | 25 | 12 | 10 |
| 1455-IS 5,5 | 1,0 x 5,5                            | 25 | 12 | 11 |
| 1455-IS 6,5 | 1,2 x 6,5                            | 25 | 12 | 11 |
| 1455-IS 8   | 1,6 x 8,0                            | 25 | 12 | 11 |

## 1455-PH Screwdriver Sockets

1/4"



| Application | for cross slot screws Phillips-Recess |    |    |  |
|-------------|---------------------------------------|----|----|--|
| Type        | with black point tip                  |    |    |  |
| Standard    | tip according to DIN 5260, form PH    |    |    |  |
| Stock-No.   | mm                                    | g  |    |  |
| 1455-PH 1   | 28                                    | 12 | 11 |  |
| 1455-PH 2   | 28                                    | 12 | 11 |  |
| 1455-PH 3   | 28                                    | 12 | 12 |  |
| 1455-PH 4   | 28                                    | 12 | 13 |  |

## 1455-PZ Screwdriver Sockets

1/4"



| Application | for cross slot screws Supa-Pozidriv |    |    |  |
|-------------|-------------------------------------|----|----|--|
| Type        | with black point tip                |    |    |  |
| Standard    | tip according to DIN 5260, form PZ  |    |    |  |
| Stock-No.   | mm                                  | g  |    |  |
| 1455-PZ 1   | 28                                  | 12 | 10 |  |
| 1455-PZ 2   | 28                                  | 12 | 11 |  |
| 1455-PZ 3   | 28                                  | 12 | 12 |  |

## MS-50 Module



| Application | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |     |  |  |
|-------------|------------------------------------------------------------------------------------------------------|-----|--|--|
| Type        | Black, with transparent cover                                                                        |     |  |  |
| Material    | ABS                                                                                                  |     |  |  |
| Stock-No.   | Contents                                                                                             | g   |  |  |
| MS-50       | 1                                                                                                    | 950 |  |  |
| 1450-1D     | Reversible ratchet                                                                                   |     |  |  |
| 1455-       | Hexagon sockets                                                                                      |     |  |  |
|             | 4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm                                                    |     |  |  |
| 1455-IN     | Hexagon sockets                                                                                      |     |  |  |
|             | 3, 4, 5, 6, 8 mm                                                                                     |     |  |  |
| 1455-TXE    | TORX-Sockets                                                                                         |     |  |  |
|             | 4, 5, 6, 7, 8, 10, 11                                                                                |     |  |  |
| 3243-TX     | TORX-Sockets                                                                                         |     |  |  |
|             | 8, 9, 10, 15, 20, 25, 27, 30, 40                                                                     |     |  |  |
| 1450-3      | Spinner handle 150 mm                                                                                |     |  |  |
| 1450-4      | Sliding T-bar 115 mm                                                                                 |     |  |  |
| 1450-11     | Extension bar 50 mm                                                                                  |     |  |  |
| 1450-5      | Extension bar 100 mm                                                                                 |     |  |  |
| 1450-12     | Extension bar 150 mm                                                                                 |     |  |  |
| 1450-8      | Universal joint 45 mm                                                                                |     |  |  |

## 3243-TX Screwdriver Sockets

1/4"



| Application | for inside TORX screws |    |   |    |
|-------------|------------------------|----|---|----|
| Type        | with black point tip   |    |   |    |
| Stock-No.   | mm                     | mm | g |    |
| 3243-TX 8   | 2,31                   | 28 | 6 | 7  |
| 3243-TX 9   | 2,50                   | 28 | 6 | 7  |
| 3243-TX 10  | 2,74                   | 28 | 6 | 8  |
| 3243-TX 15  | 3,27                   | 28 | 6 | 8  |
| 3243-TX 20  | 3,86                   | 28 | 6 | 8  |
| 3243-TX 25  | 4,43                   | 28 | 6 | 8  |
| 3243-TX 27  | 4,99                   | 28 | 6 | 9  |
| 3243-TX 30  | 5,52                   | 28 | 6 | 9  |
| 3243-TX 40  | 6,65                   | 28 | 6 | 10 |

## 3243-TTX Screwdriver Sockets

1/4"



| Application | for inside TORX safety screws  |    |   |    |
|-------------|--------------------------------|----|---|----|
| Type        | with black point tip with bore |    |   |    |
| Stock-No.   | mm                             | mm | g |    |
| 3243-TTX 8  | 2,31                           | 28 | 6 | 7  |
| 3243-TTX 9  | 2,50                           | 28 | 6 | 7  |
| 3243-TTX 10 | 2,74                           | 28 | 6 | 8  |
| 3243-TTX 15 | 3,27                           | 28 | 6 | 8  |
| 3243-TTX 20 | 3,86                           | 28 | 6 | 8  |
| 3243-TTX 25 | 4,43                           | 28 | 6 | 8  |
| 3243-TTX 27 | 4,99                           | 28 | 6 | 9  |
| 3243-TTX 30 | 5,52                           | 28 | 6 | 9  |
| 3243-TTX 40 | 6,65                           | 28 | 6 | 10 |

## Socket Parts and Accessories

- Application: for sockets with 1/4" square drive according to DIN 3120/ISO 1174, with spring loaded balls, for manual drive
- Type: chrome-plated
- Material: Chrome-Vanadium 31 CrV 3, Code No. 1.2208

## 1450-1F Reversible Ratchet

1/4"



| Application | With safety locking mechanism for fixing of sockets; with button for quick release and change of sockets |   |    |
|-------------|----------------------------------------------------------------------------------------------------------|---|----|
| Type        | with forged gear rim and plastic handle                                                                  |   |    |
| Standard    | according to DIN 3122, form D/ISO 3315, with male coupler square                                         |   |    |
| Stock-No.   | mm                                                                                                       | g |    |
| 1450-1F     | 145                                                                                                      | 1 | 90 |

## 1450-E1F Repair Kit

1/4"



|             |                                          |    |  |
|-------------|------------------------------------------|----|--|
| Application | for reversible ratchet Stock-No. 1450-1F |    |  |
| Stock-No.   |                                          | g  |  |
| 1450-E1F    | 1                                        | 20 |  |

## 1450-1D Reversible Ratchet

1/4"



| Type      | with forged gear rim and plastic handle                                     |   |    |
|-----------|-----------------------------------------------------------------------------|---|----|
| Standard  | according to DIN 3122, form D/ISO 3315, with male and female coupler square |   |    |
| Stock-No. | mm                                                                          | g |    |
| 1450-1D   | 145                                                                         | 1 | 96 |

## 1450-E1D Repair Kit

1/4"



|             |                                          |    |  |
|-------------|------------------------------------------|----|--|
| Application | for reversible ratchet Stock-No. 1450-1D |    |  |
| Stock-No.   |                                          | g  |  |
| 1450-E1D    | 1                                        | 20 |  |



## 1450-1DM Reversible Ratchet

|                                                                                                   |                                                                                |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <div>1/4"</div>  |                                                                                |
| Application                                                                                       | for use with 1/4" sockets and for taking 1/4" bits                             |
| Type                                                                                              | with forged gear rim and plastic handle with permanent magnetic female coupler |
| Standard                                                                                          | according to DIN 3122, form D/ISO 3315, with male and female coupler square    |
| Stock-No.                                                                                         | <div>mm</div> <div>g</div>                                                     |
| 1450-1DM                                                                                          | 145 1 95                                                                       |

## 1450-E1DM Repair Kit

|                                                                                                   |                                           |
|---------------------------------------------------------------------------------------------------|-------------------------------------------|
| <div>1/4"</div>  |                                           |
| Application                                                                                       | for reversible ratchet Stock-No. 1450-1DM |
| Stock-No.                                                                                         | <div>mm</div> <div>g</div>                |
| 1450-E1DM                                                                                         | 1 20                                      |

## 1450-1UN Fine Tooth Ratchet

|                                                                                                     |                                                     |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <div>1/4"</div>  |                                                     |
| Type                                                                                                | with plastic handle and metal lever wheel, 72 teeth |
| Standard                                                                                            | according to DIN 3122, Form D / ISO 3315            |
| Stock-No.                                                                                           | <div>mm</div> <div>g</div>                          |
| 1450-1UN                                                                                            | 145 1 105                                           |

## 1450-E1UN Repair Kit

|                                                                                                     |                                           |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------|
| <div>1/4"</div>  |                                           |
| Application                                                                                         | for Fine Tooth Ratchet Stock-No. 1450-1UN |
| Stock-No.                                                                                           | <div>mm</div> <div>g</div>                |
| 1450-E1UN                                                                                           | 1 35                                      |

## 1450-2ZI Push Through Ratchet

|                                                                                                     |                                        |
|-----------------------------------------------------------------------------------------------------|----------------------------------------|
| <div>1/4"</div>  |                                        |
| Type                                                                                                | with plastic handle                    |
| Standard                                                                                            | according to DIN 3122, form C/ISO 3315 |
| Stock-No.                                                                                           | <div>mm</div> <div>g</div>             |
| 1450-2ZI                                                                                            | 140 1 62                               |

## 1450-E2ZI Repair Kit

|                                                                                                   |                                             |
|---------------------------------------------------------------------------------------------------|---------------------------------------------|
| <div>1/4"</div>  |                                             |
| Application                                                                                       | for push through ratchet Stock-No. 1450-2ZI |
| Stock-No.                                                                                         | <div>mm</div> <div>g</div>                  |
| 1450-E2ZI                                                                                         | 1 20                                        |

## 1450-2V Coupler Square

|                                                                                                   |                                                                                                                                         |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <div>1/4"</div>  |                                                                                                                                         |
| Application                                                                                       | for push through ratchet Stock-No. 1450-2ZI and for coupling sockets to the female square drive of reversible ratchet Stock-No. 1450-1D |
| Standard                                                                                          | according to DIN 3122, form CV/ISO 3315                                                                                                 |
| Stock-No.                                                                                         | <div>mm</div> <div>g</div>                                                                                                              |
| 1450-2V                                                                                           | 21 1 8                                                                                                                                  |

## 1450-11/5/12 Extension Bar

|                                                                                                      |                                        |
|------------------------------------------------------------------------------------------------------|----------------------------------------|
| <div>1/4"</div>  |                                        |
| Standard                                                                                             | according to DIN 3123, form B/ISO 3316 |
| Stock-No.                                                                                            | <div>mm</div> <div>g</div>             |
| 1450-11                                                                                              | 50 6 24                                |
| 1450-5                                                                                               | 100 6 42                               |
| 1450-12                                                                                              | 150 6 64                               |

## 1450-6 Flexible Extension Bar

|                                                                                                      |                                                        |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| <div>1/4"</div>  |                                                        |
| Application                                                                                          | not designed for final tightening or initial loosening |
| Stock-No.                                                                                            | <div>mm</div> <div>g</div>                             |
| 1450-6                                                                                               | 125 6 50                                               |

## 1450-3 Spinner Handle

|                                                                                                      |                                |
|------------------------------------------------------------------------------------------------------|--------------------------------|
| <div>1/4"</div>  |                                |
| Type                                                                                                 | with QUATROLIT® plastic handle |
| Standard                                                                                             | according to DIN 3123, form E  |
| Stock-No.                                                                                            | <div>mm</div> <div>g</div>     |
| 1450-3                                                                                               | 150 6 92                       |

## 1450-4 Sliding T-Bar

|                                                                                                     |                                        |
|-----------------------------------------------------------------------------------------------------|----------------------------------------|
| <div>1/4"</div>  |                                        |
| Standard                                                                                            | according to DIN 3122, form A/ISO 3315 |
| Stock-No.                                                                                           | <div>mm</div> <div>g</div>             |
| 1450-4                                                                                              | 115 6 48                               |

## 1450-7 Flexible Handle

|                                                                                                     |                                        |
|-----------------------------------------------------------------------------------------------------|----------------------------------------|
| <div>1/4"</div>  |                                        |
| Standard                                                                                            | according to DIN 3122, form F/ISO 3315 |
| Stock-No.                                                                                           | <div>mm</div> <div>g</div>             |
| 1450-7                                                                                              | 150 6 96                               |

## 1450-8 Universal Joint

|                                                                                                      |                                            |
|------------------------------------------------------------------------------------------------------|--------------------------------------------|
| <div>1/4"</div>  |                                            |
| Standard                                                                                             | according to DIN 3123, form C/ISO 3316     |
| Stock-No.                                                                                            | <div>mm</div> <div>Stk.</div> <div>g</div> |
| 1450-8                                                                                               | 45 6 25                                    |

## 1450 Socket Converter

|                                                                                                       |                                                              |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| <div>1/4"</div>  |                                                              |
| Standard                                                                                              | according to DIN 3123, form A/ISO 3316                       |
| Stock-No.                                                                                             | <div>male</div> <div>female</div> <div>mm</div> <div>g</div> |
| 1450-13                                                                                               | 9/32 1/4 26 6 11                                             |
| 1450-14                                                                                               | 1/4 9/32 26 6 14                                             |
| 1450-15                                                                                               | 3/8 1/4 26 6 16                                              |
| 870-10                                                                                                | 1/4 3/8 39 6 34                                              |

## 1450-16 Socket Converter

|                                                                                                       |                                                                |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <div>1/4"</div>  |                                                                |
| Application                                                                                           | for adaptation of 1/4" bits                                    |
| Standard                                                                                              | according to DIN 3123, form A/ISO 3316                         |
| Stock-No.                                                                                             | <div>female</div> <div>female</div> <div>mm</div> <div>g</div> |
| 1450-16                                                                                               | 1/4 1/4 25 6 12                                                |

## Socket Sets

- Sockets with 1/4" square drive according to DIN 3120/ISO 1174, DIN 3124/ISO 2725
- Socket parts with 1/4" square drive according to DIN 3122/ISO 3315, DIN 3123/ISO 3316
- Type: in black metal storage case with plastic insert

| 1400 Socket Sets |         |                                                  |                                  |   |     |
|------------------|---------|--------------------------------------------------|----------------------------------|---|-----|
| Stock-No.        | Sockets |                                                  | Accessories                      |   | g   |
| 1400-M           |         | 4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11 mm            | <br>1450-3                       | 1 | 540 |
| 1400-A           |         | 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16 AF | <br>1450-4<br><br>1450-5, 100 mm | 1 | 515 |

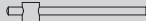
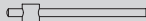
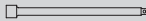
1/4"



| 1425 Socket Sets        |              |                                                  |                    |   |     |
|-------------------------|--------------|--------------------------------------------------|--------------------|---|-----|
| Stock-No.               | Ratchet      | Sockets                                          | Accessories        |   | g   |
| 1425-MU                 | <br>1450-1D  | 4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11 mm            | <br>1450-3         | 1 | 700 |
| 1425-MUN<br><i>New!</i> | <br>1450-1UN |                                                  | <br>1450-4         | 1 | 670 |
| 1425-AU                 | <br>1450-1D  | 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16 AF | <br>1450-5, 100 mm | 1 | 680 |
| 1425-AUN<br><i>New!</i> | <br>1450-1UN |                                                  |                    | 1 | 650 |

1/4"



| 1430 Socket Sets         |                                                                                                 |                                                                                               |                                                                                                        |                                                                                     |                                                                                          |
|--------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Stock-No.                | Ratchet                                                                                         | Sockets                                                                                       | Accessories                                                                                            |  | <br>g |
| 1430-MF                  | <br>1450-1F  | ○ 4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11; 13 mm                                                   | <br>1450-3          | 1                                                                                   | 730                                                                                      |
| 1430-MU                  | <br>1450-1D  |                                                                                               | <br>1450-4          | 1                                                                                   | 730                                                                                      |
| 1430-MUN<br><i>New!</i>  | <br>1450-1UN |                                                                                               | <br>1450-5, 100 mm  | 1                                                                                   | 700                                                                                      |
| 1430-AU                  | <br>1450-1D  | ○ 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2 AF                                       | <br>1450-8          | 1                                                                                   | 710                                                                                      |
| 1430-AUN<br><i>New!</i>  | <br>1450-1UN |                                                                                               |                                                                                                        | 1                                                                                   | 680                                                                                      |
| 1430-MUV                 | <br>1450-1D  | ○ 3,5; 4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11; 12; 13 mm                                          | <br>1450-3          | 1                                                                                   | 760                                                                                      |
| 1430-MUNV<br><i>New!</i> | <br>1450-1UN |                                                                                               | <br>1450-4          | 1                                                                                   | 730                                                                                      |
|                          |                                                                                                 | <br>1450-8 |                                                                                                        |                                                                                     |                                                                                          |
|                          |                                                                                                 |                                                                                               | <br>1450-12, 150 mm |                                                                                     |                                                                                          |



1/4"

1/4"



# SOCKETS, SOCKET PARTS, SOCKET AND SPANNER SETS 1/4"



## 1430-TX/TTX Socket Sets

| Stock-No.                 | Ratchet  | Sockets                              | Accessories    | g     |
|---------------------------|----------|--------------------------------------|----------------|-------|
| 1430-TXU                  | 1450-1D  | TX 8, 9, 10, 15, 20, 25, 27, 30, 40  | 1450-3         | 1 700 |
| 1430-TXUN<br><i>New!</i>  | 1450-1UN |                                      | 1450-4         | 1 710 |
| 1430-TTXU                 | 1450-1D  | TTX 8, 9, 10, 15, 20, 25, 27, 30, 40 | 1450-5, 100 mm | 1 680 |
| 1430-TTXUN<br><i>New!</i> | 1450-1UN |                                      | 1450-8         | 1 690 |

1/4"



## 1430-TXE/TTXE Socket Sets

| Stock-No.                 | Ratchet  | Sockets                              | Accessories    | g     |
|---------------------------|----------|--------------------------------------|----------------|-------|
| 1430-TXEU                 | 1450-1D  | TXE 4, 5, 6, 7, 8, 10, 11            | 1450-3         | 1 780 |
| 1430-TXEU<br><i>New!</i>  | 1450-1UN | TX 8, 9, 10, 15, 20, 25, 27, 30, 40  | 1450-4         | 1 790 |
| 1430-TTXEU                | 1450-1D  | TXE 4, 5, 6, 7, 8, 10, 11            | 1450-5, 100 mm | 1 760 |
| 1430-TTXEU<br><i>New!</i> | 1450-1UN | TTX 8, 9, 10, 15, 20, 25, 27, 30, 40 | 1450-8         | 1 770 |

1/4"



## 1400-I Socket Sets

| Stock-No.                | Ratchet  | Sockets                                               | Accessories    | g     |
|--------------------------|----------|-------------------------------------------------------|----------------|-------|
| 1400-IMU                 | 1450-1D  | 4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11; 13 mm             | 1450-3         | 1 830 |
| 1400-IMUN<br><i>New!</i> | 1450-1UN | IN 3, 4, 5, 6, 8 mm                                   | 1450-4         | 1 840 |
| 1400-IAU                 | 1450-1D  | 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2 AF | 1450-5, 100 mm | 1 840 |
| 1400-IAUN<br><i>New!</i> | 1450-1UN | IN 1/8, 5/32, 3/16, 7/32, 1/4, 5/16 AF                | 1450-8         | 1 850 |

1/4"



## 1440 Socket Sets

| Stock-No.               | Ratchet  | Sockets                                                           | Accessories                                         | g      |
|-------------------------|----------|-------------------------------------------------------------------|-----------------------------------------------------|--------|
| 1440-MU                 | 1450-1D  | 4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11;12; 13; 14 mm                  | 1450-3                                              | 1 1400 |
| 1440-MUN<br><i>New!</i> | 1450-1UN | IS 4; 5,5; 6,5 mm                                                 | 1450-4                                              | 1 1410 |
| 1440-AU                 | 1450-1D  | 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16 AF | 1450-11, 50 mm<br>1450-5, 100 mm<br>1450-12, 150 mm | 1 1150 |
| 1440-AUN<br><i>New!</i> | 1450-1UN | IS 4; 5,5; 6,5 mm                                                 | 1450-8                                              | 1 1160 |

1/4"



## 714-6MU Socket Set 1/2" and 1/4"

| Stock-No. | Ratchet     | Sockets                                  | Accessories                                            |   | g    |
|-----------|-------------|------------------------------------------|--------------------------------------------------------|---|------|
| 714-6MU   | <br>1450-1D | <br>○ 5,5; 6; 7; 8; 9; 10; 11; 12; 13 mm | <br>1450-3<br><br>1450-5, 100 mm<br><br>1450-8         | 1 | 3600 |
|           | <br>770-L1D | <br>○ 10, 13, 15, 17, 19, 22, 24, 27 mm  | <br>770-L5, 125 mm<br><br>770-L6, 250 mm<br><br>770-L7 |   |      |



1/4"

1/2"

## 1460 Sockets and Socket Parts Dispenser

| Type      | in heavy duty metal storage case                    |    |      |  |
|-----------|-----------------------------------------------------|----|------|--|
| Stock-No. | Contents                                            |    | kg   |  |
| 1460      | ○ 4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm | 12 | 11,7 |  |
|           | ● IN 3; 4; 5; 6; 8 mm                               | 12 |      |  |
|           | ⊖ IS 4; 5,5; 6,5 mm                                 | 12 |      |  |
|           | ⊕ PH 1; 2; 3                                        | 12 |      |  |
|           | ⊕ PZ 1; 2; 3                                        | 12 |      |  |
|           | ⊗ TX 9; 10; 15; 20; 25; 27; 30; 40                  | 12 |      |  |
|           | 1450-1D Reversible ratchet                          | 5  |      |  |
|           | 1450-1UN Fine Tooth Ratchet                         | 5  |      |  |
|           | 1450-3 Spinner Handle                               | 5  |      |  |
|           | 1450-4 Sliding T-bar                                | 5  |      |  |
|           | 1450-5 Extension bar 100 mm                         | 5  |      |  |
|           | 1450-11 Extension Bar 50mm                          | 5  |      |  |
|           | 1450-8 Universal joint                              | 5  |      |  |
|           | 1450-16 Socket converter ○ 1/4 × ○ 1/4              | 12 |      |  |



1/4"



## Hexagon and Bi-Hexagon Sockets

- Type: knurled, chrome-plated, polished
- Material: Chrome-Vanadium 31 CrV 3, Code No. 1.2208
- Standard: 3/8"-square drive according to DIN 3120/ISO 1174, for manual drive, with rills, sizes according to DIN 3124/ISO 2725

## 870/871 Hexagon and Bi-Hexagon Sockets

3/8"



Application for outside hexagon bolts

Type 870: bi-hexagon, 871: hexagon

| Stock-No. | Stock-No. | mm   |   | g  |
|-----------|-----------|------|---|----|
| ○         | ○         | mm   |   | g  |
| 870- 6    | 871- 6    | 25,0 | 6 | 24 |
| 870- 7    | 871- 7    | 25,0 | 6 | 24 |
| 870- 8    | 871- 8    | 25,0 | 6 | 24 |
| 870- 9    | 871- 9    | 25,0 | 6 | 26 |
| 870-10    | 871-10    | 25,0 | 6 | 26 |
| 870-11    | 871-11    | 25,0 | 6 | 26 |
| 870-12    | 871-12    | 25,0 | 6 | 26 |
| 870-13    | 871-13    | 25,0 | 6 | 28 |
| 870-14    | 871-14    | 25,0 | 6 | 28 |
| 870-15    | 871-15    | 25,0 | 6 | 30 |
| 870-16    | 871-16    | 25,0 | 6 | 30 |
| 870-17    | 871-17    | 26,0 | 6 | 38 |
| 870-18    | 871-18    | 27,0 | 6 | 38 |
| 870-19    | 871-19    | 28,0 | 6 | 38 |
| 870-20    | 871-20    | 28,0 | 6 | 46 |
| 870-21    | 871-21    | 28,5 | 6 | 52 |
| 870-22    | 871-22    | 28,5 | 6 | 60 |
| 870-24    | 871-24    | 28,5 | 6 | 68 |

| Stock-No.   | Stock-No.  | mm |   | g  |
|-------------|------------|----|---|----|
| ○           | ○          | mm |   | g  |
|             | 871-A 1/4  | 25 | 6 | 24 |
|             | 871-A 5/16 | 25 | 6 | 24 |
| 870-A 3/8   |            | 25 | 6 | 26 |
| 870-A 7/16  |            | 25 | 6 | 26 |
| 870-A 1/2   |            | 25 | 6 | 26 |
| 870-A 9/16  |            | 25 | 6 | 26 |
| 870-A 19/32 |            | 25 | 6 | 30 |
| 870-A 5/8   |            | 25 | 6 | 32 |
| 870-A 11/16 |            | 26 | 6 | 40 |
| 870-A 3/4   |            | 28 | 6 | 46 |
| 870-A 25/32 |            | 28 | 6 | 46 |
| 870-A 13/16 |            | 29 | 6 | 48 |
| 870-A 7/8   |            | 29 | 6 | 52 |

| Stock-No.  | Stock-No. | mm   |   | g  |
|------------|-----------|------|---|----|
| ○          | ○         | mm   |   | g  |
|            | 871-W 1/8 | 25,0 | 6 | 26 |
| 870-W 3/16 |           | 25,0 | 6 | 26 |
| 870-W 1/4  |           | 25,0 | 6 | 26 |
| 870-W 5/16 |           | 25,0 | 6 | 30 |
| 870-W 3/8  |           | 27,0 | 6 | 34 |
| 870-W 7/16 |           | 28,5 | 6 | 48 |
| 870-W 1/2  |           | 28,5 | 6 | 60 |

| Stock-No. | Stock-No. | mm   |   | g  |
|-----------|-----------|------|---|----|
| ○         | ○         | mm   |   | g  |
|           | 871-BA 4  | 25,0 | 6 | 24 |
|           | 871-BA 2  | 25,0 | 6 | 24 |
|           | 871-BA 0  | 25,0 | 6 | 25 |

## 870/871-KLS Sockets on Socket Rail

3/8"



Application for fitting in tool trolleys or on tool bars

Type with 14 socket clips, made from metal, socket rail chrome-plated, polished, 870: sockets bi-hexagon pattern, 871: sockets hexagon pattern

| Stock-No.   | Stock-No.   | Contents                                                                              | mm  | g   |
|-------------|-------------|---------------------------------------------------------------------------------------|-----|-----|
| ○           | ○           |                                                                                       | mm  | g   |
| 870-KLSM 10 |             | 870-KL socket rail 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 mm                          | 414 | 394 |
|             | 871-KLSM 10 | 870-KL socket rail 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 mm                          | 414 | 400 |
| 870-KLSA 11 |             | 870-KL socket rail 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8 AF | 414 | 480 |
| 870-KL      |             | socket rail only                                                                      | 414 | 72  |

## 870-TXE Sockets

3/8"



Application for outside TORX screws

| Stock-No.  | mm    | mm |   | g  |
|------------|-------|----|---|----|
| ○          | mm    | mm |   | g  |
| 870-TXE 5  | 4,72  | 31 | 6 | 36 |
| 870-TXE 6  | 5,74  | 31 | 6 | 37 |
| 870-TXE 7  | 6,22  | 31 | 6 | 37 |
| 870-TXE 8  | 7,52  | 31 | 6 | 37 |
| 870-TXE 10 | 9,42  | 31 | 6 | 40 |
| 870-TXE 11 | 9,98  | 31 | 6 | 40 |
| 870-TXE 12 | 11,17 | 31 | 6 | 40 |
| 870-TXE 14 | 12,85 | 31 | 6 | 44 |

## 870-T Extra Deep Bi-Hexagon Sockets

3/8"



Application for outside hexagon bolts, especially suitable for nuts on long threaded bolts and for deep lying nuts and bolts

Type bi-hexagon pattern, extra deep

| Stock-No. | mm |   | g   |
|-----------|----|---|-----|
| ○         | mm |   | g   |
| 870-T 10  | 65 | 6 | 45  |
| 870-T 11  | 65 | 6 | 50  |
| 870-T 12  | 65 | 6 | 55  |
| 870-T 13  | 65 | 6 | 60  |
| 870-T 14  | 65 | 6 | 65  |
| 870-T 15  | 65 | 6 | 70  |
| 870-T 16  | 70 | 6 | 80  |
| 870-T 17  | 70 | 6 | 95  |
| 870-T 18  | 70 | 6 | 105 |
| 870-T 19  | 70 | 6 | 108 |
| 870-T 20  | 70 | 6 | 120 |
| 870-T 21  | 70 | 6 | 125 |
| 870-T 22  | 70 | 6 | 128 |

## 870-TKLS Sockets on Socket Rail

3/8"



|              |                                                                                                        |     |     |  |
|--------------|--------------------------------------------------------------------------------------------------------|-----|-----|--|
| Application  | for fitting in tool trolleys or on tool bars                                                           |     |     |  |
| Type         | with 14 socket clips, made from metal, socket rail chrome-plated, polished, sockets bi-hexagon pattern |     |     |  |
| Stock-No.    | Contents                                                                                               | mm  | g   |  |
| 870-TKLSM 10 | 870-KL socket rail<br>10, 11, 12, 13, 14, 15, 16, 17, 18, 19 mm                                        | 414 | 394 |  |
| 870-KL       | socket rail only                                                                                       | 414 | 72  |  |

## Screwdriver Sockets

- Type: knurled, chrome-plated, polished
- Material: Chrome-Vanadium 31 CrV 3, Code No. 1.2208, Bits: Chrome-Vanadium 59 CrV 4, Code No. 1.8159
- Standard: 3/8" square drive according to DIN 3120/ISO 1174, for manual drive, with rills

## 3510-IN Screwdriver Sockets

3/8"



|             |                           |  |  |  |
|-------------|---------------------------|--|--|--|
| Application | for inside hexagon screws |  |  |  |
| Standard    | according to DIN 7422     |  |  |  |

| Stock-No.  | mm  | mm | mm | g  |
|------------|-----|----|----|----|
| 3510-IN 3  | M4  | 44 | 6  | 50 |
| 3510-IN 4  | M5  | 44 | 6  | 50 |
| 3510-IN 5  | M6  | 44 | 6  | 52 |
| 3510-IN 6  | M8  | 44 | 6  | 52 |
| 3510-IN 7  |     | 44 | 6  | 54 |
| 3510-IN 8  | M10 | 44 | 6  | 54 |
| 3510-IN 9  |     | 44 | 6  | 58 |
| 3510-IN 10 | M12 | 44 | 6  | 58 |
| 3510-IN 12 | M14 | 44 | 6  | 58 |

| Stock-No.    | mm | mm | g  |
|--------------|----|----|----|
| 3510-IN 1/8  | 44 | 6  | 48 |
| 3510-IN 5/32 | 44 | 6  | 48 |
| 3510-IN 3/16 | 44 | 6  | 48 |
| 3510-IN 7/32 | 44 | 6  | 48 |
| 3510-IN 1/4  | 44 | 6  | 52 |
| 3510-IN 5/16 | 44 | 6  | 52 |
| 3510-IN 3/8  | 44 | 6  | 58 |

## 871-TZ Extra Deep Hexagon Spark Plug Sockets

3/8"



|            |                                                                                     |    |   |     |
|------------|-------------------------------------------------------------------------------------|----|---|-----|
| Type       | extra deep, with rubber insert and inside hexagon, chrome plated, polished, knurled |    |   |     |
| Stock-No.  | mm                                                                                  | mm | g |     |
| 871TZ-16   | M10                                                                                 | 70 | 6 | 106 |
| 871TZ-18   | M12                                                                                 | 70 | 6 | 115 |
| 871TZ-20,8 | M14                                                                                 | 70 | 6 | 124 |

## 871-TMG Extra Deep Magnetic Spark Plug Socket

3/8"



|             |                                                                                               |    |   |     |
|-------------|-----------------------------------------------------------------------------------------------|----|---|-----|
| Type        | extra deep, with strong permanent magnet and inside hexagon, chrome plated, polished, knurled |    |   |     |
| Stock-No.   | mm                                                                                            | mm | g |     |
| 871TMG-16   | M10                                                                                           | 70 | 6 | 106 |
| 871TMG-18   | M12                                                                                           | 70 | 6 | 115 |
| 871TMG-20,8 | M14                                                                                           | 70 | 6 | 124 |

## MS-55 Module

3/8"



**New!**

|             |                                                                                                                                     |   |     |  |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------|---|-----|--|
| Application | For roller tool cabinet CADDY, Stock.-No. 1200, BUDDY, Stock.-No. 1210 and SUPER-CADDY, Stock.-No. 1220                             |   |     |  |
| Type        | Black, with transparent cover                                                                                                       |   |     |  |
| Material    | ABS                                                                                                                                 |   |     |  |
| Stock-No.   | Contents                                                                                                                            | g |     |  |
| MS-55       | Screwdriver Sockets<br>3510-IN 3; 4; 5; 6; 7; 8; 10; 12 mm<br>Torx-Screwdriver Sockets<br>3244-TX 15; 20; 25; 27; 30; 40; 45; 50 TX | 1 | 957 |  |

## 3510-INL Screwdriver Sockets

3/8"



|             |                           |  |  |  |
|-------------|---------------------------|--|--|--|
| Application | for inside hexagon screws |  |  |  |
| Type        | extra long                |  |  |  |
| Standard    | according to DIN 7422     |  |  |  |

| Stock-No.       | mm  | mm  | mm | g   |
|-----------------|-----|-----|----|-----|
| 3510-INL 4x100  | M5  | 100 | 6  | 70  |
| 3510-INL 5x100  | M6  | 100 | 6  | 72  |
| 3510-INL 5x180  | M6  | 180 | 6  | 108 |
| 3510-INL 6x100  | M8  | 100 | 6  | 77  |
| 3510-INL 6x220  | M8  | 220 | 6  | 122 |
| 3510-INL 8x100  | M10 | 100 | 6  | 74  |
| 3510-INL 10x130 | M12 | 130 | 6  | 116 |

## 3500-IS Screwdriver Sockets

3/8"



| Application | for plain slot screws                |    |   |    |
|-------------|--------------------------------------|----|---|----|
| Standard    | tip according to DIN 5264/ISO 2380-1 |    |   |    |
| Stock-No.   | tip size                             | mm |   | g  |
| 3500-IS 0,8 | 0,8 × 4,0                            | 52 | 6 | 50 |
| 3500-IS 1,0 | 1,0 × 5,5                            | 52 | 6 | 50 |
| 3500-IS 1,2 | 1,2 × 8,0                            | 52 | 6 | 52 |
| 3500-IS 1,6 | 1,6 × 10,0                           | 52 | 6 | 60 |

## 3520-PH Screwdriver Sockets

3/8"



| Application | for cross slot screws Phillips-Recess |   |    |  |
|-------------|---------------------------------------|---|----|--|
| Standard    | tip according to DIN 5260, form PH    |   |    |  |
| Stock-No.   | mm                                    |   | g  |  |
| 3520-PH 1   | 48                                    | 6 | 52 |  |
| 3520-PH 2   | 48                                    | 6 | 52 |  |
| 3520-PH 3   | 48                                    | 6 | 52 |  |
| 3520-PH 4   | 48                                    | 6 | 52 |  |

## 3525-PZ Screwdriver Sockets

3/8"



| Application | for cross slot screws Supa-Pozidriv |   |    |  |
|-------------|-------------------------------------|---|----|--|
| Standard    | tip according to DIN 5260, form PZ  |   |    |  |
| Stock-No.   | mm                                  |   | g  |  |
| 3525-PZ 1   | 48                                  | 6 | 52 |  |
| 3525-PZ 2   | 48                                  | 6 | 52 |  |
| 3525-PZ 3   | 48                                  | 6 | 52 |  |
| 3525-PZ 4   | 48                                  | 6 | 78 |  |

## 3530-XZN Screwdriver Sockets

3/8"



| Application | for B&S XZN screws |    |   |    |
|-------------|--------------------|----|---|----|
| Stock-No.   | mm                 | mm |   | g  |
| 3530-XZN 5  | M5                 | 44 | 6 | 48 |
| 3530-XZN 6  | M6                 | 44 | 6 | 50 |
| 3530-XZN 8  | M8                 | 45 | 6 | 50 |
| 3530-XZN 10 | M10                | 45 | 6 | 58 |

## 3530-XZNL Screwdriver Sockets

3/8"



| Application     | for B&S XZN screws |    |   |    |
|-----------------|--------------------|----|---|----|
| Type            | extra long         |    |   |    |
| Stock-No.       | mm                 | mm |   | g  |
| 3530-XZNL 8×93  | M8                 | 93 | 6 | 70 |
| 3530-XZNL 10×93 | M10                | 93 | 6 | 92 |

## 3540-RIB Screwdriver Sockets

3/8"



| Application | for RIBE-CV screws |    |   |    |
|-------------|--------------------|----|---|----|
| Stock-No.   | mm                 | mm |   | g  |
| 3540-RIB 5  | M5                 | 55 | 6 | 50 |
| 3540-RIB 6  | M6                 | 55 | 6 | 50 |
| 3540-RIB 8  | M8                 | 55 | 6 | 54 |
| 3540-RIB 10 | M10                | 55 | 6 | 62 |

## 3244-TX Screwdriver Sockets

3/8"



| Application | for inside TORX screws |    |   |    |
|-------------|------------------------|----|---|----|
| Stock-No.   | mm                     | mm |   | g  |
| 3244-TX 9   | 2,50                   | 46 | 6 | 50 |
| 3244-TX 10  | 2,74                   | 46 | 6 | 50 |
| 3244-TX 15  | 3,27                   | 46 | 6 | 52 |
| 3244-TX 20  | 3,86                   | 46 | 6 | 54 |
| 3244-TX 25  | 4,43                   | 46 | 6 | 54 |
| 3244-TX 27  | 4,99                   | 46 | 6 | 54 |
| 3244-TX 30  | 5,52                   | 46 | 6 | 60 |
| 3244-TX 40  | 6,65                   | 46 | 6 | 62 |
| 3244-TX 45  | 7,82                   | 46 | 6 | 65 |
| 3244-TX 50  | 8,83                   | 46 | 6 | 70 |

## 3244-TXL Screwdriver Sockets

3/8"



**New!**

| Application | for Inside TORX screws |     |   |    |
|-------------|------------------------|-----|---|----|
| Type        | extra long             |     |   |    |
| Stock-No.   | mm                     | mm  |   | g  |
| 3244-TXL-45 | 7,82                   | 100 | 6 | 87 |

## 3244-TXKLS Screwdriver Sockets on Socket Rail

3/8"



| Application          | for fitting in tool trolleys or on tool bars                               |     |     |  |
|----------------------|----------------------------------------------------------------------------|-----|-----|--|
| Type                 | with 14 socket clips, made from metal, socket rail chrome-plated, polished |     |     |  |
| Stock-No.            | Contents                                                                   | mm  | g   |  |
| <b>3244-TXKLS 10</b> | 870-KL socket rail<br>TX 9, 10, 15, 20, 25, 27, 30, 40, 45, 50             | 414 | 580 |  |
| <b>870-KL</b>        | socket rail only                                                           | 414 | 72  |  |

## 3244-TTX Screwdriver Sockets

3/8"



| Application        | for inside TORX safety screws |    |   |    |
|--------------------|-------------------------------|----|---|----|
| Type               | with bore in tip              |    |   |    |
| Stock-No.          | mm                            | mm |   | g  |
| <b>3244-TTX 9</b>  | 2,50                          | 46 | 6 | 50 |
| <b>3244-TTX 10</b> | 2,74                          | 46 | 6 | 50 |
| <b>3244-TTX 15</b> | 3,27                          | 46 | 6 | 52 |
| <b>3244-TTX 20</b> | 3,86                          | 46 | 6 | 54 |
| <b>3244-TTX 25</b> | 4,43                          | 46 | 6 | 54 |
| <b>3244-TTX 27</b> | 4,99                          | 46 | 6 | 54 |
| <b>3244-TTX 30</b> | 5,52                          | 46 | 6 | 60 |
| <b>3244-TTX 40</b> | 6,65                          | 46 | 6 | 62 |
| <b>3244-TTX 45</b> | 7,82                          | 46 | 6 | 65 |
| <b>3244-TTX 50</b> | 8,83                          | 46 | 6 | 70 |

## 3244-TTXKLS Screwdriver Sockets on Socket Rail

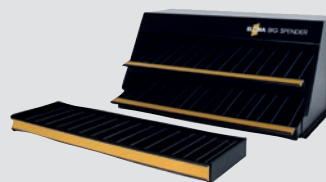
3/8"



| Application           | for fitting in tool trolleys or on tool bars                               |     |     |  |
|-----------------------|----------------------------------------------------------------------------|-----|-----|--|
| Type                  | with 14 socket clips, made from metal, socket rail chrome-plated, polished |     |     |  |
| Stock-No.             | Contents                                                                   | mm  | g   |  |
| <b>3244-TTXKLS 10</b> | 870-KL socket rail<br>TTX 9, 10, 15, 20, 25, 27, 30, 40, 45, 50            | 414 | 575 |  |
| <b>870-KL</b>         | socket rail only                                                           | 414 | 72  |  |

## 770-KS/AS ELORA BIG SPENDER

3/8"



| Type          | BIG SPENDER (KS): empty, with 30 tray dividers<br>pin-up top tray (AS): empty, with 16 tray dividers |     |  |
|---------------|------------------------------------------------------------------------------------------------------|-----|--|
| Stock-No.     | Contents                                                                                             | kg  |  |
| <b>770-KS</b> | empty, with 30 tray dividers                                                                         | 8,5 |  |
| <b>770-AS</b> | empty, with 16 tray dividers                                                                         | 2,0 |  |

## 870/871-AS1M ELORA Pin-Up Top Tray

3/8"

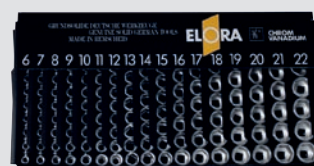


| Type            | black lacquered, with 16 tray dividers, zinc plated, size: 474 × 155 × 36 mm |             |     |
|-----------------|------------------------------------------------------------------------------|-------------|-----|
| Stock-No.       | Contents                                                                     | Pieces each | kg  |
| <b>870-AS1M</b> | 6; 7; 8; 9; 10; 11; 12; 13; 14; 15 mm<br>16; 17; 18; 19 mm<br>20; 21; 22 mm  | 6<br>5<br>4 | 5,5 |
| <b>871-AS1M</b> | 6; 7; 8; 9; 10; 11; 12; 13; 14; 15 mm<br>16; 17; 18; 19 mm<br>20; 21; 22 mm  | 6<br>5<br>4 | 5,5 |

Individual contents on request

## 870/871-SP ELORA Socket Display Dispenser

3/8"



| Application         | for sockets 3/8" square drive                                                                               |                                    |     |
|---------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------|-----|
| Type                | made from heavy gauge steel, black lacquered, size: 425 × 210 × 40 mm                                       |                                    |     |
| Stock-No.           | Contents                                                                                                    | Pieces each                        | kg  |
| <b>870-SPM</b>      | 6; 7; 8; 9 mm<br>10; 11; 12; 13 mm<br>14 mm<br>15; 16 mm<br>17; 18; 19 mm<br>20; 21; 22 mm                  | 10<br>10<br>9<br>8<br>7<br>6       | 6,5 |
| <b>871-SPM</b>      | 6; 7; 8; 9; 10; 11; 12; 13 mm<br>14 mm<br>15; 16 mm<br>17; 18; 19 mm<br>20; 21; 22 mm                       | 10<br>9<br>8<br>7<br>6             | 6,5 |
| <b>870-SPA</b>      | 1/4; 5/16 AF<br>3/8; 7/16; 1/2 AF<br>9/16 AF<br>19/32; 5/8 AF<br>11/16 AF<br>3/4 AF<br>25/32; 13/16; 7/8 AF | 10<br>20<br>9<br>8<br>14<br>7<br>6 | 6,5 |
| <b>870-SP empty</b> |                                                                                                             |                                    | 2,2 |



## Socket parts and Accessories

- Application: for sockets with 3/8" square drive according to DIN 3120/ISO 1174, with spring loaded balls, for manual drive
- Type: chrome-plated
- Material: Chrome-Vanadium 31 CrV 3, Code No. 1.2208

### 870-1F Reversible Ratchet

3/8"



|             |                                                                                                                          |   |     |
|-------------|--------------------------------------------------------------------------------------------------------------------------|---|-----|
| Application | with <b>safety locking mechanism</b> for fixing of sockets<br>with <b>button for quick release</b> and change of sockets |   |     |
| Type        | with forged gear rim and plastic handle                                                                                  |   |     |
| Standard    | according to DIN 3122, form D/ISO 3315, with male coupler square                                                         |   |     |
| Stock-No.   | mm                                                                                                                       |   |     |
| 870-1F      | 200                                                                                                                      | 1 | 230 |

### 870-1D Reversible Ratchet

3/8"



|           |                                                                             |   |     |
|-----------|-----------------------------------------------------------------------------|---|-----|
| Type      | with forged gear rim and plastic handle                                     |   |     |
| Standard  | according to DIN 3122, form D/ISO 3315, with male and female coupler square |   |     |
| Stock-No. | mm                                                                          |   |     |
| 870-1D    | 200                                                                         | 1 | 230 |

### 870-1GF Reversible Ratchet with Flexible Head

3/8"



|             |                                                                                                                          |   |     |
|-------------|--------------------------------------------------------------------------------------------------------------------------|---|-----|
| Application | with <b>safety locking mechanism</b> for fixing of sockets<br>with <b>button for quick release</b> and change of sockets |   |     |
| Type        | with flexible head, forged gear rim and plastic handle                                                                   |   |     |
| Stock-No.   | mm                                                                                                                       |   |     |
| 870-1GF     | 290                                                                                                                      | 1 | 640 |

### 870-1G Reversible Ratchet with Flexible Head

3/8"



|           |                                                        |   |     |
|-----------|--------------------------------------------------------|---|-----|
| Type      | with flexible head, forged gear rim and plastic handle |   |     |
| Stock-No. | mm                                                     |   |     |
| 870-1G    | 290                                                    | 1 | 640 |

### 870-1UN Fine Tooth Ratchet

3/8"



|           |                                                     |   |     |
|-----------|-----------------------------------------------------|---|-----|
| Type      | with plastic handle and metal lever wheel, 72 teeth |   |     |
| Standard  | according to DIN 3122, Form D / ISO 3315            |   |     |
| Stock-No. | mm                                                  |   |     |
| 870-1UN   | 195                                                 | 1 | 210 |

### 870-1ZI Push Through Ratchet

3/8"



|           |                                        |   |     |
|-----------|----------------------------------------|---|-----|
| Type      | with plastic handle                    |   |     |
| Standard  | according to DIN 3122, form C/ISO 3315 |   |     |
| Stock-No. | mm                                     |   |     |
| 870-1ZI   | 200                                    | 1 | 215 |

### 870-1A Ratchet Unit

3/8"



|             |                                                                                      |    |   |     |
|-------------|--------------------------------------------------------------------------------------|----|---|-----|
| Application | for left and right hand use, as accessory for socket parts like torque wrenches etc. |    |   |     |
| Type        | with pin to change direction                                                         |    |   |     |
| Standard    | square drive according to DIN 3120/ISO 1174                                          |    |   |     |
| Stock-No.   | male- female-                                                                        | mm |   |     |
| 870-1A      | 3/8"                                                                                 | 49 | 1 | 150 |

### 870-E1D Repair Kit

3/8"



|             |                                                    |    |  |
|-------------|----------------------------------------------------|----|--|
| Application | for reversible ratchet Stock-No. 870-1D and 870-1G |    |  |
| Stock-No.   |                                                    |    |  |
| 870-E1D     | 1                                                  | 60 |  |

### 870-E1UN Repair Kit

3/8"



|             |                                          |    |  |
|-------------|------------------------------------------|----|--|
| Application | for Fine Tooth Ratchet Stock-No. 870-1UN |    |  |
| Stock-No.   |                                          |    |  |
| 870-E1UN    | 1                                        | 50 |  |

# SOCKETS, SOCKET PARTS, SOCKET AND SPANNER SETS 3/8"

## 870-E1F Repair Kit

3/8"



Application for reversible ratchet with safety locking device  
Stock-No. 870-1F and 870-1GF

| Stock-No. | mm | g  |
|-----------|----|----|
| 870-E1F   | 1  | 60 |

## 870-E1ZI Repair Kit

3/8"



Application for push through ratchet Stock-No. 870-1ZI

Type without coupler square Stock-No. 870-1V

| Stock-No. | mm | g    |
|-----------|----|------|
| 870-E1ZI  | —  | 1 70 |

## 870-1V Coupler Square

3/8"



Application for push through ratchet Stock-No. 870-1ZI  
and for coupling sockets to the female square drive  
of reversible ratchet Stock-No. 870-1D and 870-1G

| Stock-No. | mm    | g  |
|-----------|-------|----|
| 870-1V    | 25 12 | 35 |

## 870-2 Speed Brace

3/8"



Type with plastic handle

Standard according to DIN 3122, form B/ISO 3315

| Stock-No. | mm    | g   |
|-----------|-------|-----|
| 870-2     | 345 6 | 345 |

## 870 Extension Bar

3/8"



Standard according to DIN 3123, form B/ISO 3316

| Stock-No. | mm    | g   |
|-----------|-------|-----|
| 870-25    | 35 6  | 42  |
| 870-3     | 75 6  | 68  |
| 870-35    | 125 6 | 104 |
| 870-4     | 150 6 | 124 |
| 870-5     | 200 6 | 170 |
| 870-55    | 250 6 | 200 |
| 870-6     | 300 6 | 240 |
| 870-66    | 500 6 | 390 |

## 870-V Wobble Extension Bar

3/8"



Application allows 8° angular movement to every side

Standard similar to DIN 3123, form B

| Stock-No. | mm    | g   |
|-----------|-------|-----|
| 870-3V    | 75 6  | 68  |
| 870-35V   | 125 6 | 104 |
| 870-4V    | 150 6 | 124 |
| 870-55V   | 250 6 | 200 |

## 870-7 Flexible Handle

3/8"



Type with plastic handle

Standard according to DIN 3122, form F/ISO 3315

| Stock-No. | mm    | g   |
|-----------|-------|-----|
| 870-7     | 250 6 | 240 |

## 870-8 Sliding T-Bar

3/8"



Standard according to DIN 3122, form A/ISO 3315

| Stock-No. | mm    | g   |
|-----------|-------|-----|
| 870-8     | 200 6 | 155 |

## 870-9 Universal Joint

3/8"



Standard according to DIN 3123, form C/ISO 3316

| Stock-No. | mm   | g  |
|-----------|------|----|
| 870-9     | 55 6 | 68 |

## 770/870/1450 Socket Converter

3/8"



Standard according to DIN 3123, form A/ISO 3316

| Stock-No. | male | female | mm | g    |
|-----------|------|--------|----|------|
| 770-L13   | 3/8  | 1/2    | 43 | 6 65 |
| 770-L14   | 1/2  | 3/8    | 43 | 6 60 |
| 870-10    | 1/4  | 3/8    | 39 | 6 34 |
| 1450-15   | 3/8  | 1/4    | 26 | 6 16 |

## 870-11 Screwdriver Socket

3/8"



Application for plain slot screws

| Stock-No. | tip size | mm | g    |
|-----------|----------|----|------|
| 870-11    | 16 x 3,0 | 39 | 6 52 |

## 870-12 Spinner Handle

3/8"



Type with QUATROLIT® plastic handle

Standard according to DIN 3122, form E/ISO 3315

| Stock-No. | mm    | g   |
|-----------|-------|-----|
| 870-12    | 180 6 | 170 |

## MS-56/57 Module

**New!**

3/8"



Application For roller tool cabinet CADDY, Stock-No. 1200, BUDDY,  
Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220

Type Black, with transparent cover

Material ABS

| Stock-No. | Contents                                                                                                                                                                                                            | g      |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| MS-56     | 870-1D Reversible Ratchet<br>871- 6; 7; 8; 9 mm<br>870- 10; 11; 13; 14; 15; 16;<br>17; 18; 19; 21; 22 mm<br>870-3 Extension Bar 75 mm<br>870-4 Extension Bar 150 mm<br>870-8 Sliding T-Bar<br>870-9 Universal Joint | 1 1275 |
| MS-57     | same as MS-56; but all sockets in<br>hexagon pattern                                                                                                                                                                | 1 1275 |

## Socket Sets

- Sockets with 3/8" square drive according to DIN 3120/ISO 1174, DIN 3124/ISO 2725
- Socket parts with 3/8" square drive according to DIN 3122/ISO 3315, DIN 3123/ISO 3316
- Type: in black metal storage case with plastic insert

### 870/871-J Socket Sets

| Stock-No.               | Ratchet     | Sockets                                                                | Accessories       |   | <br>g |
|-------------------------|-------------|------------------------------------------------------------------------|-------------------|---|-------|
| 871-JMF                 | <br>870-1F  | 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 21, 22 mm              | <br>870-4, 150 mm | 1 | 1500  |
| 870-JMU                 |             |                                                                        |                   | 1 | 1500  |
| 871-JMU                 | <br>870-1D  |                                                                        |                   | 1 | 1500  |
| 870-JMUN<br><b>New!</b> |             |                                                                        |                   | 1 | 1480  |
| 871-JMUN<br><b>New!</b> | <br>870-1UN | 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 13/16, 7/8 AF | <br>870-8         | 1 | 1480  |
| 870-JAU                 | <br>870-1D  |                                                                        |                   | 1 | 1450  |
| 870-JAUN<br><b>New!</b> | <br>870-1UN |                                                                        |                   | 1 | 1430  |



3/8"

### 870/871-JS Socket Sets

| Stock-No.               | Ratchet     | Sockets                                                   | Accessories                       |   | <br>g |
|-------------------------|-------------|-----------------------------------------------------------|-----------------------------------|---|-------|
| 870-JSU                 | <br>870-1D  | 6; 7; 8; 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 21, 22 mm | <br>870-3, 75 mm<br>870-4, 150 mm | 1 | 1900  |
| 871-JSU                 |             |                                                           |                                   | 1 | 1900  |
| 870-JSUN<br><b>New!</b> | <br>870-1UN |                                                           | <br>870-8                         | 1 | 1880  |
| 871-JSUN<br><b>New!</b> |             |                                                           |                                   | 1 | 1880  |



3/8"

### 870/871-JD Socket Sets

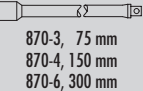
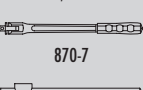
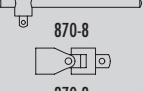
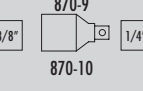
| Stock-No.               | Ratchet     | Sockets                                                           | Accessories                          |   | <br>g |
|-------------------------|-------------|-------------------------------------------------------------------|--------------------------------------|---|-------|
| 870-JDU                 | <br>870-1D  | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 mm | <br>870-2                            | 1 | 3200  |
| 871-JDU                 |             |                                                                   |                                      | 1 | 3200  |
| 870-JDUN<br><b>New!</b> | <br>870-1UN |                                                                   | <br>870-35, 125 mm<br>870-55, 250 mm | 1 | 3180  |
| 871-JDUN<br><b>New!</b> |             |                                                                   |                                      | 1 | 3180  |



3/8"

# SOCKETS, SOCKET PARTS, SOCKET AND SPANNER SETS 3/8"

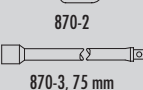
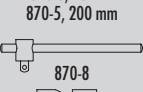
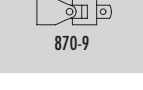
## 870/871-M +870-A Socket Sets

| Stock-No.              | Ratchet                                                                           | Sockets                                                                | Accessories                                                                       | g |      |
|------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---|------|
| 870-MU                 |  |                                                                        |  | 1 | 3900 |
| 871-MU                 |  | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 mm      |  | 1 | 3900 |
| 870-MUN<br><b>New!</b> |  | IS 16×3,0                                                              |  | 1 | 3880 |
| 871-MUN<br><b>New!</b> |  |                                                                        |  | 1 | 3880 |
| 870-AU                 |  | 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 13/16, 7/8 AF |  | 1 | 3400 |
| 870-AUN<br><b>New!</b> |  | IS 16×3,0                                                              |  | 1 | 3880 |



3/8"

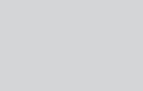
## 870-JC Socket Sets

| Stock-No.               | Ratchet                                                                             | Sockets                                                                       | Accessories                                                                         | g |      |
|-------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|------|
| 870-JCU                 |   | 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 21, 22 mm                     |   | 1 | 4400 |
| 870-JCUN<br><b>New!</b> |  | 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8 AF |  | 1 | 4380 |
|                         |  | 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2 WW                                       |  |   |      |
|                         |  | 0, 2, 4 BA                                                                    |  |   |      |
|                         |  | 20,8 mm (13/16 AF) for 14 mm spark plug                                       |  |   |      |



3/8"

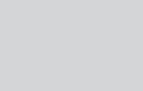
## 870-IN Socket Sets

| Stock-No.                | Ratchet                                                                             | Sockets                                | Accessories                                                                         | g |      |
|--------------------------|-------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------|---|------|
| 870-INMU                 |  |                                        |                                                                                     | 1 | 1170 |
| 870-INMUN<br><b>New!</b> |  | IN 3, 4, 5, 6, 8, 10 mm                |                                                                                     | 1 | 1150 |
| 870-INAU                 |  |                                        |  | 1 | 1150 |
| 870-INAUN<br><b>New!</b> |  | IN 1/8, 5/32, 3/16, 7/32, 1/4, 5/16 AF |                                                                                     | 1 | 1130 |



3/8"

## 870-TX/TTX Socket Sets

| Stock-No.                | Ratchet                                                                             | Sockets                                   | Accessories                                                                         | g |      |
|--------------------------|-------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------|---|------|
| 870-TXU                  |  |                                           |                                                                                     | 1 | 1400 |
| 870-TXUN<br><b>New!</b>  |  | TX 9, 10, 15, 20, 25, 27, 30, 40, 45, 50  |                                                                                     | 1 | 1280 |
| 870-TTXU                 |  |                                           |  | 1 | 1380 |
| 870-TTXUN<br><b>New!</b> |  | TTX 9, 10, 15, 20, 25, 27, 30, 40, 45, 50 |                                                                                     | 1 | 1360 |



3/8"



# SOCKETS, SOCKET PARTS, SOCKET AND SPANNER SETS 3/8"

## 877-TXE Socket Set

| Stock-No.      | Sockets                                                                                                                                                                                                                                                                                                   | Accessories                                                                                                                                                    |  |  g |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>877-TXE</b> | <div> <div>3/8"</div> <div>  TXE 5, 6, 7, 8, 10, 11, 12, 14 </div> <div> <div>1/2"</div> <div>  TXE 16, 18, 20, 24 </div> </div> </div> | <div> <div>1/2"</div> <div>  </div> <div>3/8"</div> </div> <div>770-L13</div> | 1                                                                                 | 1200                                                                                |

3/8"



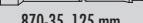
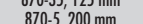
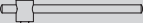
## 872-TXE Socket Sets

| Stock-No.                       | Ratchet                                                                                      | Sockets                                                                                                                   | Accessories                                                                                                        |  |  g |
|---------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>872-TXEU</b>                 | <br>870-1D  |                                                                                                                           |                                                                                                                    | 1                                                                                 | 1090                                                                                |
| <b>872-TXEUN</b><br><i>New!</i> | <br>870-1UN | <div>  TXE 5, 6, 7, 8, 10, 12, 14 </div> | <div>  <br/>870-35, 125 mm </div> | 1                                                                                 | 1070                                                                                |

3/8"



## 873-TXE/TTXE Socket Sets

| Stock-No.                        | Ratchet                                                                                        | Sockets                                                                                                                                    | Accessories                                                                                                                                                                                                                              |  |  g |
|----------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>873-TXEU</b>                  | <br>870-1D  | <div>  TXE 5, 6, 7, 8, 10, 12, 14 </div>                | <div>  <br/>870-35, 125 mm </div>                                                                                                                     | 1                                                                                   | 2275                                                                                  |
| <b>873-TXEUN</b><br><i>New!</i>  | <br>870-1UN | <div>  TX 9, 10, 15, 20, 25, 27, 30, 40, 45, 50 </div>  | <div>  <br/>870-35, 125 mm </div> <div>  <br/>870-5, 200 mm </div> | 1                                                                                   | 2255                                                                                  |
| <b>873-TTxEU</b>                 | <br>870-1D  | <div>  TXE 5, 6, 7, 8, 10, 12, 14 </div>                | <div>  <br/>870-8 </div>                                                                                                                              | 1                                                                                   | 2275                                                                                  |
| <b>873-TTxEUN</b><br><i>New!</i> | <br>870-1UN | <div>  TTX 9, 10, 15, 20, 25, 27, 30, 40, 45, 50 </div> | <div>  <br/>870-9 </div>                                                                                                                              | 1                                                                                   | 2255                                                                                  |

3/8"



## Hexagon and Bi-Hexagon Sockets

- Type: knurled band, chrome-plated, polished, with rill
- Material: Chrome-Vanadium 31 CrV 3, Code No. 1.2208
- Standard: 1/2" square drive according to DIN 3120/ISO 1174, for manual drive, sizes according to DIN 3124/ISO 2725

### 770/771-L Sockets

1/2"



| Application |           | for outside hexagon bolts         |   |     |  |  |  |
|-------------|-----------|-----------------------------------|---|-----|--|--|--|
| Type        |           | 770-L: bi-hexagon, 771-L: hexagon |   |     |  |  |  |
| Stock-No.   | Stock-No. | mm                                |   |     |  |  |  |
| ○           | ○         | mm                                |   |     |  |  |  |
|             | 771-L 5   | 40                                | 6 | 56  |  |  |  |
|             | 771-L 5,5 | 40                                | 6 | 56  |  |  |  |
|             | 771-L 6   | 40                                | 6 | 56  |  |  |  |
|             | 771-L 7   | 40                                | 6 | 56  |  |  |  |
| 770-L 8     | 771-L 8   | 40                                | 6 | 56  |  |  |  |
| 770-L 9     | 771-L 9   | 40                                | 6 | 56  |  |  |  |
| 770-L 10    | 771-L 10  | 40                                | 6 | 56  |  |  |  |
| 770-L 11    | 771-L 11  | 40                                | 6 | 58  |  |  |  |
| 770-L 12    | 771-L 12  | 40                                | 6 | 58  |  |  |  |
| 770-L 13    | 771-L 13  | 40                                | 6 | 58  |  |  |  |
| 770-L 14    | 771-L 14  | 40                                | 6 | 60  |  |  |  |
| 770-L 15    | 771-L 15  | 40                                | 6 | 62  |  |  |  |
| 770-L 16    | 771-L 16  | 40                                | 6 | 66  |  |  |  |
| 770-L 17    | 771-L 17  | 40                                | 6 | 66  |  |  |  |
| 770-L 18    | 771-L 18  | 40                                | 6 | 66  |  |  |  |
| 770-L 19    | 771-L 19  | 40                                | 6 | 66  |  |  |  |
| 770-L 20    | 771-L 20  | 40                                | 6 | 72  |  |  |  |
| 770-L 21    | 771-L 21  | 40                                | 6 | 74  |  |  |  |
| 770-L 22    | 771-L 22  | 40                                | 6 | 86  |  |  |  |
| 770-L 23    | 771-L 23  | 40                                | 6 | 88  |  |  |  |
| 770-L 24    | 771-L 24  | 40                                | 6 | 96  |  |  |  |
| 770-L 25    | 771-L 25  | 42                                | 6 | 106 |  |  |  |
| 770-L 26    | 771-L 26  | 42                                | 6 | 108 |  |  |  |
| 770-L 27    | 771-L 27  | 44                                | 6 | 126 |  |  |  |
| 770-L 28    | 771-L 28  | 44                                | 6 | 140 |  |  |  |
| 770-L 29    | 771-L 29  | 44                                | 6 | 145 |  |  |  |
| 770-L 30    | 771-L 30  | 44                                | 6 | 150 |  |  |  |
| 770-L 32    | 771-L 32  | 46                                | 6 | 180 |  |  |  |
| 770-L 33    | 771-L 33  | 46                                | 6 | 180 |  |  |  |
| 770-L 34    | 771-L 34  | 46                                | 6 | 195 |  |  |  |
|             | 771-L 36  | 55                                | 6 | 275 |  |  |  |

| Stock-No.    | mm |   |     |  |
|--------------|----|---|-----|--|
| ○            | mm |   |     |  |
| 770-LW 1/8   | 40 | 6 | 56  |  |
| 770-LW 3/16  | 40 | 6 | 58  |  |
| 770-LW 1/4   | 40 | 6 | 60  |  |
| 770-LW 5/16  | 40 | 6 | 62  |  |
| 770-LW 3/8   | 40 | 6 | 64  |  |
| 770-LW 7/16  | 40 | 6 | 78  |  |
| 770-LW 1/2   | 40 | 6 | 90  |  |
| 770-LW 9/16  | 42 | 6 | 108 |  |
| 770-LW 5/8   | 44 | 6 | 140 |  |
| 770-LW 11/16 | 46 | 6 | 170 |  |
| 770-LW 3/4   | 46 | 6 | 180 |  |

### MS-11/12 Module

1/2"



| Application |                                                                                                                                                 | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |      |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------|
| Type        |                                                                                                                                                 | Black, with transparent cover                                                                        |      |
| Material    |                                                                                                                                                 | ABS                                                                                                  |      |
| Stock-No.   | Contents                                                                                                                                        |                                                                                                      |      |
|             |                                                                                                                                                 | g                                                                                                    |      |
| MS-11       | 770-L1D Reversible ratchet<br>770-L 10; 11; 12; 13; 14; 15; 16;<br>17; 18; 19; 20; 22 mm<br>770-L6 Extension bar 250 mm<br>770-L3 Sliding T-bar | 1                                                                                                    | 2200 |
| MS-12       | Same as MS-11; but all sockets in hexagon pattern                                                                                               | 1                                                                                                    | 2200 |

### MS-16/17 Module

1/2"



| Application |                                                                                                                                                                                                                                                   | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |      |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------|
| Type        |                                                                                                                                                                                                                                                   | Black, with transparent cover                                                                        |      |
| Material    |                                                                                                                                                                                                                                                   | ABS                                                                                                  |      |
| Stock-No.   | Contents                                                                                                                                                                                                                                          |                                                                                                      |      |
|             |                                                                                                                                                                                                                                                   | g                                                                                                    |      |
| MS-16       | 770-L1D Reversible ratchet<br>770-L 10; 11; 12; 13; 14; 15; 16;<br>17; 18; 19; 20; 21; 22; 23;<br>24; 25; 26; 27; 30; 32 mm<br>770-L3 Sliding T-bar<br>770-L5 Extension bar 125 mm<br>770-L6 Extension bar 250 mm<br>770-L7 Universal joint 75 mm | 1                                                                                                    | 3500 |
| MS-17       | same as MS-16; but all sockets in hexagon pattern                                                                                                                                                                                                 | 1                                                                                                    | 3500 |

## 770/771-KLS Sockets on Socket Rail

1/2"



| Application | for fitting in tool trolleys or on tool bars                                                                                                           |  |     |      |  |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|------|--|
| Type        | with 14 socket clips, made from metal, socket rail chrome-plated, polished<br>770-KLS: sockets bi-hexagon pattern,<br>771-KLS: sockets hexagon pattern |  |     |      |  |
| Stock-No.   | Contents                                                                                                                                               |  | mm  | g    |  |
| 770-KLSM 14 | 770-KL socket rail<br>○ 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27 mm                                                                      |  | 414 | 1100 |  |
| 771-KLSM 14 | 770-KL socket rail<br>○ 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27 mm                                                                      |  | 414 | 1100 |  |
| 770-KLSA 14 | 770-KL socket rail<br>○ 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 13/16, 7/8, 1, 1.1/16, 1.1/8, 1.1/4 AF                                           |  | 414 | 1275 |  |
| 770-KL      | socket rail only                                                                                                                                       |  | 414 | 80   |  |

## 770/771-LTA/LTW Extra Deep Sockets

1/2"



| Application    | for outside hexagon bolts, especially suitable for nuts on long threaded bolts and for deep lying nuts and bolts |  |    |   |     |
|----------------|------------------------------------------------------------------------------------------------------------------|--|----|---|-----|
| Type           | extra deep, 770LT: bi-hexagon, 771LT: hexagon                                                                    |  |    |   |     |
| Stock-No.      | Stock-No.                                                                                                        |  | mm | g |     |
| 770-LTA 1/2    |                                                                                                                  |  | 80 | 6 | 122 |
| 770-LTA 9/16   |                                                                                                                  |  | 80 | 6 | 130 |
| 770-LTA 5/8    |                                                                                                                  |  | 80 | 6 | 130 |
| 770-LTA 11/16  | 771-LTA 11/16                                                                                                    |  | 80 | 6 | 135 |
| 770-LTA 3/4    |                                                                                                                  |  | 80 | 6 | 155 |
| 770-LTA 13/16  | 771-LTA 13/16                                                                                                    |  | 80 | 6 | 185 |
| 770-LTA 7/8    |                                                                                                                  |  | 80 | 6 | 190 |
| 770-LTA 15/16  |                                                                                                                  |  | 80 | 6 | 220 |
| 770-LTA 1      |                                                                                                                  |  | 80 | 6 | 235 |
| 770-LTA 1.1/16 |                                                                                                                  |  | 80 | 6 | 235 |
|                | 771-LTA 1.1/2                                                                                                    |  | 80 | 6 | 360 |
|                | 771-LTW 7/16                                                                                                     |  | 80 | 6 | 185 |

## 770/771-LT Extra Deep Sockets

1/2"



| Application | for outside hexagon bolts, especially suitable for nuts on long threaded bolts and for deep lying nuts and bolts |  |    |   |     |
|-------------|------------------------------------------------------------------------------------------------------------------|--|----|---|-----|
| Type        | extra deep, 770LT: bi-hexagon, 771LT: hexagon                                                                    |  |    |   |     |
| Stock-No.   | Stock-No.                                                                                                        |  | mm | g |     |
| 770-LT 10   | 771-LT 10                                                                                                        |  | 80 | 6 | 104 |
| 770-LT 11   | 771-LT 11                                                                                                        |  | 80 | 6 | 106 |
| 770-LT 12   | 771-LT 12                                                                                                        |  | 80 | 6 | 108 |
| 770-LT 13   | 771-LT 13                                                                                                        |  | 80 | 6 | 122 |
| 770-LT 14   | 771-LT 14                                                                                                        |  | 80 | 6 | 130 |
| 770-LT 15   | 771-LT 15                                                                                                        |  | 80 | 6 | 130 |
| 770-LT 16   | 771-LT 16                                                                                                        |  | 80 | 6 | 130 |
| 770-LT 17   | 771-LT 17                                                                                                        |  | 80 | 6 | 135 |
| 770-LT 18   | 771-LT 18                                                                                                        |  | 80 | 6 | 155 |
| 770-LT 19   | 771-LT 19                                                                                                        |  | 80 | 6 | 155 |
| 770-LT 21   | 771-LT 21                                                                                                        |  | 80 | 6 | 185 |
| 770-LT 22   | 771-LT 22                                                                                                        |  | 80 | 6 | 190 |
| 770-LT 24   |                                                                                                                  |  | 80 | 6 | 220 |
| 770-LT 27   |                                                                                                                  |  | 80 | 6 | 235 |
| 770-LT 30   |                                                                                                                  |  | 80 | 6 | 275 |
| 770-LT 32   |                                                                                                                  |  | 80 | 6 | 325 |
| 770-LT 34   |                                                                                                                  |  | 80 | 6 | 350 |
|             | 771-LT 38                                                                                                        |  | 80 | 6 | 375 |

## 770-TKLS Extra Deep Sockets on Socket Rail

1/2"



| Application  | for fitting in tool trolleys or on tool bars                                                                       |  |     |      |  |
|--------------|--------------------------------------------------------------------------------------------------------------------|--|-----|------|--|
| Type         | with 14 socket clips, made from metal, socket rail chrome-plated, polished<br>770-TKLS: sockets bi-hexagon pattern |  |     |      |  |
| Stock-No.    | Contents                                                                                                           |  | mm  | g    |  |
| 770-TKLSM 14 | 770-KL socket rail<br>○ 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27 mm                                  |  | 414 | 1100 |  |
| 770-KL       | socket rail only                                                                                                   |  | 414 | 80   |  |

## 771-LTZ Extra Deep Hexagon Spark Plug Sockets

1/2"



|              |                                                                                                             |                                                                                       |                                                                                          |                                                                                          |                                                                                       |                                                                                            |
|--------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Type         | extra deep, with rubber insert and inside hexagon, with 1/2" square drive, chrome plated, polished, knurled |                                                                                       |                                                                                          |                                                                                          |                                                                                       |                                                                                            |
| Material     | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                   |                                                                                       |                                                                                          |                                                                                          |                                                                                       |                                                                                            |
| Standard     | Drive acc. to DIN 3120/ISO 1174                                                                             |                                                                                       |                                                                                          |                                                                                          |                                                                                       |                                                                                            |
| Stock-No.    |  mm                      |  |  mm |  mm |  | <br>g |
| 771LTZ- 16   | 16 (5/8" AF)                                                                                                | M10                                                                                   | 22                                                                                       | 80                                                                                       | 6                                                                                     | 165                                                                                        |
| 771LTZ- 18   | 18 (11/16" AF)                                                                                              | M12                                                                                   | 25                                                                                       | 80                                                                                       | 6                                                                                     | 170                                                                                        |
| 771LTZ- 20,8 | 20,8 (13/16" AF,<br>7/16" WW)                                                                               | M14                                                                                   | 27                                                                                       | 80                                                                                       | 6                                                                                     | 180                                                                                        |

## 771-LMG Extra Deep Magnetic Hexagon Spark Plug Sockets



| Type         | extra deep, with strong permanent magnet and inside hexagon, with 1/2" square drive, chrome plated, polished, knurled |     |    |    |   |     |
|--------------|-----------------------------------------------------------------------------------------------------------------------|-----|----|----|---|-----|
| Material     | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                             |     |    |    |   |     |
| Standard     | Drive acc. to DIN 3120/ISO 1174                                                                                       |     |    |    |   |     |
| Stock-No.    |                                                                                                                       |     |    |    |   |     |
| 771LMG- 16   | 16 (5/8" AF)                                                                                                          | M10 | 22 | 80 | 6 | 165 |
| 771LMG- 18   | 18 (11/16" AF)                                                                                                        | M12 | 25 | 80 | 6 | 170 |
| 771LMG- 20,8 | 20,8 (13/16" AF, 7/16" WW)                                                                                            | M14 | 27 | 80 | 6 | 180 |

## 770-LTXE Sockets

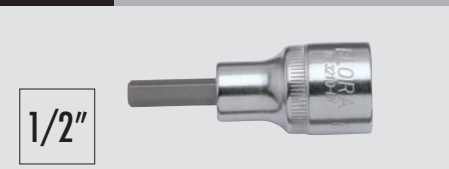


| Application | for outside TORX screws |    |   |     |  |
|-------------|-------------------------|----|---|-----|--|
| Stock-No.   |                         |    |   |     |  |
| 770-LTXE 10 | 9,42                    | 36 | 6 | 50  |  |
| 770-LTXE 11 | 10,03                   | 36 | 6 | 53  |  |
| 770-LTXE 12 | 11,17                   | 36 | 6 | 56  |  |
| 770-LTXE 14 | 12,90                   | 36 | 6 | 59  |  |
| 770-LTXE 16 | 14,76                   | 36 | 6 | 60  |  |
| 770-LTXE 18 | 16,64                   | 38 | 6 | 78  |  |
| 770-LTXE 20 | 18,41                   | 38 | 6 | 86  |  |
| 770-LTXE 24 | 22,10                   | 38 | 6 | 104 |  |

## Screwdriver Sockets

- Type: knurled, chrome-plated, polished, with rill for accessory with spring loaded retaining ball
- Material: Chrome-Vanadium 31 CrV 3, Code No. 1.2208  
Bits made from Chrome-Vanadium 59 CrV 4, Code No. 1.8159
- Standard: 1/2" square drive according to DIN 3120/ISO 1174, for manual drive

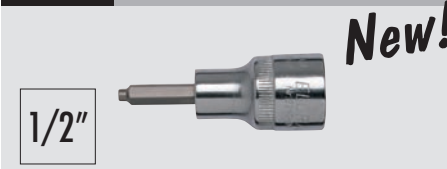
## 3210-IN Screwdriver Sockets



| Application | for hexagon socket head cap screws |    |   |     |  |
|-------------|------------------------------------|----|---|-----|--|
| Standard    | according to DIN 7422              |    |   |     |  |
| Stock-No.   |                                    |    |   |     |  |
| 3210-IN 4   | M5                                 | 60 | 6 | 65  |  |
| 3210-IN 5   | M6                                 | 60 | 6 | 70  |  |
| 3210-IN 6   | M8                                 | 60 | 6 | 75  |  |
| 3210-IN 7   |                                    | 60 | 6 | 85  |  |
| 3210-IN 8   | M10                                | 60 | 6 | 80  |  |
| 3210-IN 9   |                                    | 60 | 6 | 90  |  |
| 3210-IN 10  | M12                                | 60 | 6 | 90  |  |
| 3210-IN 12  | M14                                | 60 | 6 | 115 |  |
| 3210-IN 14  | M16                                | 60 | 6 | 120 |  |
| 3210-IN 17  | M20                                | 60 | 6 | 160 |  |
| 3210-IN 19  | M24                                | 60 | 6 | 205 |  |
| 3210-IN 22  | M30                                | 60 | 6 | 227 |  |

| Stock-No.    |    |   |     |  |
|--------------|----|---|-----|--|
| 3210-IN 3/16 | 52 | 6 | 75  |  |
| 3210-IN 7/32 | 52 | 6 | 75  |  |
| 3210-IN 1/4  | 52 | 6 | 75  |  |
| 3210-IN 5/16 | 52 | 6 | 75  |  |
| 3210-IN 3/8  | 52 | 6 | 96  |  |
| 3210-IN 7/16 | 52 | 6 | 105 |  |
| 3210-IN 1/2  | 52 | 6 | 110 |  |
| 3210-IN 9/16 | 60 | 6 | 140 |  |
| 3210-IN 5/8  | 60 | 6 | 160 |  |
| 3210-IN 3/4  | 60 | 6 | 205 |  |

## 3210-INZ Screwdriver Sockets



| Application | for hexagon socket head cap screws |    |   |     |  |
|-------------|------------------------------------|----|---|-----|--|
| Type        | with pin for Ribe-IC-Screws        |    |   |     |  |
| Stock-No.   |                                    |    |   |     |  |
| 3210-INZ 5  | M6                                 | 60 | 6 | 65  |  |
| 3210-INZ 6  | M8                                 | 60 | 6 | 75  |  |
| 3210-INZ 8  | M10                                | 60 | 6 | 80  |  |
| 3210-INZ 10 | M12                                | 60 | 6 | 90  |  |
| 3210-INZ 12 | M14                                | 60 | 6 | 115 |  |
| 3210-INZ 14 | M16                                | 60 | 6 | 120 |  |

## 3210-INKLS Screwdriver Sockets on Socket Rail



| Application   | for fitting in tool trolleys or on tool bars                               |     |      |  |
|---------------|----------------------------------------------------------------------------|-----|------|--|
| Type          | with 14 socket clips, made from metal, socket rail chrome-plated, polished |     |      |  |
| Stock-No.     | Contents                                                                   |     |      |  |
| 3210-INKLS 11 | 770-KL socket rail<br>IN- 4, 5, 6, 7, 8, 9, 10, 12, 14, 17, 19 mm          | 414 | 1150 |  |
| 770-KL        | socket rail only                                                           | 414 | 80   |  |

## MS-13 Module



| Application | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220                                                     |   |      |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| Type        | Black, with transparent cover                                                                                                                            |   |      |
| Material    | ABS                                                                                                                                                      |   |      |
| Stock-No.   | Contents                                                                                                                                                 |   |      |
| MS-13       | Screwdriver sockets<br>3210 IN 4, 5, 6, 8, 10, 12, 14, 17, 19 mm<br>Ball end hexagon keys<br>159 SKU KU1,5; KU2; KU2,5; KU3; KU4; KU5; KU6; KU8; KU10 mm | 1 | 1500 |



## 3210-INL Screwdriver Sockets

1/2"



|             |                                    |
|-------------|------------------------------------|
| Application | for hexagon socket head cap screws |
| Type        | extra long                         |
| Standard    | according to DIN 7422              |

| Stock-No.             | mm       | mm  | mm | g   |
|-----------------------|----------|-----|----|-----|
| 3210-INL 5x100        | M6       | 100 | 6  | 90  |
| 3210-INL 5x180        | M6       | 180 | 6  | 110 |
| 3210-INL 6x 70        | M8       | 70  | 6  | 90  |
| 3210-INL 6x100        | M8       | 100 | 6  | 100 |
| 3210-INL 6x137        | M8       | 137 | 6  | 120 |
| 3210-INL 6x160        | M8       | 160 | 6  | 135 |
| 3210-INL 6x220        | M8       | 220 | 6  | 145 |
| 3210-INL 7x100        | for VW   | 100 | 6  | 90  |
| 3210-INL 8x 83        | M10      | 83  | 6  | 90  |
| 3210-INL 8x100        | for FORD | 100 | 6  | 100 |
| 3210-INL 8x120        | M10      | 120 | 6  | 120 |
| 3210-INL 10x140       | M12      | 140 | 6  | 140 |
| (for Mercedes and VW) |          |     |    |     |
| 3210-INL 12x140       | M14      | 140 | 6  | 180 |
| 3210-INL 14x140       | M16      | 140 | 6  | 240 |
| 3210-INL 17x100       | M20      | 100 | 6  | 230 |
| 3210-INL 19x100       | M24      | 100 | 6  | 295 |

## 775-K Open Box Wrenches

1/2"



|             |                                                              |
|-------------|--------------------------------------------------------------|
| Application | for cap nuts on hydraulic, injection and air condition pipes |
| Standard    | black finish                                                 |
| Material    | Chrome-Molybdenum                                            |

| Stock-No. | mm | g   |
|-----------|----|-----|
| 775-K 17  | 60 | 150 |
| 775-K 18  | 63 | 150 |
| 775-K 19  | 63 | 150 |
| 775-K 22  | 65 | 325 |
| 775-K 24  | 70 | 350 |
| 775-K 27  | 74 | 360 |
| 775-K 30  | 76 | 360 |

## 3230-XZNL Screwdriver Sockets

1/2"



|             |                    |
|-------------|--------------------|
| Application | for B&S XZN screws |
| Type        | extra long         |

| Stock-No.        | mm  | mm  | g   |
|------------------|-----|-----|-----|
| 3230-XZNL 6x100  | M6  | 100 | 95  |
| 3230-XZNL 8x 80  | M8  | 80  | 85  |
| 3230-XZNL 8x100  | M8  | 100 | 95  |
| 3230-XZNL 8x110  | M8  | 110 | 95  |
| 3230-XZNL 8x120  | M8  | 120 | 100 |
| 3230-XZNL 10x100 | M10 | 100 | 115 |
| 3230-XZNL 10x120 | M10 | 120 | 135 |
| 3230-XZNL 10x140 | M10 | 140 | 140 |
| 3230-XZNL 12x100 | M12 | 100 | 160 |
| 3230-XZNL 12x140 | M12 | 140 | 165 |
| 3230-XZNL 14x100 | M14 | 100 | 180 |

## 3210-KUL Screwdriver Sockets with Ball End

1/2"

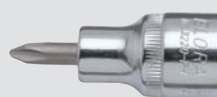


|             |                                    |
|-------------|------------------------------------|
| Application | for hexagon socket head cap screws |
| Standard    | according to DIN 7422              |

| Stock-No.   | mm  | mm  | mm | g   |
|-------------|-----|-----|----|-----|
| 3210-KUL 5  | M6  | 140 | 6  | 110 |
| 3210-KUL 6  | M8  | 140 | 6  | 120 |
| 3210-KUL 7  |     | 140 | 6  | 130 |
| 3210-KUL 8  | M10 | 140 | 6  | 130 |
| 3210-KUL 10 | M12 | 140 | 6  | 140 |
| 3210-KUL 12 | M14 | 140 | 6  | 180 |

## 3220-PH Screwdriver Sockets

1/2"

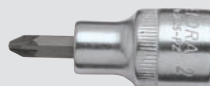


|             |                                       |
|-------------|---------------------------------------|
| Application | for cross slot screws Phillips-Recess |
| Standard    | tip according to DIN 5260, form PH    |

| Stock-No. | mm         | mm | mm | g  |
|-----------|------------|----|----|----|
| 3220-PH 2 | 3,1 – 5,2  | 56 | 6  | 75 |
| 3220-PH 3 | 5,3 – 7,2  | 56 | 6  | 75 |
| 3220-PH 4 | 7,3 – 12,7 | 56 | 6  | 80 |

## 3225-PZ Screwdriver Sockets

1/2"



|             |                                     |
|-------------|-------------------------------------|
| Application | for cross slot screws Supa-Pozidriv |
| Standard    | tip according to DIN 5260, form PZ  |

| Stock-No. | mm      | mm | mm | g  |
|-----------|---------|----|----|----|
| 3225-PZ 2 | 5 – 10  | 56 | 6  | 70 |
| 3225-PZ 3 | 12 – 16 | 56 | 6  | 75 |
| 3225-PZ 4 | 18 – >  | 56 | 6  | 80 |

## 3240-RIB Screwdriver Sockets

1/2"



|             |                    |
|-------------|--------------------|
| Application | for RIBE-CV screws |
|-------------|--------------------|

| Stock-No.   | mm  | mm | mm | g   |
|-------------|-----|----|----|-----|
| 3240-RIB 5  | M5  | 63 | 6  | 70  |
| 3240-RIB 6  | M6  | 63 | 6  | 75  |
| 3240-RIB 8  | M8  | 63 | 6  | 80  |
| 3240-RIB 10 | M10 | 63 | 6  | 90  |
| 3240-RIB 12 | M12 | 63 | 6  | 120 |
| 3240-RIB 14 | M14 | 63 | 6  | 135 |
| 3240-RIB 16 | M16 | 63 | 6  | 130 |

## 3245-TX Screwdriver Sockets

1/2"



|             |                        |
|-------------|------------------------|
| Application | for inside TORX screws |
|-------------|------------------------|

| Stock-No.  | mm    | mm | mm | g   |
|------------|-------|----|----|-----|
| 3245-TX 20 | 3,86  | 55 | 6  | 67  |
| 3245-TX 25 | 4,43  | 55 | 6  | 68  |
| 3245-TX 27 | 4,99  | 55 | 6  | 68  |
| 3245-TX 30 | 5,52  | 55 | 6  | 68  |
| 3245-TX 40 | 6,65  | 55 | 6  | 69  |
| 3245-TX 45 | 7,82  | 55 | 6  | 70  |
| 3245-TX 50 | 8,83  | 55 | 6  | 73  |
| 3245-TX 55 | 11,22 | 56 | 6  | 112 |
| 3245-TX 60 | 13,25 | 56 | 6  | 117 |

## 3200-IS Screwdriver Sockets

1/2"



|             |                                      |
|-------------|--------------------------------------|
| Application | for plain slot screws                |
| Standard    | tip according to DIN 5264/ISO 2380-1 |

| Stock-No.      | mm | mm | mm  | g |
|----------------|----|----|-----|---|
| 3200-IS 1,2x 8 | 62 | 6  | 80  |   |
| 3200-IS 1,6x 8 | 62 | 6  | 80  |   |
| 3200-IS 1,6x10 | 62 | 6  | 90  |   |
| 3200-IS 2,0x12 | 62 | 6  | 120 |   |
| 3200-IS 2,5x14 | 62 | 6  | 125 |   |

## 3230-XZN Screwdriver Sockets

1/2"



|             |                    |
|-------------|--------------------|
| Application | for B&S XZN screws |
|-------------|--------------------|

| Stock-No.   | mm  | mm | mm | g   |
|-------------|-----|----|----|-----|
| 3230-XZN 5  | M5  | 52 | 6  | 75  |
| 3230-XZN 6  | M6  | 52 | 6  | 75  |
| 3230-XZN 8  | M8  | 53 | 6  | 80  |
| 3230-XZN 10 | M10 | 53 | 6  | 85  |
| 3230-XZN 12 | M12 | 55 | 6  | 115 |
| 3230-XZN 14 | M14 | 58 | 6  | 120 |
| 3230-XZN 16 | M16 | 60 | 6  | 152 |

## 3245-TXKLS Screwdriver Sockets on Socket Rail

1/2"



| Application         | for fitting in tool trolleys or on tool bars                               |     |     |  |
|---------------------|----------------------------------------------------------------------------|-----|-----|--|
| Type                | with 14 socket clips, made from metal, socket rail chrome-plated, polished |     |     |  |
| Stock-No.           | Contents                                                                   | mm  | g   |  |
| <b>3245-TXKLS 9</b> | 770-KL socket rail<br>★ TX 20, 25, 27, 30, 40, 45, 50, 55, 60              | 414 | 720 |  |
| <b>770-KL</b>       | socket rail only                                                           | 414 | 80  |  |

## MS-14 Module

1/2"



| Application  | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220                                                                                      |    |     |  |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|--|
| Type         | Black, with transparent cover                                                                                                                                                             |    |     |  |
| Material     | ABS                                                                                                                                                                                       |    |     |  |
| Stock-No.    | Contents                                                                                                                                                                                  | mm | g   |  |
| <b>MS-14</b> | <b>TORX Screwdriver sockets</b><br>3245 ★ TX 20, 25, 27, 30, 40, 45, 50, 55, 60<br><b>TORX Ball end keys</b><br>1625-TXKU TXKU 9; TXKU10; TXKU15; TXKU20; TXKU25; TXKU27; TXKU30; TXKU40; | 1  | 950 |  |

## 3245-TTX Screwdriver Sockets

1/2"



| Application        | for inside TORX safety screws |    |    |     |
|--------------------|-------------------------------|----|----|-----|
| Type               | with bore in tip              |    |    |     |
| Stock-No.          | mm                            | mm | mm | g   |
| <b>3245-TTX 20</b> | 3,86                          | 55 | 6  | 67  |
| <b>3245-TTX 25</b> | 4,43                          | 55 | 6  | 68  |
| <b>3245-TTX 27</b> | 4,99                          | 55 | 6  | 68  |
| <b>3245-TTX 30</b> | 5,52                          | 55 | 6  | 68  |
| <b>3245-TTX 40</b> | 6,65                          | 55 | 6  | 69  |
| <b>3245-TTX 45</b> | 7,82                          | 55 | 6  | 70  |
| <b>3245-TTX 50</b> | 8,83                          | 55 | 6  | 73  |
| <b>3245-TTX 55</b> | 11,22                         | 56 | 6  | 112 |
| <b>3245-TTX 60</b> | 13,25                         | 56 | 6  | 117 |

## 3245-TTXKLS Screwdriver Sockets on Socket Rail

1/2"



| Application          | for fitting in tool trolleys or on tool bars                               |     |     |  |
|----------------------|----------------------------------------------------------------------------|-----|-----|--|
| Type                 | with 14 socket clips, made from metal, socket rail chrome-plated, polished |     |     |  |
| Stock-No.            | Contents                                                                   | mm  | g   |  |
| <b>3245-TTXKLS 9</b> | 770-KL socket rail<br>★ TTX 20, 25, 27, 30, 40, 45, 50, 55, 60             | 414 | 720 |  |
| <b>770-KL</b>        | socket rail only                                                           | 414 | 80  |  |

## 3245-TXL Screwdriver Sockets

1/2"



| Application            | for inside TORX screws |     |    |     |
|------------------------|------------------------|-----|----|-----|
| Type                   | extra long             |     |    |     |
| Stock-No.              | mm                     | mm  | mm | g   |
| <b>3245-TXL 20</b>     | 3,86                   | 100 | 6  | 67  |
| <b>3245-TXL 25</b>     | 4,43                   | 100 | 6  | 68  |
| <b>3245-TXL 27</b>     | 4,99                   | 100 | 6  | 68  |
| <b>3245-TXL 30</b>     | 5,52                   | 100 | 6  | 68  |
| <b>3245-TXL 40</b>     | 6,65                   | 100 | 6  | 69  |
| <b>3245-TXL 45</b>     | 7,82                   | 100 | 6  | 70  |
| <b>3245-TXL 45x140</b> | 7,82                   | 140 | 6  | 145 |
| <b>3245-TXL 50</b>     | 8,83                   | 100 | 6  | 73  |
| <b>3245-TXL 50x140</b> | 8,83                   | 140 | 6  | 150 |
| <b>3245-TXL 55</b>     | 11,22                  | 100 | 6  | 112 |
| <b>3245-TXL 55x140</b> | 11,22                  | 140 | 6  | 160 |
| <b>3245-TXL 60</b>     | 13,25                  | 100 | 6  | 117 |
| <b>3245-TXL 70x140</b> | 15,50                  | 140 | 6  | 175 |

## 770/771- LSP1M + 770-LSP1A

Socket Display Dispenser



1/2"

| Type                  | heavy gauge sheet steel, black lacquered, size: 605 × 380 × 55 mm |             |   |     |  |
|-----------------------|-------------------------------------------------------------------|-------------|---|-----|--|
| Stock-No.             | Contents                                                          | pieces each |   | kg  |  |
| <b>770-LSP1M</b>      | ○ 10; 11; 12; 13; 14; 15; 16 mm                                   | 16          | 1 | 26  |  |
|                       | 17 mm                                                             | 15          |   |     |  |
|                       | 18; 19 mm                                                         | 14          |   |     |  |
|                       | 20 mm                                                             | 13          |   |     |  |
|                       | 21; 22 mm                                                         | 12          |   |     |  |
|                       | 24 mm                                                             | 11          |   |     |  |
|                       | 26; 27 mm                                                         | 10          |   |     |  |
|                       | 30 mm                                                             | 9           |   |     |  |
|                       | 32 mm                                                             | 8           |   |     |  |
| <b>771-LSP1M</b>      | same as Stock-No. 770-LSP1M but all sockets in hexagon pattern    |             | 1 | 26  |  |
| <b>770-LSP1A</b>      | ○ 3/8; 7/16 AF                                                    | 16          | 1 | 26  |  |
|                       | 1/2; 9/16 AF                                                      | 32          |   |     |  |
|                       | 19/32; 5/8 AF                                                     | 16          |   |     |  |
|                       | 11/16 AF                                                          | 15          |   |     |  |
|                       | 3/4 AF                                                            | 14          |   |     |  |
|                       | 25/32; 13/16 AF                                                   | 13          |   |     |  |
|                       | 7/8 AF                                                            | 12          |   |     |  |
|                       | 15/16 AF                                                          | 11          |   |     |  |
|                       | 1; 1.1/16 AF                                                      | 10          |   |     |  |
|                       | 1.1/8 AF                                                          | 9           |   |     |  |
|                       | 1.1/4 AF                                                          | 8           |   |     |  |
| <b>770-LSP1 empty</b> |                                                                   |             | 1 | 5,7 |  |

## 770-KS1M ELORA BIG SPENDER 771-KS1M



1/2"

| Type            | with 2 trays and 30 zinc plated tray dividers, black lacquered, size: 470 × 320 × 234 mm  |             |   |      |  |
|-----------------|-------------------------------------------------------------------------------------------|-------------|---|------|--|
| Stock-No.       | Contents                                                                                  | pieces each |   | kg   |  |
| <b>770-KS1M</b> | ○ 8, 9, 10; 11; 12; 13; 14; 15; 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 32 mm | 6           | 1 | 20,5 |  |
|                 | 770-L11 Socket Converter                                                                  | 6           |   |      |  |
|                 | 770-L13 Socket Converter                                                                  | 6           |   |      |  |
| <b>771-KS1M</b> | same as Stock-No. 770-KS1M but all sockets in hexagon pattern                             |             | 1 | 20,5 |  |

Individual contents on request

## 770-KS2M ELORA BIG SPENDER 770-AS2M



1/2"

| Type                | <b>BIG SPENDER:</b> with 2 trays and 30 zinc plated tray dividers, black lacquered, <b>Pin-up tray:</b> with 16 zinc plated tray dividers, black lacquered, size: 474 × 155 × 36 mm |             |   |     |  |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---|-----|--|
| Stock-No.           | Contents                                                                                                                                                                            | pieces each |   | kg  |  |
| <b>770-KS2M</b>     | ○ IN- Hexagon screwdriver sockets 4, 5, 6, 7, 8, 9, 10, 12, 14, 17, 19 mm                                                                                                           | 6           | 1 | 21  |  |
|                     | ★ TX- TORX screwdriver sockets 20, 25, 27, 30, 40, 45, 50, 55, 60 TX                                                                                                                | 6           |   |     |  |
|                     | ● XZN- B&S XZN-Screwdriver Sockets 5, 6, 8, 10, 12, 14 M                                                                                                                            | 6           |   |     |  |
|                     | ⊕ PH- Phillips-Recess screwdriver sockets No. 3                                                                                                                                     | 6           |   |     |  |
|                     | ⊖ IS- Screwdriver sockets 1,6×10 mm                                                                                                                                                 | 6           |   |     |  |
| <b>770-KS leer</b>  | with 30 tray dividers                                                                                                                                                               |             | 1 | 8,5 |  |
| <b>770-AS2M</b>     | ○ INL- 5×100, 6×70, 6×100, 7×100, 8×83, 8×100, 10×140 mm                                                                                                                            | 5           | 1 | 9,0 |  |
|                     | ★ TXL- 50, 55                                                                                                                                                                       | 5           |   |     |  |
|                     | ● XZNL- 6×100, 8×100, 10×100, 12×100, 14×100                                                                                                                                        | 5           |   |     |  |
| <b>770-AS empty</b> | with 16 tray dividers                                                                                                                                                               |             | 1 | 2,0 |  |

Individual contents on request

## 770/771- LSP2M + 770-LSP2A

Socket Display Dispenser



1/2"

| Type                  | heavy gauge sheet steel, black lacquered, size: 410 × 135 × 55 mm |             |   |     |  |
|-----------------------|-------------------------------------------------------------------|-------------|---|-----|--|
| Stock-No.             | Contents                                                          | pieces each |   | kg  |  |
| <b>770-LSP2M</b>      | ○ 10; 11; 12; 13; 14 mm                                           | 10          | 1 | 10  |  |
|                       | 17 mm                                                             | 9           |   |     |  |
|                       | 19 mm                                                             | 8           |   |     |  |
|                       | 22; 24 mm                                                         | 7           |   |     |  |
|                       | 27 mm                                                             | 6           |   |     |  |
|                       | 30; 32 mm                                                         | 5           |   |     |  |
| <b>771-LSP2M</b>      | same as Stock-No. 770-LSP2M but all sockets in hexagon pattern    |             | 1 | 10  |  |
| <b>770-LSP2A</b>      | ○ 3/8; 7/16; 1/2; 9/16; 5/8 AF                                    | 10          | 1 | 10  |  |
|                       | 11/16 AF                                                          | 9           |   |     |  |
|                       | 3/4 AF                                                            | 8           |   |     |  |
|                       | 7/8; 15/16 AF                                                     | 7           |   |     |  |
|                       | 1; 1.1/16; 1.1/8 AF                                               | 6           |   |     |  |
| <b>770-LSP2 empty</b> |                                                                   |             | 1 | 2,4 |  |

## Socket Parts and Accessories

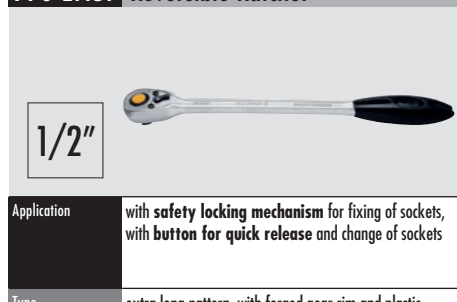
- Application: for sockets with 1/2" square drive according to DIN 3120/ISO 1174, with spring loaded balls, for manual drive
- Type: chrome-plated
- Material: Chrome-Vanadium 31 CrV 3, W.-Nr. 1.2208

### 770-L1F Reversible Ratchet



|             |                                                                                                                        |   |     |
|-------------|------------------------------------------------------------------------------------------------------------------------|---|-----|
| Application | with <b>safety locking mechanism</b> for fixing of sockets, with <b>button for quick release</b> and change of sockets |   |     |
| Type        | with forged gear rim and plastic handle                                                                                |   |     |
| Standard    | according to DIN 3122, form D/ISO 3315                                                                                 |   |     |
| Stock-No.   | mm                                                                                                                     | g |     |
| 770-L1F     | 270                                                                                                                    | 1 | 550 |

### 770-L115F Reversible Ratchet



|             |                                                                                                                        |   |     |
|-------------|------------------------------------------------------------------------------------------------------------------------|---|-----|
| Application | with <b>safety locking mechanism</b> for fixing of sockets, with <b>button for quick release</b> and change of sockets |   |     |
| Type        | extra long pattern, with forged gear rim and plastic handle                                                            |   |     |
| Standard    | according to DIN 3122, form D/ISO 3315                                                                                 |   |     |
| Stock-No.   | mm                                                                                                                     | g |     |
| 770-L115F   | 375                                                                                                                    | 1 | 685 |

### 770-L1D Reversible Ratchet



|           |                                                                             |   |     |
|-----------|-----------------------------------------------------------------------------|---|-----|
| Type      | with forged gear rim and plastic handle                                     |   |     |
| Standard  | according to DIN 3122, form D/ISO 3315, with male and female coupler square |   |     |
| Stock-No. | mm                                                                          | g |     |
| 770-L1D   | 270                                                                         | 1 | 565 |

### 770-L1PI Ratchet



|             |                                                |   |     |
|-------------|------------------------------------------------|---|-----|
| Application | for contraction of beams of roof constructions |   |     |
| Type        | with 16 mm female hexagon and plastic handle   |   |     |
| Stock-No.   | mm                                             | g |     |
| 770-L1PI    | 250                                            | 1 | 550 |

### 770-L115U Reversible Ratchet



|           |                                                                             |   |     |
|-----------|-----------------------------------------------------------------------------|---|-----|
| Type      | extra long pattern, with forged gear rim and plastic handle                 |   |     |
| Standard  | according to DIN 3122, form D/ISO 3315, with male and female coupler square |   |     |
| Stock-No. | mm                                                                          | g |     |
| 770-L115U | 375                                                                         | 1 | 700 |

### 770-L1P Reversible Ratchet



|           |                                                                             |   |     |
|-----------|-----------------------------------------------------------------------------|---|-----|
| Type      | with forged gear rim and plastic handle                                     |   |     |
| Standard  | according to DIN 3122, form D/ISO 3315, with male and female coupler square |   |     |
| Stock-No. | mm                                                                          | g |     |
| 770-L1P   | 250                                                                         | 1 | 510 |

### 770-L1UN Fine Tooth Ratchet



|           |                                                     |   |     |
|-----------|-----------------------------------------------------|---|-----|
| Type      | with plastic handle and metal lever wheel, 72 teeth |   |     |
| Standard  | according to DIN 3122, Form D / ISO 3315            |   |     |
| Stock-No. | mm                                                  | g |     |
| 770-L1UN  | 260                                                 | 1 | 490 |

### 770-L1GF Reversible Ratchet with Flexible Head



|             |                                                                                                                        |   |     |
|-------------|------------------------------------------------------------------------------------------------------------------------|---|-----|
| Application | with <b>safety locking mechanism</b> for fixing of sockets, with <b>button for quick release</b> and change of sockets |   |     |
| Type        | with forged gear rim and plastic handle                                                                                |   |     |
| Standard    | according to DIN 3122, form D/ISO 3315                                                                                 |   |     |
| Stock-No.   | mm                                                                                                                     | g |     |
| 770-L1GF    | 305                                                                                                                    | 1 | 685 |



## 770-L1G Reversible Ratchet with Flexible Head

| <div>1/2"</div>  |                                                                             |   |     |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---|-----|
| Type                                                                                              | with forged gear rim and plastic handle                                     |   |     |
| Standard                                                                                          | according to DIN 3122, form D/ISO 3315, with male and female coupler square |   |     |
| Stock-No.                                                                                         | mm                                                                          | g |     |
| 770-L1G                                                                                           | 305                                                                         | 1 | 650 |

## 770-L115GF Reversible Ratchet with Flexible Head

| <div>1/2"</div>  |                                                                                                                        |   |     |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|-----|
| Application                                                                                       | with <b>safety locking mechanism</b> for fixing of sockets, with <b>button for quick release</b> and change of sockets |   |     |
| Type                                                                                              | extra long pattern, with forged gear rim and plastic handle                                                            |   |     |
| Standard                                                                                          | according to DIN 3122, form D/ISO 3315                                                                                 |   |     |
| Stock-No.                                                                                         | mm                                                                                                                     | g |     |
| 770-L115GF                                                                                        | 430                                                                                                                    | 1 | 635 |

## 770-L115G Reversible Ratchet with Flexible Head

| <div>1/2"</div>  |                                                                             |   |     |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---|-----|
| Type                                                                                                | extra long pattern, with forged gear rim and plastic handle                 |   |     |
| Standard                                                                                            | according to DIN 3122, form D/ISO 3315, with male and female coupler square |   |     |
| Stock-No.                                                                                           | mm                                                                          | g |     |
| 770-L115G                                                                                           | 430                                                                         | 1 | 960 |

## 770-LE1F Repair Kit

| <div>1/2"</div>  |                                                                                                          |     |  |
|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----|--|
| Application                                                                                         | for reversible ratchet with safety locking mechanism: Stock-No. 770-L1F, 770-L115F, 770-L1GF, 770-L115GF |     |  |
| Stock-No.                                                                                           | g                                                                                                        |     |  |
| 770-LE1F                                                                                            | 1                                                                                                        | 120 |  |

## 770-LE1D Repair Kit

| <div>1/2"</div>  |                                                                                      |     |  |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----|--|
| Application                                                                                       | for reversible ratchet: Stock-No. 770-L1D, 770-L1P, 770-L115U, 770-L1G and 770-L115G |     |  |
| Stock-No.                                                                                         | g                                                                                    |     |  |
| 770-LE1D                                                                                          | 1                                                                                    | 135 |  |

## 770-LE1UN Repair Kit

| <div>1/2"</div>  |                                           |     |  |
|---------------------------------------------------------------------------------------------------|-------------------------------------------|-----|--|
| Application                                                                                       | for Fine Tooth Ratchet Stock-No. 770-L1UN |     |  |
| Stock-No.                                                                                         | g                                         |     |  |
| 770-LE1UN                                                                                         | 1                                         | 115 |  |

## 770-L1A Ratchet Unit

| <div>1/2"</div>  |                                                                                         |    |       |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----|-------|
| Application                                                                                         | for left and right hand use, as accessory for socket parts such as torque wrenches etc. |    |       |
| Type                                                                                                | with pin to change direction                                                            |    |       |
| Standard                                                                                            | square drive according to DIN 3120/ISO 1174                                             |    |       |
| Stock-No.                                                                                           | female-□ male-■                                                                         | mm | g     |
| 770-L1A                                                                                             | 1/2"                                                                                    | 67 | 1 310 |

## 770-L1Z1 Push Through Ratchet

| <div>1/2"</div>  |                                        |   |     |
|------------------------------------------------------------------------------------------------------|----------------------------------------|---|-----|
| Type                                                                                                 | with plastic handle                    |   |     |
| Standard                                                                                             | according to DIN 3122, form C/ISO 3315 |   |     |
| Stock-No.                                                                                            | mm                                     | g |     |
| 770-L1Z1                                                                                             | 250                                    | 1 | 455 |

## 770-LE1Z1 Repair Kit

| <div>1/2"</div>  |                                             |     |  |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------|-----|--|
| Application                                                                                         | for push through ratchet Stock-No. 770-L1Z1 |     |  |
| Stock-No.                                                                                           | g                                           |     |  |
| 770-LE1Z1                                                                                           | 1                                           | 125 |  |

## 770-L1V Coupler Square

| <div>1/2"</div>  |                                                                                                                                                                |    |    |
|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| Application                                                                                         | for push through ratchet Stock-No. 770-L1Z1 and for coupling 1/2" sockets to reversible ratchets Stock-No.: 770-L1D, 770-L1P, 770-L115U, 770-L1G and 770-L115G |    |    |
| Stock-No.                                                                                           | mm                                                                                                                                                             | g  |    |
| 770-L1V                                                                                             | 35                                                                                                                                                             | 12 | 44 |

## 770-L2 Speed Brace

| <div>1/2"</div>  |                                        |   |     |
|-------------------------------------------------------------------------------------------------------|----------------------------------------|---|-----|
| Type                                                                                                  | with plastic handle                    |   |     |
| Standard                                                                                              | according to DIN 3122, form B/ISO 3315 |   |     |
| Stock-No.                                                                                             | mm                                     | g |     |
| 770-L2                                                                                                | 380                                    | 6 | 615 |

## 770-L3 Sliding T-Bar

| <div>1/2"</div>  |                                        |   |     |
|-------------------------------------------------------------------------------------------------------|----------------------------------------|---|-----|
| Standard                                                                                              | according to DIN 3122, form A/ISO 3315 |   |     |
| Stock-No.                                                                                             | mm                                     | g |     |
| 770-L3                                                                                                | 300                                    | 4 | 445 |

## 770-L35/L4/L5/L6 Extension Bar

1/2"



Standard according to DIN 3123, form D/ISO 3316

| Stock-No. | mm  | mm | g   |
|-----------|-----|----|-----|
| 770-L35   | 50  | 6  | 90  |
| 770-L 4   | 75  | 6  | 125 |
| 770-L 5   | 125 | 6  | 190 |
| 770-L 6   | 250 | 6  | 325 |

## 770-L9/L10A/L10B Flexible Handle

1/2"



Standard according to DIN 3122, form F/ISO 3315

| Stock-No. | mm  | mm | g   |
|-----------|-----|----|-----|
| 770-L 9   | 250 | 3  | 450 |
| 770-L10A  | 400 | 3  | 635 |
| 770-L10B  | 450 | 3  | 770 |

## 770-L11/L13/L14 770-S9 Socket Converter

1/2"



Standard according to DIN 3123, Form A/ISO 3316

| Stock-No. |  male |  female |  mm |  g |
|-----------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 770-L11   | 3/4 × 1/2                                                                                |                                                                                            | 43                                                                                     | 6 130                                                                                 |
| 770-S9    | 1/2 × 3/4                                                                                |                                                                                            | 43                                                                                     | 6 185                                                                                 |
| 770-L13   | 3/8 × 1/2                                                                                |                                                                                            | 43                                                                                     | 6 62                                                                                  |
| 770-L14   | 1/2 × 3/8                                                                                |                                                                                            | 43                                                                                     | 6 60                                                                                  |

## 770-L20 Flexible Spark Plug Socket

1/2"



Type extra deep, with rubber insert, bi-hexagon, with 1/2" square drive, chrome plated, polished

Material Chrome-Vanadium 31 CrV 3, Code No. 1.2208

Standard Drive acc. to DIN 3120/ISO 1174

| Stock-No. | mm                  | mm  | mm  | mm | g   |
|-----------|---------------------|-----|-----|----|-----|
| 770-L20-1 | 16 mm (5/8" AF)     | M10 | 105 | 1  | 185 |
| 770-L20-2 | 20,8 mm (13/16" AF) | M14 | 95  | 1  | 185 |

## 770-L21 Radiator Petcock Socket

1/2"



Application for use on Caterpillar and other vehicles, for loosening and tightening of radiator petcock screws

Type chrome plated, with 1/2" square drive

| Stock-No. | mm | mm | g  |
|-----------|----|----|----|
| 770-L21   | 40 | 6  | 55 |

## 770-L22 Drain Plug Wrench

1/2"



Application for use on Caterpillar and other vehicles, for loosening and tightening of drain plugs

Type chrome plated, with 1/2" square drive

| Stock-No. | mm | mm | g   |
|-----------|----|----|-----|
| 770-L22   | 44 | 6  | 180 |

## 770-V Wobble Extension Bar

1/2"



Application for use as flexible extension bar with swivel angle 12.5° to each direction, especially suitable for flare connections within cramped areas

| Stock-No. | mm  | mm | g   |
|-----------|-----|----|-----|
| 770-L 4V  | 75  | 6  | 125 |
| 770-L 5V  | 125 | 6  | 190 |
| 770-L55V  | 150 | 6  | 220 |
| 770-L 6V  | 250 | 6  | 325 |

## 770-L7 Universal Joint

1/2"



Standard according to DIN 3123, Form C/ISO 3315

| Stock-No. | mm | mm | g   |
|-----------|----|----|-----|
| 770-L7    | 75 | 6  | 145 |

## 770-L8 Offset Handle

1/2"



Standard according to DIN 3122, Form G/ISO 3315

| Stock-No. | mm  | mm | g   |
|-----------|-----|----|-----|
| 770-L8    | 190 | 6  | 220 |

## 770-L16/L17/L18 Screwdriver Sockets

1/2"



Application for plain slot screws

| Stock-No. | tip size | mm | mm | g  |
|-----------|----------|----|----|----|
| 770-L16   | 24×4,0   | 43 | 6  | 86 |
| 770-L17   | 19×3,0   | 43 | 6  | 62 |
| 770-L18   | 13×2,0   | 43 | 6  | 60 |

## Socket Sets

- Sockets with 1/2" square drive according to DIN 3120/ISO 1174, DIN 3124/ISO 2725
- Socket parts with 1/2" square drive according to DIN 3122/ISO 3315, DIN 3123/ISO 3316
- Type: in black metal storage case with plastic insert

### 771-LF/LD Socket Sets

Type in black plastic storage unit with transparent plastic cover

| Stock-No.       | Ratchet | Sockets           |   | g    |
|-----------------|---------|-------------------|---|------|
| <b>771-LF19</b> |         | 10, 13, 17, 19 mm | 1 | 835  |
| <b>771-LD19</b> |         |                   | 1 | 850  |
| <b>771-LF34</b> |         | 16, 18, 21, 34 mm | 1 | 1035 |
| <b>771-LD34</b> |         |                   | 1 | 1050 |



1/2"

### MS-11/12 Module



1/2"

Application For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220

Type Black, with transparent cover

Material ABS

| Stock-No.    | Contents                                                                                                                                     |   | g    |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| <b>MS-11</b> | 770-L1D Reversible ratchet<br>770-L 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 22 mm<br>770-L6 Extension bar 250 mm<br>770-L3 Sliding T-bar | 1 | 2200 |
| <b>MS-12</b> | same as MS-11; but all sockets in hexagon pattern                                                                                            | 1 | 2200 |

### MS-16/17 Module



1/2"

Application For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220

Type Black, with transparent cover

Material ABS

| Stock-No.    | Contents                                                                                                                                                                                                                                    |   | g    |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| <b>MS-16</b> | 770-L1D Reversible ratchet<br>770-L 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 30; 32 mm<br>770-L3 Sliding T-bar<br>770-L5 Extension bar 125 mm<br>770-L6 Extension bar 250 mm<br>770-L7 Universal joint 75 mm | 1 | 3500 |
| <b>MS-17</b> | same as MS-16; but all sockets in hexagon pattern                                                                                                                                                                                           | 1 | 3500 |

### 714-6MU Socket Set 1/2" and 1/4"

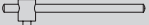
| Stock-No.      | Ratchet            | Sockets                                                                    | Accessories                                                                      |   | g    |
|----------------|--------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------|---|------|
| <b>714-6MU</b> | 1450-1D<br>770-L1D | 5, 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm<br>10, 13, 15, 17, 19, 22, 24, 27 mm | 1450-3<br>1450-5, 100 mm<br>1450-8<br>770-L5, 125 mm<br>770-L6, 250 mm<br>770-L7 | 1 | 3600 |



1/4"

1/2"

## 770/771-LK Socket Sets

| Stock-No.                                                                                                  | Ratchet                                                                                       | Sockets                                                                                                                                            | Accessories                                                                                         |  | <br>kg |  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--|
| 770-LKMU                  |              |  10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22 mm                | <br>770-L3         | 1                                                                                 | 4,0                                                                                     |  |
| 771-LKMU                  | 770-L1D                                                                                       |                                                                                                                                                    |                                                                                                     | 1                                                                                 | 4,0                                                                                     |  |
| 770-LKMUN <br><i>New!</i> | <br>770-L1UN |                                                                                                                                                    |                                                                                                     | 1                                                                                 | 3,9                                                                                     |  |
| 771-LKMUN <br><i>New!</i> |                                                                                               |                                                                                                                                                    |                                                                                                     | 1                                                                                 | 3,9                                                                                     |  |
| 770-LKAU                  |              |  7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1 AF | <br>770-L6, 250 mm | 1                                                                                 | 3,9                                                                                     |  |
| 771-LKAU                  | 770-L1D                                                                                       |                                                                                                                                                    |                                                                                                     | 1                                                                                 | 3,9                                                                                     |  |
| 770-LKAUN <br><i>New!</i> | <br>770-L1UN |                                                                                                                                                    |                                                                                                     | 1                                                                                 | 3,8                                                                                     |  |
| 771-LKAUN <br><i>New!</i> |                                                                                               |                                                                                                                                                    |                                                                                                     | 1                                                                                 | 3,8                                                                                     |  |



1/2"

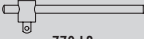
## 770/771-LIND Socket Sets

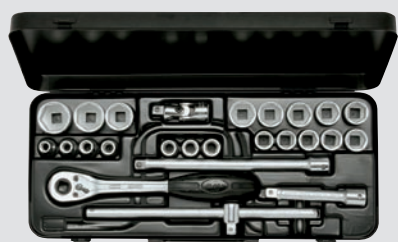
| Stock-No.   | Ratchet | Sockets                                                                              | Accessories                                          |   | <br>kg |
|-------------|---------|--------------------------------------------------------------------------------------|------------------------------------------------------|---|--------|
| 770-LINDMF  |         | 10, 11, 12, 13, 14, 15, 16, 17, 19, 22, 24, 27, 30, 32 mm                            | 770-L3<br>770-L5, 125 mm<br>770-L6, 250 mm<br>770-L7 | 1 | 4,3    |
| 771-LINDMF  | 770-L1F |                                                                                      |                                                      | 1 | 4,3    |
| 770-LINDMU  |         |                                                                                      |                                                      | 1 | 4,3    |
| 771-LINDMU  | 770-L1D |                                                                                      |                                                      | 1 | 4,3    |
| 770-LINDMUN |         |                                                                                      |                                                      | 1 | 4,2    |
| 771-LINDMUN |         |                                                                                      |                                                      | 1 | 4,2    |
| 770-LINDAF  |         | 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 13/16, 7/8, 1, 1.1/16, 1.1/8, 1.1/4 AF | 770-L3<br>770-L5, 125 mm<br>770-L6, 250 mm<br>770-L7 | 1 | 4,3    |
| 771-LINDAF  | 770-L1F |                                                                                      |                                                      | 1 | 4,3    |
| 770-LINDAU  |         |                                                                                      |                                                      | 1 | 4,3    |
| 771-LINDAU  | 770-L1D |                                                                                      |                                                      | 1 | 4,3    |
| 770-LINDAUN |         |                                                                                      |                                                      | 1 | 4,2    |
| 771-LINDAUN |         |                                                                                      |                                                      | 1 | 4,2    |



1/2"

## 770/771-OKLM/OKLA/OKLE Socket Sets

| Stock-No.                                                                                                      | Ratchet                                                                                         | Sockets                                                                                                                                                                                               | Accessories                                                                                                                                                                                                                                                                                                               |  | <br>kg |  |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--|
| 770-OK LMU                  |              |  10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 30, 32 mm                                 | <br>770-L3<br><br>770-L5, 125 mm<br>770-L6, 250 mm<br><br>770-L7 | 1                                                                                   | 5,2                                                                                       |  |
| 771-OK LMU                  | 770-L1D                                                                                         |                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                           | 1                                                                                   | 5,2                                                                                       |  |
| 770-OK LMUN <br><b>New!</b> | <br>770-L1UN |                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                           | 1                                                                                   | 5,1                                                                                       |  |
| 771-OK LMUN <br><b>New!</b> |                                                                                                 |                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                           | 1                                                                                   | 5,1                                                                                       |  |
| 770-OK LAU                  |              |  3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 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 AF |                                                                                                                                                                                                                                                                                                                           | 1                                                                                   | 5,1                                                                                       |  |
| 771-OK LAU                  | 770-L1D                                                                                         |                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                           | 1                                                                                   | 5,1                                                                                       |  |
| 770-OK LAUN <br><b>New!</b> | <br>770-L1UN |                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                           | 1                                                                                   | 5,0                                                                                       |  |
| 771-OK LAUN <br><b>New!</b> |                                                                                                 |                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                           | 1                                                                                   | 5,0                                                                                       |  |
| 770-OK LEU                  |              |  1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 Whitw                                                 |                                                                                                                                                                                                                                                                                                                           | 1                                                                                   | 4,3                                                                                       |  |
| 770-OK LEUN <br><b>New!</b> | <br>770-L1UN |                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                           | 1                                                                                   | 4,2                                                                                       |  |

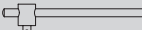
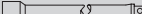


1/2"



## 770/771-LM/LA/LE

### Socket Sets

| Stock-No.                                                                                  | Ratchet                                                                                             | Sockets                                                                                                                                                             | Accessories                                                                                 |                                                                                                                    | <br>kg             |     |     |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----|-----|
| 770-LMF   |                    |  10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 30, 32 mm | <br>770-L2 | 1                                                                                                                                                                                                   | 5,8                                                                                                 |     |     |
| 771-LMF   | 770-L1F                                                                                             |                                                                                                                                                                     |                                                                                             | 1                                                                                                                                                                                                   | 5,8                                                                                                 |     |     |
| 770-LMU   |                    |                                                                                                                                                                     |                                                                                             | 1                                                                                                                                                                                                   | 5,8                                                                                                 |     |     |
| 771-LMU   | 770-L1D                                                                                             |                                                                                                                                                                     |                                                                                             | 1                                                                                                                                                                                                   | 5,8                                                                                                 |     |     |
| 770-LMUN  | <br>New! 770-L1TUN |                                                                                                                                                                     |                                                                                             | 1                                                                                                                                                                                                   | 5,7                                                                                                 |     |     |
| 771-LMUN  |                                                                                                     |                                                                                                                                                                     |                                                                                             | 1                                                                                                                                                                                                   | 5,7                                                                                                 |     |     |
| 770-LAF   |                    |                                                                                                                                                                     |                                                                                             | <br>770-L3                                                                                                         | 1                                                                                                   | 5,7 |     |
| 771-LAF   |                                                                                                     |                                                                                                                                                                     |                                                                                             | 770-L1F                                                                                                                                                                                             | 1                                                                                                   | 5,7 |     |
| 770-LAU   |                                                                                                     |                                                                                                                                                                     |                                                                                             |  3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 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 AF | <br>770-L5, 125 mm | 1   | 5,7 |
| 771-LAU   |                                                                                                     |                                                                                                                                                                     |                                                                                             |                                                                                                                                                                                                     | 770-L6, 250 mm                                                                                      | 1   | 5,7 |
| 770-LAUN  | <br>770-L7         | 1                                                                                                                                                                   |                                                                                             |                                                                                                                                                                                                     | 5,6                                                                                                 |     |     |
| 771-LAUN  | <br>New! 770-L1TUN | 1                                                                                                                                                                   |                                                                                             | 5,6                                                                                                                                                                                                 |                                                                                                     |     |     |
| 770-LEU   |                                                                                                     |                                                                                    |                                                                                             | 1                                                                                                                                                                                                   | 4,9                                                                                                 |     |     |
| 770-LEUN  | <br>New! 770-L1TUN |  1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 Whitw                 |                                                                                             | 1                                                                                                                                                                                                   | 4,8                                                                                                 |     |     |



1/2"

## 770/771-OK LAM

### Socket Sets

| Stock-No.    | Ratchet | Sockets                                       | Accessories                                          |   | kg  |
|--------------|---------|-----------------------------------------------|------------------------------------------------------|---|-----|
| 770-OK LAMU  |         | 10, 11, 13, 14, 17, 19, 22, 24, 27, 30, 32 mm | 770-L3<br>770-L5, 125 mm<br>770-L6, 250 mm<br>770-L7 | 1 | 4,8 |
| 771-OK LAMU  |         |                                               |                                                      | 1 | 4,8 |
| 770-OK LAMUN |         |                                               |                                                      | 1 | 4,7 |
| 771-OK LAMUN |         |                                               |                                                      | 1 | 4,7 |

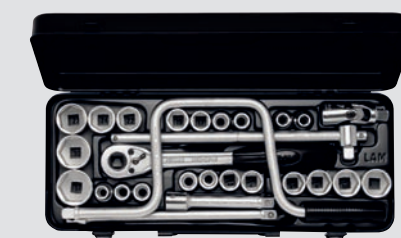


1/2"

## 770/771-LAM

### Socket Sets

| Stock-No. | Ratchet | Sockets                                       | Accessories                                                    |   | kg  |
|-----------|---------|-----------------------------------------------|----------------------------------------------------------------|---|-----|
| 770-LAMU  |         | 10, 11, 13, 14, 17, 19, 22, 24, 27, 30, 32 mm | 770-L2<br>770-L3<br>770-L5, 125 mm<br>770-L6, 250 mm<br>770-L7 | 1 | 5,4 |
| 771-LAMU  |         |                                               |                                                                | 1 | 5,4 |
| 770-LAMUN |         |                                               |                                                                | 1 | 5,3 |
| 771-LAMUN |         |                                               |                                                                | 1 | 5,3 |



1/2"

| 770/771 LSSM Socket Sets |         |                                                                                                                                                                                                                                                                    |                                                                                                                          |    |      |
|--------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----|------|
| Stock-No.                | Ratchet | Sockets                                                                                                                                                                                                                                                            | Accessories                                                                                                              | kg |      |
| 770-LSSMF                |         | <ul style="list-style-type: none"> <li>10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32 mm</li> <li>3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 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 AF</li> </ul> | 770-L2<br>770-L3<br>770-L4, 75 mm<br>770-L5, 125 mm<br>770-L6, 250 mm<br>770-L7<br>770-L8<br>770-L10A, 400 mm<br>770-L13 | 1  | 13,6 |
| 771-LSSMF                | 770-L1F | <ul style="list-style-type: none"> <li>3/16, 1/4, 5/16, 3/8, 7/16, 1/2 Whitw</li> <li>16 mm (5/8 AF)</li> <li>20,8 mm (13/16 AF)</li> <li>IS 19x3 mm</li> </ul>                                                                                                    | 770-L7<br>770-L8<br>770-L10A, 400 mm<br>770-L13                                                                          | 1  | 13,6 |



1/2"

| 770-LTI Socket Sets      |          |                                                                                                         |                                                      |    |     |
|--------------------------|----------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------|----|-----|
| Stock-No.                | Ratchet  | Sockets                                                                                                 | Accessories                                          | kg |     |
| 770-LTIU                 | 770-L1D  | <ul style="list-style-type: none"> <li>10, 11, 13, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32 mm</li> </ul> | 770-L3<br>770-L5, 125 mm<br>770-L6, 250 mm<br>770-L7 | 1  | 5,6 |
| 770-LTIUN<br><b>New!</b> | 770-L1UN |                                                                                                         |                                                      | 1  | 5,5 |



1/2"

| 770-LT Socket Sets      |          |                                                                                                                   |                                                      |    |     |
|-------------------------|----------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----|-----|
| Stock-No.               | Ratchet  | Sockets                                                                                                           | Accessories                                          | kg |     |
| 770-LTU                 | 770-L1D  | <ul style="list-style-type: none"> <li>770-L 10, 11, 12, 13, 14, 15, 16, 17, 19, 22, 24, 27, 30, 32 mm</li> </ul> | 770-L3<br>770-L5, 125 mm<br>770-L6, 250 mm<br>770-L7 | 1  | 5,9 |
| 770-LTUN<br><b>New!</b> | 770-L1UN | <ul style="list-style-type: none"> <li>770-LT 10, 11, 12, 13, 14, 15, 17, 19, 21, 22 mm</li> </ul>                |                                                      | 1  | 5,8 |



1/2"

| 770-IN     |                                                                                                                                                                                                         | Socket Set with Titan Coated Screwdriver Sockets<br>Socket Sets with Standard Screwdriver Sockets |                                                                                   |                                                                                        |  |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--|
| Type       | Stock.-No. 770-INMTIN: Screwdriver socket bits titan coated for absolute precision, for a higher torque and better corrosion prevention<br>Stock.-No. 770-INM and 770-INA: Standard screwdriver sockets |                                                                                                   |                                                                                   |                                                                                        |  |
| Stock-No.  | Sockets                                                                                                                                                                                                 |                                                                                                   |  | <br>g |  |
| 770-INMTIN |  IN 4, 5, 6, 8, 10, 12, 14, 17, 19 mm                                                                                  |                                                                                                   | 1                                                                                 | 1415                                                                                   |  |
| 770-INM    |  IN 4, 5, 6, 8, 10, 12, 14, 17, 19 mm                                                                                  |                                                                                                   | 1                                                                                 | 1415                                                                                   |  |
| 770-INA    |  IN 3/16, 1/4, 5/16, 3/8, 1/2, 9/16, 3/4 AF                                                                            |                                                                                                   | 1                                                                                 | 1250                                                                                   |  |



1/2"



1/2"

| 770-KIN                   |              | Socket Sets                                  |                    |   |     |
|---------------------------|--------------|----------------------------------------------|--------------------|---|-----|
| Stock-No.                 | Ratchet      | Sockets                                      | Accessories        |   |     |
|                           |              |                                              |                    |   | kg  |
| 770-KINMU                 | <br>770-L1D  | ● IN 4, 5, 6, 7, 8, 10, 12, 14, 17, 19 mm    | <br>770-L5, 125 mm | 1 | 2,6 |
| 770-KINMUN<br><i>New!</i> | <br>770-L1UN |                                              |                    | 1 | 2,5 |
| 770-KINAU                 | <br>770-L1D  |                                              |                    | 1 | 2,3 |
| 770-KINAUN<br><i>New!</i> | <br>770-L1UN | ● IN 3/16, 1/4, 5/16, 3/8, 1/2, 9/16, 3/4 AF |                    | 1 | 2,2 |

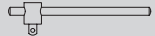
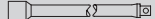
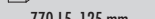


1/2"

| 770/771-OK LIM                |              | Socket Sets                                                                 |                                                    |   |     |
|-------------------------------|--------------|-----------------------------------------------------------------------------|----------------------------------------------------|---|-----|
| Stock-No.                     | Ratchet      | Sockets                                                                     | Accessories                                        |   |     |
|                               |              |                                                                             |                                                    |   | kg  |
| 770-OK LIMU ○                 | <br>770-L1D  | ○ 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 30, 32 mm | <br>770-L3<br><br>770-L5, 125 mm<br>770-L6, 250 mm | 1 | 5,4 |
| 771-OK LIMU ○                 |              |                                                                             |                                                    | 1 | 5,4 |
| 770-OK LIMUN ○<br><i>New!</i> | <br>770-L1UN | ● IN 5, 6, 7, 8, 10, 12, 14 mm                                              | <br>770-L7                                         | 1 | 5,3 |
| 771-OK LIMUN ○<br><i>New!</i> |              |                                                                             |                                                    | 1 | 5,3 |



1/2"

| 770/771-LIM Socket Sets                                                                                    |                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                            |                                                                                   |                                                                                         |                                                                                     |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Stock-No.                                                                                                  | Ratchet                                                                                       | Sockets                                                                                                                                                                                                                                                                                                                                                                            | Accessories                                                                                                                                                                                                |  | <br>kg |                                                                                     |
| 770-LIMU                  | <br>770-L1D  | <div>  10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 30, 32 mm</div> <div> IN 5, 6, 7, 8, 10, 12, 14 mm</div> | <br>770-L2                                                                                                                | 1                                                                                 | 6,0                                                                                     |  |
| 771-LIMU                  |                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                    | <br>770-L3                                                                                                                | 1                                                                                 | 6,0                                                                                     |                                                                                     |
| 770-LIMUN <br><i>New!</i> | <br>770-L1UN |                                                                                                                                                                                                                                                                                                                                                                                    | <br>770-L5, 125 mm<br><br>770-L6, 250 mm | 1                                                                                 | 5,9                                                                                     |                                                                                     |
| 771-LIMUN <br><i>New!</i> |                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                    | <br>770-L7                                                                                                                | 1                                                                                 | 5,9                                                                                     |                                                                                     |

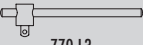
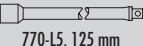
1/2"

| 770-XZN Socket Set |                                    |   |      |                 |
|--------------------|------------------------------------|---|------|-----------------|
| Stock-No.          | Sockets                            |   | g    |                 |
| 770-XZN            | XZN M5, M6, M8, M10, M12, M14, M16 | 1 | 1120 | <div>1/2"</div> |

| 770-KXZN Socket Sets |          |                                    |                |   |     |
|----------------------|----------|------------------------------------|----------------|---|-----|
| Stock-No.            | Ratchet  | Sockets                            | Accessories    |   | kg  |
| 770-KXZNU            | 770-L1D  | XZN M5, M6, M8, M10, M12, M14, M16 | 770-L5, 125 mm | 1 | 2,4 |
| 770-KXZNUN           | 770-L1UN |                                    |                | 1 | 2,3 |

# SOCKETS, SOCKET PARTS, SOCKET AND SPANNER SETS 1/2"

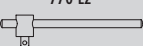
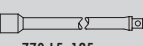
## 770/771-OK LXZN Socket Sets

| Stock-No.                                                                                                      | Ratchet                                                                                       | Sockets                                                                       | Accessories                                                                                                           |  | <br>kg |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 770-OK LXZNU                  | <br>770-L1D  | ○ ○ 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 30, 32 mm | <br>770-L3                           | 1                                                                                 | 5,4                                                                                     |
| 771-OK LXZNU                  |                                                                                               |                                                                               | <br>770-L5, 125 mm<br>770-L6, 250 mm | 1                                                                                 | 5,3                                                                                     |
| 770-OK LXZNUN <br><b>New!</b> | <br>770-L1UN | ● XZN M5, M6, M8, M10, M12, M14, M16                                          | <br>770-L7                           | 1                                                                                 | 5,3                                                                                     |
| 771-OK LXZNUN <br><b>New!</b> |                                                                                               |                                                                               |                                                                                                                       |                                                                                   |                                                                                         |



1/2"

## 770/771-LXZN Socket Sets

| Stock-No.                                                                                                     | Ratchet                                                                                         | Sockets                                                                       | Accessories                                                                                                            |  | <br>kg |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 770-LXZNU                    | <br>770-L1D    | ○ ○ 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 30, 32 mm | <br>770-L2                            | 1                                                                                 | 6,0                                                                                     |
| 771-LXZNU                    |                                                                                                 |                                                                               | <br>770-L3                            | 1                                                                                 | 6,0                                                                                     |
| 770-LXZNUN <br><b>New!</b>  | <br>770-L1UN | ● XZN M5, M6, M8, M10, M12, M14, M16                                          | <br>770-L5, 125 mm<br>770-L6, 250 mm | 1                                                                                 | 5,9                                                                                     |
| 771-LXZNUN <br><b>New!</b> |                                                                                                 |                                                                               | <br>770-L7                          | 1                                                                                 | 5,9                                                                                     |



1/2"

## 770-TX/TTX Socket Sets

| Stock-No. | Sockets                                  |  | <br>g |
|-----------|------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 770-TX    | ★ TX 20, 25, 27, 30, 40, 45, 50, 55, 60  | 1                                                                                   | 1170                                                                                     |
| 770-TTX   | ★ TTX 20, 25, 27, 30, 40, 45, 50, 55, 60 | 1                                                                                   | 1160                                                                                     |



1/2"



## 770-KTX/ KTTX

### Socket Sets

| Stock-No.                 | Ratchet  | Sockets                                  | Accessories    |   | kg  |
|---------------------------|----------|------------------------------------------|----------------|---|-----|
| 770-KTXU                  | 770-L1D  | ★ TX 20, 25, 27, 30, 40, 45, 50, 55, 60  | 770-L5, 125 mm | 1 | 2,4 |
| 770-KTXUN<br><b>New!</b>  | 770-L1UN |                                          |                | 1 | 2,3 |
| 770-KTTXU                 | 770-L1D  | ★ TTX 20, 25, 27, 30, 40, 45, 50, 55, 60 | 770-L5, 125 mm | 1 | 2,4 |
| 770-KTTXUN<br><b>New!</b> | 770-L1UN |                                          |                | 1 | 2,3 |



1/2"

## 770/771- OK LTX/ OK LTTX

### Socket Sets

| Stock-No.                      | Ratchet  | Sockets                                                                      | Accessories                                |   | kg  |
|--------------------------------|----------|------------------------------------------------------------------------------|--------------------------------------------|---|-----|
| 770-OK LTXU ○                  | 770-L1D  | ○○ 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 30, 32 mm | 770-L3                                     | 1 | 5,4 |
| 771-OK LTXU ○                  |          |                                                                              |                                            | 1 | 5,4 |
| 770-OK LTXUN ○<br><b>New!</b>  | 770-L1UN | ★ TX 25, 27, 30, 40, 45, 50, 55                                              | 770-L3                                     | 1 | 5,3 |
| 771-OK LTXUN ○<br><b>New!</b>  |          |                                                                              |                                            | 1 | 5,3 |
| 770-OK LTTXU ○                 | 770-L1D  | ○○ 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 30, 32 mm | 770-L5, 125 mm<br>770-L6, 250 mm<br>770-L7 | 1 | 5,4 |
| 771-OK LTTXU ○                 |          |                                                                              |                                            | 1 | 5,4 |
| 770-OK LTTXUN ○<br><b>New!</b> | 770-L1UN | ★ TTX 25, 27, 30, 40, 45, 50, 55                                             | 770-L5, 125 mm<br>770-L6, 250 mm<br>770-L7 | 1 | 5,3 |
| 771-OK LTTXUN ○<br><b>New!</b> |          |                                                                              |                                            | 1 | 5,3 |



1/2"

## 770/771- LTX/LTTX

### Socket Sets

| Stock-No.                   | Ratchet  | Sockets                                                                      | Accessories                                |   | kg  |
|-----------------------------|----------|------------------------------------------------------------------------------|--------------------------------------------|---|-----|
| 770-LTXU ○                  | 770-L1D  | ○○ 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 30, 32 mm | 770-L2                                     | 1 | 6,0 |
| 771-LTXU ○                  |          |                                                                              |                                            | 1 | 6,0 |
| 770-LTXUN ○<br><b>New!</b>  | 770-L1UN | ★ TX 25, 27, 30, 40, 45, 50, 55                                              | 770-L2                                     | 1 | 5,9 |
| 771-LTXUN ○<br><b>New!</b>  |          |                                                                              |                                            | 1 | 5,9 |
| 770-LTTXU ○                 | 770-L1D  | ○○ 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 30, 32 mm | 770-L5, 125 mm<br>770-L6, 250 mm<br>770-L7 | 1 | 6,0 |
| 771-LTTXU ○                 |          |                                                                              |                                            | 1 | 6,0 |
| 770-LTTXUN ○<br><b>New!</b> | 770-L1UN | ★ TTX 25, 27, 30, 40, 45, 50, 55                                             | 770-L5, 125 mm<br>770-L6, 250 mm<br>770-L7 | 1 | 5,9 |
| 771-LTTXUN ○<br><b>New!</b> |          |                                                                              |                                            | 1 | 5,9 |



1/2"

| 771-LMITX/LMITTX Socket Sets |          |                                                        |                                            |   |     |                 |
|------------------------------|----------|--------------------------------------------------------|--------------------------------------------|---|-----|-----------------|
| Stock-No.                    | Ratchet  | Sockets                                                | Accessories                                |   | kg  |                 |
| 771-LMITXU                   | 770-L1P  | ○ 10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30 mm    | 770-L5, 125 mm<br>770-L6, 250 mm<br>770-L7 | 1 | 4,6 | <div>1/2"</div> |
| 771-LMITXUN                  | 770-L1UN | ● IN 5, 6, 7, 8, 10, 12, 14 mm<br>★ TX 30, 40, 45, 50  |                                            | 1 | 4,5 |                 |
| 771-LMITTXU                  | 770-L1P  | ○ 10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30 mm    |                                            | 1 | 4,5 |                 |
| 771-LMITTXUN                 | 770-L1UN | ● IN 5, 6, 7, 8, 10, 12, 14 mm<br>★ TTX 30, 40, 45, 50 |                                            | 1 | 4,5 |                 |

| 770/771-RDSM Socket Sets |          |                                                     |                                                      |   |     |                 |
|--------------------------|----------|-----------------------------------------------------|------------------------------------------------------|---|-----|-----------------|
| Stock-No.                | Ratchet  | Sockets                                             | Accessories                                          |   | kg  |                 |
| 770-RDSMU                | 770-L1P  | ○ 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22 mm | 770-L3<br>770-L5, 125 mm<br>770-L6, 250 mm<br>770-L7 | 1 | 5,5 | <div>1/2"</div> |
| 771-RDSMU                |          | 100- 8×9, 10×11, 12×13, 14×15, 16×17, 18×19 mm      |                                                      | 1 | 5,4 |                 |
| 770-RDSMUN               | 770-L1UN | 110- 8×9, 10×11, 12×13, 14×15, 16×17, 18×19 mm      |                                                      | 1 | 5,4 |                 |
| 771-RDSMUN               |          |                                                     |                                                      | 1 | 5,4 |                 |

| 770/771-RDS12M Socket Sets |          |                                                                                        |                                                      |   |      |                 |
|----------------------------|----------|----------------------------------------------------------------------------------------|------------------------------------------------------|---|------|-----------------|
| Stock-No.                  | Ratchet  | Sockets                                                                                | Accessories                                          |   | kg   |                 |
| 770-RDS12MU                | 770-L1D  | ○ 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 30, 32 mm    | 770-L3<br>770-L5, 125 mm<br>770-L6, 250 mm<br>770-L7 | 1 | 11,0 | <div>1/2"</div> |
| 771-RDS12MU                |          | 100- 6×7, 8×9, 10×11, 12×13, 14×15, 16×17, 18×19, 20×22, 21×23, 24×27, 25×28, 30×32 mm |                                                      | 1 | 10,9 |                 |
| 770-RDS12MUN               | 770-L1UN | 110- 6×7, 8×9, 10×11, 12×13, 14×15, 16×17, 18×19, 20×22, 21×23, 24×27, 25×28, 30×32 mm |                                                      | 1 | 10,9 |                 |
| 771-RDS12MUN               |          |                                                                                        |                                                      | 1 | 10,9 |                 |

## Sockets

- Type: knurled, chrome-plated
- Material: Chrome-Vanadium 31 CrV 3, Code No. 1.2208
- Standard: 3/4" square drive acc. to DIN 3120/ISO 1174, with locking pin, for manual drive, sizes acc. to DIN 3124/ISO 2725

### 770-S 771-S Sockets



3/4"

Application for outside hexagon bolts  
Type 770S: bi-hexagon, 771S: hexagon

| Stock-No. | Stock-No. | mm   | mm | g    | Stock-No.      | mm   | g    |
|-----------|-----------|------|----|------|----------------|------|------|
| ○         | ○         |      |    |      | ○              |      |      |
| 770-S 18  | 771-S 18  | 50,0 | 3  | 170  | 770-SA 3/4     | 50,0 | 170  |
| 770-S 19  | 771-S 19  | 50,0 | 3  | 170  | 770-SA 13/16   | 50,5 | 185  |
| 770-S 21  | 771-S 21  | 50,5 | 3  | 180  | 770-SA 7/8     | 50,5 | 190  |
| 770-S 22  | 771-S 22  | 50,5 | 3  | 190  | 770-SA 15/16   | 51,0 | 190  |
| 770-S 23  | 771-S 23  | 51,0 | 3  | 200  | 770-SA 31/32   | 53,0 | 190  |
| 770-S 24  | 771-S 24  | 52,0 | 3  | 190  | 770-SA 1       | 53,0 | 215  |
| 770-S 25  | 771-S 25  | 53,0 | 3  | 220  | 770-SA 1.1/16  | 55,0 | 235  |
| 770-S 26  | 771-S 26  | 53,0 | 3  | 235  | 770-SA 1.1/8   | 55,5 | 245  |
| 770-S 27  | 771-S 27  | 55,0 | 3  | 230  | 770-SA 1.3/16  | 57,0 | 255  |
| 770-S 28  | 771-S 28  | 55,5 | 3  | 260  | 770-SA 1.1/4   | 58,0 | 335  |
| 770-S 29  | 771-S 29  | 55,5 | 3  | 275  | 770-SA 1.5/16  | 59,5 | 350  |
| 770-S 30  | 771-S 30  | 57,0 | 3  | 290  | 770-SA 1.3/8   | 60,0 | 395  |
| 770-S 32  | 771-S 32  | 58,5 | 3  | 330  | 770-SA 1.7/16  | 62,0 | 435  |
| 770-S 33  | 771-S 33  | 59,5 | 3  | 350  | 770-SA 1.1/2   | 64,0 | 510  |
| 770-S 34  | 771-S 34  | 60,0 | 3  | 360  | 770-SA 1.9/16  | 66,0 | 540  |
| 770-S 36  | 771-S 36  | 62,0 | 3  | 430  | 770-SA 1.5/8   | 66,0 | 585  |
| 770-S 37  | 771-S 37  | 63,0 | 3  | 470  | 770-SA 1.11/16 | 69,0 | 615  |
| 770-S 38  | 771-S 38  | 64,0 | 3  | 510  | 770-SA 1.3/4   | 69,0 | 600  |
| 770-S 41  | 771-S 41  | 66,0 | 3  | 605  | 770-SA 1.13/16 | 70,0 | 710  |
| 770-S 42  | 771-S 42  | 67,0 | 3  | 570  | 770-SA 1.7/8   | 70,0 | 720  |
| 770-S 46  | 771-S 46  | 71,0 | 3  | 720  | 770-SA 2       | 75,0 | 895  |
| 770-S 47  | 771-S 47  | 73,0 | 1  | 730  | 770-SA 2.1/16  | 75,0 | 950  |
| 770-S 50  | 771-S 50  | 75,0 | 1  | 840  | 770-SA 2.1/8   | 77,0 | 1045 |
| 770-S 52  | 771-S 52  | 76,0 | 1  | 965  | 770-SA 2.3/16  | 78,0 | 1095 |
| 770-S 54  | 771-S 54  | 76,0 | 1  | 955  | 770-SA 2.1/4   | 78,0 | 1220 |
| 770-S 55  | 771-S 55  | 80,0 | 1  | 1110 | 770-SA 2.3/8   | 83,0 | 1380 |
| 770-S 60  | 771-S 60  | 84,0 | 1  | 1345 |                |      |      |

### 770-SIN Screwdriver Sockets



3/4"

Application for hexagon socket head cap screws

| Stock-No.  | mm     | mm | mm | g   |
|------------|--------|----|----|-----|
| ○          |        |    |    |     |
| 770-SIN 14 | M16-18 | 55 | 3  | 180 |
| 770-SIN 17 | M20-22 | 55 | 3  | 190 |
| 770-SIN 19 | M24-27 | 55 | 3  | 200 |
| 770-SIN 22 | M30    | 55 | 3  | 215 |

## Socket Parts

- Application: for sockets with 3/4" square drive according to DIN 3120/ISO 1174, with locking pin, for manual drive
- Type: chrome-plated
- Material: Chrome-Vanadium 31 CrV 3, Code No. 1.2208

### 770-S1U Reversible Ratchet

3/4"



Type with forged gear rim  
Standard according to DIN 3122, form D/ISO 3315, with male and female coupler square

| Stock-No. | mm  | mm | g    |
|-----------|-----|----|------|
| ○         |     |    |      |
| 770-S1U   | 500 | 1  | 1950 |

### 770-S1K Reversible Ratchet Head

3/4"



Application for use with tommy bar Stock-No. 770-S7  
Type with forged gear rim, for locking pin  
Standard according to DIN 3122, form D / ISO 3315, with male and female coupler square

| Stock-No. | mm  | mm | g    |
|-----------|-----|----|------|
| ○         |     |    |      |
| 770-S1K   | 160 | 1  | 1365 |
| 770-S7    | 500 | 3  | 1335 |

### 770-S16 Repair Kit

3/4"



Application for reversible ratchet Stock-No. 770-S1U and reversible ratchet head Stock-No. 770-S1K

| Stock-No. | mm | g   |
|-----------|----|-----|
| ○         |    |     |
| 770-S16   | 1  | 530 |

### 770-S1A Ratchet Unit

3/4"



Application for left and right hand use, as accessory for socket parts like torque wrenches etc.  
Type with pin to change direction  
Standard square drive according to DIN 3120/ISO 1174

| Stock-No. | female-□ | male-■ | mm | mm   | g |
|-----------|----------|--------|----|------|---|
| ○         |          |        |    |      |   |
| 770-S1A   | 3/4"     | 98     | 1  | 1530 |   |

## 770-S1Z1 Push Through Ratchet

3/4"



|           |                                        |   |      |   |
|-----------|----------------------------------------|---|------|---|
| Type      | with forged gear rim                   |   |      |   |
| Standard  | according to DIN 3122, form C/ISO 3315 |   |      |   |
| Stock-No. | mm                                     |   |      | g |
| 770-S1Z1  | 500                                    | 1 | 1395 |   |

## 770-S17 Repair Kit

3/4"



|             |                                             |     |  |  |
|-------------|---------------------------------------------|-----|--|--|
| Application | for push through ratchet Stock-No. 770-S1Z1 |     |  |  |
| Type        | with coupler square Stock-No. 770-S1V       |     |  |  |
| Stock-No.   |                                             |     |  |  |
| 770-S17     | 1                                           | 340 |  |  |

## 770-S1V Coupler Square

3/4"



|             |                                                                                                                                                             |   |     |   |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|---|
| Application | for push through ratchet Stock-No. 770-S1Z1 and in order to couple 3/4" sockets to reversible ratchet Stock-No. 770-S1U and reversible ratchet head 770-S1K |   |     |   |
| Stock-No.   | mm                                                                                                                                                          |   |     | g |
| 770-S1V     | 42                                                                                                                                                          | 6 | 135 |   |

## 765 Ratchet operated Podger Spanner

3/4"



|             |                                                                               |   |      |   |
|-------------|-------------------------------------------------------------------------------|---|------|---|
| Application | for assembly and disassembly of scaffolds                                     |   |      |   |
| Type        | Reversible Ratchet with two different sizes, chrome plated with centering tip |   |      |   |
| Material    | Chrome-Vanadium 31 CrV3, Code-No. 1.2208                                      |   |      |   |
| Stock-No.   | mm                                                                            |   |      | g |
| 765- 19x22  | 310                                                                           | 1 | 450  |   |
| 765- 24x30  | 450                                                                           | 1 | 1280 |   |
| 765- 27x32  | 450                                                                           | 1 | 1300 |   |
| 765- 36x41  | 450                                                                           | 1 | 1320 |   |

## 770-S2 Flexible Handle

3/4"



|           |                                        |    |      |   |
|-----------|----------------------------------------|----|------|---|
| Type      | with plastic handle                    |    |      |   |
| Standard  | according to DIN 3122, form F/ISO 3315 |    |      |   |
| Stock-No. | mm                                     | mm |      | g |
| 770-S2    | 500                                    | 1  | 1670 |   |

## 770-S3 Sliding T-Bar

3/4"



|           |                                        |   |      |   |
|-----------|----------------------------------------|---|------|---|
| Standard  | according to DIN 3122, form A/ISO 3315 |   |      |   |
| Stock-No. | mm                                     |   |      | g |
| 770-S3    | 480                                    | 2 | 1447 |   |

## 770-S 4/5/15 Extension Bar

3/4"



|           |                                        |   |      |   |
|-----------|----------------------------------------|---|------|---|
| Standard  | according to DIN 3123, Form B/ISO 3316 |   |      |   |
| Stock-No. | mm                                     |   |      | g |
| 770-S15   | 100                                    | 6 | 335  |   |
| 770-S 4   | 200                                    | 6 | 590  |   |
| 770-S 5   | 400                                    | 3 | 1085 |   |

## 770-S6 Universal Joint

3/4"



|           |                                        |   |     |   |
|-----------|----------------------------------------|---|-----|---|
| Standard  | according to DIN 3123, Form C/ISO 3316 |   |     |   |
| Stock-No. | mm                                     |   |     | g |
| 770-S6    | 100                                    | 1 | 460 |   |

## 770-S7 Tommy Bar

3/4"



|             |                                                                                              |   |      |   |
|-------------|----------------------------------------------------------------------------------------------|---|------|---|
| Application | for reversible ratchet head Stock-No. 770-S1K, flexible head 770-S8 and sliding head 770-S13 |   |      |   |
| Type        |                                                                                              |   |      |   |
| Stock-No.   | mm                                                                                           |   |      | g |
| 770-S7      | 500                                                                                          | 3 | 1335 |   |

## 770-S8 Flexible Head

3/4"



|             |                                         |   |     |   |
|-------------|-----------------------------------------|---|-----|---|
| Application | for use with tommy bar Stock-No. 770-S7 |   |     |   |
| Stock-No.   | mm                                      |   |     | g |
| 770-S8      | 110                                     | 1 | 585 |   |

## 770-S13 Sliding Head

3/4"



|             |                                         |   |     |   |
|-------------|-----------------------------------------|---|-----|---|
| Application | for use with tommy bar Stock-No. 770-S7 |   |     |   |
| Stock-No.   | mm                                      |   |     | g |
| 770-S13     | 65                                      | 3 | 300 |   |

## 770-S9/ L11/S11 780-7 Socket Converter

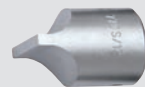
3/4"



|           |                                        |        |    |     |  |
|-----------|----------------------------------------|--------|----|-----|--|
| Standard  | according to DIN 3123, Form A/ISO 3316 |        |    |     |  |
| Stock-No. | male                                   | female | mm |     |  |
| 770-S 9   | 1/2 x 3/4                              | 43     | 6  | 185 |  |
| 770-L11   | 3/4 x 1/2                              | 43     | 6  | 130 |  |
| 770-S11   | 1 x 3/4                                | 55     | 6  | 255 |  |
| 780- 7    | 3/4 x 1                                | 70     | 3  | 425 |  |

## 770-S12 Screwdriver Socket

3/4"



|             |                       |    |   |     |   |
|-------------|-----------------------|----|---|-----|---|
| Application | for plain slot screws |    |   |     |   |
| Stock-No.   | tip size              | mm |   |     | g |
| 770-S12     | 35 x 5                | 55 | 6 | 194 |   |

## 770-S14 Socket Handle

3/4"



|           |                   |   |      |   |
|-----------|-------------------|---|------|---|
| Type      | with plastic grip |   |      |   |
| Stock-No. | mm                |   |      | g |
| 770-S14   | 500               | 1 | 1410 |   |

## Socket Sets

- Sockets with 3/4" square drive according to DIN 3120/ISO 1174, DIN 3124/ISO 2725
- Socket Parts with 3/4" square drive according to DIN 3122/ISO 3315, DIN 3123/ISO 3316
- Type: in black metal storage case with plastic insert

### 770/771-S10 OK

| Stock-No.   | Sockets                                                           | Accessories                                |   | kg   |
|-------------|-------------------------------------------------------------------|--------------------------------------------|---|------|
| 770-S10 OKM |                                                                   |                                            | 1 | 10,8 |
| 771-S10 OKM | 22, 24, 27, 30, 32, 36, 38, 41, 46, 50 mm                         | 770-S3<br>770-S4, 200 mm<br>770-S5, 400 mm | 1 | 10,8 |
| 770-S10 OKA | 7/8, 15/16, 1, 1.1/16, 1.1/4, 1.7/16, 1.1/2, 1.5/8, 1.13/16, 2 AF |                                            | 1 | 10,6 |

3/4"



### 770/771-S10

| Stock-No.  | Ratchet  | Sockets                                                           | Accessories                      |   | kg   |
|------------|----------|-------------------------------------------------------------------|----------------------------------|---|------|
| 770-S10 MU |          |                                                                   |                                  | 1 | 12,7 |
| 771-S10 MU | 770-S1U  |                                                                   |                                  | 1 | 12,7 |
| 770-S10 MZ |          | 22, 24, 27, 30, 32, 36, 38, 41, 46, 50 mm                         | 770-S3                           | 1 | 12,1 |
| 771-S10 MZ | 770-S1ZI |                                                                   | 770-S4, 200 mm<br>770-S5, 400 mm | 1 | 12,1 |
| 770-S10 AU | 770-S1U  |                                                                   |                                  | 1 | 12,6 |
| 770-S10 AZ | 770-S1ZI | 7/8, 15/16, 1, 1.1/16, 1.1/4, 1.7/16, 1.1/2, 1.5/8, 1.13/16, 2 AF |                                  | 1 | 12,0 |

3/4"



### 770/771-S10K

| Stock-No.  | Reversible Ratchet Head | Sockets                                                           | Accessories                      |   | kg   |
|------------|-------------------------|-------------------------------------------------------------------|----------------------------------|---|------|
| 770-S10 KM |                         |                                                                   | 770-S3                           | 1 | 14,0 |
| 771-S10 KM | 770-S1K                 | 22, 24, 27, 30, 32, 36, 38, 41, 46, 50 mm                         | 770-S4, 200 mm<br>770-S5, 400 mm | 1 | 14,0 |
| 770-S10 KA | 770-S1K                 | 7/8, 15/16, 1, 1.1/16, 1.1/4, 1.7/16, 1.1/2, 1.5/8, 1.13/16, 2 AF | 770-S7<br>770-S8                 | 1 | 13,9 |

3/4"





## 770/771-S15 Socket Sets

| Stock-No.  | Ratchet | Sockets                                                                                                 | Accessories                      |   | kg   |
|------------|---------|---------------------------------------------------------------------------------------------------------|----------------------------------|---|------|
| 770-S15 MU |         |                                                                                                         |                                  | 1 | 17,8 |
| 771-S15 MU |         |                                                                                                         |                                  | 1 | 17,8 |
| 770-S15 MZ |         | 21, 22, 24, 27, 28, 30, 32, 34, 36, 38, 41, 42, 46, 47, 50 mm                                           | 770-S2<br>770-S3                 | 1 | 17,2 |
| 771-S15 MZ |         |                                                                                                         | 770-S4, 200 mm<br>770-S5, 400 mm | 1 | 17,2 |
| 770-S15 AU |         |                                                                                                         | 770-S6                           | 1 | 17,8 |
| 770-S15 AZ |         | 7/8, 15/16, 1, 1.1/16, 1.1/8, 1.1/4, 1.5/16, 1.3/8, 1.7/16, 1.1/2, 1.5/8, 1.11/16, 1.13/16, 1.7/8, 2 AF |                                  | 1 | 17,2 |



3/4"

## 770-S22 Socket Sets

| Stock-No.   | Ratchet | Sockets                                                                | Accessories                                         |   | kg   |
|-------------|---------|------------------------------------------------------------------------|-----------------------------------------------------|---|------|
| 770-S22 MAU |         |                                                                        | 770-S2<br>770-S3                                    | 1 | 21,6 |
| 770-S22 MAZ |         | 19, 22, 24, 27, 30, 32, 36, 38, 41, 46, 50 mm                          | 770-S15, 100 mm<br>770-S4, 200 mm<br>770-S5, 400 mm | 1 | 21,0 |
|             |         | 3/4, 7/8, 15/16, 1, 1.1/16, 1.1/4, 1.7/16, 1.1/2, 1.5/8, 1.13/16, 2 AF | 770-S6<br>770-S9 3/4" 1/2"<br>770-S11 3/4" 1"       |   |      |



3/4"

## 770-S25/S26 Socket Sets

| Stock-No.  | Ratchet | Sockets                                                                                                                                                                                | Accessories                      |   | kg   |
|------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---|------|
| 770-S25 MU |         |                                                                                                                                                                                        |                                  | 1 | 25,0 |
| 771-S25 MU |         |                                                                                                                                                                                        | 770-S2<br>770-S3                 | 1 | 25,0 |
| 770-S25 MZ |         | 18, 19, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32, 34, 36, 37, 38, 41, 42, 46, 47, 50, 52, 54, 55, 60 mm                                                                                  | 770-S4, 200 mm<br>770-S5, 400 mm | 1 | 24,5 |
| 771-S25 MZ |         |                                                                                                                                                                                        | 770-S6                           | 1 | 24,5 |
| 770-S26 AU |         |                                                                                                                                                                                        | 770-S9 3/4" 1/2"                 | 1 | 27,0 |
| 770-S26 AZ |         | 3/4, 13/16, 7/8, 15/16, 31/32, 1, 1.1/16, 1.1/8, 1.3/16, 1.1/4, 1.5/16, 1.3/8, 1.7/16, 1.1/2, 1.9/16, 1.5/8, 1.11/16, 1.3/4, 1.13/16, 1.7/8, 2, 2.1/16, 2.1/8, 2.3/16, 2.1/4, 2.3/8 AF | 770-S11 3/4" 1"                  | 1 | 26,5 |



3/4"

## Sockets

- Type: chrome-plated
- Material: Chrome-Vanadium 31 CrV 3, Code No. 1.2208
- Standard: 1" square drive according to DIN 3120/ISO 1174, with locking pin, for manual drive, size according to DIN 3124/ISO 2725

### 780 Bi-Hexagon Sockets



| Application | for outside hexagon bolts    |
|-------------|------------------------------|
| Type        | bi-hexagon, with locking pin |

| Stock-No. | mm | mm | mm | g    |
|-----------|----|----|----|------|
| 780-36    | 70 | 1  |    | 480  |
| 780-38    | 70 | 1  |    | 590  |
| 780-41    | 70 | 1  |    | 630  |
| 780-46    | 75 | 1  |    | 770  |
| 780-50    | 75 | 1  |    | 950  |
| 780-55    | 75 | 1  |    | 1350 |
| 780-60    | 80 | 1  |    | 1585 |
| 780-65    | 85 | 1  |    | 1730 |
| 780-70    | 88 | 1  |    | 2075 |
| 780-75    | 92 | 1  |    | 2400 |
| 780-80    | 95 | 1  |    | 2655 |

| Stock-No.    | mm | mm | mm | g    |
|--------------|----|----|----|------|
| 780A-1.7/16  | 70 | 1  |    | 440  |
| 780A-1.1/2   | 70 | 1  |    | 590  |
| 780A-1.5/8   | 70 | 1  |    | 645  |
| 780A-1.13/16 | 75 | 1  |    | 700  |
| 780A-2       | 75 | 1  |    | 830  |
| 780A-2.1/16  | 75 | 1  |    | 910  |
| 780A-2.3/16  | 75 | 1  |    | 1000 |
| 780A-2.1/4   | 75 | 1  |    | 1015 |
| 780A-2.3/8   | 80 | 1  |    | 1120 |
| 780A-2.9/16  | 85 | 1  |    | 1850 |
| 780A-2.5/8   | 85 | 1  |    | 1870 |
| 780A-2.3/4   | 88 | 1  |    | 2085 |
| 780A-2.15/16 | 92 | 1  |    | 2375 |
| 780A-3       | 92 | 1  |    | 2525 |
| 780A-3.1/8   | 95 | 1  |    | 2660 |

### 780-IN Screwdriver Sockets



| Application | for hexagon socket head cap screws |
|-------------|------------------------------------|
| Standard    | according to DIN 7422              |

| Stock-No. | mm     | mm | mm | g   |
|-----------|--------|----|----|-----|
| 780-IN 17 | M20-22 | 90 | 1  | 530 |
| 780-IN 19 | M24-27 | 90 | 1  | 555 |
| 780-IN 22 | M30    | 90 | 1  | 650 |
| 780-IN 24 | M33    | 90 | 1  | 765 |

## Socket Parts and Accessories

- Application: for sockets with 1" square drive according to DIN 3120/ISO 1174, with locking pin, for manual drive
- Type: chrome-plated
- Material: Chrome-Vanadium 31 CrV 3, Code No. 1.2208

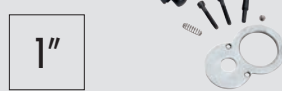
### 780-1 Reversible Ratchet



| Type     | with forged gear rim                                                                |
|----------|-------------------------------------------------------------------------------------|
| Standard | according to DIN 3122, form D/ISO 3315, with 1" male and 3/4" female square coupler |

| Stock-No. | mm  | mm | g    |
|-----------|-----|----|------|
| 780-1     | 660 | 1  | 3825 |

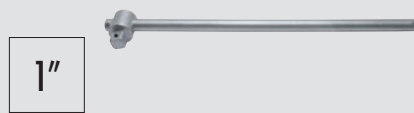
### 780-E1 Repair Kit



| Application | for reversible ratchet Stock-No. 780-1 |
|-------------|----------------------------------------|
|-------------|----------------------------------------|

| Stock-No. | mm | g   |
|-----------|----|-----|
| 780-E1    | 1  | 560 |

### 780-2 Sliding T-Bar



| Standard | according to DIN 3122, form A/ISO 3315 |
|----------|----------------------------------------|
|----------|----------------------------------------|

| Stock-No. | mm  | mm | g    |
|-----------|-----|----|------|
| 780-2     | 640 | 1  | 3345 |

### 780-10 Socket Sets

| Stock-No. | Ratchet | Sockets                                                              | Accessories                    | kg |
|-----------|---------|----------------------------------------------------------------------|--------------------------------|----|
| 780-10 M  | 780-1   | 36, 41, 46, 50, 55, 60, 65, 70, 75, 80 mm                            | 780-2                          | 33 |
| 780-10 A  | 780-1   | 1.7/16, 1.5/8, 1.13/16, 2, 2.3/16, 2.3/8, 2.9/16, 2.3/4, 3, 3.1/8 AF | 780-3, 200 mm<br>780-4, 400 mm | 32 |

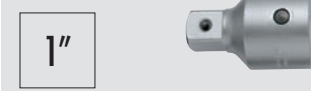
### 780-3/4 Extension Bar



| Standard | according to DIN 3123, form B/ISO 3316 |
|----------|----------------------------------------|
|----------|----------------------------------------|

| Stock-No. | mm  | mm | g    |
|-----------|-----|----|------|
| 780-3     | 200 | 1  | 1040 |
| 780-4     | 400 | 1  | 1875 |

### 770-S11 780-7 Socket Converter



| Standard | according to DIN 3123, form A/ISO 3316 |
|----------|----------------------------------------|
|----------|----------------------------------------|

| Stock-No. | male | female | mm | mm | g   |
|-----------|------|--------|----|----|-----|
| 770-S11   | 1"   | 3/4"   | 55 | 6  | 255 |
| 780-7     | 3/4" | 1"     | 70 | 3  | 425 |





## QUALITY TOOLS MADE BY ELORA – EXCELLENT PRODUCT IN LINE WITH TRADITION AND INNOVATION.

For a powerful grip – the full range of ELORA bits and impact sockets. The range was enlarged by impact sockets with 1 ½" drive.

### IMPACT TOOLS, IMPACT BITS

04



## Impact Sockets 1/4"

acc. to DIN 3129 / ISO 2725, for use with air or electric power tools

Square drive according to DIN 3121 / ISO 1174

Material: Super Chrome-Vanadium, black finish

788

### Impact Socket

1/4"



Application for outside hexagon bolts

Type hexagon

| Stock-No. | mm | Ring    | Locking Pin | mm | g    |
|-----------|----|---------|-------------|----|------|
| 788- 4    | 24 | 7884-11 | 7883-11     | 6  | 14,0 |
| 788- 4,5  | 24 | 7884-11 | 7883-11     | 6  | 13,8 |
| 788- 5    | 24 | 7884-11 | 7883-11     | 6  | 14,2 |
| 788- 5,5  | 24 | 7884-11 | 7883-11     | 6  | 14,0 |
| 788- 6    | 24 | 7884-11 | 7883-11     | 6  | 14,0 |
| 788- 7    | 24 | 7884-11 | 7883-11     | 6  | 15,2 |
| 788- 8    | 24 | 7884-11 | 7883-11     | 6  | 15,0 |
| 788- 9    | 24 | 7884-11 | 7883-11     | 6  | 15,0 |
| 788- 10   | 24 | 7884-11 | 7883-11     | 6  | 17,0 |
| 788- 11   | 24 | 7884-11 | 7883-11     | 6  | 17,3 |
| 788- 12   | 24 | 7884-11 | 7883-11     | 6  | 17,6 |
| 788- 13   | 24 | 7884-11 | 7883-11     | 6  | 17,6 |
| 788- 14   | 25 | 7884-11 | 7883-11     | 6  | 24,0 |

| Stock-No.   | mm | Ring    | Locking Pin | mm | g    |
|-------------|----|---------|-------------|----|------|
| 788A- 1/4   | 23 | 7884-11 | 7883-11     | 6  | 15,2 |
| 788A- 5/16  | 23 | 7884-11 | 7883-11     | 6  | 15,0 |
| 788A- 11/32 | 23 | 7884-11 | 7883-11     | 6  | 15,0 |
| 788A- 3/8   | 23 | 7884-11 | 7883-11     | 6  | 17,0 |
| 788A- 7/16  | 23 | 7884-11 | 7883-11     | 6  | 17,3 |
| 788A- 1/2   | 23 | 7884-11 | 7883-11     | 6  | 17,6 |

Rings and pins are not included in prices of sockets.

### 788KLS Impact Socket Set

1/4"



Application for fitting in tool trolleys or on tool panels

Type with 14 socket clips

| Stock-No.   | Contents                                               | mm  | g     |
|-------------|--------------------------------------------------------|-----|-------|
| 788KLS- 13M | 788M-4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm | 414 | 1 285 |
| 1455KL      | socket rail only                                       | 414 | 12 67 |

796

### Impact Sockets

1/4"



Application for outside TORX screws

| Stock-No. | mm   | Ring    | Locking Pin | mm | g      |
|-----------|------|---------|-------------|----|--------|
| 796E- 4   | 3,86 | 7884-11 | 7883-11     | 23 | 6 14,8 |
| 796E- 5   | 4,75 | 7884-11 | 7883-11     | 23 | 6 15,2 |
| 796E- 6   | 5,74 | 7884-11 | 7883-11     | 23 | 6 15,2 |
| 796E- 7   | 6,22 | 7884-11 | 7883-11     | 23 | 6 15,2 |
| 796E- 8   | 7,52 | 7884-11 | 7883-11     | 23 | 6 15,2 |
| 796E- 10  | 9,42 | 7884-11 | 7883-11     | 23 | 6 15,6 |

Rings and pins are not included in prices of sockets.

## Impact Socket Parts 1/4"

for use with air or electric power tools

for Impact sockets according to DIN 3129 / ISO 2725

Square drive according to DIN 3121 / ISO 1174

Material: Super Chrome-Vanadium, black finish

7900

### Impact Extension Bar

1/4"



| Stock-No. | mm  | Ring    | Locking Pin | mm | g  |
|-----------|-----|---------|-------------|----|----|
| 7900- 50  | 50  | 7884-11 | 7883-11     | 6  | 28 |
| 7900- 100 | 100 | 7884-11 | 7883-11     | 6  | 48 |

Rings and pins are not included in prices of socket parts.

795-1/4

### Impact Universal Joint

1/4"



| Stock-No. | mm | Ring    | Locking Pin | mm | g  |
|-----------|----|---------|-------------|----|----|
| 795- 1/4  | 40 | 7884-14 | 7883-13     | 3  | 25 |

Rings and pins are not included in prices of socket parts.



## 7907 Impact Adaptor

1/4"



| Stock-No.  |      |       | mm | Ring    | Locking Pin |   |    |
|------------|------|-------|----|---------|-------------|---|----|
| 7907- 5/16 | 1/4" | 5/16" | 25 | 7884-11 | 7883-11     | 3 | 18 |
| 7907- 3/8  | 1/4" | 3/8"  | 25 | 7884-11 | 7883-11     | 3 | 20 |

Rings and pins are not included in prices of socket parts.

## Impact Sockets and Screwdriver Sockets 3/8"

acc. to DIN 3129 / ISO 2725, for use with air or electric power tools

Square drive according to DIN 3121 / ISO 1174

Material: Super Chrome-Vanadium, black finish

## 789 Impact Socket

3/8"



| Application | for outside hexagon bolts |
|-------------|---------------------------|
| Type        | hexagon                   |

| Stock-No. | mm | Ring    | Locking Pin |   |    |
|-----------|----|---------|-------------|---|----|
| 789- 6    | 32 | 7894-15 | 7893-15     | 6 | 40 |
| 789- 7    | 32 | 7894-15 | 7893-15     | 6 | 40 |
| 789- 8    | 32 | 7894-15 | 7893-15     | 6 | 40 |
| 789- 9    | 32 | 7894-15 | 7893-15     | 6 | 40 |
| 789-10    | 32 | 7894-15 | 7893-15     | 6 | 41 |
| 789-11    | 32 | 7894-15 | 7893-15     | 6 | 41 |
| 789-12    | 32 | 7894-15 | 7893-18     | 6 | 58 |
| 789-13    | 32 | 7894-15 | 7893-18     | 6 | 58 |
| 789-14    | 32 | 7894-15 | 7893-18     | 6 | 58 |
| 789-15    | 32 | 7894-18 | 7893-18     | 6 | 58 |
| 789-16    | 32 | 7894-18 | 7893-18     | 6 | 58 |
| 789-17    | 32 | 7894-18 | 7893-18     | 6 | 66 |
| 789-18    | 32 | 7894-18 | 7893-18     | 6 | 66 |
| 789-19    | 32 | 7894-18 | 7893-18     | 6 | 66 |
| 789-20    | 34 | 7894-18 | 7893-18     | 6 | 75 |
| 789-21    | 34 | 7894-18 | 7893-18     | 6 | 75 |
| 789-22    | 34 | 7894-18 | 7893-18     | 6 | 75 |

| Stock-No.   | mm | Ring    | Locking Pin |   |    |
|-------------|----|---------|-------------|---|----|
| 789A- 5/16  | 32 | 7894-15 | 7893-15     | 6 | 40 |
| 789A- 3/8   | 32 | 7894-15 | 7893-15     | 6 | 41 |
| 789A- 7/16  | 32 | 7894-15 | 7893-15     | 6 | 41 |
| 789A- 1/2   | 32 | 7894-15 | 7893-18     | 6 | 55 |
| 789A- 9/16  | 32 | 7894-18 | 7893-18     | 6 | 56 |
| 789A- 5/8   | 32 | 7894-18 | 7893-18     | 6 | 58 |
| 789A- 11/16 | 32 | 7894-18 | 7893-18     | 6 | 66 |
| 789A- 3/4   | 32 | 7894-18 | 7893-18     | 6 | 66 |
| 789A- 13/16 | 34 | 7894-18 | 7893-18     | 6 | 75 |
| 789A- 7/8   | 34 | 7894-18 | 7893-18     | 6 | 75 |

Rings and pins are not included in prices of sockets.

## 789KLS Impact Socket Set

3/8"



| Application | for fitting in tool trolleys or on tool panels |
|-------------|------------------------------------------------|
| Type        | with 14 socket clips                           |

| Stock-No.   | Contents                                                  | mm  |    |     |
|-------------|-----------------------------------------------------------|-----|----|-----|
| 789KLS- 14M | 789M-6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19mm | 414 | 1  | 790 |
| 870KL       | socket rail only                                          | 414 | 12 | 72  |

## 789MG Impact Socket, with Magnetic Insert

3/8"



| Application | for outside hexagon bolts     |
|-------------|-------------------------------|
| Type        | hexagon, with magnetic insert |

| Stock-No. | mm | Ring    | Locking Pin |   |    |
|-----------|----|---------|-------------|---|----|
| 789MG- 6  | 30 | 7894-15 | 7893-15     | 6 | 42 |
| 789MG- 7  | 30 | 7894-15 | 7893-15     | 6 | 42 |
| 789MG- 8  | 30 | 7894-15 | 7893-15     | 6 | 42 |
| 789MG- 9  | 30 | 7894-15 | 7893-15     | 6 | 42 |
| 789MG-10  | 30 | 7894-15 | 7893-15     | 6 | 42 |
| 789MG-11  | 30 | 7894-15 | 7893-15     | 6 | 42 |
| 789MG-12  | 30 | 7894-15 | 7893-18     | 6 | 42 |
| 789MG-13  | 30 | 7894-15 | 7893-18     | 6 | 62 |
| 789MG-14  | 30 | 7894-15 | 7893-18     | 6 | 62 |
| 789MG-15  | 30 | 7894-18 | 7893-18     | 6 | 62 |
| 789MG-16  | 30 | 7894-18 | 7893-18     | 6 | 62 |
| 789MG-17  | 30 | 7894-18 | 7893-18     | 6 | 62 |
| 789MG-18  | 30 | 7894-18 | 7893-18     | 6 | 62 |
| 789MG-19  | 30 | 7894-18 | 7893-18     | 6 | 72 |

Rings and pins are not included in prices of sockets.

## 789LTMG Extra Deep Impact Socket, with Magnetic Insert

3/8"



| Application | for outside hexagon bolts, especially suitable for wheel bolts |
|-------------|----------------------------------------------------------------|
| Type        | hexagon, extra deep with magnetic insert                       |

| Stock-No.   | mm | Ring    | Locking Pin |   |     |
|-------------|----|---------|-------------|---|-----|
| 789LTMG- 13 | 65 | 7894-15 | 7893-18     | 6 | 122 |
| 789LTMG- 15 | 65 | 7894-18 | 7893-18     | 6 | 122 |
| 789LTMG- 17 | 65 | 7894-18 | 7893-18     | 6 | 132 |
| 789LTMG- 19 | 65 | 7894-18 | 7893-18     | 6 | 152 |
| 789LTMG- 22 | 65 | 7894-18 | 7893-18     | 6 | 202 |

Rings and pins are not included in prices of sockets.

## 797 Impact Socket

3/8"



Application for outside TORX screws

| Stock-No. | mm    | mm | Ring    | Locking Pin |   | g  |
|-----------|-------|----|---------|-------------|---|----|
| 797E- 4   | 3,86  | 32 | 7894-15 | 7893-15     | 6 | 43 |
| 797E- 5   | 4,75  | 32 | 7894-15 | 7893-15     | 6 | 43 |
| 797E- 6   | 5,74  | 32 | 7894-15 | 7893-15     | 6 | 42 |
| 797E- 7   | 6,22  | 32 | 7894-15 | 7893-15     | 6 | 42 |
| 797E- 8   | 7,52  | 32 | 7894-15 | 7893-15     | 6 | 42 |
| 797E- 10  | 9,42  | 32 | 7894-15 | 7893-15     | 6 | 42 |
| 797E- 12  | 11,17 | 32 | 7894-15 | 7893-15     | 6 | 42 |
| 797E- 14  | 12,90 | 32 | 7894-15 | 7893-15     | 6 | 44 |
| 797E- 16  | 14,76 | 32 | 7894-15 | 7893-15     | 6 | 42 |

Rings and pins are not included in prices of sockets.

## 789IN Impact Screwdriver Socket

3/8"



Application for hexagon socket head cap screws

| Stock-No. |  mm |  mm | Ring    | Locking Pin |  |  g |
|-----------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------|-------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 789IN- 3  |                                                                                        | 48                                                                                     | 7894-15 | 7893-15     | 6                                                                                   | 35                                                                                    |
| 789IN- 4  |                                                                                        | 48                                                                                     | 7894-15 | 7893-15     | 6                                                                                   | 35                                                                                    |
| 789IN- 5  |                                                                                        | 48                                                                                     | 7894-15 | 7893-15     | 6                                                                                   | 40                                                                                    |
| 789IN- 6  |                                                                                        | 48                                                                                     | 7894-15 | 7893-15     | 6                                                                                   | 40                                                                                    |
| 789IN- 8  |                                                                                        | 55                                                                                     | 7894-15 | 7893-15     | 6                                                                                   | 55                                                                                    |
| 789IN- 10 |                                                                                        | 60                                                                                     | 7894-15 | 7893-15     | 6                                                                                   | 70                                                                                    |
| 789IN- 12 |                                                                                        | 85                                                                                     | 7894-15 | 7893-15     | 6                                                                                   | 90                                                                                    |

Rings and pins are not included in prices of sockets.

## Impact Socket Parts 3/8"

for use with air or electric power tools

for Impact sockets according to DIN 3129 / ISO 2725

Square drive according to DIN 3121 / ISO 1174

Material: Super Chrome-Vanadium, black finish

## 7906 Impact Extension Bar

3/8"



| Stock-No. | mm  | Ring    | Locking Pin |   | g   |
|-----------|-----|---------|-------------|---|-----|
| 7906- 75  | 75  | 7894-15 | 7893-15     | 6 | 87  |
| 7906- 150 | 150 | 7894-15 | 7893-15     | 3 | 180 |

Rings and pins are not included in prices of socket parts.

## 795-3/8 Impact Universal Joint

3/8"



| Stock-No. | mm | Ring    | Locking Pin |   | g  |
|-----------|----|---------|-------------|---|----|
| 795- 3/8  | 50 | 7894-18 | 7893-18     | 3 | 67 |

Rings and pins are not included in prices of socket parts.

## 7907.. Impact Adaptor

3/8"



| Stock-No. |      |      | mm | Ring    | Locking Pin |   | g  |
|-----------|------|------|----|---------|-------------|---|----|
| 7907- 3/8 | 1/4" | 3/8" | 25 | 7884-11 | 7883-11     | 3 | 20 |
| 7905- 1/2 | 3/8" | 1/2" | 32 | 7894-20 | 7893-21     | 3 | 75 |
| 7902- 3/8 | 1/2" | 3/8" | 36 | 7904-20 | 7903-20     | 3 | 65 |

Rings and pins are not included in prices of socket parts.

## Impact Sockets and Screwdriver Sockets 1/2"

acc. to DIN 3129 / ISO 2725, for use with air or electric power tools

Square drive according to DIN 3121 / ISO 1174

Material: Super Chrome-Vanadium, black finish

### 790 Impact Socket

1/2"



| Application  | for outside hexagon bolts |         |             |   |     |  |
|--------------|---------------------------|---------|-------------|---|-----|--|
| Type         | hexagon                   |         |             |   |     |  |
| Stock-No.    | mm                        | Ring    | Locking Pin |   | g   |  |
| 790- 10      | 36                        | 7904-20 | 7903-20     | 6 | 90  |  |
| 790- 11      | 36                        | 7904-20 | 7903-20     | 6 | 90  |  |
| 790- 12      | 36                        | 7904-20 | 7903-20     | 6 | 95  |  |
| 790- 13      | 36                        | 7904-20 | 7903-20     | 6 | 88  |  |
| 790- 14      | 37                        | 7904-20 | 7903-20     | 6 | 90  |  |
| 790- 15      | 37                        | 7904-24 | 7903-25     | 6 | 135 |  |
| 790- 16      | 37                        | 7904-24 | 7903-25     | 6 | 135 |  |
| 790- 17      | 37                        | 7904-24 | 7903-25     | 6 | 140 |  |
| 790- 18      | 38                        | 7904-24 | 7903-25     | 6 | 137 |  |
| 790- 19      | 38                        | 7904-24 | 7903-25     | 6 | 130 |  |
| 790- 20      | 38                        | 7904-24 | 7903-25     | 6 | 130 |  |
| 790- 21      | 39                        | 7904-24 | 7903-25     | 6 | 130 |  |
| 790- 22      | 39                        | 7904-24 | 7903-25     | 6 | 150 |  |
| 790- 23      | 39                        | 7904-24 | 7903-25     | 6 | 180 |  |
| 790- 24      | 42                        | 7904-24 | 7903-25     | 6 | 185 |  |
| 790- 25      | 42                        | 7904-24 | 7903-25     | 6 | 215 |  |
| 790- 26      | 42                        | 7904-24 | 7903-25     | 6 | 225 |  |
| 790- 27      | 45                        | 7904-24 | 7903-25     | 6 | 230 |  |
| 790- 28      | 45                        | 7904-24 | 7903-25     | 6 | 255 |  |
| 790- 29      | 45                        | 7904-24 | 7903-25     | 6 | 245 |  |
| 790- 30      | 49                        | 7904-24 | 7903-25     | 6 | 250 |  |
| 790- 32      | 49                        | 7904-24 | 7903-25     | 6 | 250 |  |
| 790- 34      | 49                        | 7904-24 | 7903-25     | 6 | 275 |  |
| Stock-No.    | mm                        | Ring    | Locking Pin |   | g   |  |
| 790A- 3/8    | 38                        | 7904-20 | 7903-20     | 6 | 90  |  |
| 790A- 7/16   | 38                        | 7904-20 | 7903-20     | 6 | 90  |  |
| 790A- 1/2    | 38                        | 7904-20 | 7903-20     | 6 | 88  |  |
| 790A- 9/16   | 38                        | 7904-20 | 7903-20     | 6 | 135 |  |
| 790A- 5/8    | 38                        | 7904-24 | 7903-25     | 6 | 135 |  |
| 790A- 11/16  | 38                        | 7904-24 | 7903-25     | 6 | 137 |  |
| 790A- 3/4    | 38                        | 7904-24 | 7903-25     | 6 | 130 |  |
| 790A- 13/16  | 38                        | 7904-24 | 7903-25     | 6 | 130 |  |
| 790A- 7/8    | 39                        | 7904-24 | 7903-25     | 6 | 150 |  |
| 790A- 15/16  | 41                        | 7904-24 | 7903-25     | 6 | 185 |  |
| 790A- 1      | 41                        | 7904-24 | 7903-25     | 6 | 225 |  |
| 790A- 1.1/16 | 42                        | 7904-24 | 7903-25     | 6 | 225 |  |
| 790A- 1.1/8  | 45                        | 7904-24 | 7903-25     | 6 | 255 |  |
| 790A- 1.1/4  | 49                        | 7904-24 | 7903-25     | 6 | 250 |  |
| 790A- 1.5/16 | 49                        | 7904-24 | 7903-25     | 6 | 290 |  |

Rings and pins are not included in prices of sockets.

### 790S Impact Socket Set

1/2"



| Type      | in black lacquered metal case                       |   |      |  |
|-----------|-----------------------------------------------------|---|------|--|
| Stock-No. | Contents                                            |   | g    |  |
| 790S 11M  | 790M- 10; 13; 14; 15; 17; 19; 21; 22; 24; 27; 30 mm | 1 | 2400 |  |

### 790LT Impact Socket, Extra Deep

1/2"



| Application | for outside hexagon bolts, especially suitable for deep lying nuts and bolts |         |             |   |     |  |
|-------------|------------------------------------------------------------------------------|---------|-------------|---|-----|--|
| Type        | hexagon, extra deep                                                          |         |             |   |     |  |
| Stock-No.   | mm                                                                           | Ring    | Locking Pin |   | g   |  |
| 790LT- 10   | 85                                                                           | 7904-20 | 7903-20     | 6 | 155 |  |
| 790LT- 13   | 85                                                                           | 7904-20 | 7903-20     | 6 | 160 |  |
| 790LT- 14   | 85                                                                           | 7904-20 | 7903-20     | 6 | 185 |  |
| 790LT- 15   | 85                                                                           | 7904-24 | 7903-25     | 6 | 195 |  |
| 790LT- 16   | 85                                                                           | 7904-24 | 7903-25     | 6 | 210 |  |
| 790LT- 17   | 85                                                                           | 7904-24 | 7903-25     | 6 | 230 |  |
| 790LT- 18   | 85                                                                           | 7904-24 | 7903-25     | 6 | 240 |  |
| 790LT- 19   | 85                                                                           | 7904-24 | 7903-25     | 3 | 250 |  |
| 790LT- 20   | 85                                                                           | 7904-24 | 7903-25     | 3 | 260 |  |
| 790LT- 21   | 85                                                                           | 7904-24 | 7903-25     | 3 | 275 |  |
| 790LT- 22   | 85                                                                           | 7904-24 | 7903-25     | 3 | 300 |  |
| 790LT- 23   | 85                                                                           | 7904-24 | 7903-25     | 3 | 335 |  |
| 790LT- 24   | 85                                                                           | 7904-24 | 7903-25     | 3 | 370 |  |
| 790LT- 27   | 85                                                                           | 7904-24 | 7903-25     | 3 | 430 |  |
| 790LT- 30   | 85                                                                           | 7904-24 | 7903-25     | 3 | 510 |  |
| 790LT- 32   | 85                                                                           | 7904-24 | 7903-25     | 3 | 560 |  |

Rings and pins are not included in prices of sockets.

## 790MG Impact Socket, with Magnetic Insert

1/2"



Application for outside hexagon bolts  
Type hexagon, with magnetic insert

| Stock-No. | mm | mm      | Locking | Pin |  | g   |
|-----------|----|---------|---------|-----|--|-----|
|           |    | Ring    |         |     |  |     |
| 790MG- 10 | 38 | 7904-20 | 7903-20 | 6   |  | 92  |
| 790MG- 11 | 38 | 7904-20 | 7903-20 | 6   |  | 92  |
| 790MG- 12 | 38 | 7904-20 | 7903-20 | 6   |  | 92  |
| 790MG- 13 | 38 | 7904-20 | 7903-20 | 6   |  | 92  |
| 790MG- 14 | 38 | 7904-20 | 7903-20 | 6   |  | 92  |
| 790MG- 15 | 38 | 7904-24 | 7903-25 | 6   |  | 132 |
| 790MG- 16 | 38 | 7904-24 | 7903-25 | 6   |  | 132 |
| 790MG- 17 | 38 | 7904-24 | 7903-25 | 6   |  | 132 |
| 790MG- 18 | 38 | 7904-24 | 7903-25 | 6   |  | 132 |
| 790MG- 19 | 38 | 7904-24 | 7903-25 | 6   |  | 132 |

Rings and pins are not included in prices of sockets.

## 790LTMG Extra Deep Impact Socket, with Magnetic Insert

1/2"



Application for outside hexagon bolts, especially suitable for wheel bolts  
Type hexagon, extra deep with magnetic insert

| Stock-No.   | mm | mm      | Locking | Pin |  | g   |
|-------------|----|---------|---------|-----|--|-----|
|             |    | Ring    |         |     |  |     |
| 790LTMG- 13 | 78 | 7904-20 | 7903-20 | 6   |  | 172 |
| 790LTMG- 15 | 78 | 7904-24 | 7903-25 | 6   |  | 242 |
| 790LTMG- 17 | 78 | 7904-24 | 7903-25 | 6   |  | 252 |
| 790LTMG- 19 | 78 | 7904-24 | 7903-25 | 6   |  | 252 |
| 790LTMG- 22 | 78 | 7904-24 | 7903-25 | 6   |  | 282 |

Rings and pins are not included in prices of sockets.

## 798 Impact Socket

1/2"



Application for outside TORX screws

| Stock-No. | mm    | mm   | Locking | Pin     |   | g     |
|-----------|-------|------|---------|---------|---|-------|
|           |       |      | Ring    |         |   |       |
| 798E- 10  | 9,42  | 37,5 | 7904-20 | 7903-20 | 6 | 84,0  |
| 798E- 12  | 11,17 | 37,5 | 7904-20 | 7903-20 | 6 | 84,5  |
| 798E- 14  | 12,90 | 37,5 | 7904-20 | 7903-20 | 6 | 86,0  |
| 798E- 16  | 14,76 | 37,5 | 7904-20 | 7903-20 | 6 | 88,0  |
| 798E- 18  | 16,70 | 37,5 | 7904-20 | 7903-20 | 6 | 90,0  |
| 798E- 20  | 18,49 | 37,5 | 7904-24 | 7903-25 | 6 | 128,0 |
| 798E- 24  | 22,16 | 42,0 | 7904-24 | 7903-25 | 6 | 142,0 |

Rings and pins are not included in prices of sockets.

## 790TX Impact Screwdriver Socket

1/2"



Application for inside TORX screws

| Stock-No. | mm    | mm | Locking | Pin     |   | g   |
|-----------|-------|----|---------|---------|---|-----|
|           |       |    | Ring    |         |   |     |
| 790TX- 30 | 5,52  | 57 | 7904-24 | 7903-25 | 6 | 110 |
| 790TX- 40 | 6,65  | 57 | 7904-24 | 7903-25 | 6 | 110 |
| 790TX- 50 | 8,83  | 57 | 7904-24 | 7903-25 | 6 | 110 |
| 790TX- 55 | 11,22 | 57 | 7904-24 | 7903-25 | 6 | 110 |
| 790TX- 60 | 13,25 | 60 | 7904-24 | 7903-25 | 6 | 170 |

Rings and pins are not included in prices of sockets.

## 790IN Impact Screwdriver Socket

1/2"



Application for hexagon socket head cap screws

| Stock-No. | mm  | mm | Locking | Pin     |   | g   |
|-----------|-----|----|---------|---------|---|-----|
|           |     |    | Ring    |         |   |     |
| 790IN- 5  | M 6 | 53 | 7904-20 | 7903-20 | 6 | 65  |
| 790IN- 6  | M 8 | 54 | 7904-20 | 7903-20 | 6 | 70  |
| 790IN- 8  | M10 | 58 | 7904-20 | 7903-20 | 6 | 75  |
| 790IN- 10 | M12 | 62 | 7904-20 | 7903-20 | 6 | 90  |
| 790IN- 12 | M14 | 67 | 7904-20 | 7903-20 | 6 | 115 |
| 790IN- 14 | M16 | 78 | 7904-20 | 7903-20 | 6 | 150 |
| 790IN- 17 | M20 | 80 | 7904-20 | 7903-20 | 6 | 200 |

Rings and pins are not included in prices of sockets.

## Impact Socket Parts 1/2"

for use with air or electric power tools  
for Impact sockets according to DIN 3129 / ISO 2725  
Square drive according to DIN 3121 / ISO 1174  
Material: Super Chrome-Vanadium, black finish

### 7901 Impact Extension Bar

1/2"



| Stock-No. | mm  | Ring    | Locking Pin | g     |
|-----------|-----|---------|-------------|-------|
| 7901- 50  | 50  | 7904-20 | 7903-20     | 3 100 |
| 7901- 125 | 125 | 7904-20 | 7903-20     | 3 270 |
| 7901- 250 | 250 | 7904-20 | 7903-20     | 3 540 |

Rings and pins are not included in prices of socket parts.

### 795-1/2 Impact Universal Joint

1/2"



| Stock-No. | mm | Ring    | Locking Pin | g     |
|-----------|----|---------|-------------|-------|
| 795- 1/2  | 65 | 7904-24 | 7903-25     | 3 170 |

Rings and pins are not included in prices of socket parts.

### 7905.. Impact Adaptor

1/2"



| Stock-No. | mm | Ring    | Locking Pin | g     |
|-----------|----|---------|-------------|-------|
| 7905- 1/2 | 32 | 7894-20 | 7893-21     | 3 75  |
| 7902- 3/8 | 36 | 7904-20 | 7903-20     | 3 65  |
| 7902- 3/4 | 50 | 7904-24 | 7903-25     | 3 162 |
| 7912- 1/2 | 57 | 7914-28 | 7913-29     | 3 235 |

Rings and pins are not included in prices of socket parts.

## Impact Sockets 3/4"

acc. to DIN 3129 / ISO 2725, for use with air or electric power tools  
Square drive according to DIN 3121 / ISO 1174  
Material: Super Chrome-Vanadium, black finish

### 791 Impact Socket

3/4"



| Application | for outside hexagon bolts |
|-------------|---------------------------|
| Type        | hexagon                   |

| Stock-No. | mm | Ring    | Locking Pin | g     |
|-----------|----|---------|-------------|-------|
| 791- 17   | 50 | 7914-36 | 7913-37     | 3 365 |
| 791- 18   | 50 | 7914-36 | 7913-37     | 3 365 |
| 791- 19   | 50 | 7914-36 | 7913-37     | 3 370 |
| 791- 21   | 50 | 7914-36 | 7913-37     | 3 380 |
| 791- 22   | 50 | 7914-36 | 7913-37     | 3 395 |
| 791- 23   | 50 | 7914-36 | 7913-37     | 3 370 |
| 791- 24   | 50 | 7914-36 | 7913-37     | 3 380 |
| 791- 25   | 50 | 7914-36 | 7913-37     | 3 380 |
| 791- 26   | 53 | 7914-36 | 7913-37     | 3 370 |
| 791- 27   | 53 | 7914-36 | 7913-37     | 3 385 |
| 791- 28   | 53 | 7914-36 | 7913-37     | 3 390 |
| 791- 29   | 53 | 7914-36 | 7913-37     | 3 390 |
| 791- 30   | 53 | 7914-36 | 7913-37     | 3 390 |
| 791- 32   | 56 | 7914-36 | 7913-37     | 1 450 |
| 791- 33   | 56 | 7914-36 | 7913-37     | 1 470 |
| 791- 34   | 56 | 7914-36 | 7913-37     | 1 480 |
| 791- 36   | 56 | 7914-36 | 7913-37     | 1 495 |
| 791- 38   | 57 | 7914-36 | 7913-37     | 1 550 |
| 791- 41   | 57 | 7914-36 | 7913-37     | 1 560 |
| 791- 46   | 62 | 7914-36 | 7913-37     | 1 720 |

| Stock-No.    | mm | Ring    | Locking Pin | g     |
|--------------|----|---------|-------------|-------|
| 791A- 3/4    | 50 | 7914-36 | 7913-37     | 3 370 |
| 791A- 13/16  | 50 | 7914-36 | 7913-37     | 3 380 |
| 791A- 7/8    | 50 | 7914-36 | 7913-37     | 3 395 |
| 791A- 15/16  | 50 | 7914-36 | 7913-37     | 3 380 |
| 791A- 1      | 50 | 7914-36 | 7913-37     | 3 380 |
| 791A- 1.1/16 | 50 | 7914-36 | 7913-37     | 3 385 |
| 791A- 1.1/8  | 50 | 7914-36 | 7913-37     | 3 390 |
| 791A- 1.3/16 | 53 | 7914-36 | 7913-37     | 3 390 |
| 791A- 1.1/4  | 56 | 7914-36 | 7913-37     | 1 450 |
| 791A- 1.5/16 | 56 | 7914-36 | 7913-37     | 1 470 |
| 791A- 1.3/8  | 56 | 7914-36 | 7913-37     | 1 480 |
| 791A- 1.7/16 | 56 | 7914-36 | 7913-37     | 1 495 |
| 791A- 1.1/2  | 56 | 7914-36 | 7913-37     | 1 530 |
| 791A- 1.5/8  | 57 | 7914-36 | 7913-37     | 1 560 |

Rings and pins are not included in prices of sockets.



## 791IN Impact Screwdriver Socket

**New!**

3/4"



Application for hexagon socket head cap screws

| Stock-No. | mm | Ring    | Locking Pin |   | g   |
|-----------|----|---------|-------------|---|-----|
| 791IN-10  | 67 | 7914-36 | 7913-37     | 3 | 260 |
| 791IN-12  | 67 | 7914-36 | 7913-37     | 3 | 280 |
| 791IN-14  | 67 | 7914-36 | 7913-37     | 3 | 280 |
| 791IN-17  | 67 | 7914-36 | 7913-37     | 3 | 280 |
| 791IN-19  | 71 | 7924-44 | 7923-42     | 3 | 450 |
| 791IN-22  | 71 | 7924-44 | 7923-42     | 3 | 460 |
| 791IN-24  | 71 | 7924-44 | 7923-42     | 3 | 500 |

Rings and pins are not included in prices of sockets.

## 791LT Impact Socket, Extra Deep

3/4"



Application for outside hexagon bolts, especially suitable for deep lying nuts and bolts

Type hexagon, extra deep

| Stock-No. | mm  | Ring    | Locking Pin |   | g    |
|-----------|-----|---------|-------------|---|------|
| 791LT-17  | 100 | 7914-36 | 7913-37     | 1 | 565  |
| 791LT-18  | 100 | 7914-36 | 7913-37     | 1 | 600  |
| 791LT-19  | 100 | 7914-36 | 7913-37     | 1 | 650  |
| 791LT-21  | 100 | 7914-36 | 7913-37     | 1 | 650  |
| 791LT-22  | 100 | 7914-36 | 7913-37     | 1 | 650  |
| 791LT-24  | 100 | 7914-36 | 7913-37     | 1 | 685  |
| 791LT-27  | 100 | 7914-36 | 7913-37     | 1 | 780  |
| 791LT-30  | 100 | 7914-36 | 7913-37     | 1 | 825  |
| 791LT-32  | 100 | 7914-36 | 7913-37     | 1 | 860  |
| 791LT-33  | 100 | 7914-36 | 7913-37     | 1 | 915  |
| 791LT-34  | 100 | 7914-36 | 7913-37     | 1 | 925  |
| 791LT-36  | 100 | 7914-36 | 7913-37     | 1 | 940  |
| 791LT-38  | 100 | 7914-36 | 7913-37     | 1 | 960  |
| 791LT-41  | 100 | 7914-36 | 7913-37     | 1 | 1120 |
| 791LT-46  | 100 | 7914-36 | 7913-37     | 1 | 1440 |

Rings and pins are not included in prices of sockets.

## Impact Socket Parts 3/4"

for use with air or electric power tools

for Impact sockets according to DIN 3129 / ISO 2725

Square drive according to DIN 3121 / ISO 1174

Material: Super Chrome-Vanadium, black finish

## 7911 Impact Extension Bar

3/4"



| Stock-No. | mm  | Ring    | Locking Pin |   | g    |
|-----------|-----|---------|-------------|---|------|
| 7911-175  | 175 | 7914-36 | 7913-37     | 1 | 810  |
| 7911-250  | 250 | 7914-36 | 7913-37     | 1 | 1105 |
| 7911-325  | 325 | 7914-36 | 7913-37     | 1 | 1320 |

Rings and pins are not included in prices of socket parts.

## 795-3/4 Impact Universal Joint

3/4"



| Stock-No. | mm  | Ring    | Locking Pin |   | g   |
|-----------|-----|---------|-------------|---|-----|
| 795-3/4   | 105 | 7914-36 | 7913-37     | 1 | 700 |

Rings and pins are not included in prices of socket parts.

## 7902.. Impact Adaptor

3/4"



| Stock-No. |                                                                                     |                                                                                      |  mm | Locking |         |  |  g |
|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------|---------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|           |  |  |                                                                                          | Ring    | Pin     |                                                                                       |                                                                                         |
| 7902- 3/4 | 1/2"                                                                                | 3/4"                                                                                 | 50                                                                                       | 7904-24 | 7903-25 | 3                                                                                     | 162                                                                                     |
| 7912- 1/2 | 3/4"                                                                                | 1/2"                                                                                 | 57                                                                                       | 7914-28 | 7913-29 | 3                                                                                     | 235                                                                                     |
| 7912- 1   | 3/4"                                                                                | 1"                                                                                   | 62                                                                                       | 7914-36 | 7913-37 | 3                                                                                     | 340                                                                                     |
| 7922- 3/4 | 1"                                                                                  | 3/4"                                                                                 | 75                                                                                       | 7924-41 | 7923-42 | 1                                                                                     | 530                                                                                     |

Rings and pins are not included in prices of socket parts.

## Impact Sockets 1"

acc. to DIN 3129 / ISO 2725, for use with air or electric power tools

Square drive according to DIN 3121 / ISO 1174

Material: Super Chrome-Vanadium, black finish

### 792 Impact Socket

1"



Application for outside hexagon bolts  
Type hexagon

| Stock-No.<br>mm | mm  | Ring    | Locking<br>Pin |   | g    |  |
|-----------------|-----|---------|----------------|---|------|--|
| 792- 19         | 56  | 7924-44 | 7923-45        | 1 | 650  |  |
| 792- 21         | 56  | 7924-44 | 7923-45        | 1 | 650  |  |
| 792- 22         | 56  | 7924-44 | 7923-45        | 1 | 650  |  |
| 792- 24         | 57  | 7924-44 | 7923-45        | 1 | 665  |  |
| 792- 25         | 57  | 7924-44 | 7923-45        | 1 | 660  |  |
| 792- 26         | 57  | 7924-44 | 7923-45        | 1 | 655  |  |
| 792- 27         | 59  | 7924-44 | 7923-45        | 1 | 655  |  |
| 792- 28         | 59  | 7924-44 | 7923-45        | 1 | 655  |  |
| 792- 29         | 59  | 7924-44 | 7923-45        | 1 | 660  |  |
| 792- 30         | 61  | 7924-44 | 7923-45        | 1 | 660  |  |
| 792- 32         | 61  | 7924-44 | 7923-45        | 1 | 660  |  |
| 792- 33         | 61  | 7924-44 | 7923-45        | 1 | 650  |  |
| 792- 34         | 62  | 7924-44 | 7923-45        | 1 | 650  |  |
| 792- 36         | 64  | 7924-44 | 7923-45        | 1 | 710  |  |
| 792- 38         | 64  | 7924-44 | 7923-45        | 1 | 730  |  |
| 792- 41         | 68  | 7924-44 | 7923-45        | 1 | 765  |  |
| 792- 42         | 68  | 7924-44 | 7923-45        | 1 | 795  |  |
| 792- 46         | 72  | 7924-44 | 7923-45        | 1 | 1025 |  |
| 792- 50         | 76  | 7924-44 | 7923-45        | 1 | 1150 |  |
| 792- 52         | 76  | 7924-44 | 7923-45        | 1 | 1170 |  |
| 792- 55         | 80  | 7924-44 | 7923-45        | 1 | 1385 |  |
| 792- 60         | 85  | 7924-44 | 7923-45        | 1 | 1660 |  |
| 792- 65         | 90  | 7924-44 | 7923-45        | 1 | 1970 |  |
| 792- 70         | 100 | 7924-44 | 7923-45        | 1 | 2280 |  |

Rings and pins are not included in prices of sockets.

### 792LT Impact Socket, Extra Deep

1"



Application for outside hexagon bolts,  
especially suitable for deep lying nuts and bolts  
Type hexagon, extra deep

| Stock-No.<br>mm | mm  | Ring    | Locking<br>Pin |   | g    |  |
|-----------------|-----|---------|----------------|---|------|--|
| 792LT- 21       | 110 | 7924-44 | 7923-45        | 1 | 960  |  |
| 792LT- 22       | 110 | 7924-44 | 7923-45        | 1 | 960  |  |
| 792LT- 24       | 110 | 7924-44 | 7923-45        | 1 | 970  |  |
| 792LT- 27       | 110 | 7924-44 | 7923-45        | 1 | 1015 |  |
| 792LT- 30       | 110 | 7924-44 | 7923-45        | 1 | 1095 |  |
| 792LT- 32       | 110 | 7924-44 | 7923-45        | 1 | 1165 |  |
| 792LT- 33       | 110 | 7924-44 | 7923-45        | 1 | 1160 |  |
| 792LT- 34       | 110 | 7924-44 | 7923-45        | 1 | 1200 |  |
| 792LT- 36       | 110 | 7924-44 | 7923-45        | 1 | 1250 |  |
| 792LT- 38       | 110 | 7924-44 | 7923-45        | 1 | 1350 |  |
| 792LT- 41       | 110 | 7924-44 | 7923-45        | 1 | 1430 |  |
| 792LT- 46       | 110 | 7924-44 | 7923-45        | 1 | 1770 |  |
| 792LT- 50       | 110 | 7924-44 | 7923-45        | 1 | 1935 |  |

Rings and pins are not included in prices of sockets.

## Impact Socket Parts 1"

for use with air or electric power tools  
for Impact sockets according to DIN 3129 / ISO 2725  
Square drive according to DIN 3121 / ISO 1174  
Material: Super Chrome-Vanadium, black finish

### 7921 Impact Extension Bar

1"



| Stock-No. | mm  | Ring    | Locking Pin | g    |
|-----------|-----|---------|-------------|------|
| 7921- 175 | 175 | 7924-44 | 7923-45     | 1430 |
| 7921- 325 | 325 | 7924-44 | 7923-45     | 2500 |

Rings and pins are not included in prices of socket parts.

### 795-1 Impact Universal Joint

1"



| Stock-No. | mm  | Ring    | Locking Pin | g    |
|-----------|-----|---------|-------------|------|
| 795- 1    | 128 | 7924-51 | 7923-51     | 1675 |

Rings and pins are not included in prices of socket parts.

### 7912.. Impact Adaptor

1"



| Stock-No.   | mm     | Ring    | Locking Pin | g    |
|-------------|--------|---------|-------------|------|
| 7912- 1     | 3/4"   | 7914-36 | 7913-37     | 340  |
| 7922- 3/4   | 1"     | 7924-41 | 7923-42     | 530  |
| 7922- 1.1/2 | 1"     | 7924-44 | 7923-45     | 850  |
| 7932- 1     | 1.1/2" | 7934-67 | 7933-67     | 1890 |

Rings and pins are not included in prices of socket parts.

## Impact Sockets 1.1/2"

acc. to DIN 3129 / ISO 2725, for use with air or electric power tools  
Square drive according to DIN 3121 / ISO 1174  
Material: Super Chrome-Vanadium, black finish

### 793 Impact Socket

1.1/2"



**New!**

| Application | for outside hexagon bolts |
|-------------|---------------------------|
| Type        | hexagon                   |

| Stock-No. | mm  | Ring     | Locking Pin | g     |
|-----------|-----|----------|-------------|-------|
| 793- 36   | 80  | 7934-75  | 7933-75     | 2200  |
| 793- 41   | 80  | 7934-75  | 7933-75     | 2200  |
| 793- 46   | 80  | 7934-75  | 7933-75     | 2200  |
| 793- 50   | 82  | 7934-75  | 7933-75     | 2300  |
| 793- 55   | 89  | 7934-75  | 7933-75     | 2500  |
| 793- 60   | 92  | 7934-75  | 7933-75     | 2800  |
| 793- 65   | 96  | 7934-75  | 7933-75     | 3350  |
| 793- 70   | 101 | 7934-75  | 7933-75     | 3600  |
| 793- 75   | 105 | 7934-75  | 7933-75     | 3900  |
| 793- 80   | 110 | 7934-75  | 7933-75     | 4500  |
| 793- 85   | 116 | 7934-75  | 7933-75     | 5100  |
| 793- 90   | 118 | 7934-75  | 7933-75     | 5600  |
| 793- 95   | 118 | 7934-116 | 7933-116    | 7900  |
| 793-100   | 125 | 7934-116 | 7933-116    | 8500  |
| 793-105   | 125 | 7934-116 | 7933-116    | 9500  |
| 793-110   | 137 | 7934-116 | 7933-116    | 10400 |
| 793-115   | 137 | 7934-116 | 7933-116    | 11500 |
| 793-120   | 145 | 7934-116 | 7933-116    | 12000 |
| 793-125   | 145 | 7934-116 | 7933-116    | 12200 |

Rings and pins are not included in prices of sockets.

## Impact Locking Accessories

Locking accessories for Impact sockets according to DIN 3129 / ISO 2725 and Impact socket parts  
for use with air or electric power tools

### 7883.. Impact Locking Pin



Application for locking Impact sockets and Impact socket parts on air or electric power tools  
Type special steel

| Stock-No. | Square drive | mm  | Sockets M / LTM | Sockets MG | Sockets LTMG | Sockets AF | Sockets E | Sockets TX | Sockets IN | Extension bars | Universal Joints | Adaptors            |    | g     |
|-----------|--------------|-----|-----------------|------------|--------------|------------|-----------|------------|------------|----------------|------------------|---------------------|----|-------|
| 7883- 11  | 1/4"         | 11  | 4- 14           | —          | —            | 1/4-1/2    | 4-10      | —          | —          | All            | —                | 7907-3/8; 7907-5/16 | 12 | 0,2   |
| 7883- 13  | 1/4"         | 13  | —               | —          | —            | —          | —         | —          | —          | —              | 795-1/4          | —                   | 12 | 0,22  |
| 7893- 15  | 3/8"         | 15  | 6- 11           | 6-11       | —            | 5/16-7/16  | 4-16      | —          | 3-12       | All            | —                | —                   | 12 | 0,6   |
| 7893- 18  | 3/8"         | 18  | 12- 22          | 12-19      | 13-22        | 1/2-7/8    | —         | —          | —          | —              | 795-3/8          | —                   | 12 | 0,75  |
| 7893- 21  | 3/8"         | 21  | —               | —          | —            | —          | —         | —          | —          | —              | —                | 7905-1/2            | 12 | 0,8   |
| 7903- 20  | 1/2"         | 20  | 10- 14          | 10-14      | 13           | 3/8-9/16   | 10-18     | —          | 5-17       | All            | —                | 7902-3/8            | 12 | 1,0   |
| 7903- 25  | 1/2"         | 25  | 15- 34          | 15-19      | 15-22        | 5/8-1.5/16 | 20-24     | 30-60      | —          | —              | 795-1/2          | 7902-3/4            | 12 | 1,6   |
| 7913- 29  | 3/4"         | 29  | —               | —          | —            | —          | —         | —          | —          | —              | —                | 7912-1/2            | 12 | 3,0   |
| 7913- 37  | 3/4"         | 37  | 17- 46          | —          | —            | 3/4-1.5/8  | —         | —          | —          | All            | 795-3/4          | 7912-1              | 12 | 3,8   |
| 7923- 42  | 1"           | 42  | —               | —          | —            | —          | —         | —          | —          | —              | —                | 7922-3/4            | 12 | 6,5   |
| 7923- 45  | 1"           | 45  | 19- 70          | —          | —            | —          | —         | —          | —          | All            | —                | 7922-1.1/2          | 12 | 7,0   |
| 7923- 51  | 1"           | 51  | —               | —          | —            | —          | —         | —          | —          | —              | 795-1            | —                   | 12 | 8,0   |
| 7933- 67  | 1.1/2"       | 67  | —               | —          | —            | —          | —         | —          | —          | —              | —                | 7932-1              | 12 | 15,0  |
| 7933- 75  | 1.1/2"       | 75  | 36- 90          | —          | —            | —          | —         | —          | —          | —              | —                | —                   | 12 | 15,0  |
| 7933- 116 | 1.1/2"       | 116 | 95-125          | —          | —            | —          | —         | —          | —          | —              | —                | —                   | 12 | 100,0 |

### 7884.. Impact Locking Ring



Application for locking Impact sockets and Impact socket parts on air or electric power tools  
Type oil resistant rubber

| Stock-No. | Square drive | mm  | Sockets M / LTM | Sockets MG | Sockets LTMG | Sockets AF | Sockets E | Sockets TX | Sockets IN | Extension bars | Universal Joints | Adaptors            |    | g    |
|-----------|--------------|-----|-----------------|------------|--------------|------------|-----------|------------|------------|----------------|------------------|---------------------|----|------|
| 7884- 11  | 1/4"         | 11  | 4- 17           | —          | —            | 1/4-1/2    | 4-10      | —          | —          | All            | —                | 7907-3/8; 7907-5/16 | 12 | 0,25 |
| 7884- 14  | 1/4"         | 14  | —               | —          | —            | —          | —         | —          | —          | —              | 795-1/4          | —                   | 12 | 0,28 |
| 7894- 15  | 3/8"         | 15  | 6- 14           | 6-14       | 13           | 5/16-1/2   | 4-16      | —          | 3-12       | All            | —                | —                   | 12 | 0,3  |
| 7894- 18  | 3/8"         | 18  | 15- 22          | 15-19      | 15-22        | 9/16-7/8   | —         | —          | —          | —              | 795-3/8          | —                   | 12 | 0,35 |
| 7894- 20  | 3/8"         | 20  | —               | —          | —            | —          | —         | —          | —          | —              | —                | 7905-1/2            | 12 | 0,4  |
| 7904- 20  | 1/2"         | 20  | 10- 14          | 10-14      | 13           | 3/8-9/16   | 10-18     | —          | 5-17       | All            | —                | 7902-3/8            | 12 | 0,5  |
| 7904- 24  | 1/2"         | 24  | 15- 34          | 15-19      | 15-22        | 5/8-1.5/16 | 20-24     | 30-60      | —          | —              | 795-1/2          | 7902-3/4            | 12 | 1,0  |
| 7914- 28  | 3/4"         | 28  | —               | —          | —            | —          | —         | —          | —          | —              | —                | 7912-1/2            | 12 | 1,2  |
| 7914- 36  | 3/4"         | 36  | 17- 46          | —          | —            | 3/4-1.5/8  | —         | —          | —          | All            | 795-3/4          | 7912-1              | 12 | 1,4  |
| 7924- 41  | 1"           | 41  | —               | —          | —            | —          | —         | —          | —          | —              | —                | 7922-3/4            | 12 | 4,0  |
| 7924- 44  | 1"           | 44  | 19- 70          | —          | —            | —          | —         | —          | —          | All            | —                | 7922-1.1/2          | 12 | 5,0  |
| 7924- 51  | 1"           | 51  | —               | —          | —            | —          | —         | —          | —          | —              | 795-1            | —                   | 12 | 6,0  |
| 7934- 67  | 1.1/2"       | 67  | —               | —          | —            | —          | —         | —          | —          | —              | —                | 7932-1              | 12 | 8,0  |
| 7934- 75  | 1.1/2"       | 75  | 36- 90          | —          | —            | —          | —         | —          | —          | —              | —                | —                   | 12 | 8,0  |
| 7934- 116 | 1.1/2"       | 116 | 95-125          | —          | —            | —          | —         | —          | —          | —              | —                | —                   | 12 | 15,0 |

## Screwdriver Insert Bits and Bit Couplers

with hexagon drive 1/4", for use with air or electric power tools

Drive according to DIN 3126 Form E 6.3

Material: high grade tool steel, steelgrey

### 4100 Screwdriver Insert Bit



| Application      | for plain slot screws |    |      |  |
|------------------|-----------------------|----|------|--|
| Standard         | according to DIN 3127 |    |      |  |
| Stock-No.        | mm                    |    | g    |  |
| 4100- IS 0,5x3   | 50                    | 12 | 7,6  |  |
| 4100- IS 0,5x4   | 50                    | 12 | 8,0  |  |
| 4100- IS 0,8x4   | 50                    | 12 | 9,0  |  |
| 4100- IS 0,8x5   | 50                    | 12 | 9,6  |  |
| 4100- IS 0,8x5,5 | 50                    | 12 | 10,0 |  |
| 4100- IS 1,0x5,5 | 50                    | 12 | 10,5 |  |
| 4100- IS 1,2x6,5 | 50                    | 12 | 13,0 |  |
| 4100- IS 1,2x8   | 50                    | 12 | 14,0 |  |
| 4100- IS 1,6x8   | 50                    | 12 | 15,0 |  |
| 4100- IS 1,6x9   | 50                    | 12 | 16,0 |  |
| 4100- IS 1,6x11  | 50                    | 12 | 20,0 |  |
| 4100- IS 2,0x12  | 50                    | 12 | 22,0 |  |

### 4110 Screwdriver Insert Bit



| Application | for hexagon socket head cap screws |    |      |  |
|-------------|------------------------------------|----|------|--|
| Standard    | according to DIN 7426              |    |      |  |
| Stock-No.   | mm                                 |    | g    |  |
| 4110- IN 3  | 50                                 | 12 | 8,4  |  |
| 4110- IN 4  | 50                                 | 12 | 10,8 |  |
| 4110- IN 5  | 50                                 | 12 | 11,2 |  |
| 4110- IN 6  | 50                                 | 12 | 12,8 |  |
| 4110- IN 7  | 50                                 | 12 | 15,2 |  |
| 4110- IN 8  | 50                                 | 12 | 16,5 |  |
| 4110- IN 10 | 50                                 | 12 | 22,4 |  |

### 4120 Screwdriver Insert Bit



| Application | for cross slot screws Phillips-Recess |    |      |  |
|-------------|---------------------------------------|----|------|--|
| Standard    | according to DIN 3128                 |    |      |  |
| Stock-No.   | mm                                    |    | g    |  |
| 4120- PH 0  | 50                                    | 12 | 7,6  |  |
| 4120- PH 1  | 50                                    | 12 | 8,8  |  |
| 4120- PH 2  | 50                                    | 12 | 10,0 |  |
| 4120- PH 3  | 50                                    | 12 | 12,0 |  |
| 4120- PH 4  | 50                                    | 12 | 17,6 |  |

### 4130 Screwdriver Insert Bit



| Application | for cross slot screws Supa-Pozidriv |    |      |  |
|-------------|-------------------------------------|----|------|--|
| Standard    |                                     |    |      |  |
| Stock-No.   | mm                                  |    | g    |  |
| 4130- PZ 0  | 50                                  | 12 | 7,6  |  |
| 4130- PZ 1  | 50                                  | 12 | 8,8  |  |
| 4130- PZ 2  | 50                                  | 12 | 10,8 |  |
| 4130- PZ 3  | 50                                  | 12 | 12,4 |  |
| 4130- PZ 4  | 50                                  | 12 | 18,0 |  |

### 4160 Screwdriver Insert Bit



| Application | for inside TORX screws |    |   |      |
|-------------|------------------------|----|---|------|
| Standard    |                        |    |   |      |
| Stock-No.   | mm                     | mm | g |      |
| 4160- TX 10 | 2,74                   | 70 | 6 | 10,4 |
| 4160- TX 15 | 3,27                   | 70 | 6 | 10,4 |
| 4160- TX 20 | 3,86                   | 70 | 6 | 11,6 |
| 4160- TX 25 | 4,43                   | 70 | 6 | 14,8 |
| 4160- TX 27 | 4,99                   | 70 | 6 | 13,2 |
| 4160- TX 30 | 5,52                   | 70 | 6 | 15,2 |
| 4160- TX 40 | 6,65                   | 70 | 6 | 17,6 |

### 4140 Bit Coupler



| Application | for use of 1/4" Impact sockets on air or electric power tools with 6,3 mm hexagon drive according to DIN 3126, form E 6.3 |      |     |      |
|-------------|---------------------------------------------------------------------------------------------------------------------------|------|-----|------|
| Standard    | according to DIN 7428                                                                                                     |      |     |      |
| Stock-No.   | mm                                                                                                                        | mm   | g   |      |
| 4140- 50    | 1/4"                                                                                                                      | 1/4" | 50  | 15,6 |
| 4140- 100   | 1/4"                                                                                                                      | 1/4" | 100 | 38,0 |

### 4150 Bit Coupler



| Application | for use of 1/4" bits on air or electric power tools with 6,3 mm hexagon drive according to DIN 3126, form E 6.3 |      |     |    |
|-------------|-----------------------------------------------------------------------------------------------------------------|------|-----|----|
| Standard    | according to DIN 7427                                                                                           |      |     |    |
| Stock-No.   | mm                                                                                                              | mm   | g   |    |
| 4150- 50    | 1/4"                                                                                                            | 1/4" | 50  | 26 |
| 4150- 100   | 1/4"                                                                                                            | 1/4" | 100 | 39 |

## Screwdriver Insert Bits and Bit Couplers

with 1/4" hexagon drive ,  
for use with air or electric power tools and manual drive

Drive according to DIN 3126 Form C 6.3/ISO 1173

Material: high grade tool steel, steelgrey

### 3000 Screwdriver Insert Bit



| Application       | for plain slot screws          |    |      |  |
|-------------------|--------------------------------|----|------|--|
| Standard          | according to DIN 3127/ISO 2351 |    |      |  |
| Stock-No.         | mm                             |    | g    |  |
| 3000- IS 0,5x 3   | 39                             | 12 | 5,0  |  |
| 3000- IS 0,5x 4   | 39                             | 12 | 5,3  |  |
| 3000- IS 0,6x 3,5 | 39                             | 12 | 5,5  |  |
| 3000- IS 0,6x 4   | 39                             | 12 | 6,0  |  |
| 3000- IS 0,6x 4,5 | 39                             | 12 | 7,0  |  |
| 3000- IS 0,8x 4   | 39                             | 12 | 7,0  |  |
| 3000- IS 0,8x 5,5 | 39                             | 12 | 7,0  |  |
| 3000- IS 1,0x 5,5 | 39                             | 12 | 7,5  |  |
| 3000- IS 1,2x 6,5 | 39                             | 12 | 8,7  |  |
| 3000- IS 1,2x 8   | 39                             | 12 | 11,6 |  |
| 3000- IS 1,6x 8   | 39                             | 12 | 11,6 |  |
| 3000- IS 1,6x10   | 39                             | 12 | 15,6 |  |

### 3010 Screwdriver Insert Bit



| Application  | for hexagon socket head cap screws |    |      |  |
|--------------|------------------------------------|----|------|--|
| Standard     | according to DIN 7426/ISO 3109     |    |      |  |
| Stock-No.    | mm                                 |    | g    |  |
| 3010- IN 2   | 25                                 | 12 | 4,5  |  |
| 3010- IN 2,5 | 25                                 | 12 | 4,5  |  |
| 3010- IN 3   | 25                                 | 12 | 5,0  |  |
| 3010- IN 4   | 25                                 | 12 | 5,0  |  |
| 3010- IN 5   | 25                                 | 12 | 5,4  |  |
| 3010- IN 6   | 25                                 | 12 | 6,0  |  |
| 3010- IN 8   | 25                                 | 12 | 10,5 |  |
| 3010- IN 10  | 25                                 | 12 | 11,2 |  |



## 3020 Screwdriver Insert Bit



| Application   | for cross slot screws Phillips-Recess |    |      |
|---------------|---------------------------------------|----|------|
| Standard      | according to DIN 3128                 |    |      |
| Stock-No.     | mm                                    | mm | g    |
| 3020- PH 1×25 | 25                                    | 12 | 4,8  |
| 3020- PH 2×25 | 25                                    | 12 | 5,2  |
| 3020- PH 2×32 | 32                                    | 12 | 6,9  |
| 3020- PH 2×50 | 50                                    | 12 | 11,6 |
| 3020- PH 3×25 | 25                                    | 12 | 5,2  |
| 3020- PH 3×32 | 32                                    | 12 | 7,2  |
| 3020- PH 4×32 | 32                                    | 12 | 8,2  |

## 3021 Screwdriver Insert Bit



| Application   | for cross slot screws Supa-Pozidriv |    |      |
|---------------|-------------------------------------|----|------|
| Stock-No.     | mm                                  | mm | g    |
| 3021- PZ 0×25 | 25                                  | 12 | 5,2  |
| 3021- PZ 1×25 | 25                                  | 12 | 5,5  |
| 3021- PZ 2×25 | 25                                  | 12 | 5,6  |
| 3021- PZ 2×50 | 50                                  | 12 | 12,0 |
| 3021- PZ 3×25 | 25                                  | 12 | 5,6  |
| 3021- PZ 3×32 | 32                                  | 12 | 7,4  |
| 3021- PZ 4×32 | 32                                  | 12 | 12,0 |

## 3030 Screwdriver Insert Bit



| Application  | for B&S-XZN screws |    |     |
|--------------|--------------------|----|-----|
| Stock-No.    | mm                 | mm | g   |
| 3030- XZN M5 | 25                 | 12 | 5,2 |
| 3030- XZN M6 | 25                 | 12 | 5,6 |

## 3040 Screwdriver Insert Bit



| Application   | for RIBE-CV screws |    |      |
|---------------|--------------------|----|------|
| Stock-No.     | mm                 | mm | g    |
| 3040- RIB M5  | 32                 | 12 | 5,0  |
| 3040- RIB M6  | 32                 | 12 | 6,8  |
| 3040- RIB M8  | 32                 | 12 | 10,0 |
| 3040- RIB M10 | 32                 | 12 | 13,2 |

## 3050 Screwdriver Insert Bit



| Application | for inside TORX screws |    |    |
|-------------|------------------------|----|----|
| Stock-No.   | mm                     | mm | g  |
| 3050- TX 6  | 1,67                   | 26 | 12 |
| 3050- TX 7  | 1,99                   | 26 | 12 |
| 3050- TX 8  | 2,31                   | 26 | 12 |
| 3050- TX 9  | 2,50                   | 26 | 12 |
| 3050- TX 10 | 2,74                   | 26 | 12 |
| 3050- TX 15 | 3,27                   | 26 | 12 |
| 3050- TX 20 | 3,86                   | 26 | 12 |
| 3050- TX 25 | 4,43                   | 26 | 12 |
| 3050- TX 27 | 4,99                   | 26 | 12 |
| 3050- TX 30 | 5,52                   | 26 | 12 |
| 3050- TX 40 | 6,65                   | 26 | 12 |

## 3060 Screwdriver Insert Bit



| Application | for inside TORX screws |    |    |
|-------------|------------------------|----|----|
| Type        | with conical tip       |    |    |
| Stock-No.   | mm                     | mm | g  |
| 3060- TX 10 | 2,74                   | 26 | 12 |
| 3060- TX 15 | 3,27                   | 26 | 12 |
| 3060- TX 20 | 3,86                   | 26 | 12 |
| 3060- TX 25 | 4,43                   | 26 | 12 |
| 3060- TX 27 | 4,99                   | 26 | 12 |
| 3060- TX 30 | 5,52                   | 26 | 12 |
| 3060- TX 40 | 6,65                   | 26 | 12 |

## 3070 Screwdriver Insert Bit



| Application  | for inside TORX safety screws |    |    |
|--------------|-------------------------------|----|----|
| Type         | with hole in tip              |    |    |
| Stock-No.    | mm                            | mm | g  |
| 3070- TTX 10 | 2,74                          | 26 | 12 |
| 3070- TTX 15 | 3,27                          | 26 | 12 |
| 3070- TTX 20 | 3,86                          | 26 | 12 |
| 3070- TTX 25 | 4,43                          | 26 | 12 |
| 3070- TTX 27 | 4,99                          | 26 | 12 |
| 3070- TTX 30 | 5,52                          | 26 | 12 |
| 3070- TTX 40 | 6,65                          | 26 | 12 |

## 3425 Bit Holder



| Application | for use of 1/4" bits for electric power machines |      |    |
|-------------|--------------------------------------------------|------|----|
| Type        | with magnet                                      |      |    |
| Stock-No.   | mm                                               | mm   | g  |
| 3425        | 1/4"                                             | 1/4" | 60 |

## 3080 Dual Use Screwdriver Insert Bit



| Application | for use with power machines<br>PH: for plain slot screws and cross slot screws Phillips-Recess<br>PZ: for plain slot screws and cross slot screws Supa-Pozidriv |         |    |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----|
| Stock-No.   | mm                                                                                                                                                              | mm      | g  |
| 3080- PH 1  | PH 1                                                                                                                                                            | 0,64,5  | 60 |
| 3080- PH 2  | PH 2                                                                                                                                                            | 0,8×5,5 | 60 |
| 3080- PH 3  | PH 3                                                                                                                                                            | 1,0×7,0 | 60 |
| Stock-No.   | mm                                                                                                                                                              | mm      | g  |
| 3080- PZ 1  | PZ 1                                                                                                                                                            | 0,6×4,5 | 60 |
| 3080- PZ 2  | PZ 2                                                                                                                                                            | 0,8×5,5 | 60 |
| 3080- PZ 3  | PZ 3                                                                                                                                                            | 1,0×7,0 | 60 |

## 3085 Midget Screwdriver



| Application | suitable for your advertising imprint<br>for use with dual use screwdriver insert bit Stock-No. 3080 |    |    |
|-------------|------------------------------------------------------------------------------------------------------|----|----|
| Type        | with dual use blade PH2 / IS 0,8 × 5,5 mm                                                            |    |    |
| Material    | Polyamid holder                                                                                      |    |    |
| Stock-No.   | mm                                                                                                   | mm | g  |
| 3085        | 75                                                                                                   | 12 | 21 |

## 3450 Bit-Box



| Contents  | Magnetic Bit Holder with 6 bits                                                                                                                                           |    |    |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| Type      | holder and bits with 1/4" hexagon drive, holder with inside hexagon adaptor for 1/4" bits                                                                                 |    |    |
| Standard  | Bits according to DIN 3126, form C 6.3                                                                                                                                    |    |    |
| Stock-No. | Contents                                                                                                                                                                  |    | g  |
| 3450S     | 1 Magnetic bit holder<br>1 Phillips bit PH 1<br>1 Phillips bit PH 2<br>1 Pozidriv bit PZ 1<br>1 Pozidriv bit PZ 2<br>1 plain slot bit 5,0x0,8<br>1 plain slot bit 7,0x1,0 | 10 | 93 |

## 3452 Bit-Box



| Contents  | Magnetic Bit Holder with 18 Bits                                                                                                                                                                                                                                                         |   |     |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Type      | Holder and bits with 1/4" hexagon drive, holder with inside hexagon adaptor for 1/4" bits                                                                                                                                                                                                |   |     |
| Standard  | Bits according to DIN 3126, form C 6.3                                                                                                                                                                                                                                                   |   |     |
| Stock-No. | Contents                                                                                                                                                                                                                                                                                 |   | g   |
| 3452S     | 1 Magnetic bit holder<br>1 piece each Philips bit PH1; PH2; PH3<br>1 piece each Pozidriv bit PZ1; PZ2; PZ3<br>1 piece each TORX screwdriver bit TX10; TX15; TX20; TX25; TX30; TX40<br>1 piece each inside hexagon screwdriver bit 4; 5; 6mm<br>1 piece each plain slot bit 4,5; 5,5; 6mm | 1 | 185 |

## 3120 Screwdriver Insert Bit



| Application   | for cross slot screws Phillips-Recess |    |    |
|---------------|---------------------------------------|----|----|
| Standard      | according to DIN 3128, form C 8       |    |    |
| Stock-No.     |                                       | mm | g  |
| 3120- PH 1x32 |                                       | 32 | 12 |
| 3120- PH 2x32 |                                       | 32 | 12 |
| 3120- PH 3x32 |                                       | 32 | 12 |
| 3120- PH 4x32 |                                       | 32 | 12 |
| 3120- PH 4x38 |                                       | 38 | 12 |

## 3121 Screwdriver Insert Bit



| Application | for cross slot screws Supa-Pozidriv |    |    |
|-------------|-------------------------------------|----|----|
| Stock-No.   |                                     | mm | g  |
| 3121- PZ 1  |                                     | 32 | 12 |
| 3121- PZ 2  |                                     | 32 | 12 |
| 3121- PZ 3  |                                     | 32 | 12 |
| 3121- PZ 4  |                                     | 32 | 12 |

## 3130 Screwdriver Insert Bit



| Application  | for B&S-XZN screws |    |    |
|--------------|--------------------|----|----|
| Stock-No.    |                    | mm | g  |
| 3130- XZN 5  |                    | 28 | 12 |
| 3130- XZN 6  |                    | 28 | 12 |
| 3130- XZN 8  |                    | 28 | 12 |
| 3130- XZN 10 |                    | 32 | 12 |
| 3130- XZN 12 |                    | 36 | 12 |
| 3130- XZN 14 |                    | 38 | 12 |

## 3140 Screwdriver Insert Bit



| Application  | for RIBE-CV screws |    |    |
|--------------|--------------------|----|----|
| Stock-No.    |                    | mm | g  |
| 3140- RIB 5  |                    | 35 | 12 |
| 3140- RIB 6  |                    | 35 | 12 |
| 3140- RIB 8  |                    | 35 | 12 |
| 3140- RIB 10 |                    | 35 | 12 |
| 3140- RIB 12 |                    | 35 | 12 |
| 3140- RIB 14 |                    | 42 | 12 |
| 3140- RIB 16 |                    | 45 | 12 |

## 3455/3460 Bit-Box



| Contents  | Magnetic Bit Holder with 27 bits                                                                                                                                                                                                                                                                                                                      |   |     |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Type      | holder and bits with 1/4" hexagon drive, holder with inside hexagon adaptor for 1/4" bits                                                                                                                                                                                                                                                             |   |     |
| Standard  | Bits according to DIN 3126, form C 6.3                                                                                                                                                                                                                                                                                                                |   |     |
| Stock-No. | Contents                                                                                                                                                                                                                                                                                                                                              |   | g   |
| 3455S     | 1 Magnetic bit holder<br>1 piece each Phillips bits PH 1, PH 2, PH 3<br>3 Pozidriv bits PZ 1<br>6 Pozidriv bits PZ 2<br>3 Pozidriv bits PZ 3<br>1 piece each plain slot bits 4, 5; 6; 8 mm<br>1 piece each inside hexagon screwdriver bits 4; 5; 6 mm<br>1 piece each TORX screwdriver bits TX 10; TX 15; TX 20; TX25; TX 30; TX 40                   | 1 | 215 |
| 3460S     | 1 Magnetic bit holder<br>1 piece each Phillips bits PH 1, PH 2, PH 3<br>1 piece each Pozidriv bits PZ 1, PZ 2, PZ 3<br>1 piece each plain slot bits 3; 4,5; 5,5; 6; 6,5; 8 mm<br>1 piece each inside hexagon screwdriver bits 2; 2,5; 3; 4; 5; 6 mm<br>1 piece each TORX screwdriver bits TX 8; TX 9; TX 10; TX 15; TX 20; TX 25; TX 27; TX 30; TX 40 | 1 | 215 |

## Screwdriver Insert Bits

with 5/16" hexagon drive, for use with air or electric power tools and manual drive

Drive according to DIN 3126, Form C 8 / ISO 1173

Material: high grade tool steel, steelgrey

## 3100 Screwdriver Insert Bit



| Application       | for plain slot screws                    |    |    |
|-------------------|------------------------------------------|----|----|
| Standard          | according to DIN 3127, form C 8/ISO 2351 |    |    |
| Stock-No.         |                                          | mm | g  |
| 3100- IS 0,8x 5,5 |                                          | 41 | 12 |
| 3100- IS 1,0x 5,5 |                                          | 41 | 12 |
| 3100- IS 1,2x 6,5 |                                          | 41 | 12 |
| 3100- IS 1,2x 8   |                                          | 41 | 12 |
| 3100- IS 1,6x 8   |                                          | 41 | 12 |
| 3100- IS 1,6x10   |                                          | 41 | 12 |
| 3100- IS 2,0x12   |                                          | 41 | 12 |
| 3100- IS 2,5x14   |                                          | 41 | 12 |

## 3110 Screwdriver Insert Bit



| Application | for hexagon socket head cap screws       |    |    |
|-------------|------------------------------------------|----|----|
| Standard    | according to DIN 7426, form C 8/ISO 3109 |    |    |
| Stock-No.   |                                          | mm | g  |
| 3110- IN 3  |                                          | 30 | 12 |
| 3110- IN 4  |                                          | 30 | 12 |
| 3110- IN 5  |                                          | 30 | 12 |
| 3110- IN 6  |                                          | 30 | 12 |
| 3110- IN 8  |                                          | 30 | 12 |
| 3110- IN 10 |                                          | 30 | 12 |

## 3150 Screwdriver Insert Bit



| Application | for inside TORX screws |    |    |      |  |
|-------------|------------------------|----|----|------|--|
| Stock-No.   | mm                     | mm |    | g    |  |
| 3150-TX 25  | 4,43                   | 35 | 12 | 10,2 |  |
| 3150-TX 27  | 4,99                   | 35 | 12 | 10,4 |  |
| 3150-TX 30  | 5,52                   | 35 | 12 | 10,8 |  |
| 3150-TX 40  | 6,65                   | 35 | 12 | 11,8 |  |
| 3150-TX 45  | 7,82                   | 35 | 12 | 12,9 |  |
| 3150-TX 50  | 8,83                   | 35 | 12 | 14,4 |  |
| 3150-TX 55  | 11,22                  | 35 | 12 | 20,4 |  |

## 3170 Screwdriver Insert Bit



| Application | for inside TORX safety screws |    |    |    |  |
|-------------|-------------------------------|----|----|----|--|
| Type        | with bore in tip              |    |    |    |  |
| Stock-No.   | mm                            | mm |    | g  |  |
| 3170-TTX 25 | 4,43                          | 35 | 12 | 10 |  |
| 3170-TTX 27 | 4,99                          | 35 | 12 | 10 |  |
| 3170-TTX 30 | 5,52                          | 35 | 12 | 11 |  |
| 3170-TTX 40 | 6,65                          | 35 | 12 | 12 |  |
| 3170-TTX 45 | 7,82                          | 35 | 12 | 13 |  |
| 3170-TTX 50 | 8,83                          | 35 | 12 | 14 |  |
| 3170-TTX 55 | 11,22                         | 35 | 12 | 20 |  |

## 3090 Ratchet Wrench



| Application | with female hexagon for screwdriver bits 1/4" and 5/16" |   |     |  |  |
|-------------|---------------------------------------------------------|---|-----|--|--|
| Type        | with magnet, chrome plated, polished                    |   |     |  |  |
| Material    | special steel                                           |   |     |  |  |
| Stock-No.   | mm                                                      |   | g   |  |  |
| 3090        | 138                                                     | 6 | 105 |  |  |

## 3090G Cranked Ratchet Wrench



| Application | with female hexagon for screwdriver bits 1/4" and 5/16" |   |     |  |  |
|-------------|---------------------------------------------------------|---|-----|--|--|
| Type        | with magnet, cranked, chrome plated, polished           |   |     |  |  |
| Material    | special steel                                           |   |     |  |  |
| Stock-No.   | mm                                                      |   | g   |  |  |
| 3090G       | 140                                                     | 6 | 105 |  |  |

## Bit Holder

for Bits with 1/4" hexagon drive according to DIN 3126 Form C and E

## 3430 Universal Bit Holder



| Application | for 1/4" or 5/16" bits                                                                  |     |   |     |  |
|-------------|-----------------------------------------------------------------------------------------|-----|---|-----|--|
| Type        | with joint, bit adaption with spring clip, chrome plated, polished, with plastic handle |     |   |     |  |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                               |     |   |     |  |
| Standard    | bit adaption acc. to DIN 3126 form C 6.3 or form C 8                                    |     |   |     |  |
| Stock-No.   | mm                                                                                      |     | g |     |  |
| 3430- 1/4"  | 1/4"                                                                                    | 160 | 6 | 84  |  |
| 3430- 5/16" | 5/16"                                                                                   | 180 | 6 | 122 |  |

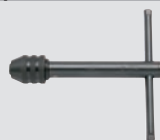
## 3415 Universal Bit Holder



| Application | for 1/4" bits                                                |     |   |     |  |
|-------------|--------------------------------------------------------------|-----|---|-----|--|
| Type        | bit adaption with magnet, chrome plated, with plastic handle |     |   |     |  |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                    |     |   |     |  |
| Stock-No.   | mm                                                           |     | g |     |  |
| 3415        | 1/4"                                                         | 180 | 6 | 130 |  |

## Tap Wrenches

## 4480 Tap Wrench



| Application | for tap                                              |     |   |     |  |
|-------------|------------------------------------------------------|-----|---|-----|--|
| Type        | with sliding T-handle, without ratchet, black finish |     |   |     |  |
| Material    | steel                                                |     |   |     |  |
| Stock-No.   | for taps                                             | mm  |   | g   |  |
| 4480- 5,5   | M3-M10                                               | 110 | 1 | 105 |  |
| 4480- 7     | M5-M12                                               | 115 | 1 | 170 |  |

## 4481 Tap Wrench



| Application | for tap                                                                        |     |   |     |  |
|-------------|--------------------------------------------------------------------------------|-----|---|-----|--|
| Type        | with sliding T-handle, with ratchet for left and right hand use, chrome plated |     |   |     |  |
| Material    | steel                                                                          |     |   |     |  |
| Stock-No.   | for taps                                                                       | mm  |   | g   |  |
| 4481- 5,5   | M3-M10                                                                         | 85  | 1 | 175 |  |
| 4481- 7     | M5-M12                                                                         | 110 | 1 | 305 |  |

## Impact Screwdriver and Adaptor

## 3400 Impact Screwdriver



| Application | for loosening of screws, for use with Adaptor Stock-No. 3300- 1/2 x 1/4" or 3300- 1/2 x 5/16" |   |     |  |  |
|-------------|-----------------------------------------------------------------------------------------------|---|-----|--|--|
| Type        | with 1/2" square drive, for left and right hand use, with slip resistant grip                 |   |     |  |  |
| Stock-No.   | mm                                                                                            |   | g   |  |  |
| 3400        | 150                                                                                           | 1 | 750 |  |  |

## 3401 Impact Screwdriver Set



| Type       | in black metal storage case                                                                                                                                                                                                     |   |      |  |  |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|--|--|
| Stock-No.  | Contents                                                                                                                                                                                                                        |   | g    |  |  |
| 3401- S 12 | 3400<br>3300-1/2 x 5/16<br>3100-IS 1,0 x 5,5 mm<br>3100-IS 1,2 x 6,5 mm<br>3100-IS 1,6 x 8,0 mm<br>3100-IS 2,0 x 12,0 mm<br>3110-IN 6 mm<br>3110-IN 8 mm<br>3110-IN 10 mm<br>3120-PH 2 x 32<br>3120-PH 3 x 32<br>3120-PH 4 x 32 | 1 | 1385 |  |  |

## 3300 Adaptor



| Application    | for use of 1/4" or 5/16" bits with Impact screwdrivers, air or electric power machines |       |    |   |      |
|----------------|----------------------------------------------------------------------------------------|-------|----|---|------|
| Type           | chrome plated                                                                          |       |    |   |      |
| Material       | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                              |       |    |   |      |
| Standard       | according to DIN 7427, form A/ISO 1173                                                 |       |    |   |      |
| Stock-No.      |                                                                                        | mm    |    | g |      |
| 3300- 1/4x1/4  | 1/4"                                                                                   | 1/4"  | 25 | 6 | 18,0 |
| 3300- 1/4x5/16 | 1/4"                                                                                   | 5/16" | 30 | 6 | 15,2 |
| 3300- 3/8x1/4  | 3/8"                                                                                   | 1/4"  | 30 | 6 | 40,8 |
| 3300- 3/8x5/16 | 3/8"                                                                                   | 5/16" | 30 | 6 | 41,0 |
| 3300- 1/2x1/4  | 1/2"                                                                                   | 1/4"  | 35 | 6 | 80,0 |
| 3300- 1/2x5/16 | 1/2"                                                                                   | 5/16" | 35 | 6 | 64,0 |





## THE RIGHT TOOL AT THE RIGHT MOMENT – FOR OPTIMISED WORKING PROCESSES.

Trust is good, control is better. There is no other chapter in our product range which have been consequently increased and improved over the recent years more than torque tools and testers. We provide the perfect tools and testers for your convenience. ELORA provides the solution for all kind of torque problems from 5cNm up to 2.800Nm as well as for high strength applications by use of torque multiplier up to almost 10.000 Nm.

### TORQUE TOOLS AND TESTERS

05





## Torque Wrenches

### 2010 Torque Screw Driver

**New!**



| Application             | for torque controlled fixing                                                                                                     |              |     |   |       |  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------|-----|---|-------|--|
| Type                    | left and right hand use, with 1/4" female bit adaptor, allowing accurate preset torque value, accuracy $\pm 6\%$ of preset value |              |     |   |       |  |
| Standard                | according to DIN / ISO 6789                                                                                                      |              |     |   |       |  |
| Stock-No.               | Range<br>cNm                                                                                                                     | Pitch<br>cNm | mm  |   | <br>g |  |
| 2010- 30 <sup>*1</sup>  | 2 – 30                                                                                                                           | 0,2          | 96  | 1 | 45    |  |
| 2010-120                | 20 – 120                                                                                                                         | 0,5          | 160 | 1 | 150   |  |
| 2010-500                | 100 – 500                                                                                                                        | 2,5          | 200 | 1 | 440   |  |
| Stock-No.               | Range<br>Nm                                                                                                                      | Pitch<br>Nm  | mm  |   | <br>g |  |
| 2010-1000 <sup>*2</sup> | 2 – 10                                                                                                                           | 0,05         | 235 | 1 | 790   |  |

<sup>\*1</sup>) handle end to be turned for safety guidance

<sup>\*2</sup>) extra t-handle for increased power transmission

### 2175-2181 Torque Wrench



| Application | for left and right hand use                                                                                                                                                                                             |                      |             |                 |             |                 |     |   |       |  |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------|-----------------|-------------|-----------------|-----|---|-------|--|
| Type        | with Reversible or Push Through Ratchet, scale for Nm and ft.lb., preset value can be seen in display and locked at grip end, with acoustic indicator, accuracy: $\pm 4\%$ of preset value, with 2K slip resistant grip |                      |             |                 |             |                 |     |   |       |  |
| Standard    | according to DIN / ISO 6789                                                                                                                                                                                             |                      |             |                 |             |                 |     |   |       |  |
| Stock-No.   | Drive<br>■                                                                                                                                                                                                              | Head                 | Range<br>Nm | Range<br>ft.lb. | Pitch<br>Nm | Pitch<br>ft.lb. | mm  |   | <br>g |  |
| 2175- 60    | 3/8"                                                                                                                                                                                                                    | Reversible Ratchet   | 8 – 60      | 6 – 45          | 1           | 1               | 300 | 1 | 600   |  |
| 2176- 100   | 3/8"                                                                                                                                                                                                                    | Reversible Ratchet   | 20 – 100    | 15 – 80         | 1           | 1               | 340 | 1 | 700   |  |
| 2180- 200   | 1/2"                                                                                                                                                                                                                    | Reversible Ratchet   | 40 – 200    | 30 – 150        | 2           | 2               | 440 | 1 | 955   |  |
| 2181- 330   | 1/2"                                                                                                                                                                                                                    | Push Through Ratchet | 60 – 330    | 42 – 250        | 5           | 5               | 675 | 1 | 1440  |  |

### 2190 Pre-Set Torque Wrench with Ratchet Unit

2192  
2194



| Application | for serial assembly with fixed torque value, Range 8-400 Nm (types see below)                                                                                                             |                      |             |                 |     |   |       |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------|-----------------|-----|---|-------|
| Type        | with reversible respect. push-through ratchet, fixed torque value (no scale), with noticable and acoustic click indicator, accuracy $\pm 4\%$ of preset value, with slip resistant handle |                      |             |                 |     |   |       |
| Standard    | according to DIN / ISO 6789                                                                                                                                                               |                      |             |                 |     |   |       |
| Stock-No.   | Drive<br>■                                                                                                                                                                                | Head                 | Range<br>Nm | Range<br>ft.lb. | mm  |   | <br>g |
| 2190- 60    | 3/8"                                                                                                                                                                                      | Reversible Ratchet   | 8 – 60      | 5 – 45          | 220 | 1 | 400   |
| 2190-100    | 3/8"                                                                                                                                                                                      | Reversible Ratchet   | 10 – 100    | 8 – 80          | 330 | 1 | 690   |
| 2192- 60    | 1/2"                                                                                                                                                                                      | Reversible Ratchet   | 8 – 60      | 5 – 45          | 305 | 1 | 600   |
| 2192-100    | 1/2"                                                                                                                                                                                      | Reversible Ratchet   | 10 – 100    | 8 – 80          | 330 | 1 | 690   |
| 2192-200    | 1/2"                                                                                                                                                                                      | Reversible Ratchet   | 20 – 200    | 15 – 150        | 425 | 1 | 1000  |
| 2192-300    | 1/2"                                                                                                                                                                                      | Push Through Ratchet | 30 – 300    | 22 – 220        | 660 | 1 | 1240  |
| 2194-400    | 3/4"                                                                                                                                                                                      | Push Through Ratchet | 40 – 400    | 30 – 300        | 682 | 1 | 2000  |

## 2185 Torque Wrench



| Application | for left and right hand use                                                                                                                                                                                |                    |          |              |     |   |      |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|--------------|-----|---|------|
| Type        | with fine teeth ratchet, 72 teeth, scale in Nm and ft.lb., quick-set of torque values, fixing wheel and display, with noticable and acoustic indicator, accuracy $\pm 4\%$ of preset value, plastic handle |                    |          |              |     |   |      |
| Standard    | according to DIN / ISO 6789                                                                                                                                                                                |                    |          |              |     |   |      |
| Stock-No.   | Drive                                                                                                                                                                                                      | Head               | Range Nm | Range ft.lb. | mm  |   | g    |
| 2185-100    | 1/2"                                                                                                                                                                                                       | Reversible Ratchet | 20 – 100 | 15 – 80      | 450 | 1 | 1200 |
| 2185-200    | 1/2"                                                                                                                                                                                                       | Reversible Ratchet | 40 – 200 | 30 – 150     | 450 | 1 | 1200 |
| 2185-350    | 1/2"                                                                                                                                                                                                       | Reversible Ratchet | 60 – 350 | 42 – 250     | 590 | 1 | 1400 |

## 2130 2160 Torque Wrench



| Application | for left and right hand use                                                                                                                                    |            |           |              |              |          |           |              |              |      |   |       |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|--------------|--------------|----------|-----------|--------------|--------------|------|---|-------|
| Type        | with Push Through Square Drive, with micrometer type sleeve, allowing accurate preset of torque values, with audible click, accuracy $\pm 3\%$ of preset value |            |           |              |              |          |           |              |              |      |   |       |
| Standard    | square drive according to DIN / ISO 6789                                                                                                                       |            |           |              |              |          |           |              |              |      |   |       |
| Stock-No.   | Drive                                                                                                                                                          | Range Nm   | Range kgm | Range in.lb. | Range ft.lb. | Pitch Nm | Pitch kgm | Pitch in.lb. | Pitch ft.lb. | mm   |   | g     |
| 2130- 11    | 3/8"                                                                                                                                                           | 2,5 – 11   | 0,3 – 1,2 | 20 – 100     | 2 – 8        | 0,5      | 0,2       | 10           | 0,5          | 301  | 1 | 560   |
| 2130- 33    | 3/8"                                                                                                                                                           | 5 – 33     | 0,5 – 3,4 | 40 – 300     | 4 – 24       | 1        | 0,2       | 10           | 1            | 410  | 1 | 690   |
| 2130- 68    | 3/8"                                                                                                                                                           | 12 – 68    | 1,2 – 7   | 100 – 600    | 10 – 50      | 2        | 0,2       | 20           | 2            | 482  | 1 | 1000  |
| 2140- 68    | 1/2"                                                                                                                                                           | 12 – 68    | 1,2 – 7   | 100 – 600    | 10 – 50      | 2        | 0,2       | 20           | 2            | 482  | 1 | 1000  |
| 2140-135    | 1/2"                                                                                                                                                           | 25 – 150   | 2,5 – 15  | 200 – 1300   | 20 – 110     | 5        | 1         | 50           | 2            | 560  | 1 | 1700  |
| 2140-225    | 1/2"                                                                                                                                                           | 50 – 250   | 5 – 25    | 450 – 2200   | 40 – 180     | 10       | 1         | 50           | 5            | 610  | 1 | 2300  |
| 2140-330    | 1/2"                                                                                                                                                           | 70 – 350   | 7 – 35    | 500 – 3100   | 50 – 260     | 10       | 1         | 100          | 10           | 780  | 1 | 3000  |
| 2150-810    | 3/4"                                                                                                                                                           | 150 – 800  | 15 – 80   | 1400 – 7000  | 120 – 580    | 20       | 2         | 200          | 20           | 940  | 1 | 6500  |
| 2160-940    | 1"                                                                                                                                                             | 200 – 1000 | 20 – 100  | 1800 – 8500  | 150 – 750    | 25       | 2,5       | 250          | 25           | 1030 | 1 | 9700  |
| 2160-2000   | 1"                                                                                                                                                             | 500 – 2000 | 50 – 200  | 4500 – 17500 | 350 – 1500   | 50       | 5         | 500          | 50           | 1410 | 1 | 18000 |

## 2420 Digital Torque Wrench

Easy to use is significant for this torque wrench. Input of target torque value with 4-button keyboard next to the big LCD Display. Optical and acoustic signal indicate reach of target value. Warning signal for overtorque. Measurement in Nm, ft.lb. and in in.lb.

If used with cable 2420RS for serial port RS 232 documentation of measurement results is possible.

Information to be printed are: **actual value, unit, target value, % tolerance, valuation.**

Lifetime of 4 Mignon batteries approx. 100 hrs.

## 2420 ELOTRONIC Digital Torque Wrench EDS



| Application  | for left and right hand use                                                                                                                                                                                                                                                                                                  |          |              |              |     |   |      |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|--------------|-----|---|------|
| Type         | with fine tooth ratchet 72 teeth, Display in Nm, ft.lb. or in in.lb., large 4 digits numerical display, acoustical and optical signal via 3 LED, 2 different modes of operation (Track Mode; Peak Hold), serial port for PC/Printer (RS232C 9600 BPS, 8,1,N), accuracy $\pm 2\%$ of preset value, with slip resistant handle |          |              |              |     |   |      |
| Standard     | according to DIN / ISO 6789                                                                                                                                                                                                                                                                                                  |          |              |              |     |   |      |
| Stock-No.    | Drive                                                                                                                                                                                                                                                                                                                        | Range Nm | Range in.lb. | Range ft.lb. | mm  |   | g    |
| 2420-EDS 200 | 1/2"                                                                                                                                                                                                                                                                                                                         | 20 – 200 | 180 – 1800   | 15-150       | 458 | 1 | 1260 |
| 2420-EDS 340 | 1/2"                                                                                                                                                                                                                                                                                                                         | 34 – 340 | 300 – 3000   | 25-250       | 559 | 1 | 1550 |
| 2420-RS      | Contents: 4 rechargeable batteries, cable for serial port RS 232, Power supply                                                                                                                                                                                                                                               |          |              |              |     | 1 | 500  |

## 2410 Digital Torque Wrench

Digital Torque Wrench with torsion bar measurement. Advantage of torsion bar against bend bar system is free choice of grip position. The direct measurement in wrench head avoids inaccuracies. Input of target torque value with large display. 3 bright LED for indication of target torque value. In addition acoustical signal upon reach of target value. If overtorque a puls tone is audible. Measurement in Nm, ft.lb. and in.lb. Display can be turned for perfect and easy reading.



### 2410 ELOTRONIC Digital Torque Wrench EDS



| Application  | for left and right hand use                                                                                                                                                                                                                                                          |            |              |              |     |   |      |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|--------------|-----|---|------|
| Type         | with fixed head square drive, reading in Nm, ft.lb. or in in.lb., large 4 digits numerical display, display can be turned into perfect position, acoustical and optical signal via 3 LED, 2 different modes of operation (Track Mode; Peak Hold), accuracy $\pm 1\%$ of preset value |            |              |              |     |   |      |
| Standard     | according to DIN / ISO 6789                                                                                                                                                                                                                                                          |            |              |              |     |   |      |
| Stock-No.    | Drive                                                                                                                                                                                                                                                                                | Range Nm   | Range in.lb. | Range ft.lb. | mm  |   | g    |
| 2410-EDS 8   | 1/4"                                                                                                                                                                                                                                                                                 | 0,85 – 8,5 | 7,5 – 75     | 0,625 – 6,25 | 270 | 1 | 725  |
| 2410-EDS 30  | 3/8"                                                                                                                                                                                                                                                                                 | 3 – 30     | 25 – 250     | 2,1 – 21     | 270 | 1 | 725  |
| 2410-EDS 350 | 1/2"                                                                                                                                                                                                                                                                                 | 35 – 350   | 300 – 3000   | 25 – 250     | 560 | 1 | 1400 |

### 2035 Torque Wrench for use of Spanner Heads



| Application | for use with interchangeable tools, for left and right hand use                                                                                                                             |          |              |          |              |     |      |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------|--------------|-----|------|
| Type        | scale in Nm and ft.lb., accurate preset of torque value, preset value can be seen in display and locked at grip end, with acoustic indicator, accuracy $\pm 4\%$ , with slip resistant grip |          |              |          |              |     |      |
| Standard    | according to DIN / ISO 6789                                                                                                                                                                 |          |              |          |              |     |      |
| Stock-No.   | Square drive mm                                                                                                                                                                             | Range Nm | Range ft.lb. | Pitch Nm | Pitch ft.lb. | mm  | g    |
| 2035- 60    | 9 x 12                                                                                                                                                                                      | 8 – 60   | 6 – 45       | 1        | 1            | 300 | 600  |
| 2035- 100   | 9 x 12                                                                                                                                                                                      | 20 – 100 | 15 – 80      | 1        | 1            | 340 | 700  |
| 2035- 200   | 14 x 18                                                                                                                                                                                     | 40 – 200 | 30 – 150     | 2        | 2            | 440 | 955  |
| 2035- 330   | 14 x 18                                                                                                                                                                                     | 60 – 330 | 42 – 250     | 5        | 5            | 675 | 1440 |

### 2045 Pre-Set Torque Wrench for use of Spanner Heads



| Application | for serial assembly with fixed torque value, for use with interchangeable tools, Range 8-300 Nm (types see below) |          |              |     |   |      |  |
|-------------|-------------------------------------------------------------------------------------------------------------------|----------|--------------|-----|---|------|--|
| Type        | fixed torque value (no scale), acoustic indicator, accuracy $\pm 4\%$ of preset value, with slip resistant handle |          |              |     |   |      |  |
| Standard    | according to DIN / ISO 6789                                                                                       |          |              |     |   |      |  |
| Stock-No.   | Square drive mm                                                                                                   | Range Nm | Range ft.lb. | mm  |   | g    |  |
| 2045- 60    | 9 x 12                                                                                                            | 8 – 60   | 5 – 45       | 288 | 1 | 550  |  |
| 2045-100    | 9 x 12                                                                                                            | 10 – 100 | 8 – 80       | 315 | 1 | 600  |  |
| 2045-200    | 9 x 12                                                                                                            | 20 – 200 | 15 – 150     | 405 | 1 | 780  |  |
| 2046-200    | 14 x 18                                                                                                           | 20 – 200 | 15 – 150     | 405 | 1 | 780  |  |
| 2046-300    | 14 x 18                                                                                                           | 30 – 300 | 22 – 220     | 645 | 1 | 1130 |  |

## 2040 Torque Wrench for use of Spanner Heads



|             |                                                                                                                                                                         |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | for use with interchangeable tools, for left and right hand use                                                                                                         |
| Type        | scale in Nm and ft.lb., quick-set of torque values, fixing wheel and display, with noticable and acoustic indicator, accuracy $\pm 4\%$ of preset value, plastic handle |
| Standard    | according to DIN / ISO 6789                                                                                                                                             |

| Stock-No. | Square drive<br>mm | Range<br>Nm | Range<br>ft.lb. | mm  |   | g    |
|-----------|--------------------|-------------|-----------------|-----|---|------|
| 2040-100  | 9 × 12             | 20 – 100    | 15 – 80         | 440 | 1 | 1100 |
| 2040-200  | 14 × 18            | 40 – 200    | 30 – 150        | 440 | 1 | 1100 |
| 2040-350  | 14 × 18            | 60 – 350    | 42 – 250        | 590 | 1 | 1100 |

## 870-1A 770-L1A 770-S1A Ratchet Unit



|             |                                                        |
|-------------|--------------------------------------------------------|
| Application | for use with torque wrench without ratchet             |
| Type        | with pin for change from left hand to right hand drive |
| Standard    | square drive according to DIN 3120/ISO 1174            |

| Stock-No. | Drive<br>mm | mm |   | g    |
|-----------|-------------|----|---|------|
| 870- 1A   | 3/8"        | 49 | 1 | 150  |
| 770- L1A  | 1/2"        | 67 | 1 | 310  |
| 770- S1A  | 3/4"        | 98 | 1 | 1530 |

## 2072-3/ 2076 Reversible Ratchet Head



|             |                                                              |
|-------------|--------------------------------------------------------------|
| Application | for torque wrench with drive coupler 9 × 12 mm or 14 × 18 mm |
| Type        | chrome plated                                                |
| Standard    | square drive according to DIN 3120/ISO 1174                  |

| Stock-No. | Drive<br>mm | Drive coupler<br>mm |   | g   |
|-----------|-------------|---------------------|---|-----|
| 2072- 3   | 1/2"        | 9 × 12 mm           | 1 | 147 |
| 2076- 1   | 1/2"        | 14 × 18 mm          | 1 | 302 |

## 2072-1 2072-2 Reversible Ratchet Head



1/4"

3/8"

|             |                                                                   |
|-------------|-------------------------------------------------------------------|
| Application | for torque wrench with drive coupler 9 × 12 mm                    |
| Type        | 2072-1: reversible, chrome plated, polished, 2072-2: black finish |
| Standard    | square drive according to DIN 3120/ISO 1174                       |

| Stock-No. | Drive<br>mm | Drive coupler-<br>mm |   | g   |
|-----------|-------------|----------------------|---|-----|
| 2072- 1   | 1/4"        | 9 × 12 mm            | 1 | 62  |
| 2072- 2   | 3/8"        | 9 × 12 mm            | 1 | 136 |

## 2074 Fixed Drive Head



|             |                                                |
|-------------|------------------------------------------------|
| Application | for torque wrench with drive coupler 9 × 12 mm |
| Type        | chrome plated, polished                        |
| Standard    | square drive according to DIN 3120/ISO 1174    |

| Stock-No. | Drive<br>mm | Drive coupler<br>mm |   | g  |
|-----------|-------------|---------------------|---|----|
| 2074- 1   | 1/4"        | 9 × 12 mm           | 1 | 71 |
| 2074- 2   | 3/8"        | 9 × 12 mm           | 1 | 76 |
| 2074- 3   | 1/2"        | 9 × 12 mm           | 1 | 82 |

## 2078 Fixed Drive Head



| Application | for torque wrench with drive coupler 14 × 18 mm |               |   |     |
|-------------|-------------------------------------------------|---------------|---|-----|
| Type        | chrome plated, polished                         |               |   |     |
| Standard    | square drive according to DIN 3120/ISO 1174     |               |   |     |
| Stock-No.   | Drive                                           | Drive coupler |   |     |
| 2078- 1     | 1/2"                                            | 14 × 18 mm    | 1 | 203 |

## 2052 2056 Open End Spanner Head



| Application | for torque wrench with drive coupler |   |    |  |
|-------------|--------------------------------------|---|----|--|
| Type        | chrome plated, polished              |   |    |  |
| Standard    | size according to DIN 475            |   |    |  |
| Stock-No.   | Drive coupler                        |   |    |  |
|             |                                      |   | g  |  |
| 2052- 7     | 9 × 12 mm                            | 1 | 40 |  |
| 2052- 8     | 9 × 12 mm                            | 1 | 39 |  |
| 2052- 9     | 9 × 12 mm                            | 1 | 38 |  |
| 2052- 10    | 9 × 12 mm                            | 1 | 42 |  |
| 2052- 11    | 9 × 12 mm                            | 1 | 41 |  |
| 2052- 12    | 9 × 12 mm                            | 1 | 43 |  |
| 2052- 13    | 9 × 12 mm                            | 1 | 48 |  |
| 2052- 14    | 9 × 12 mm                            | 1 | 52 |  |
| 2052- 15    | 9 × 12 mm                            | 1 | 51 |  |
| 2052- 16    | 9 × 12 mm                            | 1 | 58 |  |
| 2052- 17    | 9 × 12 mm                            | 1 | 60 |  |
| 2052- 18    | 9 × 12 mm                            | 1 | 71 |  |
| 2052- 19    | 9 × 12 mm                            | 1 | 74 |  |

| Stock-No. | Drive coupler |   |     |  |
|-----------|---------------|---|-----|--|
|           |               |   | g   |  |
| 2056- 13  | 14 × 18 mm    | 1 | 128 |  |
| 2056- 14  | 14 × 18 mm    | 1 | 129 |  |
| 2056- 15  | 14 × 18 mm    | 1 | 132 |  |
| 2056- 16  | 14 × 18 mm    | 1 | 140 |  |
| 2056- 17  | 14 × 18 mm    | 1 | 136 |  |
| 2056- 18  | 14 × 18 mm    | 1 | 147 |  |
| 2056- 19  | 14 × 18 mm    | 1 | 147 |  |
| 2056- 21  | 14 × 18 mm    | 1 | 171 |  |
| 2056- 22  | 14 × 18 mm    | 1 | 165 |  |
| 2056- 24  | 14 × 18 mm    | 1 | 167 |  |
| 2056- 27  | 14 × 18 mm    | 1 | 219 |  |
| 2056- 30  | 14 × 18 mm    | 1 | 245 |  |
| 2056- 32  | 14 × 18 mm    | 1 | 246 |  |

## 2062 Ring Spanner Head



| Application | for torque wrench with drive coupler 9 × 12 mm |   |    |  |
|-------------|------------------------------------------------|---|----|--|
| Type        | chrome plated, polished                        |   |    |  |
| Standard    | size according to DIN 475                      |   |    |  |
| Stock-No.   | Drive coupler                                  |   |    |  |
|             |                                                |   | g  |  |
| 2062- 7     | 9 × 12 mm                                      | 1 | 37 |  |
| 2062- 8     | 9 × 12 mm                                      | 1 | 40 |  |
| 2062- 10    | 9 × 12 mm                                      | 1 | 44 |  |
| 2062- 11    | 9 × 12 mm                                      | 1 | 41 |  |
| 2062- 12    | 9 × 12 mm                                      | 1 | 49 |  |
| 2062- 13    | 9 × 12 mm                                      | 1 | 56 |  |
| 2062- 14    | 9 × 12 mm                                      | 1 | 52 |  |
| 2062- 15    | 9 × 12 mm                                      | 1 | 52 |  |
| 2062- 16    | 9 × 12 mm                                      | 1 | 54 |  |
| 2062- 17    | 9 × 12 mm                                      | 1 | 59 |  |
| 2062- 18    | 9 × 12 mm                                      | 1 | 56 |  |
| 2062- 19    | 9 × 12 mm                                      | 1 | 65 |  |
| 2062- 21    | 9 × 12 mm                                      | 1 | 71 |  |
| 2062- 22    | 9 × 12 mm                                      | 1 | 74 |  |

## 2066 Ring Spanner Head



| Application | for torque wrench with drive coupler 14 × 18 mm |   |     |  |
|-------------|-------------------------------------------------|---|-----|--|
| Type        | chrome plated, polished                         |   |     |  |
| Standard    | size according to DIN 475                       |   |     |  |
| Stock-No.   | Drive coupler                                   |   |     |  |
|             |                                                 |   | g   |  |
| 2066- 13    | 14 × 18 mm                                      | 1 | 127 |  |
| 2066- 14    | 14 × 18 mm                                      | 1 | 123 |  |
| 2066- 15    | 14 × 18 mm                                      | 1 | 128 |  |
| 2066- 16    | 14 × 18 mm                                      | 1 | 133 |  |
| 2066- 17    | 14 × 18 mm                                      | 1 | 135 |  |
| 2066- 18    | 14 × 18 mm                                      | 1 | 134 |  |
| 2066- 19    | 14 × 18 mm                                      | 1 | 138 |  |
| 2066- 21    | 14 × 18 mm                                      | 1 | 144 |  |
| 2066- 22    | 14 × 18 mm                                      | 1 | 145 |  |
| 2066- 24    | 14 × 18 mm                                      | 1 | 153 |  |
| 2066- 27    | 14 × 18 mm                                      | 1 | 162 |  |
| 2066- 30    | 14 × 18 mm                                      | 1 | 182 |  |
| 2066- 32    | 14 × 18 mm                                      | 1 | 181 |  |
| 2066- 34    | 14 × 18 mm                                      | 1 | 210 |  |
| 2066- 36    | 14 × 18 mm                                      | 1 | 203 |  |
| 2066- 41    | 14 × 18 mm                                      | 1 | 240 |  |



# TORQUE WRENCHES

## 2400 ELOMETER Torque Wrench UDS

The new Torque Wrench Model ELOMETER-UDS with dial indicator and follow-up pointer.



## 2400 ELOMETER Torque Wrench UDS



| Application   | for left and right hand use                                                                                         |             |                 |                 |             |                 |                 |                        |      |   |       |  |
|---------------|---------------------------------------------------------------------------------------------------------------------|-------------|-----------------|-----------------|-------------|-----------------|-----------------|------------------------|------|---|-------|--|
| Type          | with fixed head square, dial indicator and follow-up pointer, accuracy $\pm 2\%$ within 20%-100% of measuring range |             |                 |                 |             |                 |                 |                        |      |   |       |  |
| Standard      | according to DIN / ISO 6789                                                                                         |             |                 |                 |             |                 |                 |                        |      |   |       |  |
| Stock-No.     | Drive<br>■                                                                                                          | Range<br>Nm | Range<br>in.lb. | Range<br>ft.lb. | Pitch<br>Nm | Pitch<br>in.lb. | Pitch<br>ft.lb. | Signal                 | mm   |   | <br>g |  |
| 2400-UDS 3    | 1/4"                                                                                                                | 0 – 3,5     | 0 – 30          | –               | 0,1         | 1               | -               | -                      | 270  | 1 | 725   |  |
| 2400-UDS 9    | 1/4"                                                                                                                | 0 – 9       | 0 – 75          | –               | 0,2         | 1               | -               | -                      | 270  | 1 | 725   |  |
| 2400-UDS 18   | 3/8"                                                                                                                | 0 – 18      | 0 – 150         | –               | 0,5         | 2               | -               | -                      | 270  | 1 | 725   |  |
| 2400-UDS 30   | 3/8"                                                                                                                | 0 – 30      | 0 – 250         | –               | 0,5         | 5               | -               | -                      | 270  | 1 | 725   |  |
| 2400-UDS 70   | 3/8"                                                                                                                | 0 – 70      | –               | 0 – 50          | 2           | -               | 1               | -                      | 270  | 1 | 725   |  |
| 2400-UDS 240  | 1/2"                                                                                                                | 0 – 240     | –               | 0 – 175         | 5           | -               | 5               | -                      | 560  | 1 | 1400  |  |
| 2400-UDS 350  | 1/2"                                                                                                                | 0 – 350     | –               | 0 – 250         | 10          | -               | 5               | -                      | 560  | 1 | 1400  |  |
| 2400-UDS 480  | 3/4"                                                                                                                | 0 – 480     | –               | 0 – 350         | 10          | -               | 10              | -                      | 675  | 1 | 3200  |  |
| 2400-UDS 800  | 3/4"                                                                                                                | 0 – 800     | –               | 0 – 600         | 25          | -               | 10              | -                      | 1180 | 1 | 4500  |  |
| 2400-UDS 1400 | 1"                                                                                                                  | 0 – 1400    | –               | 0 – 1000        | 25          | -               | 20              | optical and acoustical | 1970 | 1 | 9000  |  |
| 2400-UDS 2800 | 1"                                                                                                                  | 0 – 2800    | –               | 0 – 2000        | 50          | -               | 40              | optical and acoustical | 3200 | 1 | 21000 |  |

TORQUE WRENCHES



2450 ELOTRONIC Torque Tester STT

The ELOTRONIC STT is a stationary Test Unit for calibration and checking of click-torque wrenches. The ELOTRONIC STT is suitable for horizontal and vertical use. The measuring accuracy is ± 1%. The display can be turned round for easy reading.



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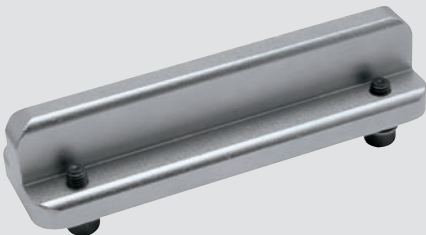
2450 ELOTRONIC Torque Tester STT



|             |                                                                                                                                                                                                                                                               |  |  |  |  |  |  |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| Application | for testing and adjusting of torque tools (also suitable for click type torque wrenches)                                                                                                                                                                      |  |  |  |  |  |  |
| Type        | reading in Nm, ft.lb. or in.lb., large 4 digits numerical display, display can be swivelled into perfect position, acoustical and optical signal via 3 LED, 3 different modes of operation (Track Mode; Peak Hold; First Peak), accuracy ± 1% of preset value |  |  |  |  |  |  |
| Standard    | according to DIN / ISO 6789                                                                                                                                                                                                                                   |  |  |  |  |  |  |

| Stock-No.    | Drive<br>● | Drive<br>□ ■ | Range<br>Nm | Range<br>in.lb. | Range<br>ft.lb. |   | <br>g |
|--------------|------------|--------------|-------------|-----------------|-----------------|---|-------|
| 2450-STT 11  | 1/4"       | -            | 1 – 11      | 8 – 97          | 0,74 – 8,1      | 1 | 2160  |
| 2450-STT 12  | -          | 3/8"         | 1.2 – 11,5  | 10 – 100        | 0,85 – 8,5      | 1 | 2160  |
| 2450-STT 30  | -          | 3/8"         | 03 – 30     | 25 – 250        | 2,1 – 21        | 1 | 2160  |
| 2450-STT 350 | -          | 1/2"         | 30 – 350    | 300 – 3000      | 25 – 250        | 1 | 2300  |
| 2450-STT 850 | -          | 3/4"         | 81 – 815    | 300 – 3000      | 60 – 600        | 1 | 9300  |

2450SB Fixing Device for bench vice



|             |                                                                           |  |  |
|-------------|---------------------------------------------------------------------------|--|--|
| Application | for fixing of ELOTRONIC Torque Tester 2450STT in bench vice 1495 and 1500 |  |  |
| Type        | chrome plated                                                             |  |  |
| Material    | Chrome-Vanadium 31 CrV3, Code-No. 1.2208                                  |  |  |

| Stock-No. | <br>mm |   | <br>g |
|-----------|--------|---|-------|
| 2450SB    | 165    | 1 | 1210  |

2440 ELORA-ELOTRONIC ETM Mobile-Torque-Meter

The heart of the new Torque Tool Generation. In connection with mobile transducers type 2445-MTT the ELORA-ELOTRONIC ETM is ready for flexible use anywhere. The values can be stored, printed or later sent to PC, with an accuracy of ± 1% of the reading value. Measurement in 6 different units possible. 3 working modes. Preset of tolerances or min/max values possible.



2440 ELOTRONIC Torque Meter ETM



|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |             |                                                                                       |                                                                                            |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Application | for use with Stock-No. 2445-MTT or 2446-STT, for testing and calibration of torque tools                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |             |                                                                                       |                                                                                            |
| Type        | <div>Display: large display for easy reading</div> <div>Sample rate: approx. 8000 samples/sec.</div> <div>Power: 9 V block battery (NiCD-Akku) respect. power cable incl.</div> <div>Storage: up to 1.350 torque values in format data-no., torque value, unit</div> <div>Communication: direct to printer or PC via serial port (protocol: RS232C 4800 BPS, 8, 1, n) cable incl.</div> <div>Mode: Track Mode, Peak Hold and First Peak Hold (for calibration of "click"-type wrenches)</div> <div>Setting of Tolerances: pre-set tolerances visible at all times on display. Tolerance range to be pre-set between 1-99% respect. min. and max. value</div> <div>Display of Tolerances: with 3 LED's and signal tone (yellow: bottom range, green: in range, red: over range of pre-set tolerance)</div> <div>Erase of Display: automatically (pre-set time 1-9 sec.) or manual erase</div> <div>Frequency Filter: 5 pre-set filter frequencies: 170 Hz, 250 Hz, 500 Hz, 1500 Hz and 3600 Hz (for calibration of power tools)</div> <div>Transducer Recognition: by built-in smart chip (plug and play) or manual calibration</div> |              |             |                                                                                       |                                                                                            |
| Stock-No.   | Width<br>mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Height<br>mm | Depth<br>mm |  | <br>g |
| 2440-ETM    | 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 185          | 32          | 1                                                                                     | 420                                                                                        |

2443 Measuring Device Management System

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |                                                                                            |  |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--------------------------------------------------------------------------------------------|--|
| Application       | Checking of torque tools acc. DIN 6789 respect. works standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |                                                                                            |  |
| Type              | <div>QMSOFT ® (Quality Management Software) is a modular Software package which is an effective base for a Measuring Device Management System.</div> <div>The Software is suitable for Calibration Laboratories as well as for their customers.</div> <div>Print out of Testing Certificates as well as data base lists in format RTF - Word or PDF.</div> <div>Module: Test Program QMSOFT ®/QM-TORQ</div> <div>Testing of Torque Tools (wrenches and screwdrivers of different types) acc. to DIN 6789 resp. particular works standard incl. outline data input of most common Torque Testing Units. Incl. conversion of units, configuration of test certificates (also in 2 languages) Software in Engl. and German language.</div> <div><b>Further modules on request.</b></div> |  |  |                                                                                            |  |
| Systemrequirement | <div>MS-Windows © 2000 or XP</div> <div>1 Ghz for single use resp. 2 Ghz Data base server</div> <div>256MB RAM</div> <div>3 GB free on Memory Board</div> <div>CD-ROM-Drive for installation</div> <div>Monitor resolution 1024 x 768, High Color (32 bit)</div> <div>1 USB plug for Dongle</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |                                                                                            |  |
| Stock-No.         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  | <br>g |  |
| 2443              | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  | 58                                                                                         |  |

## TORQUE WRENCHES

### 2445 ELOTRONIC MTT Transducer

In connection with ELOTRONIC ETM Mobile Torque Meter the ELOTRONIC MTT transducer turns any tool with 3/8" or 1/2" drive into a complete torque tool with an accuracy of  $\pm 1\%$  of the indicated value. Both units are connected with a cable. The ELOTRONIC MTT gives full flexibility even for narrow and tight applications to achieve highest accuracy with regard to torque value.

#### 2445 ELOTRONIC Transducer MTT



Application for use with Stock-No. 2440-ETM ELOTRONIC TORQUE METER

Type with smart chip for plug and play (all relevant data on chip) accuracy  $\pm 1\%$  of preset value

| Stock-No.    | Drive<br>□ | Drive<br>■ | Range<br>Nm | Range<br>in.lb. | Range<br>ft.lb. | mm  | g |
|--------------|------------|------------|-------------|-----------------|-----------------|-----|---|
| 2445-MTT 30  | 3/8"       | 3/8"       | 3 – 30      | 25 – 250        | –               | 66  | 1 |
| 2445-MTT 70  | 3/8"       | 3/8"       | 7 – 70      | –               | 5 – 50          | 66  | 1 |
| 2445-MTT 150 | 1/2"       | 1/2"       | 20 – 200    | –               | 50 – 150        | 84  | 1 |
| 2445-MTT 340 | 1/2"       | 1/2"       | 34 – 340    | –               | 25 – 250        | 270 | 1 |



### 2446 ELOTRONIC STT stationary Transducer

with even higher accuracy  $\pm 0,5\%$ , the ELOTRONIC STT is the ideal stationary testing unit with different adaptor of 1/4"- bis 1", testing can be done from 0,6 - 2800 Nm resp. 5 in.lb. - 2000 ft.lb. In connection with ELOTRONIC ETM the values can be stored or transferred to a PC via serial port.



#### 2446 ELOTRONIC Transducer STT



Application for use with Stock-No. 2440-ETM ELOTRONIC TORQUE METER

Type with smart chip for plug and play (all relevant data on chip) accuracy  $\pm 0,5\%$  of preset value

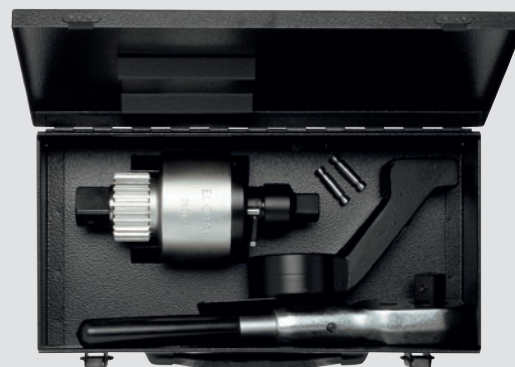
| Stock-No.     | Drive<br>□ | Range<br>Nm | Range<br>in.lb. | Range<br>ft.lb. | g    |
|---------------|------------|-------------|-----------------|-----------------|------|
| 2446-STT 6    | 1/4"       | 0,6 – 6     | 5 – 50          | –               | 285  |
| 2446-STT 11   | 1/4"       | 1 – 11      | 10 – 100        | –               | 300  |
| 2446-STT 30   | 1/4"       | 3 – 30      | 25 – 250        | –               | 300  |
| 2446-STT 70   | 3/8"       | 7 – 70      | –               | 5 – 50          | 455  |
| 2446-STT 130  | 1/2"       | 13 – 130    | –               | 10 – 100        | 1210 |
| 2446-STT 340  | 1/2"       | 34 – 340    | –               | 25 – 250        | 1260 |
| 2446-STT 680  | 3/4"       | 68 – 680    | –               | 50 – 500        | 1350 |
| 2446-STT 815  | 3/4"       | 81 – 815    | –               | 60 – 600        | 1365 |
| 2446-STT 1400 | 1"         | 140 – 1400  | –               | 100 – 1000      | 9400 |
| 2446-STT 2800 | 1"         | 280 – 2800  | –               | 200 – 2000      | 9400 |

## 2447 Fixing Device



| Application | to fix ELOTRONIC Transducer 2446-STT |     |           |          |   |  |      |  |
|-------------|--------------------------------------|-----|-----------|----------|---|--|------|--|
| Stock-No.   | for Transducer                       | mm  | Height mm | Depth mm |   |  | g    |  |
| 2447-105    | 2446-STT 6                           | 105 | 105       | 105      | 1 |  | 2700 |  |
|             | 2446-STT 11                          |     |           |          |   |  |      |  |
|             | 2446-STT 30                          |     |           |          |   |  |      |  |
|             | 2446-STT 70                          |     |           |          |   |  |      |  |
|             | 2446-STT 130                         |     |           |          |   |  |      |  |
|             | 2446-STT 340                         |     |           |          |   |  |      |  |
| 2447-152    | 2446-STT 680                         | 152 | 152       | 152      | 1 |  | 7900 |  |
|             | 2446-STT 815                         |     |           |          |   |  |      |  |
|             | 2446-STT 1400                        |     |           |          |   |  |      |  |
|             | 2446-STT 2800                        |     |           |          |   |  |      |  |

## 2600-2-6 Geared Head Power Multiplier



| Application | for left and right hand use, converter Stock-No. 2610... is required for use with torque wrench, ratchet or similar                 |        |              |             |      |     |   |      |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------|--------|--------------|-------------|------|-----|---|------|
| Type        | with planetary gear, with return drive stop and with ratchet 3/4" square drive, for mechanical use, in lacquered metal storage case |        |              |             |      |     |   |      |
| Standard    | output square drive according to DIN 3120/ISO 1174                                                                                  |        |              |             |      |     |   |      |
| Stock-No.   | Input drive                                                                                                                         | Ratio  | Output drive | Capacity Nm | Ø mm | mm  |   | kg   |
| 2600- 2     | 3/4"                                                                                                                                | 1 : 4  | 1            | 1350        | 88   | 190 | 1 | 9,9  |
| 2600- 3     | 3/4"                                                                                                                                | 1 : 16 | 1            | 3200        | 88   | 235 | 1 | 11,9 |
| 2600- 4     | 3/4"                                                                                                                                | 1 : 16 | 1.1/2        | 4200        | 88   | 245 | 1 | 13,7 |
| 2600- 5     | 3/4"                                                                                                                                | 1 : 28 | 1.1/2        | 6200        | 128  | 305 | 1 | 25,5 |
| 2600- 6     | 3/4"                                                                                                                                | 1 : 36 | 1.1/2        | 9700        | 174  | 310 | 1 | 36,9 |

## 2600-1 Geared Head Power Multiplier



| Application | for left and right hand rotation                                                                                                                                |       |              |             |      |     |   |    |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------|-------------|------|-----|---|----|
| Type        | with planetary gear, input female drive: 1/2" square and outside hexagon size 27 mm, output male drive: 1", for mechanical use, in lacquered metal storage case |       |              |             |      |     |   |    |
| Standard    | output square drive according to DIN 3120/ISO 1174                                                                                                              |       |              |             |      |     |   |    |
| Stock-No.   | Input drive                                                                                                                                                     | Ratio | Output drive | Capacity Nm | Ø mm | mm  |   | kg |
| 2600- 1     | 1/2"/27                                                                                                                                                         | 1 : 4 | 1            | 1350        | 88   | 160 | 1 | 6  |

## 2610 Converter



| Application | for power multiplier Stock-No. 2600-2 to 2600-6, for use with torque wrench, ratchet or similar |       |    |   |  |  |     |  |
|-------------|-------------------------------------------------------------------------------------------------|-------|----|---|--|--|-----|--|
| Type        | chrome plated                                                                                   |       |    |   |  |  |     |  |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                       |       |    |   |  |  |     |  |
| Standard    | square drive according to DIN 3120                                                              |       |    |   |  |  |     |  |
| Stock-No.   | Drive                                                                                           | Drive | mm |   |  |  | g   |  |
| 2610- 1     | 3/4"                                                                                            | 1/2"  | 45 | 1 |  |  | 150 |  |
| 2610- 2     | 3/4"                                                                                            | 3/4"  | 55 | 1 |  |  | 245 |  |
| 2610- 3     | 3/4"                                                                                            | 1"    | 55 | 1 |  |  | 345 |  |





## WITH ELORA TOOLS YOU GET THE HANG OF – IN EACH CORNER.

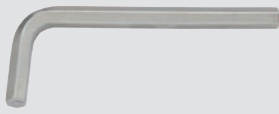
2 component screwdriver handles are not only fashionable, but also provide more comfort and an increased power ratio. For this reason you find in the Top-Kraft range the well known ELORA handle in a 2 component finish. For hexagon keys we draw your attention to the new type with extra drive at the side as well as a 2 component handle.

### HEX KEYS AND SCREWDRIVERS

**06**

## Hexagon and Offset Keys

### 159 Hexagon Key

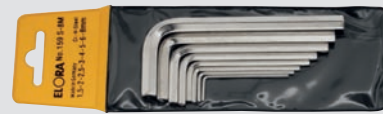


|             |                                                         |
|-------------|---------------------------------------------------------|
| Application | for hexagon socket head cap screws according to DIN 912 |
| Type        | nickel plated, 159M-0,7 up to 1,3 black finish          |
| Material    | Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243             |
| Standard    | according to DIN 911/ISO 2936                           |

| Stock-No. | for DIN 912 | mm          | mm | g      |
|-----------|-------------|-------------|----|--------|
| 159- 0,7  |             | 33 × 7      | 48 | 0,4    |
| 159- 0,9  |             | 33 × 11     | 48 | 0,5    |
| 159- 1    |             | 33 × 11     | 48 | 0,5    |
| 159- 1,3  | M1,4        | 41 × 13     | 48 | 0,7    |
| 159- 1,5  | M1,6 M2     | 46,5 × 15,5 | 48 | 1,0    |
| 159- 2    | M2,5        | 52 × 18     | 48 | 2,0    |
| 159- 2,5  | M3          | 58,5 × 20,5 | 48 | 4,0    |
| 159- 3    | M4          | 66 × 23     | 24 | 5,0    |
| 159- 3,5  |             | 69,5 × 25,5 | 24 | 8,0    |
| 159- 4    | M5          | 74 × 29     | 24 | 10,0   |
| 159- 4,5  |             | 80 × 30,5   | 24 | 15,0   |
| 159- 5    | M6          | 85 × 33     | 24 | 18,0   |
| 159- 6    | M8          | 96 × 38     | 24 | 30,0   |
| 159- 7    |             | 102 × 41    | 24 | 43,0   |
| 159- 8    | M10         | 108 × 44    | 12 | 59,0   |
| 159- 9    |             | 114 × 47    | 12 | 79,0   |
| 159- 10   | M12         | 122 × 50    | 12 | 103,0  |
| 159- 11   |             | 129 × 53    | 12 | 131,0  |
| 159- 12   | M14         | 137 × 57    | 12 | 160,0  |
| 159- 13   |             | 145 × 63    | 12 | 215,0  |
| 159- 14   | M16-18      | 154 × 70    | 6  | 260,0  |
| 159- 15   |             | 161 × 73    | 6  | 290,0  |
| 159- 16   |             | 168 × 76    | 6  | 400,0  |
| 159- 17   | M20-22      | 177 × 80    | 6  | 430,0  |
| 159- 18   |             | 188 × 84    | 6  | 510,0  |
| 159- 19   | M24-27      | 199 × 89    | 3  | 620,0  |
| 159- 20   |             | 200 × 90    | 3  | 650,0  |
| 159- 21   |             | 211 × 96    | 3  | 860,0  |
| 159- 22   | M30         | 222 × 102   | 3  | 950,0  |
| 159- 24   | M33         | 248 × 114   | 1  | 1250,0 |
| 159- 27   | M36         | 277 × 127   | 1  | 1740,0 |
| 159- 30   |             | 315 × 142   | 1  | 2460,0 |
| 159- 32   | M42         | 347 × 157   | 1  | 3080,0 |
| 159- 36   | M48         | 391 × 176   | 1  | 4370,0 |

| Stock-No.   | mm          | mm | g      |
|-------------|-------------|----|--------|
| 159A- 1/16  | 46,5 × 15,5 | 48 | 1,0    |
| 159A- 5/64  | 52 × 18     | 48 | 2,0    |
| 159A- 3/32  | 58,5 × 20,5 | 48 | 4,0    |
| 159A- 7/64  | 66 × 23     | 24 | 5,0    |
| 159A- 1/8   | 66 × 23     | 24 | 5,0    |
| 159A- 9/64  | 69,5 × 25,5 | 24 | 8,0    |
| 159A- 5/32  | 74 × 29     | 24 | 10,0   |
| 159A- 3/16  | 85 × 33     | 24 | 18,0   |
| 159A- 7/32  | 91 × 36     | 24 | 21,0   |
| 159A- 1/4   | 96 × 38     | 24 | 30,0   |
| 159A- 9/32  | 102 × 41    | 24 | 43,0   |
| 159A- 5/16  | 108 × 44    | 12 | 59,0   |
| 159A- 11/32 | 114 × 47    | 12 | 79,0   |
| 159A- 3/8   | 122 × 50    | 12 | 103,0  |
| 159A- 7/16  | 129 × 53    | 12 | 131,0  |
| 159A- 1/2   | 145 × 63    | 12 | 215,0  |
| 159A- 9/16  | 154 × 70    | 6  | 260,0  |
| 159A- 5/8   | 168 × 76    | 6  | 400,0  |
| 159A- 3/4   | 199 × 89    | 3  | 620,0  |
| 159A- 7/8   | 222 × 102   | 3  | 950,0  |
| 159A- 1     | 277 × 127   | 1  | 1700,0 |

### 159S Hexagon Key Set

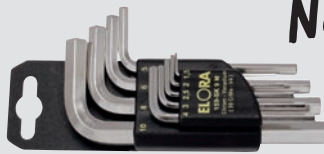


|             |                                                         |
|-------------|---------------------------------------------------------|
| Application | for hexagon socket head cap screws according to DIN 912 |
| Type        | in black plastic wallet                                 |
| Material    | Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243             |
| Standard    | according to DIN 911/ISO 2936                           |

| Stock-No. | Contents                                              | mm | g    |
|-----------|-------------------------------------------------------|----|------|
| 159S- 8M  | 1,5; 2; 2,5; 3; 4; 5; 6; 8 mm                         | 12 | 135  |
| 159S- 10M | 1,5; 2; 2,5; 3; 4; 5; 6; 8; 10; 12 mm                 | 6  | 410  |
| 159S- 14M | 1,5; 2; 2,5; 3; 4; 5; 6; 8; 10; 12; 14; 17; 19; 22 mm | 1  | 2800 |

| Stock-No. | Contents                                                                        | mm | g    |
|-----------|---------------------------------------------------------------------------------|----|------|
| 159S- 8A  | 1/16; 5/64; 3/32; 1/8; 5/32; 3/16; 7/32; 1/4 AF                                 | 12 | 96   |
| 159S- 10A | 1/16; 5/64; 3/32; 1/8; 5/32; 3/16; 7/32; 1/4; 5/16; 3/8 AF                      | 6  | 250  |
| 159S- 14A | 1/16; 5/64; 3/32; 1/8; 5/32; 3/16; 7/32; 1/4; 5/16; 3/8; 1/2; 9/16; 5/8; 3/4 AF | 1  | 1490 |

### 159SK Hexagon Key Set



|             |                                                         |
|-------------|---------------------------------------------------------|
| Application | for hexagon socket head cap screws according to DIN 912 |
| Type        | nickel plated, in plastic holder                        |
| Material    | Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243             |

| Stock-No. | Contents                              | mm | g   |
|-----------|---------------------------------------|----|-----|
| 159SK- 9M | 1,5; 2; 2,5; 3; 4; 5; 6; 8; 10 mm     | 3  | 250 |
| 159SK-10M | 1,5; 2; 2,5; 3; 4; 5; 6; 8; 10; 12 mm | 3  | 415 |

### 159S-8P Hexagon Key Set



|             |                                                         |
|-------------|---------------------------------------------------------|
| Application | for hexagon socket head cap screws according to DIN 912 |
| Type        | in plastic storage box                                  |
| Material    | Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243             |
| Standard    | according to DIN 911/ISO 2936                           |

| Stock-No. | Contents                     | mm | g   |
|-----------|------------------------------|----|-----|
| 159S- 8P  | 2; 2,5; 3; 4; 5; 6; 8; 10 mm | 1  | 260 |

### 159SK Pocket Hexagon Key Set



|             |                                                         |
|-------------|---------------------------------------------------------|
| Application | for hexagon socket head cap screws according to DIN 912 |
| Type        | pocket-knife type holder, nickel plated                 |
| Material    | Chrome-Vanadium-Steel 59 CrMoV 4, Code-No. 1.2243       |
| Standard    | according to DIN 911/ISO 2936                           |

| Stock-No. | Contents                   | mm  | g     |
|-----------|----------------------------|-----|-------|
| 159SK- 1  | 2,5; 3; 4; 5; 6; 8 mm      | 115 | 3 235 |
| 159SK- 2  | 2,5; 3; 4; 5; 6; 8; 10 mm  | 115 | 3 320 |
| 159SK- 3  | 1,5; 2; 2,5; 3; 4; 5; 6 mm | 95  | 3 150 |
| 159SK- 4  | 3; 4; 5; 6; 8; 10 mm       | 115 | 3 360 |

| Stock-No. | Contents                                   | mm  | g     |
|-----------|--------------------------------------------|-----|-------|
| 159SK- 5  | 1/16; 5/64; 3/32; 1/8; 5/32; 3/16; 7/32 AF | 95  | 3 165 |
| 159SK- 6  | 1/8; 5/32; 3/16; 7/32; 1/4; 5/16 AF        | 110 | 3 220 |
| 159SK- 7  | 3/16; 7/32; 1/4; 5/16; 3/8 AF              | 120 | 3 360 |
| 159SK- 8  | 3/32; 3/16; 7/32; 1/4; 5/16; 3/8 AF        | 120 | 3 370 |

### 159S-KK Pocket Hexagon Key Set



|             |                                                                                   |
|-------------|-----------------------------------------------------------------------------------|
| Application | for hexagon socket head cap screws according to DIN 912                           |
| Type        | in plastic holder with lever for easy raise of hexagon keys, blades nickel plated |
| Material    | Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243                                       |
| Standard    | according to DIN 911/ISO 2936                                                     |

| Stock-No.  | Contents                   | mm  | g     |
|------------|----------------------------|-----|-------|
| 159S-KK- 1 | 2,5; 3; 4; 5; 6; 8 mm      | 120 | 3 235 |
| 159S-KK- 2 | 2,5; 3; 4; 5; 6; 8; 10 mm  | 130 | 3 320 |
| 159S-KK- 3 | 1,5; 2; 2,5; 3; 4; 5; 6 mm | 130 | 3 150 |
| 159S-KK- 4 | 3; 4; 5; 6; 8; 10 mm       | 120 | 3 360 |

## 159L Hexagon Key

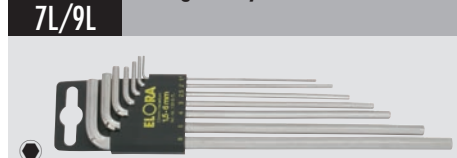


|             |                                                         |  |  |
|-------------|---------------------------------------------------------|--|--|
| Application | for hexagon socket head cap screws according to DIN 912 |  |  |
| Type        | extra long pattern, nickel plated                       |  |  |
| Material    | Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243             |  |  |
| Standard    | according to DIN 911/ISO 2936                           |  |  |

| Stock-No. | mm           | mm | g      |
|-----------|--------------|----|--------|
| 159L- 1,5 | 91,5 × 15,5  | 48 | 2,0    |
| 159L- 2   | 102 × 18     | 48 | 4,0    |
| 159L- 2,5 | 114,5 × 20,5 | 48 | 6,0    |
| 159L- 3   | 129 × 23     | 24 | 9,0    |
| 159L- 4   | 144 × 29     | 24 | 19,0   |
| 159L- 5   | 165 × 33     | 24 | 33,0   |
| 159L- 6   | 186 × 38     | 24 | 54,0   |
| 159L- 7   | 197 × 41     | 24 | 80,0   |
| 159L- 8   | 208 × 44     | 12 | 105,0  |
| 159L- 9   | 219 × 47     | 12 | 148,0  |
| 159L- 10  | 234 × 50     | 12 | 185,0  |
| 159L- 11  | 247 × 53     | 12 | 247,0  |
| 159L- 12  | 262 × 57     | 12 | 295,0  |
| 159L- 13  | 277 × 63     | 12 | 370,0  |
| 159L- 14  | 294 × 70     | 6  | 460,0  |
| 159L- 17  | 337 × 80     | 6  | 750,0  |
| 159L- 19  | 379 × 89     | 3  | 1100,0 |

| Stock-No.    | mm           | g      |
|--------------|--------------|--------|
| 159LA- 1/16  | 91,5 × 15,5  | 2,0    |
| 159LA- 5/64  | 102 × 18     | 4,0    |
| 159LA- 3/32  | 114,5 × 20,5 | 6,0    |
| 159LA- 1/8   | 129 × 23     | 9,0    |
| 159LA- 5/32  | 144 × 29     | 19,0   |
| 159LA- 3/16  | 165 × 33     | 33,0   |
| 159LA- 1/4   | 186 × 38     | 54,0   |
| 159LA- 9/32  | 197 × 41     | 80,0   |
| 159LA- 5/16  | 208 × 44     | 105,0  |
| 159LA- 11/32 | 219 × 47     | 148,0  |
| 159LA- 3/8   | 234 × 50     | 185,0  |
| 159LA- 7/16  | 247 × 53     | 247,0  |
| 159LA- 1/2   | 277 × 63     | 370,0  |
| 159LA- 9/16  | 294 × 70     | 460,0  |
| 159LA- 5/8   | 337 × 80     | 750,0  |
| 159LA- 3/4   | 379 × 89     | 1100,0 |

## 159S- 7L/9L Hexagon Key Set



|             |                                                         |  |  |
|-------------|---------------------------------------------------------|--|--|
| Application | for hexagon socket head cap screws according to DIN 912 |  |  |
| Type        | in plastic holder                                       |  |  |
| Material    | Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243             |  |  |
| Standard    | according to DIN 911/ISO 2936                           |  |  |

| Stock-No. | Contents                          | g   |
|-----------|-----------------------------------|-----|
| 159 S-7L  | 1,5; 2; 2,5; 3; 4; 5; 6 mm        | 148 |
| 159 S-9L  | 1,5; 2; 2,5; 3; 4; 5; 6; 8; 10 mm | 428 |

| Stock-No. | Contents                                             | g   |
|-----------|------------------------------------------------------|-----|
| 159 S-9LA | 1/16; 5/64; 3/32; 1/8; 5/32; 3/16; 1/4; 5/16; 3/8 AF | 428 |

## 158R Hexagon Key



|             |                                                         |  |  |
|-------------|---------------------------------------------------------|--|--|
| Application | for hexagon socket head cap screws according to DIN 912 |  |  |
| Type        | nickel plated                                           |  |  |
| Material    | high grade tool steel                                   |  |  |
| Standard    | according to DIN 911/ISO 2936                           |  |  |

| Stock-No. | Contents                     | g   |
|-----------|------------------------------|-----|
| 158R- 1   | 2; 2,5; 3; 4; 5; 6; 8; 10 mm | 250 |
| 158R- 2   | 1,5; 2; 2,5; 3; 4; 5; 6 mm   | 75  |

| Stock-No. | Contents                                        | g   |
|-----------|-------------------------------------------------|-----|
| 158R- 3   | 1/16; 5/64; 3/32; 1/8; 5/32; 3/16; 7/32; 1/4 AF | 105 |

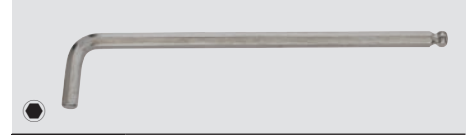
## 159W 2K T-Handle Hexagon Key



|             |                                                               |  |  |
|-------------|---------------------------------------------------------------|--|--|
| Application | for hexagon socket head cap screws according to DIN 912       |  |  |
| Type        | blades nickel plated, plastic handle                          |  |  |
| Material    | blades from Chrome-Vanadium-Steel 59 CrMoV 4, Code-No. 1.2243 |  |  |

| Stock-No. | for DIN 912 | mm     | g   |
|-----------|-------------|--------|-----|
| 159W- 2   | M2,5        | 100×13 | 18  |
| 159W- 2,5 | M3          | 100×13 | 20  |
| 159W- 3   | M4          | 100×13 | 23  |
| 159W- 4   | M5          | 150×15 | 45  |
| 159W- 5   | M6          | 150×15 | 58  |
| 159W- 6   | M8          | 200×17 | 100 |
| 159W- 8   | M10         | 200×17 | 150 |
| 159W- 10  | M12         | 200×22 | 240 |

## 159KU Ball End Hexagon Key

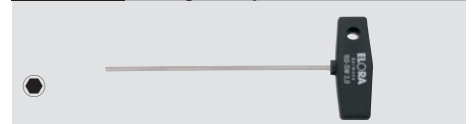


|             |                                                                                                           |  |  |
|-------------|-----------------------------------------------------------------------------------------------------------|--|--|
| Application | for hexagon socket head cap screws according to DIN 912, for use in awkward areas, swivel angle up to 30° |  |  |
| Type        | with ball profile on the long side, nickel plated                                                         |  |  |
| Material    | Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243                                                               |  |  |
| Standard    | according to DIN 911/ISO 2936                                                                             |  |  |

| Stock-No.  | for     | mm          | g  |
|------------|---------|-------------|----|
| 159KU- 1,5 | M1,6 M2 | 81,5 × 14,5 | 48 |
| 159KU- 2   | M2,5    | 87 × 18     | 48 |
| 159KU- 2,5 | M3      | 92,5 × 19,5 | 48 |
| 159KU- 3   | M4      | 103 × 22    | 24 |
| 159KU- 4   | M5      | 114 × 29    | 24 |
| 159KU- 5   | M6      | 133 × 32    | 24 |
| 159KU- 6   | M8      | 156 × 36    | 24 |
| 159KU- 8   | M10     | 178 × 43    | 12 |
| 159KU- 10  | M12     | 200 × 50    | 12 |
| 159KU- 12  | M14     | 226 × 57    | 12 |

| Stock-No.   | mm           | g   |
|-------------|--------------|-----|
| 159KUA-1/16 | 81,5 × 14,5  | 2   |
| 159KUA-5/64 | 87 × 18      | 4   |
| 159KUA-3/32 | 92,5 × 19,5  | 6   |
| 159KUA-1/8  | 103 × 22     | 9   |
| 159KUA-5/32 | 114 × 29     | 19  |
| 159KUA-3/16 | 133 × 32     | 32  |
| 159KUA-7/32 | 142,5 × 32,5 | 45  |
| 159KUA-1/4  | 156 × 36     | 56  |
| 159KUA-5/16 | 178 × 43     | 105 |
| 159KUA-3/8  | 200 × 50     | 183 |
| 159KUA-1/2  | 293 × 63     | 360 |

## 155 Hexagon Key



|             |                                                         |  |  |
|-------------|---------------------------------------------------------|--|--|
| Application | for hexagon socket head cap screws according to DIN 912 |  |  |
| Type        | with black plastic T-handle, blade nickel plated        |  |  |
| Material    | Chrome-Vanadium 58 CrV 4, Code No. 1.2242               |  |  |
| Standard    | according to DIN 911/ISO 2936                           |  |  |

| Stock-No.    | mm   | mm  | g   |
|--------------|------|-----|-----|
| 155- 2- 90   | 2,0  | 90  | 27  |
| 155- 2,5-100 | 2,5  | 100 | 28  |
| 155- 3- 100  | 3,0  | 100 | 32  |
| 155- 4- 100  | 4,0  | 100 | 38  |
| 155- 5- 100  | 5,0  | 100 | 46  |
| 155- 6- 100  | 6,0  | 100 | 82  |
| 155- 8- 100  | 8,0  | 100 | 108 |
| 155- 10- 100 | 10,0 | 100 | 120 |
| 155- 12- 100 | 12,0 | 100 | 160 |
| 155- 3- 150  | 3,0  | 150 | 36  |
| 155- 4- 150  | 4,0  | 150 | 44  |
| 155- 5- 150  | 5,0  | 150 | 54  |
| 155- 6- 150  | 6,0  | 150 | 94  |
| 155- 8- 150  | 8,0  | 150 | 130 |
| 155- 3- 200  | 3,0  | 200 | 40  |
| 155- 4- 200  | 4,0  | 200 | 50  |
| 155- 5- 200  | 5,0  | 200 | 62  |
| 155- 6- 200  | 6,0  | 200 | 106 |
| 155- 8- 200  | 8,0  | 200 | 150 |
| 155- 10- 200 | 10,0 | 200 | 215 |
| 155- 12- 200 | 12,0 | 200 | 275 |
| 155- 12- 250 | 12,0 | 250 | 320 |
| 155- 14- 300 | 14,0 | 300 | 490 |



## 159SKU Ball End Hexagon Key Set



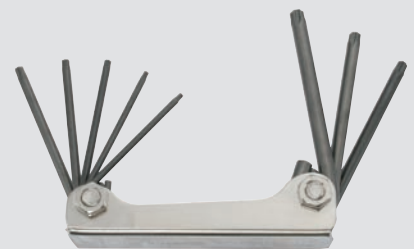
|             |                                                                                                           |    |     |
|-------------|-----------------------------------------------------------------------------------------------------------|----|-----|
| Application | for hexagon socket head cap screws according to DIN 912, for use in awkward areas, swivel angle up to 30° |    |     |
| Type        | ball end hexagon keys<br>ELORA Stock-No. 159KU in plastic holder                                          |    |     |
| Material    | Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243                                                               |    |     |
| Standard    | according to DIN 911/ISO 2936                                                                             |    |     |
| Stock-No.   | Contents                                                                                                  |    |     |
|             |                                                                                                           |    |     |
|             |                                                                                                           | mm | g   |
| 159 SKU     | KU1,5; KU2; KU2,5; KU3;<br>KU4; KU5; KU6; KU8;<br>KU10 mm                                                 | 3  | 414 |

## 159S-KUB Ball End Hexagon Key Set



|             |                                                                                                           |    |     |
|-------------|-----------------------------------------------------------------------------------------------------------|----|-----|
| Application | for hexagon socket head cap screws according to DIN 912, for use in awkward areas, swivel angle up to 30° |    |     |
| Type        | ball end hexagon keys<br>ELORA Stock-No. 159KU in plastic holder which can be opened                      |    |     |
| Material    | Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243                                                               |    |     |
| Standard    | according to DIN 911/ISO 2936                                                                             |    |     |
| Stock-No.   | Contents                                                                                                  |    |     |
|             |                                                                                                           |    |     |
|             |                                                                                                           | mm | g   |
| 159S- KUB   | KU1,5; KU2; KU2,5; KU3;<br>KU4; KU5; KU6; KU8;<br>KU10 mm                                                 | 3  | 414 |

## 162S-KTX Pocket Offset Key Set



|             |                                                             |     |     |
|-------------|-------------------------------------------------------------|-----|-----|
| Application | for inside TORX screws                                      |     |     |
| Type        | pocket-knife type holder nickel plated, blades black finish |     |     |
| Material    | Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243                 |     |     |
| Stock-No.   | Contents                                                    |     |     |
|             |                                                             |     |     |
|             |                                                             | mm  | g   |
| 162S- KTX   | TX 9; TX10; TX15;<br>TX20; TX25; TX27;<br>TX30; TX40        | 110 | 235 |

## 159Z Hexagon Key with Pin



|             |                                             |    |      |
|-------------|---------------------------------------------|----|------|
| Application | for hexagon socket head cap screws          |    |      |
| Type        | nickel plated                               |    |      |
| Material    | Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243 |    |      |
| Standard    | according to DIN 6911/ISO 2936              |    |      |
| Stock-No.   |                                             |    |      |
|             | mm                                          |    | g    |
| 159Z- 3     | 66 × 23                                     | 24 | 5    |
| 159Z- 4     | 74 × 29                                     | 24 | 10   |
| 159Z- 5     | 85 × 33                                     | 24 | 18   |
| 159Z- 6     | 96 × 38                                     | 24 | 30   |
| 159Z- 7     | 102 × 41                                    | 24 | 43   |
| 159Z- 8     | 108 × 44                                    | 12 | 59   |
| 159Z- 9     | 105 × 38                                    | 12 | 75   |
| 159Z- 10    | 122 × 50                                    | 12 | 103  |
| 159Z- 12    | 137 × 57                                    | 12 | 160  |
| 159Z- 14    | 154 × 70                                    | 6  | 260  |
| 159Z- 17    | 177 × 80                                    | 6  | 430  |
| 159Z- 19    | 199 × 89                                    | 3  | 617  |
| 159Z- 22    | 222 × 102                                   | 3  | 920  |
| 159Z- 24    | 248 × 114                                   | 1  | 1238 |
| 159Z- 27    | 277 × 127                                   | 1  | 1740 |

## 162TX Hexagon Key



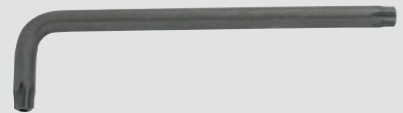
|             |                                             |             |              |
|-------------|---------------------------------------------|-------------|--------------|
| Application | for inside TORX screws                      |             |              |
| Type        | black finish                                |             |              |
| Material    | Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243 |             |              |
| Stock-No.   |                                             |             |              |
|             | mm                                          | for         | g            |
|             | mm                                          | mm          |              |
| 162TX- 5    | 1,42                                        | 44,5 × 18,5 | M1,8 12 2,0  |
| 162TX- 6    | 2,50                                        | 44,5 × 18,5 | M2 12 2,0    |
| 162TX- 7    | 2,50                                        | 50,5 × 18,5 | M2,5 12 2,0  |
| 162TX- 8    | 3,00                                        | 51 × 19     | M2,5 12 3,0  |
| 162TX- 9    | 3,00                                        | 51 × 19     | M3 12 3,0    |
| 162TX- 10   | 3,00                                        | 54 × 20     | M3 12 4,0    |
| 162TX- 15   | 3,50                                        | 57,5 × 21,5 | M3,5 12 5,0  |
| 162TX- 20   | 4,00                                        | 61 × 23     | M4 12 7,0    |
| 162TX- 25   | 4,50                                        | 64,5 × 24,5 | M5 12 10,0   |
| 162TX- 27   | 5,50                                        | 69,5 × 26,5 | M5 12 15,0   |
| 162TX- 30   | 6,00                                        | 76 × 30     | M6 12 20,0   |
| 162TX- 40   | 7,00                                        | 83 × 33     | M8 12 30,0   |
| 162TX- 45   | 8,00                                        | 91 × 37     | M8 12 43,0   |
| 162TX- 50   | 9,00                                        | 104 × 41    | M10 12 65,0  |
| 162TX- 55   | 12,00                                       | 120 × 47    | M12 12 120,0 |
| 162TX- 60   | 14,00                                       | 134 × 52    | M14 12 190,0 |

## 162S-KKTX Pocket Hexagon Key Set



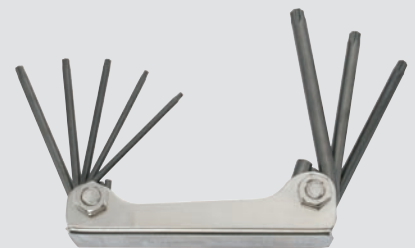
|             |                                                                  |     |     |
|-------------|------------------------------------------------------------------|-----|-----|
| Application | for inside TORX screws                                           |     |     |
| Type        | in plastic holder with lever for easy raise, blades black finish |     |     |
| Material    | hexagon keys: Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243        |     |     |
| Stock-No.   | Contents                                                         |     |     |
|             |                                                                  |     |     |
|             |                                                                  | mm  | g   |
| 162S- KKTX  | TX 9; TX10; TX15;<br>TX20; TX25; TX27;<br>TX30; TX40             | 130 | 235 |

## 162TTX Hexagon Key



|             |                                             |              |             |
|-------------|---------------------------------------------|--------------|-------------|
| Application | for inside TORX screws with pin             |              |             |
| Type        | black finish, with hole at drive end        |              |             |
| Material    | Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243 |              |             |
| Stock-No.   |                                             |              |             |
|             | mm                                          | for          | g           |
|             | mm                                          | mm           |             |
| 162TTX- 9   | 3,00                                        | 59 × 19      | M3 12 4,0   |
| 162TTX- 10  | 3,00                                        | 65 × 20      | M3 12 6,0   |
| 162TTX- 15  | 3,50                                        | 75,5 × 20,5  | M3,5 12 7,0 |
| 162TTX- 20  | 4,00                                        | 87 × 22      | M4 12 11,0  |
| 162TTX- 25  | 4,50                                        | 97,5 × 22,5  | M5 12 16,0  |
| 162TTX- 27  | 5,50                                        | 105,5 × 25,5 | M5 12 28,0  |
| 162TTX- 30  | 6,00                                        | 111 × 30     | M6 12 33,0  |
| 162TTX- 40  | 7,00                                        | 119 × 33     | M8 12 49,0  |

## 162S-KTXX Pocket Offset Key Set



|             |                                                              |     |     |
|-------------|--------------------------------------------------------------|-----|-----|
| Application | for inside TORX screws with pin                              |     |     |
| Type        | pocket-knife type holder nickel plated, blades black finish  |     |     |
| Material    | Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243                  |     |     |
| Stock-No.   | Contents                                                     |     |     |
|             |                                                              |     |     |
|             |                                                              | mm  | g   |
| 162S- KTXX  | TTX 9; TTX10; TTX15;<br>TTX20; TTX25; TTX27;<br>TTX30; TTX40 | 110 | 235 |



# HEXAGON AND OFFSET KEYS, SCREWDRIVERS

## 162S-KKTTX Pocket Hexagon Key Set



| Application | for inside TORX screws with pin                                  |     |    |     |
|-------------|------------------------------------------------------------------|-----|----|-----|
| Type        | in plastic holder with lever for easy raise, blades black finish |     |    |     |
| Material    | Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243                      |     |    |     |
| Stock-No.   | Contents                                                         | mm  | mm | g   |
| 162S-KKTTX  | TTX 9; TTX10; TTX15; TTX20; TTX25; TTX27; TTX30; TTX40           | 130 | 1  | 260 |

## 162-TXKU TORX® Ball End Key



|             |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                        |
|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Application | for inside TORX screws for use in awkward areas, swivel angle up to 30°           |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                        |
| Type        | black finish, with TORX share at short end and TORX ball end at long reach end    |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                        |
| Material    | Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243                                       |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                        |
| Stock-No.   |  |  |  | for  |  | <br>g |
| 162TXKU- 9  | 2,50                                                                              | 67                                                                                | × 19                                                                              | M3                                                                                    | 12                                                                                | 5                                                                                      |
| 162TXKU- 10 | 2,74                                                                              | 76                                                                                | × 20                                                                              | M3                                                                                    | 12                                                                                | 5                                                                                      |
| 162TXKU- 15 | 3,27                                                                              | 86,5                                                                              | × 20,5                                                                            | M3,5                                                                                  | 12                                                                                | 7                                                                                      |
| 162TXKU- 20 | 2,86                                                                              | 98                                                                                | × 22                                                                              | M4                                                                                    | 12                                                                                | 11                                                                                     |
| 162TXKU- 25 | 4,43                                                                              | 100,5                                                                             | × 22,5                                                                            | M5                                                                                    | 12                                                                                | 14                                                                                     |
| 162TXKU- 27 | 4,99                                                                              | 111,5                                                                             | × 25,5                                                                            | M5                                                                                    | 12                                                                                | 23                                                                                     |
| 162TXKU- 30 | 5,52                                                                              | 125                                                                               | × 30                                                                              | M6                                                                                    | 12                                                                                | 30                                                                                     |
| 162TXKU- 40 | 6,65                                                                              | 139                                                                               | × 33                                                                              | M8                                                                                    | 12                                                                                | 47                                                                                     |
| 162TXKU- 45 | 7,82                                                                              | 145                                                                               | × 37                                                                              | M8                                                                                    | 12                                                                                | 62                                                                                     |
| 162TXKU- 50 | 8,83                                                                              | 149                                                                               | × 41                                                                              | M10                                                                                   | 12                                                                                | 81                                                                                     |
| 162TXKU- 55 | 11,22                                                                             | 157                                                                               | × 47                                                                              | M12                                                                                   | 12                                                                                | 151                                                                                    |

## 162SLTX Pocket Hexagon Key Set

**New!**



| Application | for inside TORX screws                                                  |    |    |     |
|-------------|-------------------------------------------------------------------------|----|----|-----|
| Type        | in plastic holder, blades black finish                                  |    |    |     |
| Material    | Hexagon Keys: Chrome-Vanadium-Steel 59 CrMoV 4, Code-No. 1.2243         |    |    |     |
| Stock-No.   | Contents                                                                | mm | mm | g   |
| 162SLTX     | TX5; TX6; TX7; TX8; TX9; TX10; TX15; TX20; TX25; TX27; TX30; TX40; TX50 | 3  |    | 440 |

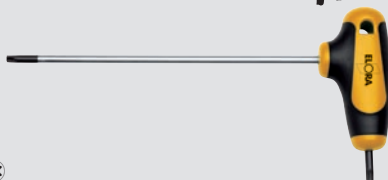
## 762TX Screwdriver



|             |                                                                                       |                                                                                       |                                                                                       |                                                                                           |                                                                                         |
|-------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Application | for inside TORX screws                                                                |                                                                                       |                                                                                       |                                                                                           |                                                                                         |
| Type        | with black plastic T-handle, blade chrome plated, with black point tip                |                                                                                       |                                                                                       |                                                                                           |                                                                                         |
| Material    | Chrome-Vanadium 58 CrV 4, Code No. 1.2242                                             |                                                                                       |                                                                                       |                                                                                           |                                                                                         |
| Stock-No.   |  |  |  | for  |  g |
| 762TX- 6    | 1,67                                                                                  | 80                                                                                    | M2                                                                                    | 6                                                                                         | 34                                                                                      |
| 762TX- 7    | 1,99                                                                                  | 80                                                                                    | M2,5                                                                                  | 6                                                                                         | 34                                                                                      |
| 762TX- 8    | 2,31                                                                                  | 80                                                                                    | M2,5                                                                                  | 6                                                                                         | 34                                                                                      |
| 762TX- 9    | 2,50                                                                                  | 80                                                                                    | M3                                                                                    | 6                                                                                         | 34                                                                                      |
| 762TX- 10   | 2,74                                                                                  | 100                                                                                   | M3                                                                                    | 6                                                                                         | 38                                                                                      |
| 762TX- 15   | 3,27                                                                                  | 100                                                                                   | M3,5                                                                                  | 6                                                                                         | 38                                                                                      |
| 762TX- 20   | 3,86                                                                                  | 100                                                                                   | M4                                                                                    | 6                                                                                         | 38                                                                                      |
| 762TX- 25   | 4,43                                                                                  | 105                                                                                   | M5                                                                                    | 6                                                                                         | 72                                                                                      |
| 762TX- 27   | 4,99                                                                                  | 105                                                                                   | M5                                                                                    | 6                                                                                         | 74                                                                                      |
| 762TX- 30   | 5,52                                                                                  | 125                                                                                   | M6                                                                                    | 6                                                                                         | 102                                                                                     |
| 762TX- 40   | 6,65                                                                                  | 125                                                                                   | M8                                                                                    | 6                                                                                         | 116                                                                                     |
| 762TX- 45   | 7,82                                                                                  | 125                                                                                   | M8                                                                                    | 6                                                                                         | 130                                                                                     |
| 762TX- 50   | 8.83                                                                                  | 125                                                                                   | M10                                                                                   | 6                                                                                         | 150                                                                                     |

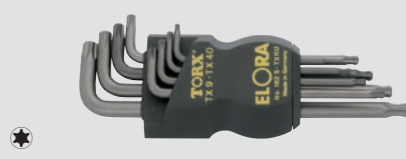
## 162WTX 2K T-Handle Hexagon Key

**New!**



|             |                                                                                     |                                                                                        |                                                                                        |                                                                                                                                                                                |                                                                                     |     |
|-------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|
| Application | for inside TORX screws                                                              |                                                                                        |                                                                                        |                                                                                                                                                                                |                                                                                     |     |
| Type        | blades chrome plated, plastic handle with black tip                                 |                                                                                        |                                                                                        |                                                                                                                                                                                |                                                                                     |     |
| Material    | Chrome-Vanadium-Steel 59 CrMoV 4, Code-No. 1.2243                                   |                                                                                        |                                                                                        |                                                                                                                                                                                |                                                                                     |     |
| Stock-No.   |  |  mm |  mm |  for  mm |  | g   |
| 162WTX- 9   |                                                                                     | 2,50                                                                                   | 100×13                                                                                 | M3                                                                                                                                                                             | 12                                                                                  | 22  |
| 162WTX-10   |                                                                                     | 2,74                                                                                   | 100×13                                                                                 | M3                                                                                                                                                                             | 12                                                                                  | 22  |
| 162WTX-15   |                                                                                     | 3,27                                                                                   | 100×13                                                                                 | M3,5                                                                                                                                                                           | 12                                                                                  | 26  |
| 162WTX-20   |                                                                                     | 3,86                                                                                   | 150×15                                                                                 | M4                                                                                                                                                                             | 12                                                                                  | 44  |
| 162WTX-25   |                                                                                     | 4,43                                                                                   | 150×15                                                                                 | M5                                                                                                                                                                             | 12                                                                                  | 49  |
| 162WTX-27   |                                                                                     | 4,99                                                                                   | 150×15                                                                                 | M5                                                                                                                                                                             | 12                                                                                  | 62  |
| 162WTX-30   |                                                                                     | 5,52                                                                                   | 150×17                                                                                 | M6                                                                                                                                                                             | 12                                                                                  | 82  |
| 162WTX-40   |                                                                                     | 6,65                                                                                   | 150×17                                                                                 | M8                                                                                                                                                                             | 12                                                                                  | 100 |

## 162S-TXKU TORX® Ball End Key Set



| Type      | in plastic holder                                              |    |    |     |
|-----------|----------------------------------------------------------------|----|----|-----|
| Material  | Chrome-Vanadium 59 CrMoV 4, Code No. 1.2243                    |    |    |     |
| Stock-No. | Contents                                                       | mm | mm | g   |
| 162S-TXKU | TXKU 9; TXKU10; TXKU15; TXKU20; TXKU25; TXKU27; TXKU30; TXKU40 | 1  |    | 123 |

## 162LTX Hexagon Key

**New!**



|                                                                                               |                                                                                        |                                                                                        |                                                                                            |                                                                                     |                                                                                       |  |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| Application                                                                                   | for inside TORX screws                                                                 |                                                                                        |                                                                                            |                                                                                     |                                                                                       |  |
| Type                                                                                          | black finish, long version                                                             |                                                                                        |                                                                                            |                                                                                     |                                                                                       |  |
| Material                                                                                      | Chrome-Vanadium 59 CrMoV 4, Code-No. 1.2243                                            |                                                                                        |                                                                                            |                                                                                     |                                                                                       |  |
| Stock-No.  |  mm |  mm | for  mm |  |  g |  |
| 162LTX- 5                                                                                     | 1,42                                                                                   | 72×13                                                                                  | M1,8                                                                                       | 12                                                                                  | 4                                                                                     |  |
| 162LTX- 6                                                                                     | 1,67                                                                                   | 80×15                                                                                  | M2                                                                                         | 12                                                                                  | 4                                                                                     |  |
| 162LTX- 7                                                                                     | 1,99                                                                                   | 88×18                                                                                  | M2,5                                                                                       | 12                                                                                  | 4                                                                                     |  |
| 162LTX- 8                                                                                     | 2,31                                                                                   | 101×20                                                                                 | M2,5                                                                                       | 12                                                                                  | 6                                                                                     |  |
| 162LTX- 9                                                                                     | 2,50                                                                                   | 111×21                                                                                 | M3                                                                                         | 12                                                                                  | 6                                                                                     |  |
| 162LTX-10                                                                                     | 2,74                                                                                   | 121×23                                                                                 | M3                                                                                         | 12                                                                                  | 6                                                                                     |  |
| 162LTX-15                                                                                     | 3,27                                                                                   | 136×27                                                                                 | M3,5                                                                                       | 12                                                                                  | 9                                                                                     |  |
| 162LTX-20                                                                                     | 3,86                                                                                   | 148×29                                                                                 | M4                                                                                         | 12                                                                                  | 12                                                                                    |  |
| 162LTX-25                                                                                     | 4,43                                                                                   | 163×33                                                                                 | M5                                                                                         | 12                                                                                  | 17                                                                                    |  |
| 162LTX-27                                                                                     | 4,99                                                                                   | 170×36                                                                                 | M5                                                                                         | 12                                                                                  | 24                                                                                    |  |
| 162LTX-30                                                                                     | 5,52                                                                                   | 178×38                                                                                 | M6                                                                                         | 12                                                                                  | 40                                                                                    |  |
| 162LTX-40                                                                                     | 6,65                                                                                   | 188×43                                                                                 | M8                                                                                         | 12                                                                                  | 59                                                                                    |  |
| 162LTX-45                                                                                     | 7,82                                                                                   | 195×46                                                                                 | M8                                                                                         | 12                                                                                  | 93                                                                                    |  |
| 162LTX-50                                                                                     | 8,83                                                                                   | 200×50                                                                                 | M10                                                                                        | 12                                                                                  | 130                                                                                   |  |

## 762TTX Screwdriver



|             |                                                                                                |                                                                                       |                                                                                       |                                                                                              |                                                                                                                                                                             |
|-------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | for inside TORX screws with pin                                                                |                                                                                       |                                                                                       |                                                                                              |                                                                                                                                                                             |
| Type        | with black plastic T-handle, blade chrome plated, with black point tip, with hole at drive end |                                                                                       |                                                                                       |                                                                                              |                                                                                                                                                                             |
| Material    | Chrome-Vanadium 58 CrV 4, Code No. 1.2242                                                      |                                                                                       |                                                                                       |                                                                                              |                                                                                                                                                                             |
| Stock-No.   |           |  |  | for<br> |   |
|             |                                                                                                | mm                                                                                    |                                                                                       | mm                                                                                           | g                                                                                                                                                                           |
| 762TTX- 6   | 1,67                                                                                           | 80                                                                                    | M2                                                                                    | 6                                                                                            | 34                                                                                                                                                                          |
| 762TTX- 7   | 1,99                                                                                           | 80                                                                                    | M2,5                                                                                  | 6                                                                                            | 34                                                                                                                                                                          |
| 762TTX- 8   | 2,31                                                                                           | 80                                                                                    | M2,5                                                                                  | 6                                                                                            | 34                                                                                                                                                                          |
| 762TTX- 9   | 2,50                                                                                           | 80                                                                                    | M3                                                                                    | 6                                                                                            | 34                                                                                                                                                                          |
| 762TTX- 10  | 2,74                                                                                           | 100                                                                                   | M3                                                                                    | 6                                                                                            | 38                                                                                                                                                                          |
| 762TTX- 15  | 3,27                                                                                           | 100                                                                                   | M3,5                                                                                  | 6                                                                                            | 38                                                                                                                                                                          |
| 762TTX- 20  | 3,86                                                                                           | 100                                                                                   | M4                                                                                    | 6                                                                                            | 38                                                                                                                                                                          |
| 762TTX- 25  | 4,43                                                                                           | 105                                                                                   | M5                                                                                    | 6                                                                                            | 72                                                                                                                                                                          |
| 762TTX- 27  | 4,99                                                                                           | 105                                                                                   | M5                                                                                    | 6                                                                                            | 74                                                                                                                                                                          |
| 762TTX- 30  | 5,52                                                                                           | 125                                                                                   | M6                                                                                    | 6                                                                                            | 102                                                                                                                                                                         |
| 762TTX- 40  | 6,65                                                                                           | 125                                                                                   | M8                                                                                    | 6                                                                                            | 116                                                                                                                                                                         |
| 762TTX- 45  | 7,82                                                                                           | 125                                                                                   | M8                                                                                    | 6                                                                                            | 130                                                                                                                                                                         |

## 160 Offset Key



| Application | for B&S-XZN screws                        |          |    |     |
|-------------|-------------------------------------------|----------|----|-----|
| Type        | nickel plated                             |          |    |     |
| Material    | Chrome-Vanadium 58 CrV 4, Code No. 1.2242 |          |    |     |
| Stock-No.   | for                                       | mm       |    | g   |
| 160- 5      | M5                                        | 72 × 25  | 12 | 14  |
| 160- 6      | M6                                        | 80 × 28  | 12 | 22  |
| 160- 8      | M8                                        | 90 × 32  | 12 | 46  |
| 160- 10     | M10                                       | 100 × 36 | 12 | 84  |
| 160- 12     | M12                                       | 112 × 40 | 6  | 126 |
| 160- 14     | M14                                       | 125 × 45 | 6  | 205 |
| 160- 16     | M16                                       | 140 × 55 | 6  | 310 |
| 160- 18     | M18                                       | 140 × 55 | 6  | 380 |

## 160S Pocket Offset Key Set



| Application | for B&S-XZN screws                                |     |   |     |
|-------------|---------------------------------------------------|-----|---|-----|
| Type        | pocket-knife type holder and blades nickel plated |     |   |     |
| Material    | Chrome-Vanadium 58 CrV 4, Code No. 1.2242         |     |   |     |
| Stock-No.   | Contents                                          | mm  |   | g   |
| 160S- KXZN  | M5, M6, M8, M10, M12                              | 120 | 3 | 420 |

## 161 Offset Key



| Application | for RIBE-CV screws                        |          |    |     |
|-------------|-------------------------------------------|----------|----|-----|
| Type        | nickel plated                             |          |    |     |
| Material    | Chrome-Vanadium 58 CrV 4, Code No. 1.2242 |          |    |     |
| Stock-No.   | for                                       | mm       |    | g   |
| 161- 4      | M4                                        | 63 × 20  | 12 | 8   |
| 161- 5      | M5                                        | 71 × 25  | 12 | 14  |
| 161- 6      | M6                                        | 80 × 28  | 12 | 24  |
| 161- 8      | M8                                        | 90 × 32  | 12 | 47  |
| 161- 10     | M10                                       | 100 × 36 | 12 | 78  |
| 161- 12     | M12                                       | 112 × 40 | 6  | 130 |
| 161- 14     | M14                                       | 125 × 45 | 6  | 200 |
| 161- 16     | M16                                       | 140 × 55 | 6  | 290 |
| 161- 18     | M18                                       | 150 × 58 | 3  | 405 |
| 161- 20     | M20                                       | 160 × 60 | 3  | 535 |
| 161- 22     | M22                                       | 170 × 65 | 3  | 690 |

## 161S-K Pocket Offset Key Set



| Application | for RIBE-CV screws                                |     |   |     |
|-------------|---------------------------------------------------|-----|---|-----|
| Type        | pocket-knife type holder and blades nickel plated |     |   |     |
| Material    | Chrome-Vanadium 58 CrV 4, Code No. 1.2242         |     |   |     |
| Stock-No.   | Contents                                          | mm  |   | g   |
| 161S- KRIB  | M5, M6, M8, M10, M12                              | 120 | 3 | 430 |

## 730 Offset Key



| Application | for cross slot screws Phillips-Recess                                  |     |   |     |
|-------------|------------------------------------------------------------------------|-----|---|-----|
| Type        | nickel plated                                                          |     |   |     |
| Material    | Chrome-Vanadium 58 CrV 4, Code No. 1.2242                              |     |   |     |
| Standard    | according to DIN 5208, blade tips according to DIN 5260-PH/ISO 8764-PH |     |   |     |
| Stock-No.   |                                                                        | mm  |   | g   |
| 730- 1      | No. 1+2                                                                | 100 | 6 | 26  |
| 730- 3      | No. 3+4                                                                | 200 | 6 | 116 |
| Stock-No.   | Pieces each                                                            |     |   | g   |
| 730S- 2     | 730- 1 No. 1+2<br>730- 3 No. 3+4                                       |     | 1 | 142 |

## 740 Offset Key

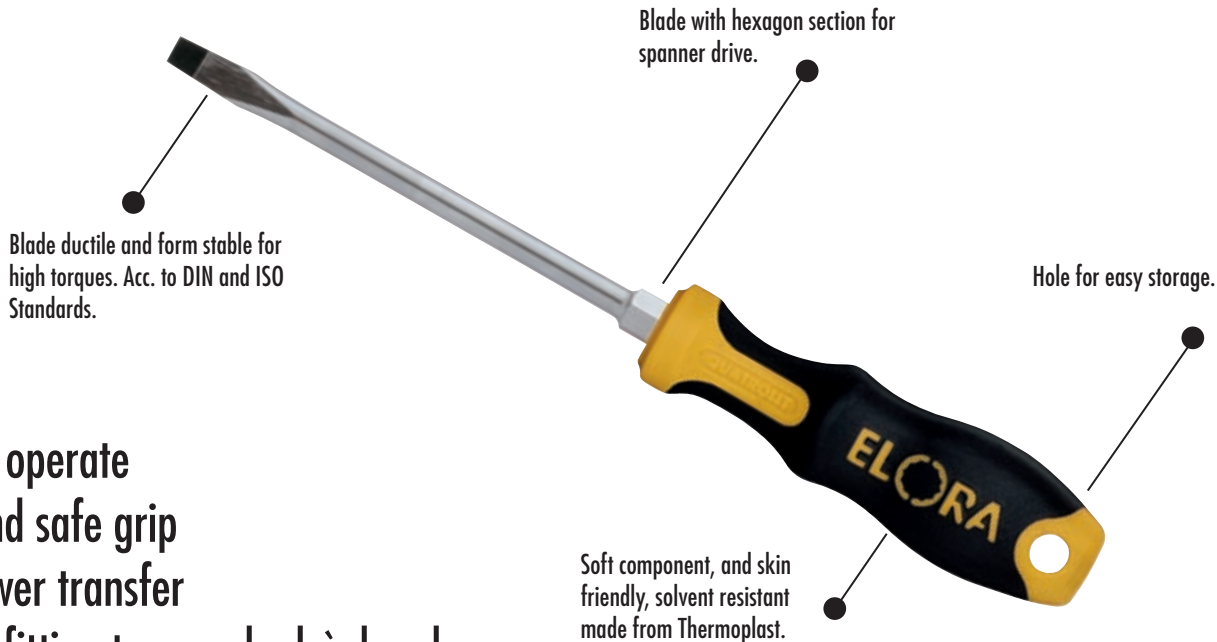


| Application | for plain slot screws                                            |     |   |     |
|-------------|------------------------------------------------------------------|-----|---|-----|
| Type        | nickel plated                                                    |     |   |     |
| Material    | Chrome-Vanadium 58 CrV 4, Code No. 1.2242                        |     |   |     |
| Standard    | according to DIN 5200, blade tips according to DIN 5264/ISO 2380 |     |   |     |
| Stock-No.   | Slot mm                                                          | mm  |   | g   |
| 740- 4      | 4,0 × 0,8                                                        | 100 | 6 | 18  |
| 740- 5,5    | 5,5 × 1,0                                                        | 125 | 6 | 34  |
| 740- 8      | 8,0 × 1,2                                                        | 150 | 6 | 52  |
| 740- 10     | 10,0 × 1,6                                                       | 175 | 6 | 130 |
| 740- 12     | 12,0 × 2,0                                                       | 200 | 6 | 145 |
| Stock-No.   | Contents                                                         |     |   | g   |
| 740S- 5     | 740- 4; 0; 5,5; 8,0; 10,0; 12,0                                  |     | 1 | 385 |

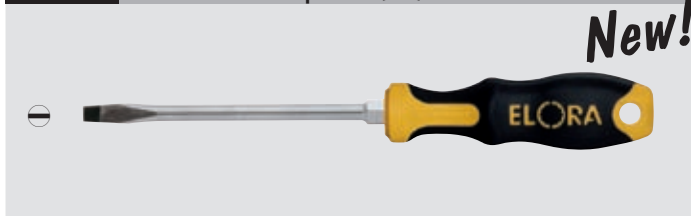
# ELORA 2 Component Screwdriver

Outstanding advantages by patented QUATROLIT®- Handle.

- Easy to operate
- Firm and safe grip
- Full power transfer
- Perfect fitting to everybody's hand



## 539 TOP-KRAFT-2 Component (2K) Screwdriver



| Application | for plain slot screws                                                                                                  |     |     |                 |   |     |  |
|-------------|------------------------------------------------------------------------------------------------------------------------|-----|-----|-----------------|---|-----|--|
| Type        | Blade with forged hexagon section for spanner drive                                                                    |     |     |                 |   |     |  |
| Standard    | according to DIN 5265, Form D, hexagon chuck according to DIN 475, blade edge according to DIN 5264, Form A / ISO 2380 |     |     |                 |   |     |  |
| Stock-No.   | Slot mm                                                                                                                | mm  | mm  | hexagon size mm |   | g   |  |
| 539-IS 75   | 0,6 × 3,5                                                                                                              | 75  | 155 | 6               | 6 | 38  |  |
| 539-IS 90   | 0,8 × 4,5                                                                                                              | 90  | 170 | 6               | 6 | 40  |  |
| 539-IS 100  | 1,0 × 5,5                                                                                                              | 100 | 190 | 8               | 6 | 52  |  |
| 539-IS 125  | 1,2 × 6,5                                                                                                              | 125 | 225 | 10              | 6 | 86  |  |
| 539-IS 150  | 1,2 × 8,0                                                                                                              | 150 | 260 | 13              | 6 | 132 |  |
| 539-IS 175  | 1,6 × 10,0                                                                                                             | 175 | 285 | 13              | 6 | 174 |  |
| 539-IS 200  | 2,0 × 12,0                                                                                                             | 200 | 320 | 17              | 6 | 275 |  |
| 539-IS 250  | 2,5 × 14,0                                                                                                             | 250 | 370 | 17              | 6 | 317 |  |

## 545 TOP-KRAFT-2 Component (2K) Screwdriver



| Application | for plain slot screws                                                              |     |     |   |     |   |  |
|-------------|------------------------------------------------------------------------------------|-----|-----|---|-----|---|--|
| Standard    | according to DIN 5265, Form C, blade edge according to DIN 5264, Form A / ISO 2380 |     |     |   |     |   |  |
| Stock-No.   | Slot mm                                                                            | mm  | mm  |   |     | g |  |
| 545-IS 75   | 0,6 × 3,5                                                                          | 75  | 155 | 6 | 32  |   |  |
| 545-IS 100  | 0,8 × 4,0                                                                          | 100 | 180 | 6 | 37  |   |  |
| 545-IS 125  | 1,0 × 5,5                                                                          | 125 | 215 | 6 | 60  |   |  |
| 545-IS 150  | 1,2 × 6,5                                                                          | 150 | 250 | 6 | 78  |   |  |
| 545-IS 175  | 1,6 × 8,0                                                                          | 175 | 275 | 6 | 127 |   |  |
| 545-IS 200  | 1,6 × 10,0                                                                         | 200 | 310 | 6 | 150 |   |  |
| 545-IS 250  | 2,0 × 12,0                                                                         | 250 | 370 | 6 | 220 |   |  |
| 545-IS 300  | 2,0 × 14,0                                                                         | 300 | 420 | 6 | 286 |   |  |

## 539S TOP-KRAFT-2 Component (2K) Screwdriver Set

| Stock-No. | Contents                                                                                                                                                                                                                                |   | g    |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| 539 S8    | TOP-KRAFT-2 Component (2K) Screwdriver<br>539-IS 75 0,6 × 3,5<br>539-IS 90 0,8 × 4,5<br>539-IS 100 1,0 × 5,5<br>539-IS 125 1,2 × 6,5<br>539-IS 150 1,2 × 8,0<br>539-IS 175 1,6 × 10,0<br>539-IS 200 2,0 × 12,0<br>539-IS 250 2,5 × 14,0 | 1 | 1214 |

## 545S TOP-KRAFT-2 Component (2K) Screwdriver Set

| Stock-No. | Contents                                                                                                                                                                                                                                 |   | g   |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| 545 S8    | TOP-KRAFT-2 Component (2K) Screwdriver<br>545-IS 75 0,6 × 3,5<br>545-IS 100 0,8 × 4,0<br>545-IS 125 1,0 × 5,5<br>545-IS 150 1,2 × 6,5<br>545-IS 175 1,6 × 8,0<br>545-IS 200 1,6 × 10,0<br>545-IS 250 2,0 × 12,0<br>545-IS 300 2,0 × 14,0 | 1 | 990 |

547

TOP-KRAFT-2 Component (2K) Screwdriver

New!

| Application | for cross slot screws Phillips-Recess                                           |     |     |   |     |
|-------------|---------------------------------------------------------------------------------|-----|-----|---|-----|
| Standard    | according to DIN 5262, Form B, blade tip according to DIN 5260-PH / ISO 8764-PH |     |     |   |     |
| Stock-No.   | Size                                                                            | mm  | mm  |   | g   |
| 547-PH 0    | No.0                                                                            | 60  | 140 | 6 | 23  |
| 547-PH 1    | No.1                                                                            | 80  | 170 | 6 | 40  |
| 547-PH 2    | No.2                                                                            | 100 | 200 | 6 | 65  |
| 547-PH 3    | No.3                                                                            | 150 | 260 | 6 | 128 |
| 547-PH 4    | No.4                                                                            | 200 | 320 | 6 | 212 |

549

TOP-KRAFT-2 Component (2K) Screwdriver

New!

| Application | for cross slot screws Supa-Pozidriv        |     |     |   |     |
|-------------|--------------------------------------------|-----|-----|---|-----|
| Standard    | tip according to DIN 5260-PZ / ISO 8764-PZ |     |     |   |     |
| Stock-No.   | Size                                       | mm  | mm  |   | g   |
| 549-PZ 0    | No.0                                       | 60  | 140 | 6 | 23  |
| 549-PZ 1    | No.1                                       | 80  | 170 | 6 | 40  |
| 549-PZ 2    | No.2                                       | 100 | 200 | 6 | 68  |
| 549-PZ 3    | No.3                                       | 150 | 260 | 6 | 129 |
| 549-PZ 4    | No.4                                       | 200 | 320 | 6 | 212 |

547S

TOP-KRAFT-2 Component (2K) Screwdriver Set

| Stock-No. | Contents                                                                                                                    |   | g   |
|-----------|-----------------------------------------------------------------------------------------------------------------------------|---|-----|
| 547 S5    | TOP-KRAFT-2 Component (2K) Screwdriver<br>547-PH 0 No.0<br>547-PH 1 No.1<br>547-PH 2 No.2<br>547-PH 3 No.3<br>547-PH 4 No.4 | 1 | 554 |

New!

549S

TOP-KRAFT-2 Component (2K) Screwdriver Set

| Stock-No. | Contents                                                                                                                    |   | g   |
|-----------|-----------------------------------------------------------------------------------------------------------------------------|---|-----|
| 549 S5    | TOP-KRAFT-2 Component (2K) Screwdriver<br>549-PZ 0 No.0<br>549-PZ 1 No.1<br>549-PZ 2 No.2<br>549-PZ 3 No.3<br>549-PZ 4 No.4 | 1 | 538 |

New!

559

TOP-KRAFT-2 Component (2K) Screwdriver

New!

| Application | for cross slot screws Phillips-Recess                                                                               |     |     |                 |     |
|-------------|---------------------------------------------------------------------------------------------------------------------|-----|-----|-----------------|-----|
| Type        | Blade with forged hexagon section for spanner drive                                                                 |     |     |                 |     |
| Standard    | according to DIN 5262, Form B, hexagon chuck according to DIN 475, blade tip according to DIN 5260-PH / ISO 8764-PH |     |     |                 |     |
| Stock-No.   | Size                                                                                                                | mm  | mm  | hexagon size mm | g   |
| 559-PH 1    | No.1                                                                                                                | 80  | 170 | 7               | 40  |
| 559-PH 2    | No.2                                                                                                                | 100 | 200 | 10              | 74  |
| 559-PH 3    | No.3                                                                                                                | 150 | 260 | 13              | 131 |
| 559-PH 4    | No.4                                                                                                                | 200 | 320 | 17              | 277 |

569

TOP-KRAFT-2 Component (2K) Screwdriver

New!

| Application | for cross slot screws Supa-Pozidriv                                            |     |     |                 |     |
|-------------|--------------------------------------------------------------------------------|-----|-----|-----------------|-----|
| Type        | Blade with forged hexagon section for spanner drive                            |     |     |                 |     |
| Standard    | tip according to DIN 5260-PZ / ISO 8764-PZ, hexagon chuck according to DIN 475 |     |     |                 |     |
| Stock-No.   | Size                                                                           | mm  | mm  | hexagon size mm | g   |
| 569-PZ 1    | No.1                                                                           | 80  | 170 | 7               | 40  |
| 569-PZ 2    | No.2                                                                           | 100 | 200 | 10              | 68  |
| 569-PZ 3    | No.3                                                                           | 150 | 260 | 13              | 129 |
| 569-PZ 4    | No.4                                                                           | 200 | 320 | 17              | 212 |

559S

TOP-KRAFT-2 Component (2K) Screwdriver Set

| Stock-No. | Contents                                                                                                   |   | g   |
|-----------|------------------------------------------------------------------------------------------------------------|---|-----|
| 559 S4    | TOP-KRAFT-2 Component (2K) Screwdriver<br>559-PH 1 No.1<br>559-PH 2 No.2<br>559-PH 3 No.3<br>559-PH 4 No.4 | 1 | 545 |

New!

569S

TOP-KRAFT-2 Component (2K) Screwdriver Set

| Stock-No. | Contents                                                                                                   |   | g   |
|-----------|------------------------------------------------------------------------------------------------------------|---|-----|
| 569 S4    | TOP-KRAFT-2 Component (2K) Screwdriver<br>569-PZ 1 No.1<br>569-PZ 2 No.2<br>569-PZ 3 No.3<br>569-PZ 4 No.4 | 1 | 538 |

New!

## 579S TOP-KRAFT Engineers Screwdriver Set

**New!**



| Type            | packed in environmentally-friendly and recyclable carton                                               |   |     |
|-----------------|--------------------------------------------------------------------------------------------------------|---|-----|
| Stock-No.       | Contents                                                                                               |   |     |
|                 |                                                                                                        |   |     |
|                 |                                                                                                        |   | g   |
| <b>579 S5-K</b> | 1 piece of each no.                                                                                    | 1 | 680 |
|                 | <div> <div>⊖</div> <div>539-IS100;<br/>539-IS125;<br/>539-IS150;<br/>559-PH1;<br/>559-PH2</div> </div> |   |     |
|                 | <div> <div>⊕</div> <div></div> </div>                                                                  |   |     |

## 581S TOP-KRAFT Engineers Screwdriver Set

**New!**



| Type            | packed in environmentally-friendly and recyclable carton                                               |   |     |
|-----------------|--------------------------------------------------------------------------------------------------------|---|-----|
| Stock-No.       | Contents                                                                                               |   |     |
|                 |                                                                                                        |   |     |
|                 |                                                                                                        |   | g   |
| <b>581 S5-K</b> | 1 piece of each no.                                                                                    | 1 | 680 |
|                 | <div> <div>⊖</div> <div>539-IS100;<br/>539-IS125;<br/>539-IS150;<br/>569-PZ1;<br/>569-PZ2</div> </div> |   |     |
|                 | <div> <div>⊕</div> <div></div> </div>                                                                  |   |     |

## MS-36 Module

**New!**



| Application  | For roller tool cabinet CADDY, Stock.-No. 1200, BUDDY, Stock.-No. 1210 and SUPER-CADDY, Stock.-No. 1220                                                                                                                                                   |   |     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Type         | Black, with transparent cover                                                                                                                                                                                                                             |   |     |
| Material     | ABS                                                                                                                                                                                                                                                       |   |     |
| Stock-No.    | Contents                                                                                                                                                                                                                                                  |   |     |
|              |                                                                                                                                                                                                                                                           |   |     |
|              |                                                                                                                                                                                                                                                           |   | g   |
| <b>MS-36</b> | <b>TOP-KRAFT-2 Component Screwdriver</b>                                                                                                                                                                                                                  | 1 | 517 |
|              | <div> <div>⊖</div> <div>539-IS 75 Engineers Screwdriver<br/>539-IS 100 Engineers Screwdriver<br/>539-IS 125 Engineers Screwdriver<br/>539-IS 150 Engineers Screwdriver<br/>559-PH 1 Engineers Screwdriver<br/>559-PH 2 Engineers Screwdriver</div> </div> |   |     |
|              | <div> <div>⊕</div> <div></div> </div>                                                                                                                                                                                                                     |   |     |

## MS-37 Module

**New!**



| Application  | For roller tool cabinet CADDY, Stock.-No. 1200, BUDDY, Stock.-No. 1210 and SUPER-CADDY, Stock.-No. 1220                                                                                                                                                   |   |     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Type         | Black, with transparent cover                                                                                                                                                                                                                             |   |     |
| Material     | ABS                                                                                                                                                                                                                                                       |   |     |
| Stock-No.    | Contents                                                                                                                                                                                                                                                  |   |     |
|              |                                                                                                                                                                                                                                                           |   |     |
|              |                                                                                                                                                                                                                                                           |   | g   |
| <b>MS-37</b> | <b>TOP-KRAFT-2 Component Screwdriver</b>                                                                                                                                                                                                                  | 1 | 511 |
|              | <div> <div>⊖</div> <div>539-IS 75 Engineers Screwdriver<br/>539-IS 100 Engineers Screwdriver<br/>539-IS 125 Engineers Screwdriver<br/>539-IS 150 Engineers Screwdriver<br/>569-PZ 1 Engineers Screwdriver<br/>569-PZ 2 Engineers Screwdriver</div> </div> |   |     |
|              | <div> <div>⊕</div> <div></div> </div>                                                                                                                                                                                                                     |   |     |

## MS-38 Module

**New!**



| Application  | For roller tool cabinet CADDY, Stock.-No. 1200, BUDDY, Stock.-No. 1210 and SUPER-CADDY, Stock.-No. 1220                                                                                                                                                   |   |     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Type         | Black, with transparent cover                                                                                                                                                                                                                             |   |     |
| Material     | ABS                                                                                                                                                                                                                                                       |   |     |
| Stock-No.    | Contents                                                                                                                                                                                                                                                  |   |     |
|              |                                                                                                                                                                                                                                                           |   |     |
|              |                                                                                                                                                                                                                                                           |   | g   |
| <b>MS-38</b> | <b>TOP-KRAFT-2 Component Screwdriver</b>                                                                                                                                                                                                                  | 1 | 407 |
|              | <div> <div>⊖</div> <div>545-IS 75 Engineers Screwdriver<br/>545-IS 100 Engineers Screwdriver<br/>545-IS 125 Engineers Screwdriver<br/>545-IS 150 Engineers Screwdriver<br/>547-PH 1 Engineers Screwdriver<br/>547-PH 2 Engineers Screwdriver</div> </div> |   |     |
|              | <div> <div>⊕</div> <div></div> </div>                                                                                                                                                                                                                     |   |     |

## MS-39 Module

**New!**



| Application  | For roller tool cabinet CADDY, Stock.-No. 1200, BUDDY, Stock.-No. 1210 and SUPER-CADDY, Stock.-No. 1220                                                                                                                                                   |   |     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Type         | Black, with transparent cover                                                                                                                                                                                                                             |   |     |
| Material     | ABS                                                                                                                                                                                                                                                       |   |     |
| Stock-No.    | Contents                                                                                                                                                                                                                                                  |   |     |
|              |                                                                                                                                                                                                                                                           |   |     |
|              |                                                                                                                                                                                                                                                           |   | g   |
| <b>MS-39</b> | <b>TOP-KRAFT-2 Component Screwdriver</b>                                                                                                                                                                                                                  | 1 | 511 |
|              | <div> <div>⊖</div> <div>545-IS 75 Engineers Screwdriver<br/>545-IS 100 Engineers Screwdriver<br/>545-IS 125 Engineers Screwdriver<br/>545-IS 150 Engineers Screwdriver<br/>549-PZ 1 Engineers Screwdriver<br/>549-PZ 2 Engineers Screwdriver</div> </div> |   |     |
|              | <div> <div>⊕</div> <div></div> </div>                                                                                                                                                                                                                     |   |     |



## TOP-KRAFT-VARIANT-Screwdrivers

A time-saving idea for assembly lines.  
Easy reversibility of blades.  
Blades made from heavy section super class tool steel.  
Shockproof new transparent Quatrolit® plastic handles for firm holding of interchangeable blades.  
Quatrolit® plastic handles with blade chuck and 10 mm hexagon bolster for spanner drive.  
Material: blades made from super class tool steel 73 MoV 5. Code No. 1.2318

520

## TOP-KRAFT-VARIANT-Quatrolit® Plastic Handle



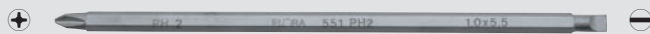
|             |                                                                         |   |  |  |    |
|-------------|-------------------------------------------------------------------------|---|--|--|----|
| Application | for TOP-KRAFT-VARIANT-blades                                            |   |  |  |    |
| Type        | with 6 mm hexagon chuck and hexagon bolster for 10 mm spanner drive     |   |  |  |    |
| Material    | chuck and bolster made from special tool steel 73 MoV 5, Code No.1.2318 |   |  |  |    |
| Stock-No.   |                                                                         |   |  |  |    |
| 520         | 95                                                                      | 6 |  |  | 42 |

## 535 TOP-KRAFT-VARIANT Screwdriver Blade



|             |                                                    |                       |     |              |    |
|-------------|----------------------------------------------------|-----------------------|-----|--------------|----|
| Application | for plain slot screws                              |                       |     |              |    |
| Standard    | blade edges according to DIN 5264, Form B/ISO 2380 |                       |     |              |    |
| Stock-No.   | Blade1<br>mm                                       | hexagon<br>size<br>mm |     | Blade2<br>mm |    |
| 535- IS 4   | 0,8 x 4,0                                          | 6                     | 175 | 1,0 x 5,5    | 39 |

## 551 TOP-KRAFT-VARIANT Screwdriver Blade



|             |                                                                                             |                       |     |              |    |
|-------------|---------------------------------------------------------------------------------------------|-----------------------|-----|--------------|----|
| Application | for plain slot screws and cross slot screws Phillips-Recess                                 |                       |     |              |    |
| Standard    | blade edge according to DIN 5264-B/ISO 2380, blade tip according to DIN 5260-PH/ISO 8764-PH |                       |     |              |    |
| Stock-No.   | Blade1<br>mm                                                                                | hexagon<br>size<br>mm |     | Blade2<br>mm |    |
| 551- PH 1   | PH 1                                                                                        | 6                     | 175 | 0,8 x 4,0    | 39 |
| 551- PH 2   | PH 2                                                                                        | 6                     | 175 | 1,0 x 5,5    | 39 |
| 551- PH 3   | PH 3                                                                                        | 6                     | 175 | 1,2 x 6,5    | 39 |

## 557 TOP-KRAFT-VARIANT Screwdriver Blade



|             |                                                 |                       |     |              |    |
|-------------|-------------------------------------------------|-----------------------|-----|--------------|----|
| Application | for cross slot screws Phillips-Recess           |                       |     |              |    |
| Standard    | blade tips according to DIN 5260-PH/ISO 8764-PH |                       |     |              |    |
| Stock-No.   | Blade1<br>mm                                    | hexagon<br>size<br>mm |     | Blade2<br>mm |    |
| 557- PH 12  | PH 1                                            | 6                     | 175 | PH 2         | 39 |

## 552 TOP-KRAFT-VARIANT Screwdriver Blade



|             |                                                                                             |                       |     |              |    |
|-------------|---------------------------------------------------------------------------------------------|-----------------------|-----|--------------|----|
| Application | for plain slot screws and cross slot screws Supa-Pozidriv                                   |                       |     |              |    |
| Standard    | blade edge according to DIN 5264-B/ISO 2380, blade tip according to DIN 5260-PZ/ISO 8764-PZ |                       |     |              |    |
| Stock-No.   | Blade1<br>mm                                                                                | hexagon<br>size<br>mm |     | Blade2<br>mm |    |
| 552- PZ 1   | PZ 1                                                                                        | 6                     | 175 | 0,8 x 4,0    | 39 |
| 552- PZ 2   | PZ 2                                                                                        | 6                     | 175 | 1,0 x 5,5    | 39 |
| 552- PZ 3   | PZ 3                                                                                        | 6                     | 175 | 1,2 x 6,5    | 39 |

## 567 TOP-KRAFT-VARIANT Screwdriver Blade



|             |                                                 |                       |     |              |    |
|-------------|-------------------------------------------------|-----------------------|-----|--------------|----|
| Application | for cross slot screws Supa-Pozidriv             |                       |     |              |    |
| Standard    | blade tips according to DIN 5260-PZ/ISO 8764-PZ |                       |     |              |    |
| Stock-No.   | Blade1<br>mm                                    | hexagon<br>size<br>mm |     | Blade2<br>mm |    |
| 567-PZ12    | PZ 1                                            | 6                     | 175 | PZ 2         | 39 |

## 577 TOP-KRAFT-VARIANT Screwdriver Blade



|             |                                                         |                       |     |              |    |
|-------------|---------------------------------------------------------|-----------------------|-----|--------------|----|
| Application | for hexagon socket head cap screws according to DIN 912 |                       |     |              |    |
| Type        | one side with ball end head                             |                       |     |              |    |
| Standard    | blade tips according to DIN 911/ISO 2936                |                       |     |              |    |
| Stock-No.   | Blade1<br>mm                                            | hexagon<br>size<br>mm |     | Blade2<br>mm |    |
| 577- 3      | KU 3                                                    | 6                     | 175 | IN 3         | 38 |
| 577- 4      | KU 4                                                    | 6                     | 175 | IN 4         | 39 |
| 577- 5      | KU 5                                                    | 6                     | 175 | IN 5         | 40 |
| 577- 6      | KU 6                                                    | 6                     | 175 | IN 6         | 40 |

## 527 TOP-KRAFT-VARIANT Screwdriver Blade



|             |                        |                       |     |              |    |
|-------------|------------------------|-----------------------|-----|--------------|----|
| Application | for inside TORX screws |                       |     |              |    |
| Stock-No.   | Blade1<br>mm           | hexagon<br>size<br>mm |     | Blade2<br>mm |    |
| 527- TX 6   | TX 6                   | 6                     | 175 | TX 8         | 39 |
| 527- TX 7   | TX 7                   | 6                     | 175 | TX 9         | 39 |
| 527- TX 10  | TX 10                  | 6                     | 175 | TX 15        | 39 |
| 527- TX 20  | TX 20                  | 6                     | 175 | TX 25        | 39 |
| 527- TX 30  | TX 30                  | 6                     | 175 | TX 40        | 39 |

## 527S TOP-KRAFT-VARIANT Screwdriver Set

**New!**



| Type        | in black vinyl storage wallet                                                                      |   |       |
|-------------|----------------------------------------------------------------------------------------------------|---|-------|
| Application | for inside TORX screws                                                                             |   |       |
| Stock-No.   | Contents                                                                                           |   |       |
| 527 S4      | handle Stock-No. 520<br>527-TX10 TX 10 × TX 15<br>527-TX20 TX 20 × TX 25<br>527-TX30 TX 30 × TX 40 | 1 | 310 g |

## 597S TOP-KRAFT-VARIANT Screwdriver Blade Dispenser

**New!**



| Type      | with 90 TOP-KRAFT-VARIANT Screwdriver Blades and 12 TOP-KRAFT-VARIANT-Quatrolit® Plastic Handles; size: 445 x 145 x 180 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |        |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------|
| Material  | made from transparent acrylic sheeting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |        |
| Stock-No. | Contents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Blade1 × Blade2 |        |
| 597 S102  | 6 blades of each:<br><div> <div> </div> <div> </div> </div> 551-PH 1 0,8×4 × PH 1<br>551-PH 2 1,0×5,5 × PH 2<br><div> <div> </div> <div> </div> </div> 552-PZ 1 0,8×4,0 × PZ 1<br>552-PZ 2 1,0×5,5 × PZ 2<br><div> <div> </div> <div> </div> </div> 567-PZ 12 PZ 1 × PZ 2<br><div> <div> </div> <div> </div> </div> 527-TX 6 TX 6 × TX 8<br>527-TX 7 TX 7 × TX 9<br>527-TX 10 TX 10 × TX 15<br>527-TX 20 TX 20 × TX 25<br>527-TX 30 TX 30 × TX 40<br><div> <div> </div> <div> </div> </div> 535-IS 4,0 0,8×4,0 × 1,0×5,5<br><div> <div> </div> <div> </div> </div> 577-4 KU 4 × IN 4<br>577-5 KU 5 × IN 5<br>577-6 KU 6 × IN 6<br><div> <div> </div> <div> </div> </div> 557-PH 12 PH 1 × PH 2<br>12 × handles: 520 | 1               | 5,6 kg |

## PROFI-Screwdrivers

Material: blades made from Chrome-Vanadium 58 CrV 4, Code No. 1.8159, to meet extra high requirements.  
 Extreme high degree of hardness. Torque above average.  
 Blades chrome plated. Special treated tips in gun metal finish.  
 The new ergonomical and impact resistant QUATROLIT® red colour transparent handles are designed for operator's comfort.

## 639 PROFI-Engineers Screwdriver



|             |                                                                                                                |                                                                                           |                                                                                           |                    |                                                                                     |                                                                                          |
|-------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Application | for plain slot screws                                                                                          |                                                                                           |                                                                                           |                    |                                                                                     |                                                                                          |
| Type        | blade with hexagon section for spanner drive                                                                   |                                                                                           |                                                                                           |                    |                                                                                     |                                                                                          |
| Standard    | according to DIN 5265, Form D, hexagon according to DIN 475, blade edge according to DIN 5264, Form A/ISO 2380 |                                                                                           |                                                                                           |                    |                                                                                     |                                                                                          |
| Stock-No.   | Blade<br>mm                                                                                                    | <br>mm | <br>mm | hexagon size<br>mm |  | <br>g |
| 639- IS 75  | 0,6 × 3,5                                                                                                      | 75                                                                                        | 170                                                                                       | 6                  | 6                                                                                   | 43                                                                                       |
| 639- IS 90  | 0,8 × 4,0                                                                                                      | 90                                                                                        | 185                                                                                       | 6                  | 6                                                                                   | 45                                                                                       |
| 639- IS 100 | 1,0 × 5,5                                                                                                      | 100                                                                                       | 185                                                                                       | 8                  | 6                                                                                   | 64                                                                                       |
| 639- IS 125 | 1,2 × 6,5                                                                                                      | 125                                                                                       | 220                                                                                       | 10                 | 6                                                                                   | 100                                                                                      |
| 639- IS 150 | 1,2 × 8,0                                                                                                      | 150                                                                                       | 255                                                                                       | 13                 | 6                                                                                   | 150                                                                                      |
| 639- IS 175 | 1,6 × 10,0                                                                                                     | 175                                                                                       | 290                                                                                       | 13                 | 6                                                                                   | 200                                                                                      |
| 639- IS 200 | 2,0 × 12,0                                                                                                     | 200                                                                                       | 325                                                                                       | 17                 | 6                                                                                   | 290                                                                                      |
| 639- IS 250 | 2,5 × 14,0                                                                                                     | 250                                                                                       | 375                                                                                       | 17                 | 6                                                                                   | 310                                                                                      |

|           |                                                                                                                                                                                                                                                                                                           |             |                                                                                       |                                                                                            |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Stock-No. | Contents                                                                                                                                                                                                                                                                                                  | Blade<br>mm |  | <br>g |
| 639 S8    | 1 piece of each No.:<br> 639-IS 75 0,6 × 3,5<br>639-IS 90 0,8 × 4,0<br>639-IS 100 1,0 × 5,5<br>639-IS 125 1,2 × 6,5<br>639-IS 150 1,2 × 8,0<br>639-IS 175 1,6 × 10,0<br>639-IS 200 2,0 × 12,0<br>639-IS 250 2,5 × 14,0 |             | 1                                                                                     | 1200                                                                                       |

## 643 PROFI-Chubby Screwdriver



|             |                                                                                                             |                                                                                       |                                                                                       |                                                                                       |                                                                                            |
|-------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Application | for plain slot screws                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                            |
| Standard    | according to DIN 5265, form A, blade edge according to DIN 5264, Form A/ISO 2380                            |                                                                                       |                                                                                       |                                                                                       |                                                                                            |
| Stock-No.   | Blade<br>mm                                                                                                 |  |  |  | <br>g |
| 643- IS 45  | 0,6 × 3,5                                                                                                   | 25                                                                                    | 80                                                                                    | 6                                                                                     | 28                                                                                         |
| 643- IS 60  | 1,0 × 5,5                                                                                                   | 25                                                                                    | 80                                                                                    | 6                                                                                     | 42                                                                                         |
| 643- IS 80  | 1,2 × 6,5                                                                                                   | 25                                                                                    | 80                                                                                    | 6                                                                                     | 52                                                                                         |
| Stock-No.   | Contents                                                                                                    | Blade<br>mm                                                                           |                                                                                       |  | <br>g |
| 643 S3      | 1 piece of each No.:<br> | 643-IS 45<br>643-IS 60<br>643-IS 80                                                   | 0,6 × 3,5<br>1,0 × 5,5<br>1,2 × 6,5                                                   | 1                                                                                     | 122                                                                                        |

## 645 PROFI-Engineers Screwdriver



|             |                                                                                  |
|-------------|----------------------------------------------------------------------------------|
| Application | for plain slot screws                                                            |
| Standard    | according to DIN 5265, form C, blade edge according to DIN 5264, Form A/ISO 2380 |

| Stock-No.   | Blade mm   | mm  | mm  | g     |
|-------------|------------|-----|-----|-------|
| 645- IS 75  | 0,6 x 3,5  | 75  | 160 | 6 34  |
| 645- IS 100 | 0,8 x 4,0  | 100 | 185 | 6 50  |
| 645- IS 125 | 1,0 x 5,5  | 125 | 220 | 6 105 |
| 645- IS 150 | 1,2 x 6,5  | 150 | 255 | 6 108 |
| 645- IS 175 | 1,6 x 8,0  | 175 | 280 | 6 130 |
| 645- IS 200 | 1,6 x 10,0 | 200 | 315 | 6 195 |
| 645- IS 250 | 2,0 x 12,0 | 250 | 375 | 6 260 |
| 645- IS 300 | 2,0 x 14,0 | 300 | 425 | 6 320 |

| Stock-No. | Contents                                                                                                                            | Blade mm                                                                                                | g      |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------|
| 645 S8    | 1 piece of each No.:<br>645-IS 75<br>645-IS 100<br>645-IS 125<br>645-IS 150<br>645-IS 175<br>645-IS 200<br>645-IS 250<br>645-IS 300 | 0,6 x 3,5<br>0,8 x 4,0<br>1,0 x 5,5<br>1,2 x 6,5<br>1,6 x 8,0<br>1,6 x 10,0<br>2,0 x 12,0<br>2,5 x 14,0 | 1 1200 |

## 659 PROFI-Engineers Screwdriver



|             |                                                                                                             |
|-------------|-------------------------------------------------------------------------------------------------------------|
| Application | for cross slot screws Phillips-Recess                                                                       |
| Type        | blade with hexagon section for spanner drive                                                                |
| Standard    | according to DIN 5265, form B, hexagon according to DIN 475, blade tip according to DIN 5260-PH/ISO 8764-PH |

| Stock-No. | Size  | mm  | mm  | hexagon size mm | g     |
|-----------|-------|-----|-----|-----------------|-------|
| 659- PH 1 | No. 1 | 80  | 170 | 7               | 6 52  |
| 659- PH 2 | No. 2 | 100 | 195 | 10              | 6 86  |
| 659- PH 3 | No. 3 | 150 | 255 | 13              | 6 150 |
| 659- PH 4 | No. 4 | 200 | 325 | 17              | 6 285 |

| Stock-No. | Contents                                                             | Size                             | g     |
|-----------|----------------------------------------------------------------------|----------------------------------|-------|
| 659 S4    | 1 piece of each No.:<br>659-PH 1<br>659-PH 2<br>659-PH 3<br>659-PH 4 | No. 1<br>No. 2<br>No. 3<br>No. 4 | 1 570 |

## 655 PROFI-Chubby Screwdriver



|             |                                                                         |
|-------------|-------------------------------------------------------------------------|
| Application | for cross slot screws Phillips-Recess                                   |
| Standard    | according to DIN 5262, form D, tip according to DIN 5260-PH/ISO 8764-PH |

| Stock-No. | Size  | mm | mm | g    |
|-----------|-------|----|----|------|
| 655- PH 1 | No. 1 | 25 | 80 | 6 28 |
| 655- PH 2 | No. 2 | 25 | 80 | 6 42 |
| 655- PH 3 | No. 3 | 25 | 80 | 6 52 |

## 657 PROFI-Engineers Screwdriver



|             |                                                                         |
|-------------|-------------------------------------------------------------------------|
| Application | for cross slot screws Phillips-Recess                                   |
| Standard    | according to DIN 5262, form B, tip according to DIN 5260-PH/ISO 8764-PH |

| Stock-No.     | Size  | mm  | mm  | g     |
|---------------|-------|-----|-----|-------|
| 657- PH 0     | No. 0 | 60  | 135 | 6 32  |
| 657- PH 1     | No. 1 | 80  | 165 | 6 50  |
| 657- PH 2     | No. 2 | 100 | 195 | 6 82  |
| 657- PH 3     | No. 3 | 150 | 255 | 6 140 |
| 657- PH 4     | No. 4 | 200 | 315 | 6 235 |
| 657- PH 1x300 | No. 1 | 300 | 395 | 6 187 |
| 657- PH 2x300 | No. 2 | 300 | 395 | 6 250 |

| Stock-No. | Contents                                                                         | Size                                      | g     |
|-----------|----------------------------------------------------------------------------------|-------------------------------------------|-------|
| 657 S5    | 1 piece of each No.:<br>657-PH 0<br>657-PH 1<br>657-PH 2<br>657-PH 3<br>657-PH 4 | No. 0<br>No. 1<br>No. 2<br>No. 3<br>No. 4 | 1 539 |

## 654 PROFI-Engineers Screwdriver



|             |                                          |
|-------------|------------------------------------------|
| Application | for cross slot screws Supa-Pozidriv      |
| Type        | with red QUATROLIT® handle               |
| Standard    | tip according to DIN 5260-PZ/ISO 8764-PZ |

| Stock-No. | Size  | mm | mm | g    |
|-----------|-------|----|----|------|
| 654- PZ 1 | No. 1 | 25 | 80 | 6 28 |
| 654- PZ 2 | No. 2 | 25 | 80 | 6 42 |
| 654- PZ 3 | No. 3 | 25 | 80 | 6 52 |

| Stock-No. | Contents                                                 | Size                    | g     |
|-----------|----------------------------------------------------------|-------------------------|-------|
| 654 S3    | 1 piece of each No.:<br>654 PZ 1<br>654 PZ 2<br>654 PZ 3 | No. 1<br>No. 2<br>No. 3 | 1 122 |

## 669 PROFI-Engineers Screwdriver



|             |                                          |
|-------------|------------------------------------------|
| Application | for cross slot screws Supa-Pozidriv      |
| Type        | with red QUATROLIT® handle               |
| Standard    | tip according to DIN 5260-PZ/ISO 8764-PZ |

| Stock-No.     | Size  | mm  | mm  | g |     |
|---------------|-------|-----|-----|---|-----|
| 669- PZ 0     | No. 0 | 60  | 135 | 6 | 32  |
| 669- PZ 1     | No. 1 | 80  | 165 | 6 | 50  |
| 669- PZ 2     | No. 2 | 100 | 195 | 6 | 84  |
| 669- PZ 3     | No. 3 | 150 | 255 | 6 | 140 |
| 669- PZ 4     | No. 4 | 200 | 315 | 6 | 235 |
| 669- PZ 1x300 | No. 1 | 300 | 395 | 6 | 187 |
| 669- PZ 2x300 | No. 2 | 300 | 395 | 6 | 250 |

| Stock-No. | Contents                                                                         | Size                                      | g |     |
|-----------|----------------------------------------------------------------------------------|-------------------------------------------|---|-----|
| 669 S5    | 1 piece of each No.:<br>669-PZ 0<br>669-PZ 1<br>669-PZ 2<br>669-PZ 3<br>669-PZ 4 | No. 0<br>No. 1<br>No. 2<br>No. 3<br>No. 4 | 1 | 541 |

## 575 PROFI Ball End Hexagon Screwdriver



|             |                                                         |
|-------------|---------------------------------------------------------|
| Application | for hexagon socket head cap screws according to DIN 912 |
| Type        | chrome plated hexagon blade, gun metal finish ball end  |
| Standard    | hexagon according to DIN 911/ISO 2936                   |

| Stock-No. | for  | mm  | mm  | g |     |
|-----------|------|-----|-----|---|-----|
| 575- 2    | M2,5 | 100 | 175 | 6 | 25  |
| 575- 2,5  | M3   | 100 | 175 | 6 | 27  |
| 575- 3    | M4   | 100 | 175 | 6 | 30  |
| 575- 4    | M5   | 100 | 185 | 6 | 51  |
| 575- 5    | M6   | 100 | 195 | 6 | 75  |
| 575- 6    | M8   | 125 | 220 | 6 | 90  |
| 575- 8    | M10  | 140 | 255 | 6 | 145 |
| 575- 10   | M12  | 150 | 265 | 6 | 220 |
| 575- 12   | M14  | 150 | 275 | 6 | 310 |

| Stock-No. | Contents                                                                                                         | for                                                           | g |     |
|-----------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---|-----|
| 575 S9    | 1 piece of each No.:<br>575- 2<br>575- 2,5<br>575- 3<br>575- 4<br>575- 5<br>575- 6<br>575- 8<br>575-10<br>575-12 | M 2,5<br>M 3<br>M 4<br>M 5<br>M 6<br>M 8<br>M10<br>M12<br>M14 | 1 | 968 |

## 760 PROFI-Engineers Screwdriver



|             |                                                |
|-------------|------------------------------------------------|
| Application | for inside TORX screws                         |
| Type        | blade chrome plated, with gun metal finish tip |

| Stock-No. | mm   | mm        | for  | g |     |
|-----------|------|-----------|------|---|-----|
| 760TX- 6  | 1,67 | 60 × 135  | M2   | 6 | 30  |
| 760TX- 7  | 1,99 | 60 × 135  | M2,5 | 6 | 32  |
| 760TX- 8  | 2,31 | 60 × 135  | M2,5 | 6 | 33  |
| 760TX- 9  | 2,50 | 60 × 135  | M3   | 6 | 33  |
| 760TX- 10 | 2,74 | 80 × 165  | M3   | 6 | 47  |
| 760TX- 15 | 3,27 | 80 × 165  | M3,5 | 6 | 45  |
| 760TX- 20 | 3,86 | 100 × 185 | M4   | 6 | 50  |
| 760TX- 25 | 4,43 | 100 × 185 | M5   | 6 | 52  |
| 760TX- 27 | 4,99 | 115 × 200 | M5   | 6 | 62  |
| 760TX- 30 | 5,52 | 115 × 200 | M6   | 6 | 70  |
| 760TX- 40 | 6,65 | 130 × 235 | M8   | 6 | 118 |
| 760TX- 45 | 7,82 | 130 × 235 | M8   | 6 | 135 |

| Stock-No. | Contents                                                                                                                                                                     | for                                                                        | g |     |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---|-----|
| 760TX S12 | 1 piece of each No.:<br>760TX- 6<br>760TX- 7<br>760TX- 8<br>760TX- 9<br>760TX- 10<br>760TX- 15<br>760TX- 20<br>760TX- 25<br>760TX- 27<br>760TX- 30<br>760TX- 40<br>760TX- 45 | M2<br>M2,5<br>M2,5<br>M3<br>M3<br>M3,5<br>M4<br>M5<br>M5<br>M6<br>M8<br>M8 | 1 | 710 |

## 761 PROFI-Engineers Screwdriver



|             |                                                                  |
|-------------|------------------------------------------------------------------|
| Application | for inside TORX screws with pin                                  |
| Type        | with bore in tip, blade chrome plated, with gun metal finish tip |

| Stock-No.  | mm   | mm        | for  | g |     |
|------------|------|-----------|------|---|-----|
| 761TTX- 9  | 2,50 | 60 × 135  | M3   | 6 | 33  |
| 761TTX- 10 | 2,74 | 80 × 165  | M3   | 6 | 47  |
| 761TTX- 15 | 3,27 | 80 × 165  | M3,5 | 6 | 45  |
| 761TTX- 20 | 3,86 | 100 × 185 | M4   | 6 | 50  |
| 761TTX- 25 | 4,43 | 100 × 185 | M5   | 6 | 52  |
| 761TTX- 27 | 4,99 | 115 × 200 | M5   | 6 | 62  |
| 761TTX- 30 | 5,52 | 115 × 200 | M6   | 6 | 70  |
| 761TTX- 40 | 6,65 | 130 × 235 | M8   | 6 | 118 |
| 761TTX- 45 | 7,82 | 130 × 235 | M8   | 6 | 135 |

| Stock-No. | Contents                                                                                                                            | for                                            | g |     |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---|-----|
| 761TTX S8 | 1 piece of each No.:<br>761TTX- 9<br>761TTX- 10<br>761TTX- 15<br>761TTX- 20<br>761TTX- 27<br>761TTX- 30<br>761TTX- 40<br>761TTX- 45 | M3<br>M3<br>M3,5<br>M4<br>M5<br>M6<br>M8<br>M8 | 1 | 560 |

## 760S 761S PROFI-Engineers Screwdriver Set



| Type        | packed in environmentally-friendly and recyclable carton |                                                                                       |   |     |  |
|-------------|----------------------------------------------------------|---------------------------------------------------------------------------------------|---|-----|--|
| Stock-No.   | Contents                                                 |                                                                                       |   |     |  |
| 760STX- 7K  | 1 piece of each No.:                                     | 760TX- 8;                                                                             | 1 | 468 |  |
|             |                                                          | 760TX- 9;<br>760TX- 10;<br>760TX- 15;<br>760TX- 20;<br>760TX- 25;<br>760TX- 30        |   |     |  |
| 761STTX- 7K | 1 piece of each No.:                                     | 761TTX- 10;                                                                           | 1 | 545 |  |
|             |                                                          | 761TTX- 15;<br>761TTX- 20;<br>761TTX- 25;<br>761TTX- 27;<br>761TTX- 30;<br>761TTX- 40 |   |     |  |

## 573 PROFI-Engineers Ball End TORX Screwdriver



| Application | for inside TORX screws, for use in awkward areas, swivel angle up to 30° |           |      |   |     |
|-------------|--------------------------------------------------------------------------|-----------|------|---|-----|
| Type        | blade chrome plated, with gun metal finish tip                           |           |      |   |     |
| Stock-No.   |                                                                          |           | for  |   |     |
|             | mm                                                                       | mm        | mm   |   | g   |
| 573- 9      | 2,50                                                                     | 60 × 135  | M3   | 6 | 33  |
| 573- 10     | 2,74                                                                     | 80 × 165  | M3   | 6 | 47  |
| 573- 15     | 3,27                                                                     | 80 × 165  | M3,5 | 6 | 45  |
| 573- 20     | 3,86                                                                     | 100 × 185 | M4   | 6 | 50  |
| 573- 25     | 4,43                                                                     | 100 × 185 | M5   | 6 | 52  |
| 573- 27     | 4,99                                                                     | 115 × 200 | M5   | 6 | 62  |
| 573- 30     | 5,52                                                                     | 115 × 200 | M6   | 6 | 70  |
| 573- 40     | 6,65                                                                     | 130 × 235 | M8   | 6 | 118 |
| 573- 45     | 7,82                                                                     | 130 × 235 | M8   | 6 | 135 |
| Stock-No.   | Contents                                                                 | for       |      |   |     |
|             |                                                                          | mm        |      |   | g   |
| 573 S9      | 1 piece of each No.:                                                     | 573- 9    | M3   | 1 | 615 |
|             |                                                                          | 573- 10   | M3   |   |     |
|             |                                                                          | 573- 15   | M3,5 |   |     |
|             |                                                                          | 573- 20   | M4   |   |     |
|             |                                                                          | 573- 25   | M5   |   |     |
|             |                                                                          | 573- 27   | M5   |   |     |
|             |                                                                          | 573- 30   | M6   |   |     |
|             |                                                                          | 573- 40   | M8   |   |     |
|             |                                                                          | 573- 45   | M8   |   |     |

## 679S 688S 689S PROFI-Engineers Screwdriver Sets



| Type      | packed in environmentally-friendly and recyclable cartons |                |           |   |     |
|-----------|-----------------------------------------------------------|----------------|-----------|---|-----|
| Stock-No. | Contents                                                  | Blade and Size |           |   |     |
| 679 S5-K  | 1 piece of each No.:                                      | 639-IS 100     | 1,0 × 5,5 | 1 | 590 |
|           |                                                           | 639-IS 125     | 1,2 × 6,5 |   |     |
| 688 S5-K  | 1 piece of each No.:                                      | 639-IS 150     | 1,2 × 8,0 | 1 | 378 |
|           |                                                           | 659-PH 1       | No. 1     |   |     |
| 689 S5-K  | 1 piece of each No.:                                      | 659-PH 2       | No. 2     | 1 | 420 |
|           |                                                           | 649-IS 75      | 0,5 × 3,0 |   |     |
|           |                                                           | 649-IS 100     | 0,6 × 3,5 |   |     |
|           |                                                           | 649-IS 150     | 1,0 × 5,5 |   |     |
|           |                                                           | 657-PH 1       | No. 1     |   |     |
|           |                                                           | 657-PH 2       | No. 2     |   |     |

## 671S 672S 674S PROFI-Engineers Screwdriver Sets



| Type      | packed in environmentally-friendly and recyclable cartons |                |            |   |     |
|-----------|-----------------------------------------------------------|----------------|------------|---|-----|
| Stock-No. | Contents                                                  | Blade and Size |            |   |     |
| 671 S7-K  | 1 piece of each No.:                                      | 639-IS 100     | 1,0 × 5,5  | 1 | 870 |
|           |                                                           | 639-IS 125     | 1,2 × 6,5  |   |     |
| 672 S7-K  | 1 piece of each No.:                                      | 639-IS 150     | 1,2 × 8,0  | 1 | 715 |
|           |                                                           | 639-IS 175     | 1,6 × 10,0 |   |     |
| 674 S7-K  | 1 piece of each No.:                                      | 659-PH 1       | No. 1      | 1 | 625 |
|           |                                                           | 659-PH 2       | No. 2      |   |     |
|           |                                                           | 645-IS 100     | 0,8 × 4,0  |   |     |
|           |                                                           | 645-IS 125     | 1,0 × 5,5  |   |     |
|           |                                                           | 645-IS 150     | 1,2 × 6,5  |   |     |
|           |                                                           | 645-IS 175     | 1,6 × 8,0  |   |     |
|           |                                                           | 645-IS 200     | 1,6 × 10,0 |   |     |
|           |                                                           | 657-PH 1       | No. 1      |   |     |
|           |                                                           | 657-PH 2       | No. 2      |   |     |



## 680S PROFI-Engineers Screwdriver Set



| Type          | in plastic box, size: 310 × 115 × 30 mm |                |           |     |   |
|---------------|-----------------------------------------|----------------|-----------|-----|---|
| Stock-No.     | Contents                                | Blade and Size |           |     | g |
| <b>680 S6</b> | 1 piece of each No.:                    |                | 1         | 680 |   |
|               |                                         | 645-IS 100     | 0,8 × 4,0 |     |   |
|               |                                         | 645-IS 125     | 1,0 × 5,5 |     |   |
|               |                                         | 645-IS 150     | 1,2 × 6,5 |     |   |
|               |                                         | 657-PH 1       | No. 1     |     |   |
|               |                                         | 657-PH 2       | No. 2     |     |   |
|               |                                         | 643-IS 45      | 0,6 × 3,5 |     |   |

## 699S PROFI-Engineers Screwdriver Dispenser



| Type            | with 102 PROFI-Engineers screwdrivers; size: 620 × 300 × 350 mm |                |            |    |    |
|-----------------|-----------------------------------------------------------------|----------------|------------|----|----|
| Material        | made from transparent acrylic sheeting                          |                |            |    |    |
| Stock-No.       | Contents                                                        | Blade and Size |            |    | kg |
| <b>699 S102</b> | 6 piece of each No.:                                            |                | 1          | 14 |    |
|                 |                                                                 | 639-IS 100     | 1,0 × 5,5  |    |    |
|                 |                                                                 | 639-IS 125     | 1,2 × 6,5  |    |    |
|                 |                                                                 | 639-IS 150     | 1,2 × 8,0  |    |    |
|                 |                                                                 | 639-IS 175     | 1,6 × 10,0 |    |    |
|                 |                                                                 | 639-IS 200     | 2,0 × 12,0 |    |    |
|                 |                                                                 | 649-IS 75      | 0,5 × 3,0  |    |    |
|                 |                                                                 | 649-IS 100     | 0,6 × 3,5  |    |    |
|                 |                                                                 | 649-IS 150     | 1,0 × 5,5  |    |    |
|                 |                                                                 | 647-IS 75      | 0,5 × 3,0  |    |    |
|                 |                                                                 | 647-IS 100     | 0,6 × 3,5  |    |    |
|                 |                                                                 | 647-IS 150     | 1,0 × 5,0  |    |    |
|                 |                                                                 | 657-PH 0       | No. 0      |    |    |
|                 |                                                                 | 657-PH 1       | No. 1      |    |    |
|                 |                                                                 | 657-PH 2       | No. 2      |    |    |
|                 |                                                                 | 657-PH 3       | No. 3      |    |    |
|                 |                                                                 | 669-PZ 1       | No. 1      |    |    |
|                 |                                                                 | 669-PZ 2       | No. 2      |    |    |

Screwdrivers Stock-No. 649 and 647 can be found in chapter "Fine Mechanics and Electricians' Tools".

## MS-31 Module



| Application  | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |            |                       |   |  |
|--------------|------------------------------------------------------------------------------------------------------|------------|-----------------------|---|--|
| Type         | Black, with transparent cover                                                                        |            |                       |   |  |
| Material     | ABS                                                                                                  |            |                       |   |  |
| Stock-No.    | Contents                                                                                             |            |                       | g |  |
| <b>MS-31</b> | PROFI-Screwdrivers                                                                                   | 1          | 600                   |   |  |
|              |                                                                                                      | 649-IS 75  | Engineers screwdriver |   |  |
|              |                                                                                                      | 639-IS 100 | Engineers screwdriver |   |  |
|              |                                                                                                      | 639-IS 125 | Engineers screwdriver |   |  |
|              |                                                                                                      | 639-IS 150 | Engineers screwdriver |   |  |
|              |                                                                                                      | 659-PH 1   | Engineers screwdriver |   |  |
|              |                                                                                                      | 659-PH 2   | Engineers screwdriver |   |  |
|              |                                                                                                      | 655-PH 2   | Chubby screwdriver    |   |  |
|              |                                                                                                      | 643-IS 60  | Chubby screwdriver    |   |  |
|              |                                                                                                      |            |                       |   |  |
|              |                                                                                                      |            |                       |   |  |
|              |                                                                                                      |            |                       |   |  |

## MS-33 Module



| Application  | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |            |                       |   |  |
|--------------|------------------------------------------------------------------------------------------------------|------------|-----------------------|---|--|
| Type         | Black, with transparent cover                                                                        |            |                       |   |  |
| Material     | ABS                                                                                                  |            |                       |   |  |
| Stock-No.    | Contents                                                                                             |            |                       | g |  |
| <b>MS-33</b> | PROFI-Screwdrivers                                                                                   | 1          | 600                   |   |  |
|              |                                                                                                      | 649-IS 75  | Engineers screwdriver |   |  |
|              |                                                                                                      | 639-IS 100 | Engineers screwdriver |   |  |
|              |                                                                                                      | 639-IS 125 | Engineers screwdriver |   |  |
|              |                                                                                                      | 639-IS 150 | Engineers screwdriver |   |  |
|              |                                                                                                      | 669-PZ 1   | Engineers screwdriver |   |  |
|              |                                                                                                      | 669-PZ 2   | Engineers screwdriver |   |  |
|              |                                                                                                      | 643-IS 60  | Chubby screwdriver    |   |  |
|              |                                                                                                      | 654-PZ 2   | Chubby screwdriver    |   |  |
|              |                                                                                                      |            |                       |   |  |
|              |                                                                                                      |            |                       |   |  |
|              |                                                                                                      |            |                       |   |  |

## MS-34 Module



| Application  | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |            |                       |   |  |
|--------------|------------------------------------------------------------------------------------------------------|------------|-----------------------|---|--|
| Type         | Black, with transparent cover                                                                        |            |                       |   |  |
| Material     | ABS                                                                                                  |            |                       |   |  |
| Stock-No.    | Contents                                                                                             |            |                       | g |  |
| <b>MS-34</b> | PROFI-Screwdrivers                                                                                   | 1          | 550                   |   |  |
|              |                                                                                                      | 645-IS 75  | Engineers screwdriver |   |  |
|              |                                                                                                      | 645-IS 100 | Engineers screwdriver |   |  |
|              |                                                                                                      | 645-IS 125 | Engineers screwdriver |   |  |
|              |                                                                                                      | 645-IS 150 | Engineers screwdriver |   |  |
|              |                                                                                                      | 657-PH 1   | Engineers screwdriver |   |  |
|              |                                                                                                      | 657-PH 2   | Engineers screwdriver |   |  |
|              |                                                                                                      | 643-IS 60  | Chubby screwdriver    |   |  |
|              |                                                                                                      | 655-PH 2   | Chubby screwdriver    |   |  |
|              |                                                                                                      |            |                       |   |  |
|              |                                                                                                      |            |                       |   |  |
|              |                                                                                                      |            |                       |   |  |

## MS-35 Module



|             |                                                                                                      |                       |     |
|-------------|------------------------------------------------------------------------------------------------------|-----------------------|-----|
| Application | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |                       |     |
| Type        | Black, with transparent cover                                                                        |                       |     |
| Material    | ABS                                                                                                  |                       |     |
| Stock-No.   | Contents                                                                                             |                       |     |
| MS-35       | PROFI-Screwdrivers                                                                                   | 1                     | 650 |
|             | 645-IS 75                                                                                            | Engineers screwdriver |     |
|             | 645-IS 100                                                                                           | Engineers screwdriver |     |
|             | 645-IS 125                                                                                           | Engineers screwdriver |     |
|             | 645-IS 150                                                                                           | Engineers screwdriver |     |
|             | 669-PZ 1                                                                                             | Engineers screwdriver |     |
|             | 669-PZ 2                                                                                             | Engineers screwdriver |     |
|             | 643-IS 60                                                                                            | Chubby screwdriver    |     |
|             | 654-PZ 2                                                                                             | Chubby screwdriver    |     |

## 698S PROFI-Engineers Screwdriver Dispenser



|             |                                                            |                |            |
|-------------|------------------------------------------------------------|----------------|------------|
| Application | for display on tool bar (complete with bolts and nuts)     |                |            |
| Type        | with 310 PROFI-Engineers screwdrivers, size: 980×200×60 mm |                |            |
| Material    | made from transparent acrylic sheeting                     |                |            |
| Stock-No.   | Contents                                                   | Blade and Size |            |
| 698 S310    | 10                                                         | 643-IS 60      | 1,0 × 5,5  |
|             | 10                                                         | 655-PH 2       | No. 2      |
|             | 12                                                         | 649-IS 75      | 0,5 × 3,0  |
|             | 12                                                         | 649-IS 100     | 0,6 × 3,5  |
|             | 10                                                         | 649-IS 150     | 1,0 × 5,5  |
|             | 12                                                         | 647-IS 75      | 0,5 × 3,0  |
|             | 12                                                         | 647-IS 100     | 0,6 × 3,5  |
|             | 10                                                         | 647-IS 150     | 1,0 × 5,0  |
|             | 10                                                         | 669-PZ 1       | No. 1      |
|             | 10                                                         | 669-PZ 2       | No. 2      |
|             | 12                                                         | 657-PH 0       | No. 0      |
|             | 10                                                         | 657-PH 1       | No. 1      |
|             | 10                                                         | 657-PH 2       | No. 2      |
|             | 8                                                          | 657-PH 3       | No. 3      |
|             | 10                                                         | 639-IS 100     | 1,0 × 5,5  |
|             | 10                                                         | 639-IS 125     | 1,2 × 6,5  |
|             | 8                                                          | 639-IS 150     | 1,2 × 8,0  |
|             | 8                                                          | 639-IS 175     | 1,6 × 10,0 |
|             | 8                                                          | 639-IS 200     | 2,0 × 12,0 |
|             | 12                                                         | 636-IS 90      | 0,8 × 4,5  |
|             | 12                                                         | 636-IS 100     | 1,0 × 5,5  |
|             | 10                                                         | 636-IS 125     | 1,0 × 7,0  |
|             | 10                                                         | 636-IS 150     | 1,2 × 9,0  |
|             | 10                                                         | 636-IS 175     | 1,6 × 10,0 |
|             | 10                                                         | 636-IS 200     | 2,0 × 12,0 |
|             | 12                                                         | 656-PH 1       | No. 1      |
|             | 10                                                         | 656-PH 2       | No. 2      |
|             | 10                                                         | 656-PH 3       | No. 3      |
|             | 12                                                         | 658-PZ 1       | No. 1      |
|             | 10                                                         | 658-PZ 2       | No. 2      |

Screwdrivers Stock-No. 649 and 647 can be found in chapter "Fine Mechanics and Electricians' Tools".

## ELORA Screwdriver with wooden handle

Screwdriver with blade throughout the wooden handle and leather cap  
Blade with hexagon bolster for spanner drive  
Standard: according to DIN 475

## 636 Engineers Screwdriver



|             |                                           |            |            |
|-------------|-------------------------------------------|------------|------------|
| Application | for plain slot screws                     |            |            |
| Standard    | blade edge according to DIN 5264/ISO 2380 |            |            |
| Stock-No.   | Blade mm                                  | mm         | mm         |
| 636-IS 75   | 0,6 × 3,5                                 | 75         | 170        |
| 636-IS 90   | 0,8 × 4,5                                 | 90         | 185        |
| 636-IS 100  | 1,0 × 5,5                                 | 100        | 200        |
| 636-IS 125  | 1,0 × 7,0                                 | 125        | 235        |
| 636-IS 150  | 1,2 × 9,0                                 | 150        | 270        |
| 636-IS 175  | 1,6 × 10,0                                | 175        | 300        |
| 636-IS 200  | 2,0 × 12,0                                | 200        | 330        |
| 636-IS 250  | 2,5 × 14,0                                | 250        | 390        |
| Stock-No.   | Contents                                  | Blade mm   |            |
| 636 S8      | 1 piece of each No.:                      | 636-IS 75  | 0,6 × 3,5  |
|             |                                           | 636-IS 90  | 0,8 × 4,5  |
|             |                                           | 636-IS 100 | 1,0 × 5,5  |
|             |                                           | 636-IS 125 | 1,0 × 7,0  |
|             |                                           | 636-IS 150 | 1,2 × 9,0  |
|             |                                           | 636-IS 175 | 1,6 × 10,0 |
|             |                                           | 636-IS 200 | 2,0 × 12,0 |
|             |                                           | 636-IS 250 | 2,5 × 14,0 |

## 656 Engineers Screwdriver



|             |                                          |          |       |
|-------------|------------------------------------------|----------|-------|
| Application | for cross slot screws Phillips-Recess    |          |       |
| Standard    | tip according to DIN 5260-PH/ISO 8764-PH |          |       |
| Stock-No.   | Size                                     | mm       | mm    |
| 656-PH 1    | No. 1                                    | 85       | 180   |
| 656-PH 2    | No. 2                                    | 100      | 210   |
| 656-PH 3    | No. 3                                    | 150      | 270   |
| 656-PH 4    | No. 4                                    | 200      | 330   |
| Stock-No.   | Contents                                 | Size     |       |
| 656 S4      | 1 piece of each No.:                     | 656-PH 1 | No. 1 |
|             |                                          | 656-PH 2 | No. 2 |
|             |                                          | 656-PH 3 | No. 3 |
|             |                                          | 656-PH 4 | No. 4 |

## 658 Engineers Screwdriver



| Application | for cross slot screws Supa-Pozidriv                                  |                                  |     |                 |   |     |
|-------------|----------------------------------------------------------------------|----------------------------------|-----|-----------------|---|-----|
| Standard    | tip according to DIN 5260-PZ/ISO 8764-PZ                             |                                  |     |                 |   |     |
| Stock-No.   | Size                                                                 | mm                               | mm  | hexagon size mm |   | g   |
| 658-PZ 1    | No. 1                                                                | 85                               | 180 | 7               | 6 | 50  |
| 658-PZ 2    | No. 2                                                                | 100                              | 210 | 10              | 6 | 85  |
| 658-PZ 3    | No. 3                                                                | 150                              | 270 | 13              | 6 | 165 |
| 658-PZ 4    | No. 4                                                                | 200                              | 330 | 17              | 6 | 290 |
| Stock-No.   | Contents                                                             | Size                             |     |                 |   | g   |
| 658 S4      | 1 piece of each No.:<br>658-PZ 1<br>658-PZ 2<br>658-PZ 3<br>658-PZ 4 | No. 1<br>No. 2<br>No. 3<br>No. 4 |     | 1               |   | 590 |

## MS-40 Module



| Application | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |                       |  |  |  |     |
|-------------|------------------------------------------------------------------------------------------------------|-----------------------|--|--|--|-----|
| Type        | Black, with transparent cover                                                                        |                       |  |  |  |     |
| Material    | ABS                                                                                                  |                       |  |  |  |     |
| Stock-No.   | Contents                                                                                             |                       |  |  |  | g   |
| MS-40       | Screwdrivers with wooden handle                                                                      | 1                     |  |  |  | 500 |
|             | 636-IS 75                                                                                            | Engineers screwdriver |  |  |  |     |
|             | 636-IS 90                                                                                            | Engineers screwdriver |  |  |  |     |
|             | 636-IS 100                                                                                           | Engineers screwdriver |  |  |  |     |
|             | 636-IS 125                                                                                           | Engineers screwdriver |  |  |  |     |
|             | 656-PH 1                                                                                             | Engineers screwdriver |  |  |  |     |
|             | 656-PH 2                                                                                             | Engineers screwdriver |  |  |  |     |

## 676S/677S Engineers Screwdriver Sets



| Type      | packed in environmentally-friendly and recyclable carton                               |                                                       |  |   |  |     |
|-----------|----------------------------------------------------------------------------------------|-------------------------------------------------------|--|---|--|-----|
| Stock-No. | Contents                                                                               | Blade and Size                                        |  |   |  | g   |
| 676 S5-K  | 1 piece of each No.:<br>636-IS 100<br>636-IS 125<br>636-IS 150<br>656-PH 1<br>656-PH 2 | 1,0 x 5,5<br>1,0 x 7,0<br>1,2 x 9,0<br>No. 1<br>No. 2 |  | 1 |  | 600 |
| 677 S5-K  | 1 piece of each No.:<br>636-IS 100<br>636-IS 125<br>636-IS 150<br>658-PZ 1<br>658-PZ 2 | 1,0 x 5,5<br>1,0 x 7,0<br>1,2 x 9,0<br>No. 1<br>No. 2 |  | 1 |  | 600 |

## MS-41 Module



| Application | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |                       |  |  |  |     |
|-------------|------------------------------------------------------------------------------------------------------|-----------------------|--|--|--|-----|
| Type        | Black, with transparent cover                                                                        |                       |  |  |  |     |
| Material    | ABS                                                                                                  |                       |  |  |  |     |
| Stock-No.   | Contents                                                                                             |                       |  |  |  | g   |
| MS-41       | Screwdrivers with wooden handle                                                                      | 1                     |  |  |  | 500 |
|             | 636-IS 75                                                                                            | Engineers screwdriver |  |  |  |     |
|             | 636-IS 90                                                                                            | Engineers screwdriver |  |  |  |     |
|             | 636-IS 100                                                                                           | Engineers screwdriver |  |  |  |     |
|             | 636-IS 125                                                                                           | Engineers screwdriver |  |  |  |     |
|             | 658-PZ 1                                                                                             | Engineers screwdriver |  |  |  |     |
|             | 658-PZ 2                                                                                             | Engineers screwdriver |  |  |  |     |

## 670S/673S Engineers Screwdriver Sets



| Type      | packed in environmentally-friendly and recyclable carton                                                          |                                                                                  |  |   |  |     |
|-----------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--|---|--|-----|
| Stock-No. | Contents                                                                                                          | Blade and Size                                                                   |  |   |  | g   |
| 670 S7-K  | 1 piece of each No.:<br>636-IS 90<br>636-IS 100<br>636-IS 125<br>636-IS 150<br>636-IS 175<br>656-PH 1<br>656-PH 2 | 0,8 x 4,5<br>1,0 x 5,5<br>1,0 x 7,0<br>1,2 x 9,0<br>1,6 x 10,0<br>No. 1<br>No. 2 |  | 1 |  | 850 |
| 673 S7-K  | 1 piece of each No.:<br>636-IS 90<br>636-IS 100<br>636-IS 125<br>636-IS 150<br>636-IS 175<br>658-PZ1<br>658-PZ2   | 0,8 x 4,5<br>1,0 x 5,5<br>1,0 x 7,0<br>1,2 x 9,0<br>1,6 x 10,0<br>No. 1<br>No. 2 |  | 1 |  | 850 |





## **ELORA SAFETY TOOLS – MADE IN GERMANY SOME APPLICATION REQUIRE MORE THAN JUST A GOOD FEELING.**

This range has been optimised with the 2 component technic. The new VDE pliers provide more comfort and better power transmission.

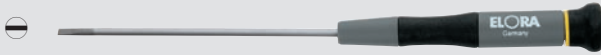
### **FINE MECHANICS, ELECTRICIANS AND VDE TOOLS**

**07**



## Screwdrivers

## 600 Electronic Screwdriver



|             |                                                                                                                |
|-------------|----------------------------------------------------------------------------------------------------------------|
| Application | for smallest plain slot screws                                                                                 |
| Type        | dull chrome plated blade with grey tip, two component handle with revolving head, slip resistant micro surface |
| Material    | Chrome-Molybdenum 73 MoV 5, Code No. 1.2381                                                                    |
| Standard    | blade up to 2,0 × 60 acc. to DIN 8320, up to 4,0 × 150 acc. to DIN 5264                                        |

| Stock-No.        | Blade<br>mm |  |  |  | <br>g |
|------------------|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 600- IS 1,2× 60  | 0,25 × 1,2  | 60                                                                                | 153                                                                               | 6                                                                                 | 11                                                                                     |
| 600- IS 1,5× 60  | 0,23 × 1,5  | 60                                                                                | 153                                                                               | 6                                                                                 | 11                                                                                     |
| 600- IS 1,8× 60  | 0,3 × 1,8   | 60                                                                                | 153                                                                               | 6                                                                                 | 11                                                                                     |
| 600- IS 2,0× 60  | 0,4 × 2,0   | 60                                                                                | 153                                                                               | 6                                                                                 | 11                                                                                     |
| 600- IS 2,5× 75  | 0,4 × 2,5   | 75                                                                                | 168                                                                               | 6                                                                                 | 12                                                                                     |
| 600- IS 3,0× 100 | 0,5 × 3,0   | 100                                                                               | 193                                                                               | 6                                                                                 | 16                                                                                     |
| 600- IS 3,0× 150 | 0,5 × 3,0   | 150                                                                               | 243                                                                               | 6                                                                                 | 19                                                                                     |
| 600- IS 3,5× 100 | 0,6 × 3,5   | 100                                                                               | 193                                                                               | 6                                                                                 | 20                                                                                     |
| 600- IS 4,0× 100 | 0,8 × 4,0   | 100                                                                               | 193                                                                               | 6                                                                                 | 24                                                                                     |
| 600- IS 4,0× 150 | 0,8 × 4,0   | 150                                                                               | 243                                                                               | 6                                                                                 | 31                                                                                     |

| Stock-No. | Contents:<br>1 piece of each                                                                                       |  | <br>g |
|-----------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 600 S10   | 600-IS: 1,2 × 60 1,5 × 60<br>1,8 × 60 2,0 × 60<br>2,5 × 75 3,0 × 100<br>3,0 × 150 3,5 × 100<br>4,0 × 100 4,0 × 150 | 1                                                                                   | 196                                                                                      |

## 610 Electronic Screwdriver



|             |                                                                                                                |
|-------------|----------------------------------------------------------------------------------------------------------------|
| Application | for smallest cross slot screws Phillips-Recess                                                                 |
| Type        | dull chrome plated blade with grey tip, two component handle with revolving head, slip resistant micro surface |
| Material    | Chrome-Molybdenum 73 MoV 5, Code No. 1.2381                                                                    |
| Standard    | blade sizes 0 and 1 according to DIN 5260/PH                                                                   |

| Stock-No.   | Size<br> |  |  |  | <br>g |
|-------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 610- PH 000 | No. 000                                                                                     | 60                                                                                  | 153                                                                                 | 6                                                                                   | 12                                                                                       |
| 610- PH 00  | No. 00                                                                                      | 60                                                                                  | 153                                                                                 | 6                                                                                   | 12                                                                                       |
| 610- PH 0   | No. 0                                                                                       | 60                                                                                  | 153                                                                                 | 6                                                                                   | 13                                                                                       |
| 610- PH 1   | No. 1                                                                                       | 80                                                                                  | 173                                                                                 | 6                                                                                   | 23                                                                                       |

| Stock-No. | Contents:<br>1 piece of each | Size          |  | <br>g |
|-----------|------------------------------|---------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 610 S4    | 610-PH                       | 000; 00; 0; 1 | 1                                                                                   | 82                                                                                       |

## 613 Electronic Screwdriver Sets

614  
615

| Type      | in environmentally-friendly and recyclable carton |                                                                                             |                                                                                                                                                        |                                                                                     |                                                                                          |
|-----------|---------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Stock-No. | Contents                                          |                                                                                             |                                                                                                                                                        |  | <br>g |
| 613 S6- K | 1 of each                                         |  600-IS: | 1,2 × 60<br>1,5 × 60<br>2,0 × 60<br>2,5 × 75<br>3,0 × 100<br>3,5 × 100                                                                                 | 1                                                                                   | 151                                                                                      |
| 614 S6- K | 1 of each                                         |  600-IS  | 1,2 × 60<br>1,5 × 60<br>2,0 × 60<br>2,5 × 75<br> 610-PH: No. 00; 0  | 1                                                                                   | 139                                                                                      |
| 615 S6- K | 1 of each                                         |  600-IS  | 2,0 × 60<br>2,5 × 75<br>3,0 × 100<br>3,5 × 100<br> 610-PH: No. 0; 1 | 1                                                                                   | 175                                                                                      |

## 612 Electronic Screwdriver



|             |                                                                                                                |
|-------------|----------------------------------------------------------------------------------------------------------------|
| Application | for smallest cross slot screws Supa-Pozidriv                                                                   |
| Type        | dull chrome plated blade with grey tip, two component handle with revolving head, slip resistant micro surface |
| Material    | Chrome-Molybdenum 73 MoV 5, Code No. 1.2381                                                                    |
| Standard    | blade size 0 and 1 according to DIN 5260/PZ                                                                    |

| Stock-No. | Size<br> |  |  |  | <br>g |
|-----------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 612- PZ 0 | No. 0                                                                                       | 60                                                                                    | 153                                                                                   | 6                                                                                     | 13                                                                                         |
| 612- PZ 1 | No. 1                                                                                       | 80                                                                                    | 173                                                                                   | 6                                                                                     | 23                                                                                         |

| Stock-No. | Contents:<br>1 piece of each | Size |  | <br>g |
|-----------|------------------------------|------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 612 S2    | 612-PZ                       | 0; 1 | 1                                                                                     | 56                                                                                         |

## 620TX Electronic Screwdriver



| Application | for smallest inside TORX-screws                                                                                |                           |    |     |     |
|-------------|----------------------------------------------------------------------------------------------------------------|---------------------------|----|-----|-----|
| Type        | dull chrome plated blade with grey tip, two component handle with revolving head, slip resistant micro surface |                           |    |     |     |
| Material    | Chrome-Molybdenum 73 MoV 5, Code No. 1.2381                                                                    |                           |    |     |     |
| Stock-No.   | Blade mm                                                                                                       | Size                      | mm | mm  | g   |
| 620-TX 5    | 1,42                                                                                                           | 5                         | 60 | 153 | 6   |
| 620-TX 6    | 1,67                                                                                                           | 6                         | 60 | 153 | 6   |
| 620-TX 7    | 1,99                                                                                                           | 7                         | 60 | 153 | 6   |
| 620-TX 8    | 2,31                                                                                                           | 8                         | 60 | 153 | 6   |
| 620-TX 9    | 2,50                                                                                                           | 9                         | 60 | 153 | 6   |
| 620-TX 10   | 2,74                                                                                                           | 10                        | 60 | 153 | 6   |
| 620-TX 15   | 3,27                                                                                                           | 15                        | 60 | 153 | 6   |
| 620-TX 20   | 3,86                                                                                                           | 20                        | 80 | 173 | 6   |
| Stock-No.   | Contents:                                                                                                      | Size                      |    |     | g   |
|             | 1 piece of each                                                                                                |                           |    |     |     |
| 620-TXS 8   | 620-TX                                                                                                         | 5, 6, 7, 8, 9, 10, 15, 20 |    | 1   | 115 |

## 649 Profi Electricians Screwdriver



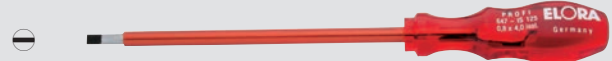
| Application | for plain slot screws               |                                      |     |   |     |
|-------------|-------------------------------------|--------------------------------------|-----|---|-----|
| Type        | with QUATROLIT® handle              |                                      |     |   |     |
| Standard    | blade according to DIN 5264, form B |                                      |     |   |     |
| Stock-No.   | Blade mm                            | mm                                   | mm  |   | g   |
| 649-IS 60   | 0,4 × 2,5                           | 60                                   | 135 | 6 | 30  |
| 649-IS 75   | 0,5 × 3,0                           | 75                                   | 150 | 6 | 32  |
| 649-IS 100  | 0,6 × 3,5                           | 100                                  | 175 | 6 | 36  |
| 649-IS 108  | 0,8 × 4,0                           | 100                                  | 175 | 6 | 40  |
| 649-IS 125  | 1,0 × 5,5                           | 125                                  | 200 | 6 | 60  |
| 649-IS 150  | 1,0 × 5,5                           | 150                                  | 235 | 6 | 66  |
| 649-IS 175  | 1,0 × 5,5                           | 175                                  | 260 | 6 | 70  |
| 649-IS 200  | 1,0 × 5,5                           | 200                                  | 295 | 6 | 84  |
| Stock-No.   | Contents:                           | Size                                 |     |   | g   |
|             | 1 piece of each                     |                                      |     |   |     |
| 649-S8      | 649-IS                              | 60, 75, 100, 108, 125, 150, 175, 200 |     | 1 | 418 |

## 563 Mains Testing Screwdriver



| Application | up to 230 V                                          |     |     |   |    |
|-------------|------------------------------------------------------|-----|-----|---|----|
| Type        | with brass cap, transparent handle, insulated blade  |     |     |   |    |
| Material    | blade made from high grade tool steel, nickel plated |     |     |   |    |
| Standard    | GS-tested                                            |     |     |   |    |
| Stock-No.   | Blade mm                                             | mm  | mm  |   | g  |
| 563         | 0,5 × 3,5                                            | 100 | 190 | 6 | 34 |

## 647 Profi Electricians Screwdriver



| Application | for plain slot screws                      |                                 |     |   |     |
|-------------|--------------------------------------------|---------------------------------|-----|---|-----|
| Type        | with QUATROLIT® handle and insulated blade |                                 |     |   |     |
| Standard    | blade according to DIN 5264, form B        |                                 |     |   |     |
| Stock-No.   | Blade mm                                   | mm                              | mm  |   | g   |
| 647-IS 60   | 0,4 × 2,5                                  | 60                              | 135 | 6 | 32  |
| 647-IS 75   | 0,5 × 3,0                                  | 75                              | 150 | 6 | 34  |
| 647-IS 100  | 0,6 × 3,5                                  | 100                             | 175 | 6 | 38  |
| 647-IS 125  | 0,8 × 4,0                                  | 125                             | 200 | 6 | 63  |
| 647-IS 150  | 1,0 × 5,0                                  | 150                             | 235 | 6 | 68  |
| 647-IS 175  | 1,0 × 5,0                                  | 175                             | 260 | 6 | 72  |
| 647-IS 200  | 1,0 × 5,0                                  | 200                             | 295 | 6 | 90  |
| Stock-No.   | Contents:                                  | Size                            |     |   | g   |
|             | 1 piece of each                            |                                 |     |   |     |
| 647-S7      | 647-IS                                     | 60, 75, 100, 125, 150, 175, 200 |     | 1 | 397 |

## 561 Mains Testing Screwdriver



| Application | up to 230 V                                                                 |    |     |   |    |
|-------------|-----------------------------------------------------------------------------|----|-----|---|----|
| Type        | with metal clip, lens, red plastic cap, transparent handle, insulated blade |    |     |   |    |
| Material    | blade made from high grade tool steel, nickel plated                        |    |     |   |    |
| Standard    | GS-tested                                                                   |    |     |   |    |
| Stock-No.   | Blade mm                                                                    | mm | mm  |   | g  |
| 561         | 0,3 × 3                                                                     | 65 | 140 | 6 | 15 |

## 562 Mains Testing Screwdriver



| Application | up to 230 V                                                                                      |    |     |   |    |
|-------------|--------------------------------------------------------------------------------------------------|----|-----|---|----|
| Type        | with metal clip, lens, red plastic cap and blade protection, transparent handle, insulated blade |    |     |   |    |
| Material    | blade made from high grade tool steel, nickel plated                                             |    |     |   |    |
| Standard    | GS-tested                                                                                        |    |     |   |    |
| Stock-No.   | Blade mm                                                                                         | mm | mm  |   | g  |
| 562         | 0,3 × 3                                                                                          | 45 | 120 | 6 | 18 |

## TOP-KRAFT-Pliers

## 431 - 434 Electronics Diagonal Cutter



Type spring loaded handles, short pattern, round cutting head, black finish, insulated red handles

Material high grade tool steel C 60, Code No. 1.0601

| Stock-No. |                                  | mm  |  |  | g  |
|-----------|----------------------------------|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|
| 431       | with bevel edge                  | 110 | 1                                                                                 |                                                                                   | 62 |
| 432       | without bevel edge               | 110 | 1                                                                                 |                                                                                   | 64 |
| 433       | without bevel edge, handles bent | 110 | 1                                                                                 |                                                                                   | 62 |
| 434       | with bevel edge and wire clamp   | 110 | 1                                                                                 |                                                                                   | 64 |

## 435 - 436 Electronics Diagonal Cutter



Type spring loaded handles, short pattern, pointed cutting head, black finish, insulated red handles

Material high grade tool steel C 60, Code No. 1.0601

| Stock-No. |                    | mm  |  |  | g  |
|-----------|--------------------|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|
| 435       | with bevel edge    | 110 | 1                                                                                 |                                                                                   | 62 |
| 436       | without bevel edge | 110 | 1                                                                                 |                                                                                   | 64 |

## 437 - 439 Electronics Plier



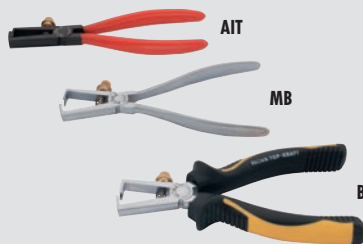
Type spring loaded handles, short pattern, black finish, insulated red handles

Material high grade tool steel C 45, Code No. 1.0503

| Stock-No. |                 | mm  |  |  | g  |
|-----------|-----------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|
| 437       | Flat nose       | 120 | 1                                                                                   |                                                                                     | 56 |
| 438       | Flat round nose | 120 | 1                                                                                   |                                                                                     | 58 |
| 439       | Round nose      | 120 | 1                                                                                   |                                                                                     | 65 |

## Wire Stripping Tools

## 494 Wire Stripper



Type spring loaded handles, with locking adjustable screw for setting cable cutting facility, AIT: black finish, red cushion grip handles, MB: chrome plated, BI: chrome plated, polished, insulated 2K plastic handles with slip guards

Material Chrome-Vanadium 58 CrV 4, Code No. 1.2242

| Stock-No. | for wire up to Ø mm | mm  |  |  | g   |
|-----------|---------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|
| 494 AIT   | 5                   | 160 | 1                                                                                   |                                                                                     | 125 |
| 494 MB    | 5                   | 160 | 1                                                                                   |                                                                                     | 125 |
| 494 BI    | 5                   | 160 | 1                                                                                   |                                                                                     | 150 |

## 1095 Wire Stripper



Application suitable for wire diameter 0,5 – 6,0 mm<sup>2</sup>!  
for stripping insulated flat wire and automatic stripping of inner conductors

Type automatic adjustment to wire diameter, with scale for stripping length from 5 – 12 mm, with side cutter for wire up to 6,0 mm<sup>2</sup>

Material cutting blades from hardened steel, black plastic housing

| Stock-No. | mm  |  |  | g   |
|-----------|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|
| 1095      | 150 | 1                                                                                     |                                                                                       | 112 |

## 494S Wire Stripper



Type automatic adjustment to wire diameter, with cable cutting facility, MB: chrome plated, BI: chrome plated, polished, insulated 2K plastic handles with slip guards

Material high grade tool steel C 45, Code No. 1.0503

| Stock-No.  | for wire up to Ø mm | mm  |  |  | g   |
|------------|---------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|
| 494S-0,3MB | 0,3 – 1,2           | 160 | 1                                                                                   |                                                                                     | 160 |
| 494S-0,3BI | 0,3 – 1,2           | 160 | 1                                                                                   |                                                                                     | 185 |
| 494S-0,5MB | 0,5 – 5,0           | 160 | 1                                                                                   |                                                                                     | 160 |
| 494S-0,5BI | 0,5 – 5,0           | 160 | 1                                                                                   |                                                                                     | 185 |

## 1094 Automatic Wire Stripper



Application for wire diameter 0,2 – 6,0 mm<sup>2</sup>!

Type automatic adjustment to wire diameter, length setting from 5 – 12 mm, with side cutter for wire up to 2 mm Ø

Material cutting blades from hardened steel, black plastic housing

| Stock-No. | mm  |  |  | g   |
|-----------|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|
| 1094      | 200 | 1                                                                                     |                                                                                       | 126 |

## 1080-1082 Universal Cable Knife



| Application | for wire diameter 8 - 35 mm Ø<br>for precise, quick and safe stripping of all kind of round wire,<br>for round and length cut in one operation |     |   |    |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|----|
| Type        | black                                                                                                                                          |     |   |    |
| Material    | cutting blades from hardened steel, black plastic housing                                                                                      |     |   |    |
| Stock-No.   | Blade                                                                                                                                          | mm  | g |    |
| 1080        | dual blade, straight and hook pattern                                                                                                          | 170 | 1 | 80 |
| 1081        | single blade, straight                                                                                                                         | 170 | 1 | 80 |
| 1082        | without blade                                                                                                                                  | 130 | 1 | 70 |

## 1083 Round-Wire Stripper



| Application | for round wire 8 – 13 mm Ø<br>(for example NYM 3 × 1,5 mm² up to 5 × 2,5 mm²), for easy wire stripping even in awkward areas |   |    |
|-------------|------------------------------------------------------------------------------------------------------------------------------|---|----|
| Type        | automatic adjustment to cutting depth                                                                                        |   |    |
| Material    | cutting blades from hardened steel, plastic housing                                                                          |   |    |
| Stock-No.   | mm                                                                                                                           | g |    |
| 1083        | 128                                                                                                                          | 1 | 44 |

## 498-7 Wire Snip



| Application | cuts wire up to 10 mm Ø                  |   |     |
|-------------|------------------------------------------|---|-----|
| Type        | spring loaded handles with plastic grips |   |     |
| Material    | stainless steel                          |   |     |
| Stock-No.   | mm                                       | g |     |
| 498-7       | 160                                      | 1 | 114 |

## 281-KZ Cable Knife



| Type      | with awl and blade, with wooden handle |               |                 |   |    |
|-----------|----------------------------------------|---------------|-----------------|---|----|
| Stock-No. | Blade length mm                        | Awl length mm | Total length mm | g |    |
| 281-KZ    | 75                                     | 70            | 165             | 6 | 83 |

## 281 Cable Knife



| Type      | with wooden handle |                 |   |    |
|-----------|--------------------|-----------------|---|----|
| Stock-No. | Blade length mm    | Total length mm | g |    |
| 281       | 85                 | 200             | 6 | 80 |

## 466A Crimping Plier



| Application | for cable terminals according to DIN 46228, part 1 and 4                   |     |   |     |
|-------------|----------------------------------------------------------------------------|-----|---|-----|
| Type        | with side cutter and wire stripper, gun metal finish, cushion grip handles |     |   |     |
| Material    | high grade tool steel C 45, Code No. 1.0503                                |     |   |     |
| Stock-No.   | for cable terminals mm²                                                    | mm  | g |     |
| 466A- 2,5   | 0,25 – 2,5                                                                 | 155 | 1 | 170 |
| 466A- 16,0  | 0,50 – 16,0                                                                | 220 | 1 | 285 |

## 466I/IH Cable Terminals



| Type         | 466 I: not insulated cable terminals, 466 IH: insulated cable terminals with plastic collar, tin plated, heat resistant up to 110°C |    |                             |                 |  |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------|-----------------|--|
| Material     | 466 I: SF-CU according to DIN 1787, 466 IH: E-CuM                                                                                   |    |                             |                 |  |
| Standard     | 466 I: according to DIN 46228, part 1, 466 IH: according to DIN 46228, part 4                                                       |    |                             |                 |  |
| Stock-No.    | Section Ø mm²                                                                                                                       | mm | 1 packing unit = ... pieces | Colour code DIN |  |
| 466 I- 0,25  | 0,25                                                                                                                                | 5  | 1000                        | —               |  |
| 466 I- 0,34  | 0,34                                                                                                                                | 5  | 1000                        | —               |  |
| 466 I- 0,5   | 0,5                                                                                                                                 | 6  | 1000                        | —               |  |
| 466 I- 0,75  | 0,75                                                                                                                                | 6  | 1000                        | —               |  |
| 466 I- 1,0   | 1,0                                                                                                                                 | 6  | 1000                        | —               |  |
| 466 I- 1,5   | 1,5                                                                                                                                 | 7  | 1000                        | —               |  |
| 466 I- 2,5   | 2,5                                                                                                                                 | 7  | 1000                        | —               |  |
| 466 I- 4,0   | 4,0                                                                                                                                 | 10 | 1000                        | —               |  |
| 466 I- 6,0   | 6,0                                                                                                                                 | 12 | 1000                        | —               |  |
| 466 I- 10,0  | 10,0                                                                                                                                | 12 | 1000                        | —               |  |
| 466 I- 16,0  | 16,0                                                                                                                                | 12 | 500                         | —               |  |
| 466 IH- 0,5  | 0,5                                                                                                                                 | 8  | 500                         | white           |  |
| 466 IH- 0,75 | 0,75                                                                                                                                | 8  | 500                         | grey            |  |
| 466 IH- 1,0  | 1,0                                                                                                                                 | 8  | 500                         | red             |  |
| 466 IH- 1,5  | 1,5                                                                                                                                 | 8  | 500                         | black           |  |
| 466 IH- 2,5  | 2,5                                                                                                                                 | 8  | 500                         | blue            |  |
| 466 IH- 4,0  | 4,0                                                                                                                                 | 10 | 500                         | grey            |  |
| 466 IH- 6,0  | 6,0                                                                                                                                 | 12 | 500                         | yellow          |  |
| 466 IH- 10,0 | 10,0                                                                                                                                | 12 | 100                         | red             |  |
| 466 IH- 16,0 | 16,0                                                                                                                                | 12 | 100                         | blue            |  |

Order example: 1 × 466 I-0,25 means 1 packing unit (= 1000 cable terminals)

## 466S/SH Cable Terminal Assortment



| Type               | in plastic storage box                                                                               |   |     |
|--------------------|------------------------------------------------------------------------------------------------------|---|-----|
| Stock-No.          | Contents                                                                                             |   | g   |
| <b>466S- 1</b>     | 500 × 466 I- 0,25<br>500 × 466 I- 0,34<br>500 × 466 I- 0,5<br>500 × 466 I- 0,75<br>500 × 466 I- 1,0  | 1 | 135 |
| <b>466S- 2,5</b>   | 500 × 466 I- 0,5<br>500 × 466 I- 0,75<br>400 × 466 I- 1,0<br>300 × 466 I- 1,5<br>200 × 466 I- 2,5    | 1 | 140 |
| <b>466S- 4,0</b>   | 400 × 466 I- 0,75<br>300 × 466 I- 1,0<br>200 × 466 I- 1,5<br>150 × 466 I- 2,5<br>100 × 466 I- 4,0    | 1 | 113 |
| <b>466S- 16,0</b>  | 150 × 466 I- 4,0<br>75 × 466 I- 6,0<br>75 × 466 I- 10,0<br>50 × 466 I- 16,0                          | 1 | 140 |
| <b>466SH- 2,5</b>  | 50 × 466 IH- 0,5<br>100 × 466 IH- 0,75<br>100 × 466 IH- 1,0<br>100 × 466 IH- 1,5<br>50 × 466 IH- 2,5 | 1 | 96  |
| <b>466SH- 16,0</b> | 50 × 466 IH- 4,0<br>20 × 466 IH- 6,0<br>20 × 466 IH- 10,0<br>10 × 466 IH- 16,0                       | 1 | 88  |

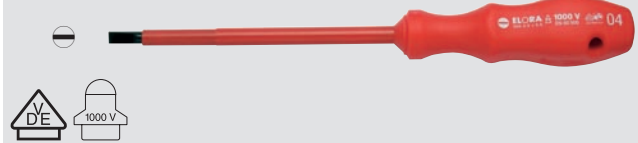
## 466S 210 Cable Terminal Set 466S 309



| Type             | in transparent plastic box                                                                                                                                                                                                                                                                                                      |   |     |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Stock-No.        | Contents                                                                                                                                                                                                                                                                                                                        |   | g   |
| <b>466 S 210</b> | 1 Crimping plier<br>1 VDE Screwdriver<br>each 30 cable terminals<br>466A- 2,5<br>900 IS-0,5 × 3,0<br>466 I- 0,25<br>466 I- 0,34<br>466 I- 0,5<br>466 I- 0,75<br>466 I- 1,0<br>466 I- 1,5<br>466 I- 2,5                                                                                                                          | 1 | 442 |
| <b>466 S 309</b> | 1 Crimping plier<br>1 VDE Screwdriver<br>each 50 cable terminals<br>466A-16,0<br>900 IS-0,5 × 3,0<br>466 I- 0,5<br>466 I- 0,75<br>466 I- 1,0<br>466 I- 1,5<br>466 I- 2,5<br>40 cable terminals<br>25 cable terminals<br>20 cable terminals<br>each 12 cable terminals<br>466 I- 4,0<br>466 I- 6,0<br>466 I- 10,0<br>466 I- 16,0 | 1 | 578 |

## VDE

### 900IS VDE Screwdriver



|             |                                                          |
|-------------|----------------------------------------------------------|
| Application | for plain slot screws                                    |
| Type        | black finish insulated blade, with red QUATROLIT® handle |
| Material    | blade from Chrome-Vanadium 59 CrV 4, Code No. 1.2242     |
| Standard    | according to DIN 5264, form A/ISO 2380                   |

| Stock-No.              |  | mm  | mm  |   | g   |
|------------------------|--|-----|-----|---|-----|
| <b>900IS- 0,4× 2,5</b> |  | 75  | 150 | 6 | 31  |
| <b>900IS- 0,6× 2,8</b> |  | 75  | 150 | 6 | 32  |
| <b>900IS- 0,5× 3</b>   |  | 100 | 175 | 6 | 37  |
| <b>900IS- 0,6× 3,5</b> |  | 100 | 175 | 6 | 38  |
| <b>900IS- 0,8× 4</b>   |  | 100 | 175 | 6 | 42  |
| <b>900IS- 0,8× 5,5</b> |  | 125 | 220 | 6 | 84  |
| <b>900IS- 1,0× 5,5</b> |  | 125 | 210 | 6 | 84  |
| <b>900IS- 1,2× 6,5</b> |  | 150 | 245 | 6 | 104 |
| <b>900IS- 1,2× 8</b>   |  | 175 | 280 | 6 | 160 |
| <b>900IS- 1,6× 10</b>  |  | 200 | 325 | 6 | 270 |

| Stock-No.       | Contents:<br>1 piece of each                                                                                                                                                                  |   | g    |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| <b>900 S 10</b> | 900IS- 0,4 × 2,5<br>900IS- 0,6 × 2,8<br>900IS- 0,5 × 3<br>900IS- 0,6 × 3,5<br>900IS- 0,8 × 4<br>900IS- 0,8 × 5,5<br>900IS- 1,0 × 5,5<br>900IS- 1,2 × 6,5<br>900IS- 1,2 × 8<br>900IS- 1,6 × 10 | 1 | 1030 |

### 910PH VDE Screwdriver



|             |                                                          |
|-------------|----------------------------------------------------------|
| Application | for cross slot screws Phillips-Recess                    |
| Type        | black finish insulated blade, with red QUATROLIT® handle |
| Material    | blade from Chrome-Vanadium 59 CrV 4, Code No. 1.2242     |
| Standard    | tip according to DIN 5264-PH/ISO 8764-PH                 |

| Stock-No.       |  | mm  | mm  |   | g   |
|-----------------|--|-----|-----|---|-----|
| <b>910PH- 0</b> |  | 60  | 140 | 6 | 32  |
| <b>910PH- 1</b> |  | 80  | 170 | 6 | 52  |
| <b>910PH- 2</b> |  | 100 | 200 | 6 | 86  |
| <b>910PH- 3</b> |  | 140 | 255 | 6 | 150 |
| <b>910PH- 4</b> |  | 200 | 325 | 6 | 275 |

| Stock-No.      | Contents:<br>1 piece of each                             |   | g   |
|----------------|----------------------------------------------------------|---|-----|
| <b>910 S 5</b> | 910PH- 0<br>910PH- 1<br>910PH- 2<br>910PH- 3<br>910PH- 4 | 1 | 650 |



## 912PZ VDE Screwdriver



|             |                                                          |
|-------------|----------------------------------------------------------|
| Application | for cross slot screws Supa-Pozidriv                      |
| Type        | black finish insulated blade, with red QUATROLIT® handle |
| Material    | blade from Chrome-Vanadium 59 CrV 4, Code No. 1.2242     |
| Standard    | tip according to DIN 5260-PZ/ISO 8764-PZ                 |

| Stock-No. | mm  | mm  |   | g   |
|-----------|-----|-----|---|-----|
| 912PZ- 0  | 60  | 140 | 6 | 32  |
| 912PZ- 1  | 80  | 170 | 6 | 52  |
| 912PZ- 2  | 100 | 200 | 6 | 86  |
| 912PZ- 3  | 140 | 255 | 6 | 150 |
| 912PZ- 4  | 200 | 325 | 6 | 275 |

| Stock-No. | Contents:<br>1 piece of each                             |   | g   |
|-----------|----------------------------------------------------------|---|-----|
| 912 S 5   | 912PZ- 0<br>912PZ- 1<br>912PZ- 2<br>912PZ- 3<br>912PZ- 4 | 1 | 652 |

## 978S VDE Screwdriver Set



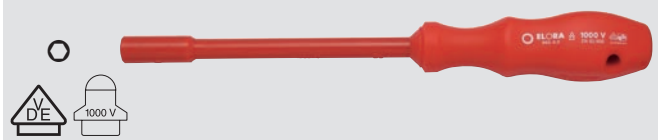
| Type      | with Electric tester, in environmentally-friendly and recyclable carton             |                                                                                     |                                                                                          |
|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Stock-No. | Contents:                                                                           |                                                                                     |                                                                                          |
|           | 1 piece of each                                                                     |  | <br>g |
| 978 S- 7K |  | 900IS- 0,4x2,5                                                                      | 1 580                                                                                    |
|           |                                                                                     | 900IS- 0,6x3,5                                                                      |                                                                                          |
|           |                                                                                     | 900IS- 0,8x5,5                                                                      |                                                                                          |
|           |                                                                                     | 900IS- 1,2x6,5                                                                      |                                                                                          |
|           |  | 910PH- 1                                                                            |                                                                                          |
|           |                                                                                     | 910PH- 2                                                                            |                                                                                          |
|           |                                                                                     | Electric tester No. 564N                                                            |                                                                                          |

## 979S VDE Screwdriver Set



| Type      | in environmentally-friendly and recyclable carton                                   |                                                                                     |                                                                                          |
|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Stock-No. | Contents:                                                                           |                                                                                     |                                                                                          |
|           | 1 piece of each                                                                     |  | <br>g |
| 979 S- 5K |  | 900IS- 0,4x2,5                                                                      | 1435                                                                                     |
|           |                                                                                     | 900IS- 0,6x3,5                                                                      |                                                                                          |
|           |                                                                                     | 900IS- 0,8x5,5                                                                      |                                                                                          |
|           |  | 910PH- 1                                                                            |                                                                                          |
|           |                                                                                     | 910PH- 2                                                                            |                                                                                          |

## 905 VDE Nut Driver



|             |                                                          |
|-------------|----------------------------------------------------------|
| Application | for hexagon bolts                                        |
| Type        | black finish insulated blade, with red QUATROLIT® handle |
| Material    | blade from Chrome-Vanadium 31 CrV 3, Code No. 1.2208     |
| Standard    | according to DIN 7445                                    |

| Stock-No. | mm  | mm  |   | g   |
|-----------|-----|-----|---|-----|
| 905- 5,5  | 125 | 220 | 6 | 72  |
| 905- 6,0  | 125 | 220 | 6 | 75  |
| 905- 7,0  | 125 | 230 | 6 | 106 |
| 905- 8,0  | 125 | 230 | 6 | 108 |
| 905- 9,0  | 125 | 230 | 6 | 110 |
| 905- 10,0 | 125 | 230 | 6 | 115 |
| 905- 11,0 | 125 | 240 | 6 | 165 |
| 905- 12,0 | 125 | 240 | 6 | 165 |
| 905- 13,0 | 125 | 240 | 6 | 170 |

## 915 VDE Screwdriver



|             |                                                          |
|-------------|----------------------------------------------------------|
| Application | for hexagon socket head cap screws according to DIN 912  |
| Type        | black finish insulated blade, with red QUATROLIT® handle |
| Material    | blade from Chrome-Vanadium 59 CrV 4, Code No. 1.2242     |
| Standard    | according to DIN 7439                                    |

| Stock-No.  | mm  | mm  |   | g   |
|------------|-----|-----|---|-----|
| 915IN- 2,5 | 75  | 175 | 6 | 42  |
| 915IN- 3,0 | 75  | 175 | 6 | 46  |
| 915IN- 4,0 | 75  | 175 | 6 | 52  |
| 915IN- 5,0 | 75  | 175 | 6 | 76  |
| 915IN- 6,0 | 100 | 205 | 6 | 94  |
| 915IN- 8,0 | 100 | 205 | 6 | 150 |

## MS-32 Module



|             |                                                                                                      |
|-------------|------------------------------------------------------------------------------------------------------|
| Application | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |
| Type        | Black, with transparent cover                                                                        |
| Material    | ABS                                                                                                  |

| Stock-No. | Contents:<br>1 piece of each                                                                                                                                                                                     |   | g   |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| MS-32     | VDE-Screwdrivers<br>900-IS 0,4x2,5 VDE-Screwdriver<br>900-IS 0,6x3,5 VDE-Screwdriver<br>900-IS 1,0x5,5 VDE-Screwdriver<br>900-IS 1,2x8,0 VDE-Screwdriver<br>910-PH 1 VDE-Screwdriver<br>910-PH 2 VDE-Screwdriver | 1 | 495 |

**564N VDE-Electric Tester****New!**

|             |                                                                                                                      |   |     |
|-------------|----------------------------------------------------------------------------------------------------------------------|---|-----|
| Application | to detect DC and AC voltages between 12-690 V, for polarity, phase sequence and throughput testing at up to 500 kOhm |   |     |
| Type        | acc. VDE 0680 Part 5 with LED screen, optical voltage alert, shock resistant housing                                 |   |     |
| Standard    | Protection rating IEC/EN 61243-3, DIN VDE 06882-401, CAT IV 1000V                                                    |   |     |
| Stock-No.   | mm                                                                                                                   | g |     |
| <b>564N</b> | 235                                                                                                                  | 1 | 188 |

**935-45 VDE Flat Round Nose Plier****New!**

|                    |                                                                                                   |   |     |
|--------------------|---------------------------------------------------------------------------------------------------|---|-----|
| Type               | chrome plated, head polished, 2K plastic handles with red VDE security insulation and slip guards |   |     |
| Material           | high grade tool steel C 45, Code No. 1.0503                                                       |   |     |
| Standard           | according to DIN 5236, form B, jaws angled at 45°, with side cutter, insulation acc. to EN 60.900 |   |     |
| Stock-No.          | mm                                                                                                | g |     |
| <b>935- 45 165</b> | 165                                                                                               | 1 | 170 |
| <b>935- 45 205</b> | 205                                                                                               | 1 | 210 |

**955 VDE Diagonal Cutter****New!**

|                 |                                                                                                   |     |     |
|-----------------|---------------------------------------------------------------------------------------------------|-----|-----|
| Type            | chrome plated, head polished, 2K plastic handles with red VDE security insulation and slip guards |     |     |
| Material        | Chrome-Vanadium 80 CrV 2, Code No. 1.2235                                                         |     |     |
| Standard        | acc. to DIN 5238, insulation acc. to EN 60.900                                                    |     |     |
| Stock-No.       | for hard wire up to Ø mm                                                                          | mm  | g   |
| <b>955- 160</b> | 1,6                                                                                               | 160 | 185 |
| <b>955- 200</b> | 2,0                                                                                               | 200 | 225 |

**566 VDE Voltage Tester**

|                 |                                                                                                       |   |    |
|-----------------|-------------------------------------------------------------------------------------------------------|---|----|
| Application     | 220 - 230 V                                                                                           |   |    |
| Type            | with ergonomic arranged contact sensor to activate testing function, light signal to indicate voltage |   |    |
| Standard        | VDE and GS tested                                                                                     |   |    |
| Stock-No.       | mm                                                                                                    | g |    |
| <b>566- 150</b> | 150                                                                                                   | 6 | 30 |
| <b>566- 190</b> | 190                                                                                                   | 6 | 40 |

**935-90 VDE Flat Round Nose Plier****New!**

|                    |                                                                                                   |   |     |
|--------------------|---------------------------------------------------------------------------------------------------|---|-----|
| Type               | chrome plated, head polished, 2K plastic handles with red VDE security insulation and slip guards |   |     |
| Material           | high grade tool steel C 45, Code No. 1.0503                                                       |   |     |
| Standard           | similar to DIN 5236, form B, jaws angled at 90°, with side cutter, insulation acc. to EN 60.900   |   |     |
| Stock-No.          | mm                                                                                                | g |     |
| <b>935- 90 165</b> | 165                                                                                               | 1 | 170 |
| <b>935- 90 205</b> | 205                                                                                               | 1 | 210 |

**960 VDE Combination Plier****New!**

|                 |                                                                                                   |   |     |
|-----------------|---------------------------------------------------------------------------------------------------|---|-----|
| Type            | chrome plated, head polished, 2K plastic handles with red VDE security insulation and slip guards |   |     |
| Material        | high grade tool steel C 45, Code No. 1.0503                                                       |   |     |
| Standard        | acc. to DIN 5244, insulation acc. to EN 60.900                                                    |   |     |
| Stock-No.       | mm                                                                                                | g |     |
| <b>960- 165</b> | 165                                                                                               | 1 | 225 |
| <b>960- 185</b> | 185                                                                                               | 1 | 270 |
| <b>960- 205</b> | 205                                                                                               | 1 | 325 |

**920 VDE Flat Nose Plier****New!**

|                 |                                                                                                   |   |     |
|-----------------|---------------------------------------------------------------------------------------------------|---|-----|
| Type            | chrome plated, head polished, 2K plastic handles with red VDE security insulation and slip guards |   |     |
| Material        | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                         |   |     |
| Standard        | acc. to DIN 5248, form A, straight, with flat wide jaws, insulation acc. to EN 60.900             |   |     |
| Stock-No.       | mm                                                                                                | g |     |
| <b>920- 165</b> | 165                                                                                               | 1 | 215 |

**940 VDE Round Nose Plier****New!**

|                 |                                                                                                   |   |     |
|-----------------|---------------------------------------------------------------------------------------------------|---|-----|
| Type            | chrome plated, head polished, 2K plastic handles with red VDE security insulation and slip guards |   |     |
| Material        | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                         |   |     |
| Standard        | acc. to DIN 5249, form A, straight, with round wide jaws, insulation acc. to EN 60.900            |   |     |
| Stock-No.       | mm                                                                                                | g |     |
| <b>940- 165</b> | 165                                                                                               | 1 | 190 |

**135-5 VDE VDE Pipe and Waterpump Plier**

|                   |                                                                                                                   |   |     |
|-------------------|-------------------------------------------------------------------------------------------------------------------|---|-----|
| Type              | stepless knurl adjustment, chrome plated, head polished, handles with red VDE security insulation and slip guards |   |     |
| Material          | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                         |   |     |
| Standard          | similar to DIN 5231, form D, Rotfuss pattern                                                                      |   |     |
| Stock-No.         | mm                                                                                                                | g |     |
| <b>135- 5 VDE</b> | 260                                                                                                               | 1 | 475 |

**930 VDE Flat Round Nose Plier****New!**

|                 |                                                                                                   |   |     |
|-----------------|---------------------------------------------------------------------------------------------------|---|-----|
| Type            | chrome plated, head polished, 2K plastic handles with red VDE security insulation and slip guards |   |     |
| Material        | high grade tool steel C 45, Code No. 1.0503                                                       |   |     |
| Standard        | according to DIN 5236, form A, straight, with side cutter, insulation acc. to EN 60.900           |   |     |
| Stock-No.       | mm                                                                                                | g |     |
| <b>930- 165</b> | 165                                                                                               | 1 | 160 |
| <b>930- 205</b> | 205                                                                                               | 1 | 210 |

**950 VDE Universal Diagonal Cutter****New!**

|                 |                                                                                                   |     |     |
|-----------------|---------------------------------------------------------------------------------------------------|-----|-----|
| Type            | chrome plated, head polished, 2K plastic handles with red VDE security insulation and slip guards |     |     |
| Material        | high grade tool steel C 60, Code No. 1.0601                                                       |     |     |
| Standard        | acc. to DIN 5238, form B, insulation acc. to EN 60.900                                            |     |     |
| Stock-No.       | for hard wire up to Ø mm                                                                          | mm  | g   |
| <b>950- 145</b> | 1,35                                                                                              | 145 | 190 |
| <b>950- 160</b> | 1,60                                                                                              | 160 | 240 |
| <b>950- 180</b> | 2,00                                                                                              | 180 | 305 |

**970 VDE Wire Stripper****New!**

|                 |                                                                                                   |   |     |
|-----------------|---------------------------------------------------------------------------------------------------|---|-----|
| Type            | chrome plated, head polished, 2K plastic handles with red VDE security insulation and slip guards |   |     |
| Material        | high grade tool steel C 45, Code No. 1.0503                                                       |   |     |
| Standard        | insulation acc. to EN 60.900                                                                      |   |     |
| Stock-No.       | mm                                                                                                | g |     |
| <b>970- 160</b> | 160                                                                                               | 1 | 165 |

## 980 VDE Wire Stripper

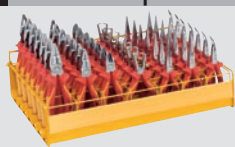
New!



|             |                                                                                                                                                                       |   |     |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Application | for wire diameter 0,5 – 5,0 mm                                                                                                                                        |   |     |
| Type        | with cable cutting facility, automatic adjustment to wire diameter, chrome plated, head polished, 2K plastic handles with red VDE security insulation and slip guards |   |     |
| Material    | high grade tool steel C 45, Code No. 1.0503                                                                                                                           |   |     |
| Standard    | insulation acc. to EN 60.900                                                                                                                                          |   |     |
| Stock-No.   | mm                                                                                                                                                                    | g |     |
| 980- 165    | 165                                                                                                                                                                   | 1 | 190 |

## 949 VDE-Plier Dispenser

New!



|                 |                                                                                             |          |          |
|-----------------|---------------------------------------------------------------------------------------------|----------|----------|
| Application     | to be used as counter display or fixed on tool board                                        |          |          |
| Type            | yellow lacquered with sign for prices                                                       |          |          |
| Material        | Sheet steel                                                                                 |          |          |
| Stock-No.       | Contents                                                                                    | kg       |          |
| 949             | 7 pcs. each<br>920-165<br>930-165<br>935-45 165<br>950-160<br>960-185<br>960-205<br>970-160 | 1        | 13.8     |
| Stock-No. empty | Height mm                                                                                   | Width mm | Depth mm |
| 949L            | 125                                                                                         | 475      | 290      |

## 977 VDE Cable Knife



|           |                                                       |   |    |
|-----------|-------------------------------------------------------|---|----|
| Type      | with straight, hardened blade                         |   |    |
| Material  | blade made from stainless steel, VDE insulated handle |   |    |
| Standard  | acc. to IEC 900, VDE and GS tested                    |   |    |
| Stock-No. | mm                                                    | g |    |
| 977       | 185                                                   | 6 | 65 |

## 977H VDE Cable Knife



|           |                                                       |   |    |
|-----------|-------------------------------------------------------|---|----|
| Type      | with hardened hook blade                              |   |    |
| Material  | blade made from stainless steel, VDE insulated handle |   |    |
| Standard  | acc. to IEC 900, VDE and GS tested                    |   |    |
| Stock-No. | mm                                                    | g |    |
| 977H      | 185                                                   | 6 | 64 |

## 977A VDE Cable Knife



|           |                                                                 |   |    |
|-----------|-----------------------------------------------------------------|---|----|
| Type      | with flat blade tip to protect inner conductors, blade hardened |   |    |
| Material  | blade made from special steel, VDE insulated handle             |   |    |
| Standard  | acc. to IEC 900, VDE and GS tested                              |   |    |
| Stock-No. | mm                                                              | g |    |
| 977A      | 185                                                             | 6 | 69 |

## MS-23 Module



|             |                                                                                                      |   |     |
|-------------|------------------------------------------------------------------------------------------------------|---|-----|
| Application | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |   |     |
| Type        | Black, with transparent cover                                                                        |   |     |
| Material    | ABS                                                                                                  |   |     |
| Stock-No.   | Contents:                                                                                            | g |     |
| MS-23       | 1 piece of each                                                                                      | 1 | 822 |

## 985 VDE Cable Snip



|             |                                                                           |   |     |
|-------------|---------------------------------------------------------------------------|---|-----|
| Application | suitable for easy cutting of solid cable up to Ø 11 mm/35 mm <sup>2</sup> |   |     |
| Type        | black finish, polished head, with VDE insulated handles                   |   |     |
| Material    | special steel                                                             |   |     |
| Standard    | acc. to IEC 900, VDE and GS tested                                        |   |     |
| Stock-No.   | mm                                                                        | g |     |
| 985         | 205                                                                       | 1 | 346 |

## 972 VDE Reversible Ratchet



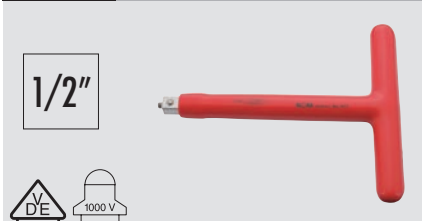
|           |                                                                                                                                         |   |     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Type      | with safety locking device to fix sockets, with unlocking button for quick and easy release and change of tools, with 1/2" square drive |   |     |
| Material  | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                                               |   |     |
| Standard  | according to DIN 7449                                                                                                                   |   |     |
| Stock-No. | mm                                                                                                                                      | g |     |
| 972       | 265                                                                                                                                     | 1 | 640 |

## 971 VDE Hexagon Socket



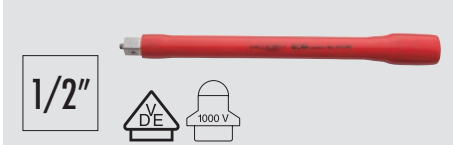
|           |                                                                                                 |   |     |
|-----------|-------------------------------------------------------------------------------------------------|---|-----|
| Type      | chrome plated, with hexagon, VDE insulation and VDE safety locking, with 1/2" square drive      |   |     |
| Material  | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                       |   |     |
| Standard  | 1/2" square drive according to DIN 3120/ISO 1174, for manual drive, sizes according to DIN 7448 |   |     |
| Stock-No. | (without insulation) mm                                                                         | g |     |
| 971- 8    | 40                                                                                              | 6 | 60  |
| 971- 9    | 40                                                                                              | 6 | 60  |
| 971- 10   | 40                                                                                              | 6 | 60  |
| 971-11    | 40                                                                                              | 6 | 64  |
| 971-12    | 40                                                                                              | 6 | 65  |
| 971-13    | 40                                                                                              | 6 | 65  |
| 971-14    | 40                                                                                              | 6 | 68  |
| 971-15    | 40                                                                                              | 6 | 68  |
| 971-16    | 40                                                                                              | 6 | 73  |
| 971-17    | 40                                                                                              | 6 | 73  |
| 971-18    | 40                                                                                              | 6 | 73  |
| 971-19    | 40                                                                                              | 6 | 75  |
| 971-21    | 40                                                                                              | 3 | 84  |
| 971-22    | 40                                                                                              | 3 | 97  |
| 971-24    | 40                                                                                              | 3 | 118 |
| 971-27    | 44                                                                                              | 3 | 150 |
| 971-30    | 44                                                                                              | 3 | 175 |
| 971-32    | 46                                                                                              | 3 | 204 |

## 973 VDE T-Bar



|           |                                                                                   |   |     |
|-----------|-----------------------------------------------------------------------------------|---|-----|
| Type      | chrome plated, with VDE insulation and VDE safety locking, with 1/2" square drive |   |     |
| Material  | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                         |   |     |
| Standard  | acc. to IEC 900, VDE and GS tested                                                |   |     |
| Stock-No. | mm                                                                                | g |     |
| 973       | 205                                                                               | 1 | 485 |

## 974 VDE Extension Bar



|           |                                                                                                   |   |     |
|-----------|---------------------------------------------------------------------------------------------------|---|-----|
| Type      | chrome plated, with VDE insulation and VDE safety locking, with 1/2" male and female square drive |   |     |
| Material  | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                         |   |     |
| Standard  | according to DIN 7434                                                                             |   |     |
| Stock-No. | mm                                                                                                | g |     |
| 974- 125  | 125                                                                                               | 3 | 202 |
| 974- 250  | 250                                                                                               | 3 | 309 |





## EVERYTHING FIRMLY GRIPPED WITH ELORA PLIERS.

Customers are very satisfied by the quality of our pliers. Now that we have changed the Top-Kraft Pliers to 2 component handles, they have become even more user-friendly.

### PLIERS BOLT CUTTERS SNIPS AND SHEARS

**08**



## ELORA TOP-KRAFT Precision Pliers

With new designed 2 component (2K) comfort handle

- Ergonomic form to avoid quick weary of hand.
- Soft material for pleasant handling and improved power transmission.
- Hard material for easy sliding in hand.

**Quality for highest demand**

### 494 Wire Stripper



|           |                                                                                                                                                                                                           |     |   |     |   |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|---|
| Type      | spring loaded, with locking adjustable screw for setting, cable cutting facility, <b>MB</b> : chrome plated, <b>BI</b> : chrome plated, polished, insulated TOP-KRAFT 2K plastic handles with slip guards |     |   |     |   |
| Material  | Chrome-Vanadium 58 CrV 4, Code No. 1.2242                                                                                                                                                                 |     |   |     |   |
| Stock-No. | for wire up to mm Ø                                                                                                                                                                                       | mm  |   |     | g |
| 494 MB    | 5                                                                                                                                                                                                         | 160 | 1 | 125 |   |
| 494 BI    | 5                                                                                                                                                                                                         | 160 | 1 | 150 |   |

### 494S Wire Stripper



|             |                                                                                                                                                                                             |     |   |     |   |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|---|
| Type        | automatic adjustment to wire diameter, with cable cutting facility, <b>MB</b> : chrome plated, <b>BI</b> : chrome plated, polished, insulated TOP-KRAFT 2K plastic handles with slip guards |     |   |     |   |
| Material    | high grade tool steel C 45, Code No. 1.0503                                                                                                                                                 |     |   |     |   |
| Stock-No.   | for wire up to mm Ø                                                                                                                                                                         | mm  |   |     | g |
| 494S- 0,3MB | 0,3 – 1,2                                                                                                                                                                                   | 160 | 1 | 160 |   |
| 494S- 0,3BI | 0,3 – 1,2                                                                                                                                                                                   | 160 | 1 | 185 |   |
| 494S- 0,5MB | 0,5 – 5,0                                                                                                                                                                                   | 160 | 1 | 160 |   |
| 494S- 0,5BI | 0,5 – 5,0                                                                                                                                                                                   | 160 | 1 | 185 |   |

### 468 Wire Stripper / Cutter



**New!**

|             |                                                                                                                    |                               |                          |     |       |
|-------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------|-----|-------|
| Application | for single and multiwire cable with 1,5 and 2,5 mm <sup>2</sup>                                                    |                               |                          |     |       |
| Type        | chrome plated, polished, induction hardened cutting edges, insulated TOP-KRAFT 2K plastic handles with slip guards |                               |                          |     |       |
| Material    | high grade tool steel C 60, Code-No. 1.0601                                                                        |                               |                          |     |       |
| Stock-No.   | for soft wire up to mm Ø                                                                                           | for semi-hard wire up to mm Ø | for hard wire up to mm Ø | mm  | g     |
| 468-BI      | 4                                                                                                                  | 2,5                           | 1,8                      | 160 | 1 190 |

### 470/472 Flat Round Nose Plier



|            |                                                                                                                         |   |     |   |
|------------|-------------------------------------------------------------------------------------------------------------------------|---|-----|---|
| Type       | <b>MB</b> : chrome plated, <b>BI</b> : chrome plated, polished, insulated TOP-KRAFT 2K plastic handles with slip guards |   |     |   |
| Material   | high grade tool steel C 45, Code No. 1.0503                                                                             |   |     |   |
| Standard   | according to DIN / ISO 5745, straight, with side cutter <b>470</b> : long, <b>472</b> : short pattern jaws              |   |     |   |
| Stock-No.  | mm                                                                                                                      |   |     | g |
| 470MB- 200 | 200                                                                                                                     | 1 | 170 |   |
| 470BI- 200 | 200                                                                                                                     | 1 | 200 |   |
| 472MB- 145 | 145                                                                                                                     | 1 | 100 |   |
| 472BI- 145 | 145                                                                                                                     | 1 | 120 |   |
| 472MB- 165 | 165                                                                                                                     | 1 | 130 |   |
| 472BI- 165 | 165                                                                                                                     | 1 | 150 |   |

### 471-45 Flat Round Nose Plier



|              |                                                                                                                         |   |     |   |
|--------------|-------------------------------------------------------------------------------------------------------------------------|---|-----|---|
| Type         | <b>MB</b> : chrome plated, <b>BI</b> : chrome plated, polished, insulated TOP-KRAFT 2K plastic handles with slip guards |   |     |   |
| Material     | high grade tool steel C 45, Code No. 1.0503                                                                             |   |     |   |
| Standard     | long jaws, 45° bent, with side cutter                                                                                   |   |     |   |
| Stock-No.    | mm                                                                                                                      |   |     | g |
| 471-45MB 165 | 165                                                                                                                     | 1 | 130 |   |
| 471-45BI 165 | 165                                                                                                                     | 1 | 150 |   |
| 471-45MB 200 | 200                                                                                                                     | 1 | 170 |   |
| 471-45BI 200 | 200                                                                                                                     | 1 | 200 |   |

### 471-90 Flat Round Nose Plier



|              |                                                                                                                         |   |     |   |
|--------------|-------------------------------------------------------------------------------------------------------------------------|---|-----|---|
| Type         | <b>MB</b> : chrome plated, <b>BI</b> : chrome plated, polished, insulated TOP-KRAFT 2K plastic handles with slip guards |   |     |   |
| Material     | high grade tool steel C 45, Code No. 1.0503                                                                             |   |     |   |
| Standard     | long jaws, 90° bent, with side cutter                                                                                   |   |     |   |
| Stock-No.    | mm                                                                                                                      |   |     | g |
| 471-90MB 165 | 165                                                                                                                     | 1 | 130 |   |
| 471-90BI 165 | 165                                                                                                                     | 1 | 150 |   |
| 471-90MB 200 | 200                                                                                                                     | 1 | 170 |   |
| 471-90BI 200 | 200                                                                                                                     | 1 | 200 |   |

### 476 Flat Nose Plier



|            |                                                                                                                         |   |     |   |
|------------|-------------------------------------------------------------------------------------------------------------------------|---|-----|---|
| Type       | <b>MB</b> : chrome plated, <b>BI</b> : chrome plated, polished, insulated TOP-KRAFT 2K plastic handles with slip guards |   |     |   |
| Material   | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                               |   |     |   |
| Standard   | according to DIN / ISO 5745, straight, with long, flat jaws                                                             |   |     |   |
| Stock-No.  | mm                                                                                                                      |   |     | g |
| 476MB- 145 | 145                                                                                                                     | 1 | 100 |   |
| 476BI- 145 | 145                                                                                                                     | 1 | 130 |   |
| 476MB- 170 | 170                                                                                                                     | 1 | 155 |   |
| 476BI- 170 | 170                                                                                                                     | 1 | 175 |   |

### 477 Round Nose Plier



|            |                                                                                                                         |   |     |   |
|------------|-------------------------------------------------------------------------------------------------------------------------|---|-----|---|
| Type       | <b>MB</b> : chrome plated, <b>BI</b> : chrome plated, polished, insulated TOP-KRAFT 2K plastic handles with slip guards |   |     |   |
| Material   | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                               |   |     |   |
| Standard   | according to DIN / ISO 5745, straight, with long, round jaws                                                            |   |     |   |
| Stock-No.  | mm                                                                                                                      |   |     | g |
| 477MB- 145 | 145                                                                                                                     | 1 | 95  |   |
| 477BI- 145 | 145                                                                                                                     | 1 | 125 |   |
| 477MB- 170 | 170                                                                                                                     | 1 | 145 |   |
| 477BI- 170 | 170                                                                                                                     | 1 | 175 |   |

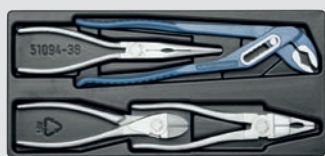
### MS-21 Module



|             |                                                                                                                                              |   |     |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Application | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220                                         |   |     |
| Type        | Black, with transparent cover                                                                                                                |   |     |
| Material    | ABS                                                                                                                                          |   |     |
| Stock-No.   | Contents                                                                                                                                     |   | g   |
| MS-21       | TOP-KRAFT-Pliers with insulated 2K plastic handles<br>495BI-185 Combination plier<br>470BI-200 Flat round plier<br>490BI-165 Diagonal Cutter | 1 | 807 |

# PLIERS, BOLT CUTTERS, SNIPS AND SHEARS

## MS-22 Module



|              |                                                                                                      |                   |     |
|--------------|------------------------------------------------------------------------------------------------------|-------------------|-----|
| Application  | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |                   |     |
| Type         | Black, with transparent cover                                                                        |                   |     |
| Material     | ABS                                                                                                  |                   |     |
| Stock-No.    | Contents                                                                                             |                   |     |
| <b>MS-22</b> | <b>TOP-KRAFT-Pliers</b>                                                                              | 1                 | 870 |
|              | 495MB-185                                                                                            | Combination plier |     |
|              | 470MB-200                                                                                            | Flat round plier  |     |
|              | 490MB-165                                                                                            | Diagonal cutter   |     |
|              | 132-240                                                                                              | Waterpump plier   |     |

## 478A Relay Adjusting Plier



|             |                                                   |   |    |
|-------------|---------------------------------------------------|---|----|
| Application | for bending of contact and relay springs          |   |    |
| Type        | chrome plated, polished, red cushion grip handles |   |    |
| Material    | high grade tool steel C 45, Code No. 1.0503       |   |    |
| Standard    | according to DIN 5235 form A, flat pointed jaws   |   |    |
| Stock-No.   |                                                   |   |    |
| <b>478A</b> | 135                                               | 1 | 75 |

## 478B Relay Adjusting Plier



|             |                                                   |   |    |
|-------------|---------------------------------------------------|---|----|
| Application | for bending of contact and relay springs          |   |    |
| Type        | chrome plated, polished, red cushion grip handles |   |    |
| Material    | high grade tool steel C 45, Code No. 1.0503       |   |    |
| Standard    | according to DIN 5235 form B, flat wide jaws      |   |    |
| Stock-No.   |                                                   |   |    |
| <b>478B</b> | 135                                               | 1 | 75 |

## 478C Relay Adjusting Plier



|             |                                                        |   |    |
|-------------|--------------------------------------------------------|---|----|
| Application | for bending of contact and relay springs               |   |    |
| Type        | chrome plated, polished, red cushion grip handles      |   |    |
| Material    | high grade tool steel C 45, Code No. 1.0503            |   |    |
| Standard    | according to DIN 5235 form C, flat wide jaws, 45° bent |   |    |
| Stock-No.   |                                                        |   |    |
| <b>478C</b> | 135                                                    | 1 | 75 |

## 478E Relay Adjusting Plier



|             |                                                        |   |    |
|-------------|--------------------------------------------------------|---|----|
| Application | for bending of contact and relay springs               |   |    |
| Type        | chrome plated, polished, red cushion grip handles      |   |    |
| Material    | high grade tool steel C 45, Code No. 1.0503            |   |    |
| Standard    | according to DIN 5235 form E, flat wide jaws, 90° bent |   |    |
| Stock-No.   |                                                        |   |    |
| <b>478E</b> | 135                                                    | 1 | 75 |

## 495 Combination Plier



|                   |                                                                                                                       |   |     |
|-------------------|-----------------------------------------------------------------------------------------------------------------------|---|-----|
| Application       | for hard wire                                                                                                         |   |     |
| Type              | <b>MB:</b> chrome plated, <b>BI:</b> chrome plated, polished, insulated TOP-KRAFT 2K plastic handles with slip guards |   |     |
| Material          | high grade tool steel C 45, Code No. 1.0503                                                                           |   |     |
| Standard          | according to DIN / ISO 5746, form A/ISO 5746                                                                          |   |     |
| Stock-No.         |                                                                                                                       |   |     |
| <b>495MB- 165</b> | 165                                                                                                                   | 1 | 170 |
| <b>495BI- 165</b> | 165                                                                                                                   | 1 | 200 |
| <b>495MB- 185</b> | 185                                                                                                                   | 1 | 230 |
| <b>495BI- 185</b> | 185                                                                                                                   | 1 | 260 |
| <b>495MB- 205</b> | 205                                                                                                                   | 1 | 290 |
| <b>495BI- 205</b> | 205                                                                                                                   | 1 | 320 |

## 493 Multi Purpose Plier "FIT"



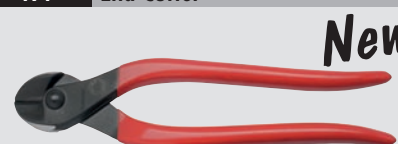
|             |                                               |   |     |
|-------------|-----------------------------------------------|---|-----|
| Application | combination of plier and tinsnip              |   |     |
| Type        | black, with red transparent insulated handles |   |     |
| Material    | high grade tool steel C 45, Code No. 1.0503   |   |     |
| Stock-No.   |                                               |   |     |
| <b>493</b>  | 200                                           | 1 | 285 |

## 490 Heavy Duty Diagonal Cutter



|                   |                                                                                                                       |     |     |
|-------------------|-----------------------------------------------------------------------------------------------------------------------|-----|-----|
| Application       | for piano wire                                                                                                        |     |     |
| Type              | <b>MB:</b> chrome plated, <b>BI:</b> chrome plated, polished, insulated TOP-KRAFT 2K plastic handles with slip guards |     |     |
| Material          | Chrome-Vanadium 80 CrV 2, Code No. 1.2235                                                                             |     |     |
| Standard          | according to DIN 5238, form A/H/ISO 5749, slip joint pattern                                                          |     |     |
| Stock-No.         | for piano wire up to Ø mm                                                                                             |     |     |
| <b>490MB- 145</b> | 1,6                                                                                                                   | 145 | 150 |
| <b>490BI- 145</b> | 1,6                                                                                                                   | 145 | 175 |
| <b>490MB- 165</b> | 1,6                                                                                                                   | 165 | 200 |
| <b>490BI- 165</b> | 1,6                                                                                                                   | 165 | 230 |
| <b>490MB- 200</b> | 2,0                                                                                                                   | 200 | 250 |
| <b>490BI- 200</b> | 2,0                                                                                                                   | 200 | 285 |

## 491 End Cutter



|                  |                                                                    |     |     |
|------------------|--------------------------------------------------------------------|-----|-----|
| Type             | black finish, induction hardened cutting edges. PVC dipped handles |     |     |
| Material         | high grade tool steel C 60, Code No. 1.0601                        |     |     |
| Stock-No.        | for hard wire up to Ø mm                                           |     |     |
| <b>491-200AI</b> | 2                                                                  | 200 | 325 |
| <b>491-260AI</b> | 3                                                                  | 260 | 610 |

## 485 Heavy Duty End Cutter



|              |                                                                                                                       |     |     |
|--------------|-----------------------------------------------------------------------------------------------------------------------|-----|-----|
| Application  | for hard wire                                                                                                         |     |     |
| Type         | <b>MB:</b> chrome plated, <b>BI:</b> chrome plated, polished, insulated TOP-KRAFT 2K plastic handles with slip guards |     |     |
| Material     | high grade tool steel C 60, Code No. 1.0601                                                                           |     |     |
| Standard     | according to DIN / ISO 5748, slip joint pattern                                                                       |     |     |
| Stock-No.    | for hard wire up to Ø mm                                                                                              |     |     |
| <b>485MB</b> | 1,6                                                                                                                   | 160 | 200 |
| <b>485BI</b> | 1,6                                                                                                                   | 160 | 220 |

## 492 Universal Diagonal Cutter



| Application | for piano wire                                                                                                        |     |   |     |   |
|-------------|-----------------------------------------------------------------------------------------------------------------------|-----|---|-----|---|
| Type        | <b>MB:</b> chrome plated, <b>BI:</b> chrome plated, polished, insulated TOP-KRAFT 2K plastic handles with slip guards |     |   |     |   |
| Material    | high grade tool steel C 60, Code No. 1.0601                                                                           |     |   |     |   |
| Standard    | according to DIN / ISO 5749                                                                                           |     |   |     |   |
| Stock-No.   | for piano wire up to Ø mm                                                                                             | mm  |   |     | g |
| 492MB- 130  | 1,35                                                                                                                  | 130 | 1 | 120 |   |
| 492BI- 130  | 1,35                                                                                                                  | 130 | 1 | 150 |   |
| 492MB- 145  | 1,60                                                                                                                  | 145 | 1 | 160 |   |
| 492BI- 145  | 1,60                                                                                                                  | 145 | 1 | 180 |   |
| 492MB- 160  | 2,00                                                                                                                  | 160 | 1 | 200 |   |
| 492BI- 160  | 2,00                                                                                                                  | 160 | 1 | 220 |   |

## 473C Circlip Plier



| Application | for internal circlips according to DIN 472 and DIN 984  |     |   |     |   |
|-------------|---------------------------------------------------------|-----|---|-----|---|
| Type        | <b>A:</b> black, <b>B:</b> chrome plated, polished head |     |   |     |   |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208               |     |   |     |   |
| Standard    | according to DIN 5256, form C, straight                 |     |   |     |   |
| Stock-No.   | for circlips from...to Ø mm                             | mm  |   |     | g |
| 473C- 8A    | 8- 25                                                   | 140 | 1 | 65  |   |
| 473C- 19A   | 19- 60                                                  | 170 | 1 | 150 |   |
| 473C- 40A   | 40-100                                                  | 220 | 1 | 260 |   |
| 473C- 85A   | 85-165                                                  | 320 | 1 | 430 |   |
| 473C- 8B    | 8- 25                                                   | 140 | 1 | 65  |   |
| 473C- 19B   | 19- 60                                                  | 170 | 1 | 150 |   |
| 473C- 40B   | 40-100                                                  | 220 | 1 | 260 |   |
| 473C- 85B   | 85-165                                                  | 320 | 1 | 430 |   |

## 474A Circlip Plier



| Application | for external circlips according to DIN 471 and DIN 983  |     |   |     |   |
|-------------|---------------------------------------------------------|-----|---|-----|---|
| Type        | <b>A:</b> black, <b>B:</b> chrome plated, polished head |     |   |     |   |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208               |     |   |     |   |
| Standard    | according to DIN 5254, form A, straight                 |     |   |     |   |
| Stock-No.   | for circlips from...to Ø mm                             | mm  |   |     | g |
| 474A- 3A    | 3- 10                                                   | 135 | 1 | 70  |   |
| 474A- 10A   | 10- 25                                                  | 135 | 1 | 70  |   |
| 474A- 19A   | 19- 60                                                  | 170 | 1 | 165 |   |
| 474A- 40A   | 40-100                                                  | 220 | 1 | 260 |   |
| 474A- 85A   | 85-165                                                  | 320 | 1 | 440 |   |
| 474A- 10B   | 10- 25                                                  | 135 | 1 | 70  |   |
| 474A- 19B   | 19- 60                                                  | 170 | 1 | 165 |   |
| 474A- 40B   | 40-100                                                  | 220 | 1 | 260 |   |
| 474A- 85B   | 85-165                                                  | 320 | 1 | 440 |   |

## 467 Sealing Plier with Cutter

**New!**



| Application | for sealing and cutting seals                                                    |   |     |   |  |
|-------------|----------------------------------------------------------------------------------|---|-----|---|--|
| Type        | chrome polished, with standard stamp, Ø 8mm, stamp burnished, PVC dipped handles |   |     |   |  |
| Material    | high grade tool steel C 60, Code-No. 1.0601                                      |   |     |   |  |
| Stock-No.   | mm                                                                               |   |     | g |  |
| 467-BI      | 160                                                                              | 1 | 170 |   |  |

## 473D Circlip Plier



| Application | for internal circlips according to DIN 472 and DIN 984  |     |   |     |   |
|-------------|---------------------------------------------------------|-----|---|-----|---|
| Type        | <b>A:</b> black, <b>B:</b> chrome plated, polished head |     |   |     |   |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208               |     |   |     |   |
| Standard    | according to DIN 5256, form D, 90° bent                 |     |   |     |   |
| Stock-No.   | for circlips from...to Ø mm                             | mm  |   |     | g |
| 473D- 8A    | 8- 25                                                   | 140 | 1 | 65  |   |
| 473D- 19A   | 19- 60                                                  | 170 | 1 | 150 |   |
| 473D- 40A   | 40-100                                                  | 220 | 1 | 260 |   |
| 473D- 85A   | 85-165                                                  | 320 | 1 | 430 |   |
| 473D- 8B    | 8- 25                                                   | 140 | 1 | 65  |   |
| 473D- 19B   | 19- 60                                                  | 170 | 1 | 150 |   |
| 473D- 40B   | 40-100                                                  | 220 | 1 | 260 |   |
| 473D- 85B   | 85-165                                                  | 320 | 1 | 430 |   |

## 474B Circlip Plier



| Application | for external circlips according to DIN 471 and DIN 983  |     |   |     |   |
|-------------|---------------------------------------------------------|-----|---|-----|---|
| Type        | <b>A:</b> black, <b>B:</b> chrome plated, polished head |     |   |     |   |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208               |     |   |     |   |
| Standard    | according to DIN 5254, form B, 90° bent                 |     |   |     |   |
| Stock-No.   | for circlips from...to Ø mm                             | mm  |   |     | g |
| 474B- 3A    | 3- 10                                                   | 135 | 1 | 70  |   |
| 474B- 10A   | 10- 25                                                  | 135 | 1 | 70  |   |
| 474B- 19A   | 19- 60                                                  | 170 | 1 | 165 |   |
| 474B- 40A   | 40-100                                                  | 220 | 1 | 260 |   |
| 474B- 85A   | 85-165                                                  | 320 | 1 | 440 |   |
| 474B- 10B   | 10- 25                                                  | 135 | 1 | 70  |   |
| 474B- 19B   | 19- 60                                                  | 170 | 1 | 165 |   |
| 474B- 40B   | 40-100                                                  | 220 | 1 | 260 |   |
| 474B- 85B   | 85-165                                                  | 320 | 1 | 440 |   |

## 449 TOP-KRAFT-Plier Dispenser

**New!**



| Application     | to be used as counter display or fixed on tool board                                       |          |          |    |      |
|-----------------|--------------------------------------------------------------------------------------------|----------|----------|----|------|
| Type            | yellow lacquered with sign for prices                                                      |          |          |    |      |
| Material        | Sheet steel                                                                                |          |          |    |      |
| Stock-No.       | Contents: 7 pcs. each                                                                      |          |          | kg |      |
| 449MB           | 470MB-200<br>471-45MB 200<br>476MB-170<br>477MB-170<br>490MB-165<br>495MB-185<br>495MB-205 | 1        | 12,3     |    |      |
| 449BI           | 470BI-200<br>471-45BI 200<br>476BI-170<br>477BI-170<br>490BI-165<br>495BI-185<br>495BI-205 | 1        | 13,8     |    |      |
| Stock-No. empty | Height mm                                                                                  | Width mm | Depth mm |    |      |
| 949L            | 125                                                                                        | 475      | 290      | 1  | 2720 |

## 469 Circlip Plier



| Application | for horse shoe circlips                   |   |     |   |  |
|-------------|-------------------------------------------|---|-----|---|--|
| Type        | chrome plated, polished head              |   |     |   |  |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |   |     |   |  |
| Stock-No.   | mm                                        |   |     | g |  |
| 469         | 175                                       | 1 | 170 |   |  |

**MS-24**
Module

|              |                                                                                                      |   |       |
|--------------|------------------------------------------------------------------------------------------------------|---|-------|
| Application  | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |   |       |
| Type         | Black, with transparent cover                                                                        |   |       |
| Material     | ABS                                                                                                  |   |       |
| Stock-No.    | Contents                                                                                             |   |       |
| <b>MS-24</b> | <b>Circlip Pliers</b>                                                                                | 1 | 650 g |
|              | 473C-19A Internal circlip plier                                                                      |   |       |
|              | 473D-19A Internal circlip plier                                                                      |   |       |
|              | 474A-19A External circlip plier                                                                      |   |       |
|              | 474B-19A External circlip plier                                                                      |   |       |

**MS-26**
Module

|              |                                                                                                      |   |       |
|--------------|------------------------------------------------------------------------------------------------------|---|-------|
| Application  | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220 |   |       |
| Type         | Black, with transparent cover                                                                        |   |       |
| Material     | ABS                                                                                                  |   |       |
| Stock-No.    | Contents                                                                                             |   |       |
| <b>MS-26</b> | <b>Circlip Pliers</b>                                                                                | 1 | 650 g |
|              | 473C-19B Internal circlip plier                                                                      |   |       |
|              | 473D-19B Internal circlip plier                                                                      |   |       |
|              | 474A-19B External circlip plier                                                                      |   |       |
|              | 474B-19B External circlip plier                                                                      |   |       |

**ELORA PROFI-Pliers**

solid and excellent value for money,  
for professional use

**370**
Flat Round Nose Plier

|                 |                                                                    |   |     |
|-----------------|--------------------------------------------------------------------|---|-----|
| Type            | black atramented, single joint polished, red cushion grip handles  |   |     |
| Material        | high grade tool steel C 45, Code No. 1.0503                        |   |     |
| Standard        | according to DIN / ISO 5745, long jaws, straight, with side cutter |   |     |
| Stock-No.       |                                                                    |   |     |
|                 | mm                                                                 |   | g   |
| <b>370- 160</b> | 165                                                                | 1 | 130 |
| <b>370- 200</b> | 200                                                                | 1 | 170 |

**371**
Flat Round Nose Plier

|                 |                                                                   |   |     |
|-----------------|-------------------------------------------------------------------|---|-----|
| Type            | black atramented, single joint polished, red cushion grip handles |   |     |
| Material        | high grade tool steel C 45, Code No. 1.0503                       |   |     |
| Standard        | long jaws, bent, with side cutter                                 |   |     |
| Stock-No.       |                                                                   |   |     |
|                 | mm                                                                |   | g   |
| <b>371- 160</b> | 165                                                               | 1 | 130 |
| <b>371- 200</b> | 200                                                               | 1 | 170 |

**376**
Flat Nose Plier

|                 |                                                                   |   |     |
|-----------------|-------------------------------------------------------------------|---|-----|
| Type            | black atramented, single joint polished, red cushion grip handles |   |     |
| Material        | high grade tool steel C 45, Code No. 1.0503                       |   |     |
| Standard        | according to DIN / ISO 5745, straight, with long, flat jaws       |   |     |
| Stock-No.       |                                                                   |   |     |
|                 | mm                                                                |   | g   |
| <b>376- 160</b> | 160                                                               | 1 | 140 |

**377**
Round Nose Plier

|                 |                                                                   |   |     |
|-----------------|-------------------------------------------------------------------|---|-----|
| Type            | black atramented, single joint polished, red cushion grip handles |   |     |
| Material        | high grade tool steel C 45, Code No. 1.0503                       |   |     |
| Standard        | according to DIN / ISO 5745, with long, round jaws                |   |     |
| Stock-No.       |                                                                   |   |     |
|                 | mm                                                                |   | g   |
| <b>377- 160</b> | 160                                                               | 1 | 140 |

**383C**
Circlip Plier

|                  |                                                        |     |       |
|------------------|--------------------------------------------------------|-----|-------|
| Application      | for internal circlips according to DIN 472 and DIN 984 |     |       |
| Type             | black finish, red cushion grip handles                 |     |       |
| Material         | Chrome-Vanadium 31 CrV 3, Code No. 1.2208              |     |       |
| Standard         | according to DIN 5256 form C, straight                 |     |       |
| Stock-No.        |                                                        |     |       |
|                  | for circlips from...to Ø mm                            | mm  | g     |
| <b>383C- 8A</b>  | 8- 25                                                  | 140 | 1 85  |
| <b>383C- 19A</b> | 19- 60                                                 | 180 | 1 145 |
| <b>383C- 40A</b> | 40-100                                                 | 220 | 1 225 |
| <b>383C- 85A</b> | 85-165                                                 | 320 | 1 440 |

**383D**
Circlip Plier

|                  |                                                        |     |       |
|------------------|--------------------------------------------------------|-----|-------|
| Application      | for internal circlips according to DIN 472 and DIN 984 |     |       |
| Type             | black finish, red cushion grip handles                 |     |       |
| Material         | Chrome-Vanadium 31 CrV 3, Code No. 1.2208              |     |       |
| Standard         | according to DIN 5256 form D, 90° bent                 |     |       |
| Stock-No.        |                                                        |     |       |
|                  | for circlips from...to Ø mm                            | mm  | g     |
| <b>383D- 8A</b>  | 8- 25                                                  | 130 | 1 85  |
| <b>383D- 19A</b> | 19- 60                                                 | 170 | 1 145 |
| <b>383D- 40A</b> | 40-100                                                 | 210 | 1 225 |
| <b>383D- 85A</b> | 85-165                                                 | 310 | 1 440 |

**384A**
Circlip Plier

|                  |                                                        |     |       |
|------------------|--------------------------------------------------------|-----|-------|
| Application      | for external circlips according to DIN 471 and DIN 983 |     |       |
| Type             | black finish, red cushion grip handles                 |     |       |
| Material         | Chrome-Vanadium 31 CrV 3, Code No. 1.2208              |     |       |
| Standard         | according to DIN 5256 form A, straight                 |     |       |
| Stock-No.        |                                                        |     |       |
|                  | for circlips from...to Ø mm                            | mm  | g     |
| <b>384A- 3A</b>  | 3- 10                                                  | 140 | 1 80  |
| <b>384A- 10A</b> | 10- 25                                                 | 140 | 1 80  |
| <b>384A- 19A</b> | 19- 60                                                 | 180 | 1 140 |
| <b>384A- 40A</b> | 40-100                                                 | 220 | 1 205 |
| <b>384A- 85A</b> | 85-165                                                 | 320 | 1 430 |

**384B**
Circlip Plier

|                  |                                                        |     |       |
|------------------|--------------------------------------------------------|-----|-------|
| Application      | for external circlips according to DIN 471 and DIN 983 |     |       |
| Type             | black finish, red cushion grip handles                 |     |       |
| Material         | Chrome-Vanadium 31 CrV 3, Code No. 1.2208              |     |       |
| Standard         | according to DIN 5256 form B, 90° bent                 |     |       |
| Stock-No.        |                                                        |     |       |
|                  | for circlips from...to Ø mm                            | mm  | g     |
| <b>384B- 3A</b>  | 3- 10                                                  | 130 | 1 80  |
| <b>384B- 10A</b> | 10- 25                                                 | 130 | 1 80  |
| <b>384B- 19A</b> | 19- 60                                                 | 170 | 1 140 |
| <b>384B- 40A</b> | 40-100                                                 | 210 | 1 205 |
| <b>384B- 85A</b> | 85-165                                                 | 310 | 1 430 |



## 389 Heavy Duty Diagonal Cutter



|             |                                                                   |     |   |     |
|-------------|-------------------------------------------------------------------|-----|---|-----|
| Application | for hard wire                                                     |     |   |     |
| Type        | black atramented, single joint polished, red cushion grip handles |     |   |     |
| Material    | high grade tool steel C 60, Code No. 1.0601                       |     |   |     |
| Standard    | according to DIN / ISO 5749, slip joint pattern                   |     |   |     |
| Stock-No.   | for hard wire up to Ø mm                                          | mm  |   |     |
| 389- 170    | 1,6                                                               | 165 | 1 | 220 |
| 389- 200    | 2,0                                                               | 200 | 1 | 260 |

## 395 Combination Plier



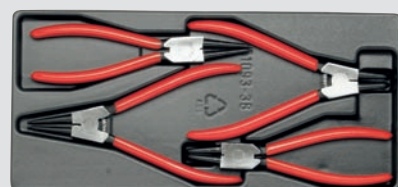
|             |                                                                   |   |     |   |
|-------------|-------------------------------------------------------------------|---|-----|---|
| Application | for hard wire                                                     |   |     |   |
| Type        | black atramented, single joint polished, red cushion grip handles |   |     |   |
| Material    | high grade tool steel C 45, Code No. 1.0503                       |   |     |   |
| Standard    | according to DIN / ISO 5746, for cutting of hard wire             |   |     |   |
| Stock-No.   | mm                                                                |   |     | g |
| 395- 160    | 160                                                               | 1 | 190 |   |
| 395- 180    | 180                                                               | 1 | 260 |   |
| 395- 200    | 200                                                               | 1 | 330 |   |

## 321 Carpenters Pincers



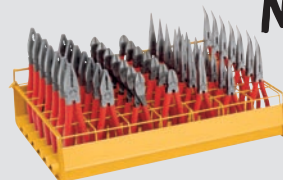
|           |                                             |   |     |
|-----------|---------------------------------------------|---|-----|
| Type      | black finish with polished head             |   |     |
| Material  | high grade tool steel C 45, Code No. 1.0503 |   |     |
| Standard  | according to DIN / ISO 9243, Form A         |   |     |
| Stock-No. | mm                                          |   |     |
| 321- 160  | 160                                         | 1 | 200 |
| 321- 180  | 180                                         | 1 | 290 |
| 321- 200  | 200                                         | 1 | 390 |
| 321- 225  | 230                                         | 1 | 640 |

## MS-25 Module



|             |                                                                                                                                                                |   |     |   |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|---|
| Application | For roller tool cabinet CADDY, Stock-No. 1200, BUDDY, Stock-No. 1210 and SUPER-CADDY, Stock-No. 1220                                                           |   |     |   |
| Type        | Black, with transparent cover                                                                                                                                  |   |     |   |
| Material    | ABS                                                                                                                                                            |   |     |   |
| Stock-No.   | Contents                                                                                                                                                       |   |     | g |
| MS-25       | Circlip Pliers<br>383C- 19A Internal circlip plier<br>383D- 19A Internal circlip plier<br>384A- 19A External circlip plier<br>384B- 19A External circlip plier | 1 | 610 |   |

## 349 Plier Dispenser



**New!**

|                 |                                                                           |          |          |        |
|-----------------|---------------------------------------------------------------------------|----------|----------|--------|
| Application     | to be used as counter display or fixed on tool board                      |          |          |        |
| Type            | yellow lacquered with sign for prices                                     |          |          |        |
| Material        | Sheet steel                                                               |          |          |        |
| Stock-No.       | Contents:<br>7 pcs. each                                                  |          |          | kg     |
| 349             | 370-160<br>370-200<br>371-200<br>389-170<br>392-160<br>395-180<br>395-200 | 1        | 13,1     |        |
| Stock-No. empty | Height mm                                                                 | Width mm | Depth mm |        |
| 949L            | 125                                                                       | 475      | 290      | 1 2720 |

## 499 Concrete and Steel Fixers Nipper



|           |                                             |   |     |
|-----------|---------------------------------------------|---|-----|
| Type      | black finish with polished head             |   |     |
| Material  | high grade tool steel C 45, Code No. 1.0503 |   |     |
| Standard  | according to DIN / ISO 9242, Form A         |   |     |
| Stock-No. | mm                                          |   |     |
| 499- 220  | 220                                         | 1 | 330 |
| 499- 250  | 250                                         | 1 | 390 |
| 499- 280  | 280                                         | 1 | 430 |

## 392 Diagonal Cutter



|             |                                                                   |     |   |     |
|-------------|-------------------------------------------------------------------|-----|---|-----|
| Application | for piano wire                                                    |     |   |     |
| Type        | black atramented, single joint polished, red cushion grip handles |     |   |     |
| Material    | high grade tool steel C 60, Code No. 1.0601                       |     |   |     |
| Standard    | according to DIN / ISO 5749                                       |     |   |     |
| Stock-No.   | for piano wire up to Ø mm                                         | mm  |   |     |
| 392- 145    | 1,5                                                               | 145 | 1 | 150 |
| 392- 160    | 2,0                                                               | 160 | 1 | 180 |

## 494AIT Wire Stripper



|             |                                                                                  |     |   |     |
|-------------|----------------------------------------------------------------------------------|-----|---|-----|
| Application | spring loaded, with locking adjustable screw for setting, cable cutting facility |     |   |     |
| Type        | black finish, red cushion grip handles                                           |     |   |     |
| Material    | Chrome-Vanadium 58 CrV 4, Code No. 1.2242                                        |     |   |     |
| Stock-No.   | for wire up to Ø mm                                                              | mm  |   |     |
| 494AIT      | 5                                                                                | 160 | 1 | 125 |



## 486 Lever End Cutter



| Application | for piano wire, spring loaded handles       |     |   |     |  |
|-------------|---------------------------------------------|-----|---|-----|--|
| Type        | black lacquered, head polished              |     |   |     |  |
| Material    | high grade tool steel C 60, Code No. 1.0601 |     |   |     |  |
| Standard    | according to DIN / ISO 5748                 |     |   |     |  |
| Stock-No.   | for piano wire up to Ø mm                   | mm  |   | g   |  |
| 486- 155    | 2,5                                         | 155 | 1 | 305 |  |
| 486- 180    | 3,0                                         | 180 | 1 | 425 |  |
| 486- 215    | 3,5                                         | 215 | 1 | 570 |  |
| 486- 235    | 4,0                                         | 235 | 1 | 755 |  |

## 487 Lever Diagonal Cutter



| Application | for piano wire, spring loaded handles       |     |   |     |  |
|-------------|---------------------------------------------|-----|---|-----|--|
| Type        | black lacquered, head polished              |     |   |     |  |
| Material    | high grade tool steel C 60, Code No. 1.0601 |     |   |     |  |
| Standard    | according to DIN / ISO 5749                 |     |   |     |  |
| Stock-No.   | for piano wire up to Ø mm                   | mm  |   | g   |  |
| 487- 190    | 3,0                                         | 195 | 1 | 440 |  |
| 487- 225    | 3,5                                         | 225 | 1 | 540 |  |
| 487- 260    | 4,3                                         | 245 | 1 | 690 |  |

## 288 Heavy Duty Bolt Cutter



| Application | for hard wire                 |                                |     |      |   |      |
|-------------|-------------------------------|--------------------------------|-----|------|---|------|
| Type        | with plastic grips            |                                |     |      |   |      |
| Material    | tubular steel handles         |                                |     |      |   |      |
| Stock-No.   | for soft wire up to 785 N/mm² | for hard wire up to 1226 N/mm² | mm  | inch |   | g    |
| 288- 260    | 5                             | 3                              | 250 | 10   | 1 | 460  |
| 288- 340    | 6                             | 5                              | 340 | 12   | 1 | 880  |
| 288- 400    | 7                             | 6                              | 400 | 15   | 1 | 960  |
| 288- 450    | 10                            | 7                              | 450 | 18   | 1 | 1560 |
| 288- 610    | 11                            | 9                              | 610 | 24   | 1 | 2330 |
| 288- 800    | 13                            | 11                             | 800 | 32   | 1 | 4390 |
| 288- 900    | 15                            | 13                             | 900 | 36   | 1 | 4740 |

## 289 Structural Steel Cutter



| Application | for hard wire                          |                                |     |      |   |      |
|-------------|----------------------------------------|--------------------------------|-----|------|---|------|
| Type        | jaws angled at 75°, with plastic grips |                                |     |      |   |      |
| Material    | tubular steel handles                  |                                |     |      |   |      |
| Stock-No.   | for soft wire up to 785 N/mm²          | for hard wire up to 1226 N/mm² | mm  | inch |   | g    |
| 289- 800    | 8                                      | 6                              | 800 | 32   | 1 | 2720 |
| 289- 900    | 9                                      | 7                              | 900 | 36   | 1 | 3320 |

## 288E Spare Jaws for Heavy Duty Bolt Cutter No. 288



| Application | for bolt cutter Stock-No. 288 |   |      |
|-------------|-------------------------------|---|------|
| Including   | with bolts and nuts           |   |      |
| Stock-No.   | for bolt cutter Stock-No.     |   | g    |
| 288E- 260   | 288-260                       | 1 | 270  |
| 288E- 340   | 288-340                       | 1 | 350  |
| 288E- 400   | 288-400                       | 1 | 350  |
| 288E- 450   | 288-450                       | 1 | 470  |
| 288E- 610   | 288-610                       | 1 | 800  |
| 288E- 800   | 288-800                       | 1 | 1490 |
| 288E- 900   | 288-900                       | 1 | 1490 |

## 289E Spare Jaws for Structural Steel Cutter No. 289



| Application | for structural steel cutter Stock-No. 289 |   |     |
|-------------|-------------------------------------------|---|-----|
| Including   | with bolts and nuts                       |   |     |
| Stock-No.   | for structural steel cutter Stock-No.     |   | g   |
| 289E- 800   | 289-800 and 289-900                       | 1 | 800 |

## 4490 Bag or Wire Twister



| Application | for fast and efficient closing of bags or reinforcing ties |   |     |
|-------------|------------------------------------------------------------|---|-----|
| Type        | with moulded plastic grip                                  |   |     |
| Stock-No.   | mm                                                         |   | g   |
| 4490        | 310                                                        | 1 | 410 |

## Tinmans Shears, Hand Nibblers, Shears

### 284 Tinmans Shear



| Application | for long straight cuts                                                |   |  |     |
|-------------|-----------------------------------------------------------------------|---|--|-----|
| Type        | Berlin pattern, pinch protection, right cutting, cushion grip handles |   |  |     |
| Material    | high grade tool steel                                                 |   |  |     |
| Stock-No.   | mm                                                                    |   |  | g   |
| 284- 225    | 225                                                                   | 1 |  | 390 |
| 284- 250    | 250                                                                   | 1 |  | 440 |

### 482 Profile Tinmans Shear



| Application | for short straight and profile cuts                                                             |   |  |     |
|-------------|-------------------------------------------------------------------------------------------------|---|--|-----|
| Type        | spring loaded handles, pinch protection, right cutting, with slim head and cushion grip handles |   |  |     |
| Material    | high grade tool steel                                                                           |   |  |     |
| Stock-No.   | mm                                                                                              |   |  | g   |
| 482- 215    | 215                                                                                             | 1 |  | 245 |

### 1483 Profile Tinmans Shear



|             |                                                                                  |                                                                                           |                                                                                     |                                                                                          |  |
|-------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--|
| Application | for short straight and profile cuts                                              |                                                                                           |                                                                                     |                                                                                          |  |
| Type        | pinch protection, left or right cutting,<br>cushion grip handles, with slim head |                                                                                           |                                                                                     |                                                                                          |  |
| Material    | high grade tool steel                                                            |                                                                                           |                                                                                     |                                                                                          |  |
| Stock-No.   |                                                                                  | <br>mm |  | <br>g |  |
| 1483L- 250  | left cutting                                                                     | 250                                                                                       | 1                                                                                   | 450                                                                                      |  |
| 1483R-250   | right cutting                                                                    | 250                                                                                       | 1                                                                                   | 450                                                                                      |  |

### 483 Lever Profile Tinmans Shear



|             |                                                                                                                                 |                                                                                             |                                                                                       |                                                                                            |  |
|-------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--|
| Application | for short straight and profile cuts, for sheet metal up to 1.8 mm and stainless steel up to 1.2 mm                              |                                                                                             |                                                                                       |                                                                                            |  |
| Type        | spring loaded handles with moulded plastic grips, right or left cutting, heads forged, blades double hardened, pinch protection |                                                                                             |                                                                                       |                                                                                            |  |
| Material    | high grade tool steel                                                                                                           |                                                                                             |                                                                                       |                                                                                            |  |
| Stock-No.   |                                                                                                                                 | <br>mm |  | <br>g |  |
| 483L        | left cutting                                                                                                                    | 260                                                                                         | 1                                                                                     | 475                                                                                        |  |
| 483R        | right cutting                                                                                                                   | 260                                                                                         | 1                                                                                     | 475                                                                                        |  |

### 1484 Offset Tinmans Shear



|             |                                                               |                                                                                           |                                                                                     |                                                                                          |  |
|-------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--|
| Application | for straight and profile cuts                                 |                                                                                           |                                                                                     |                                                                                          |  |
| Type        | pinch protection, left or right cutting, cushion grip handles |                                                                                           |                                                                                     |                                                                                          |  |
| Material    | high grade tool steel                                         |                                                                                           |                                                                                     |                                                                                          |  |
| Stock-No.   |                                                               | <br>mm |  | <br>g |  |
| 1484L- 260  | left cutting                                                  | 260                                                                                       | 1                                                                                   | 550                                                                                      |  |
| 1484R-260   | right cutting                                                 | 260                                                                                       | 1                                                                                   | 550                                                                                      |  |
| 1484L- 280  | left cutting                                                  | 280                                                                                       | 1                                                                                   | 600                                                                                      |  |
| 1484R-280   | right cutting                                                 | 280                                                                                       | 1                                                                                   | 600                                                                                      |  |

### 484 Offset Lever Tinmans Shear



|             |                                                                                                                                 |                                                                                             |                                                                                       |                                                                                            |  |
|-------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--|
| Application | for straight and profile cuts, for sheet metal up to 1.8 mm and stainless steel up to 1.2 mm                                    |                                                                                             |                                                                                       |                                                                                            |  |
| Type        | spring loaded handles with moulded plastic grips, right or left cutting, heads forged, blades double hardened, pinch protection |                                                                                             |                                                                                       |                                                                                            |  |
| Material    | high grade tool steel                                                                                                           |                                                                                             |                                                                                       |                                                                                            |  |
| Stock-No.   |                                                                                                                                 | <br>mm |  | <br>g |  |
| 484L        | left cutting                                                                                                                    | 260                                                                                         | 1                                                                                     | 515                                                                                        |  |
| 484R        | right cutting                                                                                                                   | 260                                                                                         | 1                                                                                     | 515                                                                                        |  |

## PLIERS, BOLT CUTTERS, SNIPS AND SHEARS

### 488 Tinmans Shear



|             |                                                               |
|-------------|---------------------------------------------------------------|
| Application | for short straight and profile cuts                           |
| Type        | pinch protection, left or right cutting, cushion grip handles |
| Material    | high grade tool steel                                         |

| Stock-No. |               | mm  |  | <br>g |
|-----------|---------------|-----|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 488L- 250 | left cutting  | 250 | 1                                                                                 | 490                                                                                    |
| 488R-250  | right cutting | 250 | 1                                                                                 | 490                                                                                    |
| 488L- 275 | left cutting  | 275 | 1                                                                                 | 530                                                                                    |
| 488R-275  | right cutting | 275 | 1                                                                                 | 530                                                                                    |
| 488L- 300 | left cutting  | 300 | 1                                                                                 | 570                                                                                    |
| 488R-300  | right cutting | 300 | 1                                                                                 | 570                                                                                    |

### 497 Tinmans Shear



|             |                                                                                |
|-------------|--------------------------------------------------------------------------------|
| Application | for long straight cuts                                                         |
| Type        | Pelikan pattern, pinch protection, left or right cutting, cushion grip handles |
| Material    | high grade tool steel                                                          |

| Stock-No. |               | mm  |  | <br>g |
|-----------|---------------|-----|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 497L- 300 | left cutting  | 300 | 1                                                                                   | 730                                                                                      |
| 497R-300  | right cutting | 300 | 1                                                                                   | 730                                                                                      |

### 481 Hand Nibbler



|             |                                                                                                                                                |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | for round and straight cut offs, without bending or distortion of cutting edges, for sheet metal up to 1.2 mm and plastic up to 2 mm thickness |
| Type        | spring loaded handles with plastic grips, nickel plated                                                                                        |

| Stock-No. | mm  |  | <br>g |
|-----------|-----|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 481- 1    | 275 | 1                                                                                   | 490                                                                                      |

### 481 Spare Parts for Hand Nibbler 481-1

| Stock-No. | mm |  | <br>g |
|-----------|----|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 481- 2    |    | 6                                                                                   | 6                                                                                        |
| 481- 3    |    | 6                                                                                   | 3                                                                                        |

### 498 Universal Snip



|             |                                                           |
|-------------|-----------------------------------------------------------|
| Application | cuts paper, plastic and other materials such as tin plate |
| Type        | spring loaded handles with plastic grips                  |
| Material    | stainless steel                                           |

| Stock-No. | mm  |  | <br>g |
|-----------|-----|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 498- 1    | 140 | 1                                                                                   | 50                                                                                       |
| 498- 2    | 190 | 1                                                                                   | 108                                                                                      |

### 498-5 Super Combi-Snip



|             |                                                            |
|-------------|------------------------------------------------------------|
| Application | cuts a wide range of material                              |
| Type        | spring loaded handles with plastic grips, with angled head |
| Material    | stainless steel                                            |

| Stock-No. | mm  |  | <br>g |
|-----------|-----|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 498- 5    | 185 | 1                                                                                     | 108                                                                                        |

### 498-7 Wire Snip



|             |                                          |
|-------------|------------------------------------------|
| Application | cuts wire up to 10 mm Ø                  |
| Type        | spring loaded handles with plastic grips |
| Material    | stainless steel                          |

| Stock-No. | mm  |  | <br>g |
|-----------|-----|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 498- 7    | 160 | 1                                                                                     | 114                                                                                        |





## **PUNCHING TOOLS BY ELORA – FOR SECURE AND EFFICIENT JOBS.**

The multiple component grip has also been transferred to hammers. 3 components improve on the safety of the handle, keep the hammers and club hammers oil resistant and reduce vibration during the working process.

### **HAMMERS, CHISELS PUNCHES VICES MARKING TOOLS 09**





## Hammers and Wrecking Bars

### 1665 Engineers Hammer



|          |                                                                  |  |  |  |
|----------|------------------------------------------------------------------|--|--|--|
| Type     | black lacquered, polished faces, pein and face ground, ash shaft |  |  |  |
| Standard | according to DIN 1041, German type, shaft according to DIN 5111  |  |  |  |

| Stock-No. | g    | mm  |   | g    |
|-----------|------|-----|---|------|
| 1665- 100 | 100  | 260 | 2 | 145  |
| 1665- 200 | 200  | 275 | 2 | 250  |
| 1665- 300 | 300  | 300 | 2 | 370  |
| 1665- 400 | 400  | 310 | 2 | 460  |
| 1665- 500 | 500  | 320 | 2 | 590  |
| 1665- 600 | 600  | 325 | 2 | 730  |
| 1665- 800 | 800  | 350 | 2 | 910  |
| 1665-1000 | 1000 | 355 | 2 | 1170 |
| 1665-1500 | 1500 | 380 | 2 | 1700 |
| 1665-2000 | 2000 | 400 | 2 | 2285 |

### 1665-K Engineers Hammer



|      |                                                                                         |  |  |  |
|------|-----------------------------------------------------------------------------------------|--|--|--|
| Type | with 3 component heavy duty safety handle, fixed mechanical, no backstroke or vibration |  |  |  |
|------|-----------------------------------------------------------------------------------------|--|--|--|

| Stock-No.  | g    | mm  |   | g    |
|------------|------|-----|---|------|
| 1665-K300  | 300  | 304 | 2 | 467  |
| 1665-K500  | 500  | 325 | 2 | 751  |
| 1665-K1000 | 1000 | 363 | 2 | 1372 |

### 1672 Club Hammer



|          |                                                    |  |  |  |
|----------|----------------------------------------------------|--|--|--|
| Type     | drop forged                                        |  |  |  |
| Standard | according to DIN 6475, shaft according to DIN 5135 |  |  |  |

| Stock-No.  | kg   | mm  |   | g    |
|------------|------|-----|---|------|
| 1672- 1000 | 1    | 260 | 2 | 1180 |
| 1672- 1250 | 1,25 | 260 | 2 | 1430 |
| 1672- 1500 | 1,5  | 280 | 2 | 1690 |
| 1672- 2000 | 2    | 300 | 2 | 2200 |

### 1665ST Handles for Stock-No. 1665



|          |               |  |  |  |
|----------|---------------|--|--|--|
| Type     | ash tree      |  |  |  |
| Standard | acc. DIN 5135 |  |  |  |

| Stock-No.   | g    | mm  |   | g   |
|-------------|------|-----|---|-----|
| 1665ST- 100 | 100  | 260 | 6 | 50  |
| 1665ST- 200 | 200  | 275 | 6 | 57  |
| 1665ST- 300 | 300  | 300 | 6 | 71  |
| 1665ST- 400 | 400  | 310 | 6 | 100 |
| 1665ST- 500 | 500  | 320 | 6 | 105 |
| 1665ST- 600 | 600  | 325 | 6 | 127 |
| 1665ST- 800 | 800  | 350 | 2 | 149 |
| 1665ST-1000 | 1000 | 355 | 2 | 157 |
| 1665ST-1500 | 1500 | 380 | 2 | 185 |
| 1665ST-2000 | 2000 | 400 | 2 | 285 |

### 1665KL Wedges for Stock-No. 1665



| Type        | steel-grey |    |   |    |
|-------------|------------|----|---|----|
| Stock-No.   | g          | mm |   | g  |
| 1665KL- 100 | 100        | 7  | 6 | 1  |
| 1665KL- 200 | 200        | 8  | 6 | 2  |
| 1665KL- 300 | 300        | 9  | 6 | 2  |
| 1665KL- 400 | 400        | 10 | 6 | 3  |
| 1665KL- 500 | 500        | 12 | 6 | 4  |
| 1665KL- 600 | 600        | 13 | 6 | 6  |
| 1665KL- 800 | 800        | 14 | 6 | 7  |
| 1665KL-1000 | 1000       | 15 | 6 | 8  |
| 1665KL-1500 | 1500       | 15 | 6 | 8  |
| 1665KL-2000 | 2000       | 16 | 6 | 11 |

### 1670 Engineers Ball Pein Hammer



|      |                                                                     |  |  |  |
|------|---------------------------------------------------------------------|--|--|--|
| Type | English type, black lacquered, ball pein and face ground, ash shaft |  |  |  |
|------|---------------------------------------------------------------------|--|--|--|

| Stock-No.   | Ball pein lb. | mm  |   | g    |
|-------------|---------------|-----|---|------|
| 1670- 1/2   | 1/2           | 295 | 2 | 310  |
| 1670- 3/4   | 3/4           | 315 | 2 | 465  |
| 1670- 1     | 1             | 335 | 2 | 555  |
| 1670- 1.1/2 | 1.1/2         | 365 | 2 | 825  |
| 1670- 2     | 2             | 375 | 2 | 1025 |

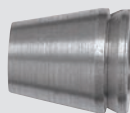
### 1670ST Handles for Stock-No. 1670



|          |               |  |  |  |
|----------|---------------|--|--|--|
| Type     | ash tree      |  |  |  |
| Standard | acc. DIN 5135 |  |  |  |

| Stock-No.    | Ball pein lb. | mm  |   | g   |
|--------------|---------------|-----|---|-----|
| 1670ST-1/2   | 1/2           | 295 | 6 | 81  |
| 1670ST-3/4   | 3/4           | 315 | 6 | 98  |
| 1670ST-1     | 1             | 335 | 6 | 105 |
| 1670ST-1.1/2 | 1.1/2         | 365 | 2 | 132 |
| 1670ST-2     | 2             | 375 | 2 | 150 |

### 1670KL Wedges for Stock-No. 1670



| Type         | steel-grey    |    |   |   |
|--------------|---------------|----|---|---|
| Stock-No.    | Ball pein lb. | mm |   | g |
| 1670KL-1/2   | 1/2           | 8  | 6 | 2 |
| 1670KL-3/4   | 3/4           | 10 | 6 | 3 |
| 1670KL-1     | 1             | 12 | 6 | 6 |
| 1670KL-1.1/2 | 1.1/2         | 13 | 6 | 7 |
| 1670KL-2     | 2             | 15 | 6 | 8 |

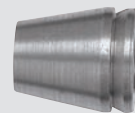
### 1672ST Handles for Stock-No. 1672



|          |               |  |  |  |
|----------|---------------|--|--|--|
| Type     | ash tree      |  |  |  |
| Standard | acc. DIN 5135 |  |  |  |

| Stock-No.   | g    | mm  |   | g   |
|-------------|------|-----|---|-----|
| 1672ST-1000 | 1000 | 260 | 6 | 82  |
| 1672ST-1250 | 1250 | 260 | 6 | 86  |
| 1672ST-1500 | 1500 | 280 | 6 | 115 |
| 1672ST-2000 | 2000 | 300 | 6 | 134 |

### 1672KL Wedges for Stock-No. 1672



| Type        | steel-grey |    |   |    |
|-------------|------------|----|---|----|
| Stock-No.   | g          | mm |   | g  |
| 1672KL-1000 | 1000       | 14 | 6 | 7  |
| 1672KL-1250 | 1250       | 15 | 6 | 8  |
| 1672KL-1500 | 1500       | 15 | 6 | 8  |
| 1672KL-2000 | 2000       | 16 | 6 | 11 |

### 1672-K Club Hammer



|      |                                                                                         |  |  |  |
|------|-----------------------------------------------------------------------------------------|--|--|--|
| Type | with 3 component heavy duty safety handle, fixed mechanical, no backstroke or vibration |  |  |  |
|------|-----------------------------------------------------------------------------------------|--|--|--|

| Stock-No.  | g    | mm  |   | g    |
|------------|------|-----|---|------|
| 1672-K800  | 800  | 260 | 2 | 1031 |
| 1672-K1000 | 1000 | 260 | 2 | 1215 |
| 1672-K1250 | 1250 | 260 | 2 | 1416 |
| 1672-K1500 | 1500 | 282 | 2 | 1816 |

## 1673 Sledge Hammer



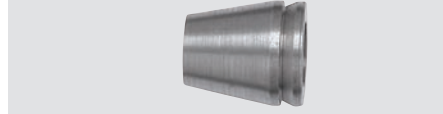
| Type       | drop forged, ash shaft |     |   |     |
|------------|------------------------|-----|---|-----|
| Standard   | according to DIN 1042  |     |   |     |
| Stock-No.  | kg                     | mm  |   | kg  |
| 1673- 3000 | 3                      | 900 | 1 | 3,7 |
| 1673- 4000 | 4                      | 900 | 1 | 4,6 |
| 1673- 5000 | 5                      | 900 | 1 | 5,6 |

## 1673ST Handles for Stock-No. 1673



| Type        | ash tree |     |   |     |
|-------------|----------|-----|---|-----|
| Stock-No.   | g        | mm  |   | g   |
| 1673ST-3000 | 3000     | 900 | 2 | 620 |
| 1673ST-4000 | 4000     | 900 | 2 | 625 |
| 1673ST-5000 | 5000     | 900 | 2 | 670 |

## 1673KL Wedges for Stock-No. 1673



| Type        | steel-grey |    |   |    |
|-------------|------------|----|---|----|
| Stock-No.   | g          | mm |   | g  |
| 1673KL-3000 | 3000       | 20 | 6 | 24 |
| 1673KL-4000 | 4000       | 20 | 6 | 24 |
| 1673KL-5000 | 5000       | 20 | 6 | 24 |

## 1678 Carpenters Hammer



| Type      | steel tube shaft with rubber grip |   |     |  |
|-----------|-----------------------------------|---|-----|--|
| Standard  | according to DIN 7239, Form C     |   |     |  |
| Stock-No. | mm                                |   | g   |  |
| 1678      | 320                               | 2 | 600 |  |

## 1680 Claw Hammer



| Type      | American type, steel tube shaft with black rubber grip, pein and face polished |     |   |     |
|-----------|--------------------------------------------------------------------------------|-----|---|-----|
| Stock-No. | Face in mm                                                                     | mm  |   | g   |
| 1680      | 28                                                                             | 330 | 2 | 765 |

## 1620 Rubber Mallet



| Type      | with two flat faces, ash shaft |                   |     |        |
|-----------|--------------------------------|-------------------|-----|--------|
| Standard  | according to DIN 5128, Form A  |                   |     |        |
| Stock-No. | Head Ø mm                      | Head-length in mm | mm  | g      |
| 1620- 65  | 65                             | 115               | 340 | 2 520  |
| 1620- 75  | 75                             | 130               | 380 | 2 750  |
| 1620- 90  | 90                             | 140               | 380 | 2 1130 |

## 1660 Soft Faced Hammer



| Type      | with replaceable faces                       |     |   |      |
|-----------|----------------------------------------------|-----|---|------|
| Material  | faces made from cellulose acetate, ash shaft |     |   |      |
| Stock-No. | Head Ø mm                                    | mm  |   | g    |
| 1660- 22  | 22                                           | 250 | 2 | 145  |
| 1660- 27  | 27                                           | 265 | 2 | 230  |
| 1660- 32  | 32                                           | 280 | 2 | 310  |
| 1660- 35  | 35                                           | 290 | 2 | 405  |
| 1660- 40  | 40                                           | 320 | 2 | 570  |
| 1660- 50  | 50                                           | 340 | 2 | 845  |
| 1660- 60  | 60                                           | 340 | 2 | 1345 |

## 1660E Spare Plastic Face for No.1660

| Assembly  | faces to be warmed in hot water before replaced |   |     |  |
|-----------|-------------------------------------------------|---|-----|--|
| Stock-No. | for                                             |   | g   |  |
| 1660E- 22 | 1660-22                                         | 6 | 6   |  |
| 1660E- 27 | 1660-27                                         | 6 | 14  |  |
| 1660E- 32 | 1660-32                                         | 6 | 22  |  |
| 1660E- 35 | 1660-35                                         | 6 | 28  |  |
| 1660E- 40 | 1660-40                                         | 6 | 35  |  |
| 1660E- 50 | 1660-50                                         | 6 | 68  |  |
| 1660E- 60 | 1660-60                                         | 6 | 106 |  |

## 1661 Soft Faced Hammer



| Type      | with replaceable white faces        |     |   |     |
|-----------|-------------------------------------|-----|---|-----|
| Material  | faces made from Desmopan, ash shaft |     |   |     |
| Stock-No. | Head Ø mm                           | mm  |   | g   |
| 1661- 22  | 22                                  | 250 | 2 | 142 |
| 1661- 32  | 32                                  | 280 | 2 | 330 |
| 1661- 40  | 40                                  | 320 | 2 | 535 |
| 1661- 50  | 50                                  | 335 | 2 | 855 |

## 1661E Spare Face for No. 1661

| Assembly  | faces to be warmed in hot water before replaced |   |     |  |
|-----------|-------------------------------------------------|---|-----|--|
| Stock-No. | for                                             |   | g   |  |
| 1661E- 22 | 1661-22                                         | 6 | 14  |  |
| 1661E- 32 | 1661-32                                         | 6 | 42  |  |
| 1661E- 40 | 1661-40                                         | 6 | 74  |  |
| 1661E- 50 | 1661-50                                         | 6 | 130 |  |

## 1660ST Handles for Stock-No. 1660



| Type      | ash tree |     |   |     |
|-----------|----------|-----|---|-----|
| Stock-No. | Ø mm     | mm  |   | g   |
| 1660ST-22 | 22       | 250 | 6 | 44  |
| 1660ST-27 | 27       | 265 | 6 | 51  |
| 1660ST-32 | 32       | 280 | 6 | 55  |
| 1660ST-35 | 35       | 290 | 6 | 58  |
| 1660ST-40 | 40       | 320 | 6 | 82  |
| 1660ST-50 | 50       | 340 | 6 | 90  |
| 1660ST-60 | 60       | 340 | 6 | 100 |

## 1660KL Wedges for Stock-No. 1660



| Type      | steel-grey |    |   |   |
|-----------|------------|----|---|---|
| Stock-No. | g          | mm |   | g |
| 1660KL-22 | 22         | 8  | 6 | 2 |
| 1660KL-27 | 27         | 10 | 6 | 3 |
| 1660KL-32 | 32         | 10 | 6 | 3 |
| 1660KL-35 | 35         | 10 | 6 | 5 |
| 1660KL-40 | 40         | 12 | 6 | 5 |
| 1660KL-50 | 50         | 13 | 6 | 6 |
| 1660KL-60 | 60         | 13 | 6 | 6 |

## 1690 "Dead Blow" Soft Face Hammer



| Application | hollow head partially filled with steel shot to prevent rebound at full striking power |     |   |       |
|-------------|----------------------------------------------------------------------------------------|-----|---|-------|
| Type        | lacquered, replaceable white faces                                                     |     |   |       |
| Material    | nylon faces, hickory shaft                                                             |     |   |       |
| Stock-No.   | Head<br>Ø mm                                                                           | mm  |   | <br>g |
| 1690- 20    | 20                                                                                     | 305 | 2 | 230   |
| 1690- 25    | 25                                                                                     | 305 | 2 | 310   |
| 1690- 30    | 30                                                                                     | 330 | 2 | 430   |
| 1690- 35    | 35                                                                                     | 330 | 2 | 550   |
| 1690- 40    | 40                                                                                     | 350 | 2 | 720   |
| 1690- 45    | 45                                                                                     | 365 | 2 | 850   |
| 1690- 50    | 50                                                                                     | 360 | 1 | 1030  |
| 1690- 60    | 60                                                                                     | 360 | 1 | 1750  |
| 1690- 70    | 70                                                                                     | 380 | 1 | 2290  |
| 1690- 80    | 80                                                                                     | 380 | 1 | 3200  |

## 1690E Spare Nylon Faces for Stock-No. 1690

| Stock-No. | for     |   | <br>g |
|-----------|---------|---|-------|
| 1690E- 20 | 1690-20 | 6 | 6     |
| 1690E- 25 | 1690-25 | 6 | 10    |
| 1690E- 30 | 1690-30 | 6 | 18    |
| 1690E- 35 | 1690-35 | 6 | 24    |
| 1690E- 40 | 1690-40 | 6 | 32    |
| 1690E- 45 | 1690-45 | 6 | 40    |
| 1690E- 50 | 1690-50 | 2 | 55    |
| 1690E- 60 | 1690-60 | 2 | 95    |
| 1690E- 70 | 1690-70 | 2 | 130   |
| 1690E- 80 | 1690-80 | 2 | 200   |

## 1685 SIMPLEX Soft Faced Hammer



| Application | for use with faces Stock-No. 1687E (faces not included in price) |     |   |       |
|-------------|------------------------------------------------------------------|-----|---|-------|
| Type        | lacquered, for replaceable faces                                 |     |   |       |
| Material    | diecast housing, hardwood shaft                                  |     |   |       |
| Stock-No.   | for faces<br>Ø mm                                                | mm  |   | <br>g |
| 1685- 30    | 30                                                               | 300 | 2 | 380   |
| 1685- 40    | 40                                                               | 330 | 2 | 720   |
| 1685- 50    | 50                                                               | 370 | 2 | 890   |
| 1685- 60    | 60                                                               | 405 | 1 | 1150  |
| 1685- 80    | 80                                                               | 495 | 1 | 2210  |

## 1686 SIMPLEX Soft Faced Hammer



| Application | for use with faces Stock-No. 1687E (faces not included in price) |     |   |       |
|-------------|------------------------------------------------------------------|-----|---|-------|
| Type        | lacquered, for replaceable faces                                 |     |   |       |
| Material    | light alloy housing, hardwood shaft                              |     |   |       |
| Stock-No.   | for faces<br>Ø mm                                                | mm  |   | <br>g |
| 1686- 30    | 30                                                               | 300 | 2 | 205   |
| 1686- 40    | 40                                                               | 350 | 2 | 375   |
| 1686- 50    | 50                                                               | 370 | 2 | 450   |
| 1686- 60    | 60                                                               | 405 | 1 | 555   |

## 1687E Faces For Stock-No. 1685 and 1686



| Application   | for use with SIMPLEX Soft Faced Hammer Stock-No. 1685 and 1686 |                 |        |                |   |       |
|---------------|----------------------------------------------------------------|-----------------|--------|----------------|---|-------|
| Type          | see below                                                      |                 |        |                |   |       |
| Material      | see below                                                      |                 |        |                |   |       |
| Stock-No.     | Face<br>Ø mm                                                   | Material        | Colour | Strike         |   | <br>g |
| 1687E- TPS 30 | 30                                                             | TPE-soft        | blue   | soft strike    | 6 | 24    |
| 1687E- TPS 40 | 40                                                             | TPE-soft        | blue   | soft strike    | 6 | 51    |
| 1687E- TPS 50 | 50                                                             | TPE-soft        | blue   | soft strike    | 2 | 97    |
| 1687E- TPS 60 | 60                                                             | TPE-soft        | blue   | soft strike    | 1 | 150   |
| 1687E- GU 30  | 30                                                             | Rubber          | black  | medium strike  | 6 | 34    |
| 1687E- GU 40  | 40                                                             | Rubber          | black  | medium strike  | 6 | 78    |
| 1687E- GU 50  | 50                                                             | Rubber          | black  | medium strike  | 2 | 130   |
| 1687E- GU 60  | 60                                                             | Rubber          | black  | medium strike  | 1 | 250   |
| 1687E- GU 80  | 80                                                             | Rubber          | black  | medium strike  | 1 | 505   |
| 1687E- SK 30  | 30                                                             | Special plastic | white  | medium strike  | 6 | 22    |
| 1687E- SK 40  | 40                                                             | Special plastic | white  | medium strike  | 6 | 52    |
| 1687E- SK 50  | 50                                                             | Special plastic | white  | medium strike  | 2 | 98    |
| 1687E- SK 60  | 60                                                             | Special plastic | white  | medium strike  | 1 | 160   |
| 1687E- SK 80  | 80                                                             | Special plastic | white  | medium strike  | 1 | 325   |
| 1687E- TPM 30 | 30                                                             | TPE-mid         | grey   | medium strike  | 6 | 24    |
| 1687E- TPM 40 | 40                                                             | TPE-mid         | grey   | medium strike  | 6 | 51    |
| 1687E- TPM 50 | 50                                                             | TPE-mid         | grey   | medium strike  | 2 | 97    |
| 1687E- TPM 60 | 60                                                             | TPE-mid         | grey   | medium strike  | 1 | 140   |
| 1687E- KU 30  | 30                                                             | Plastic         | red    | hard strike    | 6 | 26    |
| 1687E- KU 40  | 40                                                             | Plastic         | red    | hard strike    | 6 | 58    |
| 1687E- KU 50  | 50                                                             | Plastic         | red    | hard strike    | 2 | 116   |
| 1687E- KU 60  | 60                                                             | Plastic         | red    | hard strike    | 1 | 180   |
| 1687E- NY 30  | 30                                                             | Nylon           | white  | hardest strike | 6 | 28    |
| 1687E- NY 40  | 40                                                             | Nylon           | white  | hardest strike | 6 | 64    |
| 1687E- NY 50  | 50                                                             | Nylon           | white  | hardest strike | 2 | 120   |
| 1687E- NY 60  | 60                                                             | Nylon           | white  | hardest strike | 1 | 200   |
| 1687E- NY 80  | 80                                                             | Nylon           | white  | hardest strike | 1 | 405   |
| 1687E- WM 30  | 30                                                             | Soft metal      | silver | top impact     | 6 | 50    |
| 1687E- WM 40  | 40                                                             | Soft metal      | silver | top impact     | 6 | 122   |
| 1687E- WM 50  | 50                                                             | Soft metal      | silver | top impact     | 2 | 250   |
| 1687E- WM 60  | 60                                                             | Soft metal      | silver | top impact     | 1 | 405   |
| 1687E- WM 80  | 80                                                             | Soft metal      | silver | top impact     | 1 | 805   |

## 1675 Wrecking Bar



Standard according to DIN 14853

| Stock-No. | mm  |   | g    |
|-----------|-----|---|------|
| 1675- 600 | 600 | 5 | 1300 |
| 1675- 800 | 800 | 5 | 2600 |

## Cold Chisels

with non spread safety heads.  
Shank black lacquered, blade polished

## 260 Flat Cold Chisel



Application for use on metal

Type flat oval section shank

Material Chrome-Vanadium 59 CrV 4, Code No. 1.2242

Standard according to DIN 6453

| Stock-No. | mm  | Width of tip mm | Shank mm |   | g   |
|-----------|-----|-----------------|----------|---|-----|
| 260- 100  | 100 | 15              | 14 × 9   | 5 | 78  |
| 260- 125  | 125 | 15              | 14 × 9   | 5 | 140 |
| 260- 150  | 150 | 18              | 17 × 11  | 5 | 180 |
| 260- 175  | 175 | 21              | 20 × 12  | 5 | 280 |
| 260- 200  | 200 | 24              | 23 × 13  | 5 | 405 |
| 260- 250  | 250 | 25              | 23 × 13  | 5 | 505 |
| 260- 300  | 300 | 26              | 23 × 13  | 5 | 605 |
| 260- 400  | 400 | 32              | 26 × 13  | 5 | 910 |

## 261 Cross Cut Chisel



Application for use on metal

Type flat oval section shank

Material Chrome-Vanadium 59 CrV 4, Code No. 1.2242

Standard according to DIN 6451

| Stock-No. | mm  | Width of tip mm | Shank mm |   | g   |
|-----------|-----|-----------------|----------|---|-----|
| 261- 125  | 125 | 5               | 14 × 9   | 5 | 190 |
| 261- 150  | 150 | 6               | 17 × 11  | 5 | 215 |
| 261- 175  | 175 | 7               | 17 × 11  | 5 | 250 |
| 261- 200  | 200 | 8               | 20 × 12  | 5 | 380 |
| 261- 250  | 250 | 9               | 23 × 13  | 5 | 530 |
| 261- 300  | 300 | 9               | 23 × 13  | 5 | 555 |

## 262 Flat Cold Chisel



Application for use on metal

Type octagon section shank

Material Chrome-Vanadium 58 CrV 4, Code No. 1.8161

| Stock-No. | mm  | Width of tip mm | Octagon mm |   | g   |
|-----------|-----|-----------------|------------|---|-----|
| 262- 100  | 100 | 10              | 8          | 5 | 56  |
| 262- 125  | 125 | 12              | 10         | 5 | 68  |
| 262- 150  | 150 | 16              | 12         | 5 | 118 |
| 262- 175  | 175 | 20              | 14         | 5 | 210 |
| 262- 200  | 200 | 22              | 16         | 5 | 310 |
| 262- 250  | 250 | 26              | 18         | 5 | 490 |
| 262- 300  | 300 | 26              | 18         | 5 | 595 |

## 263 Cross Cut Chisel



Application for use on metal

Type octagon section shank

Material Chrome-Vanadium 58 CrV 4, Code No. 1.8161

| Stock-No. | mm  | Width of tip mm | Octagon mm |   | g   |
|-----------|-----|-----------------|------------|---|-----|
| 263- 100  | 100 | 4               | 8          | 5 | 34  |
| 263- 125  | 125 | 5               | 10         | 5 | 62  |
| 263- 150  | 150 | 6               | 12         | 5 | 108 |
| 263- 175  | 175 | 8               | 14         | 5 | 180 |
| 263- 200  | 200 | 9               | 16         | 5 | 310 |
| 263- 250  | 250 | 10              | 18         | 5 | 445 |
| 263- 300  | 300 | 12              | 20         | 5 | 670 |

## 269 Grooving Chisel



|             |                                           |
|-------------|-------------------------------------------|
| Application | for oil grooves                           |
| Type        | octagon section shank                     |
| Material    | Chrome-Vanadium 58 CrV 4, Code No. 1.8161 |
| Standard    | according to DIN 6455                     |

| Stock-No.     | mm  | Width of tip<br>mm | Octagon<br>mm |   | g   |
|---------------|-----|--------------------|---------------|---|-----|
| 269- 150×12×2 | 150 | 2                  | 12            | 5 | 108 |
| 269- 150×12×3 | 150 | 3                  | 12            | 5 | 110 |
| 269- 150×12×4 | 150 | 4                  | 12            | 5 | 113 |
| 269- 150×12×5 | 150 | 5                  | 12            | 5 | 115 |
| 269- 150×12×6 | 150 | 6                  | 12            | 5 | 118 |

## 364 Point Chisel



|             |                                           |
|-------------|-------------------------------------------|
| Application | for use on stones                         |
| Type        | octagon section shank                     |
| Material    | Chrome-Vanadium 58 CrV 4, Code No. 1.8161 |
| Standard    | according to DIN 7256                     |

| Stock-No. | mm  | Octagon<br>mm |   | g    |
|-----------|-----|---------------|---|------|
| 364- 200  | 200 | 16            | 5 | 270  |
| 364- 250  | 250 | 16            | 5 | 350  |
| 364- 300  | 300 | 18            | 5 | 545  |
| 364- 350  | 350 | 18            | 5 | 670  |
| 364- 400  | 400 | 20            | 5 | 950  |
| 364- 500  | 500 | 20            | 5 | 1175 |

## 362 Stone Chisel



|             |                                           |
|-------------|-------------------------------------------|
| Application | for use on stones                         |
| Type        | flat oval section shank                   |
| Material    | Chrome-Vanadium 59 CrV 4, Code No. 1.2242 |
| Standard    | according to DIN 7254, Form A             |

| Stock-No. | mm  | Width of tip<br>mm | Shank<br>mm |   | g    |
|-----------|-----|--------------------|-------------|---|------|
| 362- 200  | 200 | 26                 | 20 × 12     | 5 | 300  |
| 362- 250  | 250 | 26                 | 20 × 12     | 5 | 410  |
| 362- 300  | 300 | 29                 | 23 × 13     | 5 | 610  |
| 362- 350  | 350 | 29                 | 23 × 13     | 5 | 690  |
| 362- 400  | 400 | 29                 | 23 × 13     | 5 | 820  |
| 362- 500  | 500 | 35                 | 26 × 13     | 5 | 1165 |

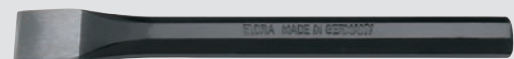
## 365 Electricians Chisel



|             |                                           |
|-------------|-------------------------------------------|
| Application | for use on masonry                        |
| Type        | square section shank                      |
| Material    | Chrome-Vanadium 59 CrV 4, Code No. 1.2242 |

| Stock-No.     | mm  | Width of tip<br>mm | Shank<br>mm |   | g   |
|---------------|-----|--------------------|-------------|---|-----|
| 365-200× 6× 8 | 200 | 8                  | 6 × 8       | 5 | 95  |
| 365-200× 8×10 | 200 | 10                 | 8 × 10      | 5 | 115 |
| 365-250× 8×10 | 250 | 10                 | 8 × 10      | 5 | 135 |
| 365-250×10×15 | 250 | 15                 | 10 × 15     | 5 | 220 |
| 365-250×12×12 | 250 | 12                 | 12 × 12     | 5 | 310 |

## 363 Stone Chisel



|             |                                           |
|-------------|-------------------------------------------|
| Application | for use on stones                         |
| Type        | octagon section shank                     |
| Material    | Chrome-Vanadium 58 CrV 4, Code No. 1.8161 |
| Standard    | according to DIN 7254, Form B             |

| Stock-No. | mm  | Width of tip<br>mm | Octagon<br>mm |   | g    |
|-----------|-----|--------------------|---------------|---|------|
| 363- 200  | 200 | 23                 | 16            | 5 | 310  |
| 363- 250  | 250 | 23                 | 16            | 5 | 485  |
| 363- 300  | 300 | 26                 | 18            | 5 | 585  |
| 363- 400  | 400 | 26                 | 18            | 5 | 775  |
| 363- 500  | 500 | 30                 | 20            | 5 | 1210 |

## 283HS Universal Chisel Grip and Hand Guard



|             |                                      |                                                   |
|-------------|--------------------------------------|---------------------------------------------------|
| Application | for chisel shanks: flat oval octagon | from 20 × 12 up to 26 × 13 mm from 16 up to 20 mm |
| Material    | made from impact resistant rubber    |                                                   |

| Stock-No. | mm  |   | g   |
|-----------|-----|---|-----|
| 283HS     | 130 | 6 | 125 |



## 361 Slit Chisel



| Application | for use on car bodies and for small slits |                    |             |                                                                                   |                                                                                     |
|-------------|-------------------------------------------|--------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type        | extra flat                                |                    |             |                                                                                   |                                                                                     |
| Material    | Chrome-Vanadium 59 CrV 4, Code No. 1.2242 |                    |             |                                                                                   |                                                                                     |
| Stock-No.   | mm                                        | Width of tip<br>mm | Shank<br>mm |  |  g |
| 361         | 240                                       | 26                 | 26 × 7      | 5                                                                                 | 280                                                                                 |

## 361HS Chisel Grip and Hand Guard for Stock-No. 361



| Application | for use with slit chisel Stock-No. 361 |                                                                                    |                                                                                      |  |  |
|-------------|----------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--|--|
| Material    | made from impact resistant rubber      |                                                                                    |                                                                                      |  |  |
| Stock-No.   | mm                                     |  |  g |  |  |
| 361HS       | 130                                    | 6                                                                                  | 94                                                                                   |  |  |

## Centre and Taper Pin Punches, Parallel Pin Punches

with non spread safety heads,  
with octagon shaft, black lacquered

## 265 Centre Punch



| Type      | taper section ground                          |             |               |                                                                                     |                                                                                       |
|-----------|-----------------------------------------------|-------------|---------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Material  | Chrome-Molybdenum 45 CrMoV 7, Code No. 1.2328 |             |               |                                                                                     |                                                                                       |
| Standard  | according to DIN 7250                         |             |               |                                                                                     |                                                                                       |
| Stock-No. | mm                                            | Tip-Ø<br>mm | Octagon<br>mm |  |  g |
| 265- 8    | 100                                           | 3           | 8             | 10                                                                                  | 34                                                                                    |
| 265- 10   | 120                                           | 4           | 10            | 10                                                                                  | 65                                                                                    |
| 265- 12   | 120                                           | 5           | 12            | 10                                                                                  | 90                                                                                    |
| 265- 12L  | 150                                           | 5           | 12            | 10                                                                                  | 120                                                                                   |

## 264 Taper Pin Punch



| Type            | taper section ground                          |               |             |                                                                                     |                                                                                       |
|-----------------|-----------------------------------------------|---------------|-------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Material        | Chrome-Molybdenum 45 CrMoV 7, Code No. 1.2328 |               |             |                                                                                     |                                                                                       |
| Standard        | according to DIN 6458                         |               |             |                                                                                     |                                                                                       |
| Stock-No.       | mm                                            | Octagon<br>mm | Tip-Ø<br>mm |  |  g |
| 264- 120×10×1   | 120                                           | 10            | 1,0         | 10                                                                                  | 58                                                                                    |
| 264- 120×10×1,5 | 120                                           | 10            | 1,5         | 10                                                                                  | 62                                                                                    |
| 264- 120×10×2   | 120                                           | 10            | 2,0         | 10                                                                                  | 58                                                                                    |
| 264- 120×10×2,5 | 120                                           | 10            | 2,5         | 10                                                                                  | 60                                                                                    |
| 264- 120×10×3   | 120                                           | 10            | 3,0         | 10                                                                                  | 62                                                                                    |
| 264- 120×10×3,5 | 120                                           | 10            | 3,5         | 10                                                                                  | 64                                                                                    |
| 264- 120×10×4   | 120                                           | 10            | 4,0         | 10                                                                                  | 64                                                                                    |
| 264- 120×10×4,5 | 120                                           | 10            | 4,5         | 10                                                                                  | 64                                                                                    |
| 264- 120×10×5   | 120                                           | 10            | 5,0         | 10                                                                                  | 66                                                                                    |
| 264- 120×10×6   | 120                                           | 10            | 6,0         | 10                                                                                  | 66                                                                                    |
| 264- 120×10×7   | 120                                           | 10            | 7,0         | 10                                                                                  | 72                                                                                    |
| 264- 120×10×8   | 120                                           | 10            | 8,0         | 10                                                                                  | 72                                                                                    |
| 264- 120×12×1   | 120                                           | 12            | 1,0         | 10                                                                                  | 82                                                                                    |
| 264- 120×12×1,5 | 120                                           | 12            | 1,5         | 10                                                                                  | 82                                                                                    |
| 264- 120×12×2   | 120                                           | 12            | 2,0         | 10                                                                                  | 86                                                                                    |
| 264- 120×12×2,5 | 120                                           | 12            | 2,5         | 10                                                                                  | 86                                                                                    |
| 264- 120×12×3   | 120                                           | 12            | 3,0         | 10                                                                                  | 88                                                                                    |
| 264- 120×12×3,5 | 120                                           | 12            | 3,5         | 10                                                                                  | 88                                                                                    |
| 264- 120×12×4   | 120                                           | 12            | 4,0         | 10                                                                                  | 90                                                                                    |
| 264- 120×12×4,5 | 120                                           | 12            | 4,5         | 10                                                                                  | 90                                                                                    |
| 264- 120×12×5   | 120                                           | 12            | 5,0         | 10                                                                                  | 94                                                                                    |
| 264- 120×12×6   | 120                                           | 12            | 6,0         | 10                                                                                  | 96                                                                                    |
| 264- 120×12×7   | 120                                           | 12            | 7,0         | 10                                                                                  | 96                                                                                    |
| 264- 120×12×8   | 120                                           | 12            | 8,0         | 10                                                                                  | 98                                                                                    |
| 264- 120×12×9   | 120                                           | 12            | 9,0         | 10                                                                                  | 98                                                                                    |
| 264- 120×12×10  | 120                                           | 12            | 10,0        | 10                                                                                  | 104                                                                                   |
| 264- 150×12×1   | 150                                           | 12            | 1,0         | 10                                                                                  | 116                                                                                   |
| 264- 150×12×1,5 | 150                                           | 12            | 1,5         | 10                                                                                  | 116                                                                                   |
| 264- 150×12×2   | 150                                           | 12            | 2,0         | 10                                                                                  | 116                                                                                   |
| 264- 150×12×2,5 | 150                                           | 12            | 2,5         | 10                                                                                  | 116                                                                                   |
| 264- 150×12×3   | 150                                           | 12            | 3,0         | 10                                                                                  | 118                                                                                   |
| 264- 150×12×3,5 | 150                                           | 12            | 3,5         | 10                                                                                  | 118                                                                                   |
| 264- 150×12×4   | 150                                           | 12            | 4,0         | 10                                                                                  | 120                                                                                   |
| 264- 150×12×4,5 | 150                                           | 12            | 4,5         | 10                                                                                  | 120                                                                                   |
| 264- 150×12×5   | 150                                           | 12            | 5,0         | 10                                                                                  | 120                                                                                   |
| 264- 150×12×6   | 150                                           | 12            | 6,0         | 10                                                                                  | 124                                                                                   |
| 264- 150×12×7   | 150                                           | 12            | 7,0         | 10                                                                                  | 124                                                                                   |
| 264- 150×12×8   | 150                                           | 12            | 8,0         | 10                                                                                  | 124                                                                                   |
| 264- 150×12×9   | 150                                           | 12            | 9,0         | 10                                                                                  | 126                                                                                   |
| 264- 150×12×10  | 150                                           | 12            | 10,0        | 10                                                                                  | 130                                                                                   |

## 271 Parallel Pin Punch



| Type      | front section ground                      |             |                            |               |                                                                                   |                                                                                        |
|-----------|-------------------------------------------|-------------|----------------------------|---------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Material  | Chrome-Vanadium 58 CrV 4, Code No. 1.8161 |             |                            |               |                                                                                   |                                                                                        |
| Standard  | according to DIN 6450                     |             |                            |               |                                                                                   |                                                                                        |
| Stock-No. | mm                                        | Tip-Ø<br>mm | Front section<br>Length mm | Octagon<br>mm |  | <br>g |
| 271- 2    | 150                                       | 2,0         | 30                         | 10            | 10                                                                                | 70                                                                                     |
| 271- 2,5  | 150                                       | 2,5         | 30                         | 10            | 10                                                                                | 66                                                                                     |
| 271- 3    | 150                                       | 3,0         | 40                         | 10            | 10                                                                                | 66                                                                                     |
| 271- 3,5  | 150                                       | 3,5         | 40                         | 10            | 10                                                                                | 66                                                                                     |
| 271- 4    | 150                                       | 4,0         | 50                         | 10            | 10                                                                                | 66                                                                                     |
| 271- 4L   | 175                                       | 4,0         | 80                         | 10            | 10                                                                                | 62                                                                                     |
| 271- 4,5  | 150                                       | 4,5         | 50                         | 10            | 10                                                                                | 64                                                                                     |
| 271- 5    | 150                                       | 5,0         | 50                         | 10            | 10                                                                                | 66                                                                                     |
| 271- 6    | 150                                       | 6,0         | 50                         | 10            | 10                                                                                | 70                                                                                     |
| 271- 6L   | 175                                       | 6,0         | 80                         | 10            | 10                                                                                | 70                                                                                     |
| 271- 7    | 150                                       | 7,0         | 50                         | 12            | 10                                                                                | 102                                                                                    |
| 271- 8    | 150                                       | 8,0         | 50                         | 12            | 10                                                                                | 108                                                                                    |
| 271- 9    | 150                                       | 9,0         | 50                         | 12            | 10                                                                                | 112                                                                                    |
| 271-10    | 150                                       | 10,0        | 50                         | 12            | 10                                                                                | 100                                                                                    |

## Chisel and Punch Units

## 264K Taper Pin and Centre Punch Set



| Type      | in metal storage case                                                                                                              |                                                                                     |                                                                                          |
|-----------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Stock-No. | Contents<br>1 piece of each                                                                                                        |  | <br>g |
| 264K      | 264-120 × 10 × 1 mm<br>264-120 × 10 × 2 mm<br>264-120 × 10 × 3 mm<br>264-120 × 10 × 4 mm<br>264-120 × 10 × 5 mm<br>265-120 × 10 mm | 1                                                                                   | 780                                                                                      |

## 264KS Taper Pin and Centre Punch Set



| Type      | in plastic storage box                                                                                                             |                                                                                       |                                                                                            |
|-----------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Stock-No. | Contents<br>1 piece of each                                                                                                        |  | <br>g |
| 264KS     | 264-120 × 10 × 1 mm<br>264-120 × 10 × 2 mm<br>264-120 × 10 × 3 mm<br>264-120 × 10 × 4 mm<br>264-120 × 10 × 5 mm<br>265-120 × 10 mm | 1                                                                                     | 780                                                                                        |

## 266K Chisel and Punch Set



| Type        | in metal storage case                                                                                   |   |       |
|-------------|---------------------------------------------------------------------------------------------------------|---|-------|
| Stock-No.   | Contents<br>1 piece of each                                                                             |   | <br>g |
| <b>266K</b> | 262-125 mm<br>262-150 mm<br>263-125 mm<br>264-120 × 10 × 4 mm<br>264-120 × 12 × 4 mm<br>265-120 × 10 mm | 1 | 890   |

## 271K Parallel Pin Punch Set



| Type        | in metal storage case                                                                                    |   |       |
|-------------|----------------------------------------------------------------------------------------------------------|---|-------|
| Stock-No.   | Contents<br>1 piece of each                                                                              |   | <br>g |
| <b>271K</b> | 271-150 × 2 mm<br>271-150 × 3 mm<br>271-150 × 4 mm<br>271-150 × 5 mm<br>271-150 × 6 mm<br>271-150 × 8 mm | 1 | 815   |

## 266KS Chisel and Punch Set



| Type         | in plastic storage box                                                                                  |   |       |
|--------------|---------------------------------------------------------------------------------------------------------|---|-------|
| Stock-No.    | Contents<br>1 piece of each                                                                             |   | <br>g |
| <b>266KS</b> | 262-125 mm<br>262-150 mm<br>263-125 mm<br>264-120 × 10 × 4 mm<br>264-120 × 12 × 4 mm<br>265-120 × 10 mm | 1 | 580   |

## 271KS Parallel Pin Punch Set



| Type         | in plastic storage box                                                                                   |   |       |
|--------------|----------------------------------------------------------------------------------------------------------|---|-------|
| Stock-No.    | Contents<br>1 piece of each                                                                              |   | <br>g |
| <b>271KS</b> | 271-150 × 2 mm<br>271-150 × 3 mm<br>271-150 × 4 mm<br>271-150 × 5 mm<br>271-150 × 6 mm<br>271-150 × 8 mm | 1 | 540   |

## 266S Chisel and Punch Set



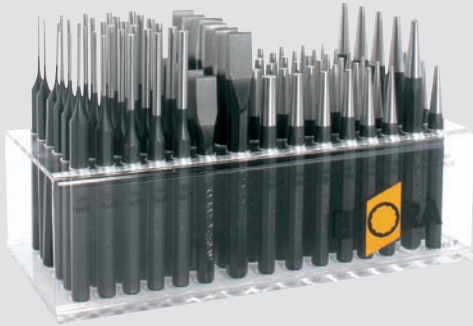
| Type        | in wooden storage box                                                                                   |   |       |
|-------------|---------------------------------------------------------------------------------------------------------|---|-------|
| Stock-No.   | Contents<br>1 piece of each                                                                             |   | <br>g |
| <b>266S</b> | 262-125 mm<br>262-150 mm<br>263-125 mm<br>264-120 × 10 × 4 mm<br>264-120 × 12 × 4 mm<br>265-120 × 10 mm | 1 | 655   |

## 271S Parallel Pin Punch Set



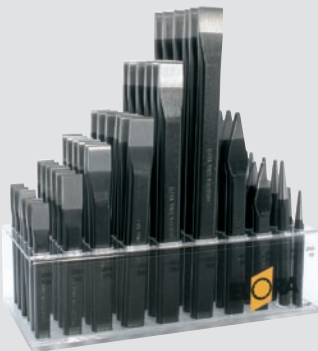
| Type        | in wooden storage box                                                                                    |   |       |
|-------------|----------------------------------------------------------------------------------------------------------|---|-------|
| Stock-No.   | Contents<br>1 piece of each                                                                              |   | <br>g |
| <b>271S</b> | 271-150 × 2 mm<br>271-150 × 3 mm<br>271-150 × 4 mm<br>271-150 × 5 mm<br>271-150 × 6 mm<br>271-150 × 8 mm | 1 | 580   |

## 266P Chisel and Punch Dispenser Unit



| Contents  | flat cold chisels, taper pin punches, centre punches, parallel pin punches |             |   |     |  |
|-----------|----------------------------------------------------------------------------|-------------|---|-----|--|
| Type      | transparent acrylic sheeting                                               |             |   |     |  |
| Stock-No. | Contents                                                                   | pieces each |   |     |  |
| 266P      | Flat cold chisels 262-125 mm                                               | 5           | 1 | 7,7 |  |
|           | 262-150 mm                                                                 | 6           |   |     |  |
|           | Taper pin punches 264-120 × 10 × 2 mm                                      | 6           |   |     |  |
|           | 264-120 × 10 × 3 mm                                                        | 6           |   |     |  |
|           | 264-120 × 10 × 4 mm                                                        | 6           |   |     |  |
|           | 264-120 × 10 × 5 mm                                                        | 6           |   |     |  |
|           | 264-120 × 10 × 6 mm                                                        | 6           |   |     |  |
|           | 264-120 × 10 × 8 mm                                                        | 5           |   |     |  |
|           | Centre punches 265-120 × 10 mm                                             | 6           |   |     |  |
|           | 265-150 × 12 mm                                                            | 5           |   |     |  |
|           | Parallel pin punches 271- 2 × 150 mm                                       | 6           |   |     |  |
|           | 271- 3 × 150 mm                                                            | 6           |   |     |  |
|           | 271- 4 × 150 mm                                                            | 6           |   |     |  |
|           | 271- 5 × 150 mm                                                            | 6           |   |     |  |
|           | 271- 6 × 150 mm                                                            | 6           |   |     |  |

## 266HP Chisel and Punch Dispenser Unit



| Contents  | flat cold and cross cut chisels, centre punches |                  |   |      |  |
|-----------|-------------------------------------------------|------------------|---|------|--|
| Type      | transparent acrylic sheeting                    |                  |   |      |  |
| Stock-No. | Contents                                        | 6 pieces of each |   |      |  |
| 266HP     | Flat cold chisels 260-125 mm                    |                  | 1 | 19,8 |  |
|           | 260-150 mm                                      |                  |   |      |  |
|           | 260-175 mm                                      |                  |   |      |  |
|           | 260-200 mm                                      |                  |   |      |  |
|           | 260-250 mm                                      |                  |   |      |  |
|           | 260-300 mm                                      |                  |   |      |  |
|           | Cross cut chisels 261-150 mm                    |                  |   |      |  |
|           | 261-200 mm                                      |                  |   |      |  |
|           | Centre punches 265-120 × 10 mm                  |                  |   |      |  |
|           | 265-150 × 12 mm                                 |                  |   |      |  |

## Bench Vices nad Accessories

### 1495 Parallel Bench Vice



| Features  | large anvil, extra large opening, adjustable guide |            |                |   |      |
|-----------|----------------------------------------------------|------------|----------------|---|------|
| Type      | drop forged, hardened, black lacquered             |            |                |   |      |
| Material  | steel C 43                                         |            |                |   |      |
| Stock-No. | Width of jaws mm                                   | Opening mm | Anvil L × B mm |   |      |
| 1495- 115 | 115                                                | 140        | 45 × 63        | 1 | 7,8  |
| 1495- 135 | 135                                                | 170        | 57 × 75        | 1 | 14,0 |
| 1495- 150 | 150                                                | 190        | 65 × 80        | 1 | 18,5 |

### 1495D Swivel Base for Stock-No. 1495



| Application | for use with parallel bench vice Stock-No. 1495 |      |   |       |  |
|-------------|-------------------------------------------------|------|---|-------|--|
| Type        | turning vice 360°, black lacquered              |      |   |       |  |
| Stock-No.   | for bench vice Stock-No.                        | Ø mm |   |       |  |
| 1495D- 115  | 1495-115                                        | 165  | 1 | 0,580 |  |
| 1495D- 135  | 1495-135                                        | 195  | 1 | 1,080 |  |
| 1495D- 150  | 1495-150                                        | 225  | 1 | 1,400 |  |

### 1495L Gas Pressure Elevator for Stock-No. 1495



| Application | for comfortable height adjusting of bench vices or/and workpieces, for use with parallel bench vice Stock-No. 1495-115 or -135 |   |      |  |  |
|-------------|--------------------------------------------------------------------------------------------------------------------------------|---|------|--|--|
| Type        | Height range: up to 240 mm, turning vice 360°, black lacquered                                                                 |   |      |  |  |
| Features    | Gas pressure                                                                                                                   |   |      |  |  |
| Stock-No.   | for bench vice Stock-No.                                                                                                       |   |      |  |  |
| 1495L- 115  | 1495-115                                                                                                                       | 1 | 8,80 |  |  |
| 1495L- 135  | 1495-135                                                                                                                       | 1 | 9,15 |  |  |

## 1500 Parallel Bench Vice



| Features  | large anvil, chip removal groove |               |             |   |        |
|-----------|----------------------------------|---------------|-------------|---|--------|
| Type      | all steel, hardened jaws         |               |             |   |        |
| Stock-No. | Width of jaws<br>mm              | Opening<br>mm | Anvil<br>mm |   | <br>kg |
| 1500- 1   | 75                               | 45            | 70×45       | 1 | 2,7    |
| 1500- 2   | 100                              | 53            | 88×59       | 1 | 5,4    |
| 1500- 3   | 125                              | 72            | 116×80      | 1 | 10,5   |
| 1500- 4   | 150                              | 90            | 132×90      | 1 | 15,0   |
| 1500- 5   | 175                              | 90            | 132×90      | 1 | 15,5   |

## 1500A+K Jaw Caps for Bench Vice



| Application | suitable for all bench vices                          |   |       |
|-------------|-------------------------------------------------------|---|-------|
| Features    | with prism and magnetic strip for safe fixing on jaws |   |       |
| Material    | A: alloy, K: plastic                                  |   |       |
| Stock-No.   | mm                                                    |   | <br>g |
| 1500A- 80   | 80                                                    | 6 | 58    |
| 1500A-100   | 100                                                   | 6 | 72    |
| 1500A-125   | 125                                                   | 6 | 90    |
| 1500A-150   | 150                                                   | 6 | 110   |
| 1500K- 80   | 80                                                    | 6 | 26    |
| 1500K-100   | 100                                                   | 6 | 34    |
| 1500K-125   | 125                                                   | 6 | 40    |
| 1500K-150   | 150                                                   | 6 | 48    |

## Marking Tools, Figure and Letter Stamps

### 400Z Figure Marking Punch Set



| Application | for marking in steel                            |             |   |       |
|-------------|-------------------------------------------------|-------------|---|-------|
| Type        | set of 9 figures: 0 – 9, in plastic storage box |             |   |       |
| Standard    | according to DIN 1451                           |             |   |       |
| Stock-No.   | Size of figures<br>mm                           | Shank<br>mm |   | <br>g |
| 400Z- 2     | 2                                               | 6× 65       | 1 | 165   |
| 400Z- 3     | 3                                               | 6× 65       | 1 | 170   |
| 400Z- 4     | 4                                               | 7× 65       | 1 | 230   |
| 400Z- 5     | 5                                               | 8× 65       | 1 | 295   |
| 400Z- 6     | 6                                               | 9× 70       | 1 | 400   |
| 400Z- 7     | 7                                               | 10× 75      | 1 | 530   |
| 400Z- 8     | 8                                               | 11× 75      | 1 | 635   |
| 400Z-10     | 10                                              | 12× 80      | 1 | 820   |
| 400Z-12     | 12                                              | 14× 80      | 1 | 1110  |
| 400Z-15     | 15                                              | 16× 90      | 1 | 1610  |
| 400Z-20     | 20                                              | 18×100      | 1 | 2205  |

### 400B Letter Marking Punch Set



| Application | for marking in steel                                        |             |   |       |
|-------------|-------------------------------------------------------------|-------------|---|-------|
| Type        | set of 27 BIG LETTERS A – Z and “&”, in plastic storage box |             |   |       |
| Standard    | according to DIN 1451                                       |             |   |       |
| Stock-No.   | Size of letters<br>mm                                       | Shank<br>mm |   | <br>g |
| 400B- 2     | 2                                                           | 6× 65       | 1 | 490   |
| 400B- 3     | 3                                                           | 6× 65       | 1 | 495   |
| 400B- 4     | 4                                                           | 7× 65       | 1 | 670   |
| 400B- 5     | 5                                                           | 8× 65       | 1 | 865   |
| 400B- 6     | 6                                                           | 9× 70       | 1 | 1180  |
| 400B- 7     | 7                                                           | 10× 75      | 1 | 1560  |
| 400B- 8     | 8                                                           | 11× 75      | 1 | 1895  |
| 400B-10     | 10                                                          | 12× 80      | 1 | 2440  |
| 400B-12     | 12                                                          | 14× 80      | 1 | 4500  |
| 400B-15     | 15                                                          | 16× 90      | 1 | 4700  |
| 400B-20     | 20                                                          | 18×100      | 1 | 6590  |



## Punching Tools

## 285 Wad Punch



Application for carton, leather, rubber and other soft materials

Type lacquered, channel polished

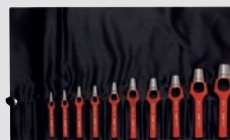
Material high grade tool steel

Standard according to DIN 7200, Form A

| Stock-No. | Ø<br>mm | l<br>mm | g  |
|-----------|---------|---------|----|
| 285- 2    | 2       | 105     | 12 |
| 285- 3    | 3       | 105     | 12 |
| 285- 4    | 4       | 105     | 12 |
| 285- 5    | 5       | 110     | 12 |
| 285- 6    | 6       | 110     | 12 |
| 285- 7    | 7       | 120     | 12 |
| 285- 8    | 8       | 120     | 12 |
| 285- 9    | 9       | 120     | 12 |
| 285-10    | 10      | 130     | 12 |
| 285-11    | 11      | 130     | 12 |
| 285-12    | 12      | 130     | 12 |
| 285-13    | 13      | 140     | 6  |
| 285-14    | 14      | 140     | 6  |
| 285-15    | 15      | 140     | 6  |
| 285-16    | 16      | 140     | 6  |
| 285-17    | 17      | 145     | 6  |
| 285-18    | 18      | 145     | 6  |
| 285-19    | 19      | 145     | 6  |
| 285-20    | 20      | 160     | 6  |
| 285-21    | 21      | 160     | 6  |
| 285-22    | 22      | 160     | 6  |
| 285-23    | 23      | 165     | 3  |
| 285-24    | 24      | 165     | 3  |
| 285-25    | 25      | 170     | 3  |
| 285-26    | 26      | 170     | 3  |
| 285-27    | 27      | 175     | 3  |
| 285-28    | 28      | 175     | 3  |
| 285-29    | 29      | 175     | 3  |
| 285-30    | 30      | 190     | 3  |
| 285-31    | 31      | 190     | 3  |
| 285-32    | 32      | 190     | 3  |
| 285-33    | 33      | 195     | 1  |
| 285-34    | 34      | 195     | 1  |
| 285-35    | 35      | 195     | 1  |
| 285-36    | 36      | 195     | 1  |
| 285-37    | 37      | 205     | 1  |
| 285-38    | 38      | 205     | 1  |
| 285-39    | 39      | 210     | 1  |
| 285-40    | 40      | 210     | 1  |
| 285-41    | 41      | 210     | 1  |
| 285-42    | 42      | 220     | 1  |
| 285-43    | 43      | 220     | 1  |
| 285-44    | 44      | 220     | 1  |
| 285-45    | 45      | 220     | 1  |
| 285-46    | 46      | 220     | 1  |
| 285-47    | 47      | 230     | 1  |
| 285-48    | 48      | 230     | 1  |
| 285-49    | 49      | 230     | 1  |
| 285-50    | 50      | 230     | 1  |
| 285-51    | 51      | 230     | 1  |

| Stock-No. | Ø<br>mm | l<br>mm | g |
|-----------|---------|---------|---|
| 285-52    | 52      | 245     | 1 |
| 285-53    | 53      | 245     | 1 |
| 285-54    | 54      | 245     | 1 |
| 285-55    | 55      | 245     | 1 |
| 285-56    | 56      | 260     | 1 |
| 285-57    | 57      | 260     | 1 |
| 285-58    | 58      | 260     | 1 |
| 285-59    | 59      | 260     | 1 |
| 285-60    | 60      | 260     | 1 |
| 285-61    | 61      | 260     | 1 |
| 285-62    | 62      | 260     | 1 |
| 285-63    | 63      | 260     | 1 |
| 285-64    | 64      | 260     | 1 |
| 285-65    | 65      | 260     | 1 |
| 285-66    | 66      | 300     | 1 |
| 285-67    | 67      | 300     | 1 |
| 285-68    | 68      | 300     | 1 |
| 285-69    | 69      | 300     | 1 |
| 285-70    | 70      | 300     | 1 |
| 285-71    | 71      | 300     | 1 |
| 285-72    | 72      | 300     | 1 |
| 285-73    | 73      | 300     | 1 |
| 285-74    | 74      | 300     | 1 |
| 285-75    | 75      | 300     | 1 |
| 285-76    | 76      | 340     | 1 |
| 285-77    | 77      | 340     | 1 |
| 285-78    | 78      | 340     | 1 |
| 285-79    | 79      | 340     | 1 |
| 285-80    | 80      | 340     | 1 |

## 285S Wad Punch Set



New!

Type in black plastic wallet

| Stock-No. | Contents                              | g      |
|-----------|---------------------------------------|--------|
| 285 S8    | 3; 6; 8; 10; 12; 16; 20; 25 mm        | 1 1475 |
| 285 S10   | 3; 5; 7; 8; 10; 13; 16; 19; 22; 25 mm | 1 1775 |

## 286 Belt Punch



Application for carton, leather, rubber and other soft materials

Type lacquered, channel polished

Material high grade tool steel

Standard according to DIN 7200, Form B

| Stock-No. | Ø<br>mm | l<br>mm | g  |
|-----------|---------|---------|----|
| 286- 1    | 1       | 105     | 12 |
| 286- 2    | 2       | 105     | 12 |
| 286- 3    | 3       | 105     | 12 |
| 286- 4    | 4       | 110     | 12 |
| 286- 5    | 5       | 115     | 12 |
| 286- 6    | 6       | 115     | 12 |
| 286- 7    | 7       | 120     | 12 |
| 286- 8    | 8       | 120     | 12 |
| 286- 9    | 9       | 125     | 12 |
| 286-10    | 10      | 125     | 12 |
| 286-11    | 11      | 125     | 12 |
| 286-12    | 12      | 130     | 12 |
| 286-13    | 13      | 130     | 6  |
| 286-14    | 14      | 135     | 6  |
| 286-15    | 15      | 135     | 6  |
| 286-16    | 16      | 140     | 6  |
| 286-17    | 17      | 140     | 6  |
| 286-18    | 18      | 150     | 6  |
| 286-19    | 19      | 150     | 6  |
| 286-20    | 20      | 155     | 6  |
| 286-21    | 21      | 155     | 6  |
| 286-22    | 22      | 155     | 6  |
| 286-23    | 23      | 155     | 3  |
| 286-24    | 24      | 160     | 3  |
| 286-25    | 25      | 160     | 3  |

## 745 Round Awl



Type chrome plated, with impact resistant red transparent plastic handle

Material high grade tool steel

| Stock-No. | mm        | g    |
|-----------|-----------|------|
| 745       | 100 x Ø 6 | 6 75 |

## 746 Square Awl



Type chrome plated, with impact resistant red transparent plastic handle

Material high grade tool steel

| Stock-No. | mm        | g    |
|-----------|-----------|------|
| 746       | 100 x Ø 6 | 6 75 |

## Revolving Punch Pliers, Eyes, Push Buttons, Rivets

**458** Combined Revolving Punch and Eyelet Plier

| Application | for pre-punching and pressing of eyes                          |                                  |                                                                                   |                                                                                     |
|-------------|----------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type        | nickel plated, with black ergonomically formed plastic handles |                                  |                                                                                   |                                                                                     |
| Material    | pressed steel frame                                            |                                  |                                                                                   |                                                                                     |
| Stock-No.   | mm                                                             | Suitable eyes                    |  |  g |
| <b>458</b>  | 210                                                            | 458S-4,5<br>458S-5,0<br>458S-5,5 | 1                                                                                 | 320                                                                                 |

**460** Revolving Punch Plier with Leverage

| Application | 70% power savings by leverage, for punching thin and strong awnings, leather, textile and thin metal sheet |                                                                                     |                                                                                       |
|-------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type        | nickel plated, with black ergonomically formed plastic handles                                             |                                                                                     |                                                                                       |
| Material    | pressed steel frame                                                                                        |                                                                                     |                                                                                       |
| Stock-No.   | mm                                                                                                         |  |  g |
| <b>460</b>  | 250                                                                                                        | 1                                                                                   | 430                                                                                   |

**458S** Eyes

| Application      | 458S-4,5 and 5,0: for use with Stock-No. 458<br>458S-5,5: for use with Stock-No. 458 |      |                                                                                     |                                                                                       |
|------------------|--------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type             | nickel plated                                                                        |      |                                                                                     |                                                                                       |
| Material         | sheet metal                                                                          |      |                                                                                     |                                                                                       |
| Stock-No.        | Contents                                                                             | Ø mm |  |  g |
| <b>458S- 4,5</b> | 100 Eyes                                                                             | 4,5  | 1                                                                                   | 20                                                                                    |
| <b>458S- 5,0</b> | 100 Eyes                                                                             | 5,0  | 1                                                                                   | 26                                                                                    |
| <b>458S- 5,5</b> | 100 Eyes                                                                             | 5,5  | 1                                                                                   | 26                                                                                    |

**461** Revolving Punch Plier

| Application | for punching leather                                           |                                                                                       |                                                                                         |
|-------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Type        | nickel plated, with black ergonomically formed plastic handles |                                                                                       |                                                                                         |
| Material    | pressed steel frame                                            |                                                                                       |                                                                                         |
| Stock-No.   | mm                                                             |  |  g |
| <b>461</b>  | 210                                                            | 1                                                                                     | 300                                                                                     |



## THE RIGHT TOOLS FOR INTELLIGENT INSTALLATIONS – AN ASSORTMENT FOR MANY PURPOSES.

If you are looking for a grip plier – we are sure that ELORA can provide you with exactly what you need. You will also find a wide range of adjustable wrenches and a wide variety of water-pump pliers and other plumbing tools.

### GRIP PLIERS, PIPE WRENCHES, PLUMBER TOOLS

**10**



Grip Pliers

All Grip Pliers with quick release lever  
Jaws made from Chrome-Vanadium 31 CrV 3, Code No. 1.2208, drop forged or heat treated die cast aluminium alloy

500H

Grip Holder for ELORA-Grip Pliers



All grip pliers marked with this symbol can be used with the grip holder Stock-No. 500H.



|             |                                                              |     |                                                                                   |                                                                                     |
|-------------|--------------------------------------------------------------|-----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Application | for fixing ELORA grip pliers for use similar as a bench vise |     |                                                                                   |                                                                                     |
| Type        | nickel plated                                                |     |                                                                                   |                                                                                     |
| Material    | special steel                                                |     |                                                                                   |                                                                                     |
| Stock-No.   | Capacity mm                                                  | mm  |  |  g |
| 500H        | 0 – 50                                                       | 110 | 1                                                                                 | 200                                                                                 |

500P

Grip Plier





500P- 180/250

|           |                                                    |     |                                                                                     |                                                                                       |
|-----------|----------------------------------------------------|-----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type      | with one straight and one prism jaw, nickel plated |     |                                                                                     |                                                                                       |
| Stock-No. | Capacity mm                                        | mm  |  |  g |
| 500P- 180 | 25                                                 | 180 | 1                                                                                   | 280                                                                                   |
| 500P- 250 | 45                                                 | 250 | 1                                                                                   | 750                                                                                   |
| 500P- 300 | 45                                                 | 300 | 1                                                                                   | 975                                                                                   |

500

Grip Plier





500- 180/250

|           |                                             |     |                                                                                     |                                                                                       |
|-----------|---------------------------------------------|-----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type      | curved jaws with wire cutter, nickel plated |     |                                                                                     |                                                                                       |
| Stock-No. | Capacity mm                                 | mm  |  |  g |
| 500- 125  | 25                                          | 125 | 1                                                                                   | 195                                                                                   |
| 500- 180  | 35                                          | 180 | 1                                                                                   | 360                                                                                   |
| 500- 250  | 50                                          | 250 | 1                                                                                   | 570                                                                                   |
| 500- 300  | 65                                          | 300 | 1                                                                                   | 895                                                                                   |

500G

Grip Plier





500G- 250

|           |                              |     |                                                                                       |                                                                                         |
|-----------|------------------------------|-----|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Type      | straight jaws, nickel plated |     |                                                                                       |                                                                                         |
| Stock-No. | Capacity mm                  | mm  |  |  g |
| 500G- 250 | 40                           | 250 | 1                                                                                     | 510                                                                                     |



The pocket “bench vise” —  
The Grip Holder 500H allows the use of ELORA Grip Pliers  
as a kind of clamping instrument for mobile use



## 501 Grip Plier



| Type      | jaws parallel in all positions, nickel plated |     |   |     |  |
|-----------|-----------------------------------------------|-----|---|-----|--|
| Stock-No. | Capacity<br>mm                                | mm  |   | g   |  |
| 501       | 45                                            | 250 | 1 | 575 |  |

## 506 Grip Plier



| Application | parallel joint jaws                   |     |   |     |  |
|-------------|---------------------------------------|-----|---|-----|--|
| Type        | forged jaws 80 mm wide, nickel plated |     |   |     |  |
| Stock-No.   | Capacity<br>mm                        | mm  |   | g   |  |
| 506- 50     | 25                                    | 255 | 1 | 705 |  |

## 502 Grip Plier



| Type      | curved jaws, nickel plated |     |   |     |  |
|-----------|----------------------------|-----|---|-----|--|
| Stock-No. | Capacity<br>mm             | mm  |   | g   |  |
| 502- 180  | 45                         | 180 | 1 | 365 |  |
| 502- 250  | 45                         | 250 | 1 | 570 |  |

## 507-165 C-Clamp Welders Grip Plier



| Application | for use instead of clamps,<br>for use with many awkward shapes,<br>507-1655 with flexible steel jaws |                    |     |   |     |
|-------------|------------------------------------------------------------------------------------------------------|--------------------|-----|---|-----|
| Type        | nickel plated                                                                                        |                    |     |   |     |
| Stock-No.   | Capacity<br>mm                                                                                       | Radial range<br>mm | mm  |   | g   |
| 507- 165    | 0 – 60                                                                                               | 45                 | 165 | 1 | 230 |
| 507- 1655   | 0 – 50                                                                                               | 45                 | 165 | 1 | 250 |

## 505 Parallel-Grip Plier



| Application | for use of even small round parts                                                            |                       |                    |   |      |
|-------------|----------------------------------------------------------------------------------------------|-----------------------|--------------------|---|------|
| Type        | jaws parallel in all positions, stepless adjustment up to 100 respect. 200 mm, nickel plated |                       |                    |   |      |
| Stock-No.   | mm                                                                                           | Clamping<br>height mm | Radial range<br>mm |   | g    |
| 505- 100    | 280                                                                                          | 100                   | 65                 | 1 | 950  |
| 505- 200    | 280                                                                                          | 200                   | 65                 | 1 | 1100 |

## 505K Protection Cap for 505



| Application | to protect delicate surfaces,<br>for use with Parallel-Grip Plier Stock-No. 505 |  |  |  |   |
|-------------|---------------------------------------------------------------------------------|--|--|--|---|
| Stock-No.   |                                                                                 |  |  |  | g |
| 505K        | 2                                                                               |  |  |  | 5 |

**507-280 C-Clamp Welders Grip Plier**

**Application** for use instead of clamps,  
for use with many awkward shapes,  
**507-280S** with flexible steel jaws

**Type** nickel plated

| Stock-No.        | Capacity<br>mm | Radial range<br>mm | mm  |  | <br>g |
|------------------|----------------|--------------------|-----|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>507- 280</b>  | 0 – 100        | 70                 | 300 | 1                                                                                 | 890                                                                                    |
| <b>507- 280S</b> | 0 – 70         | 90                 | 300 | 1                                                                                 | 960                                                                                    |

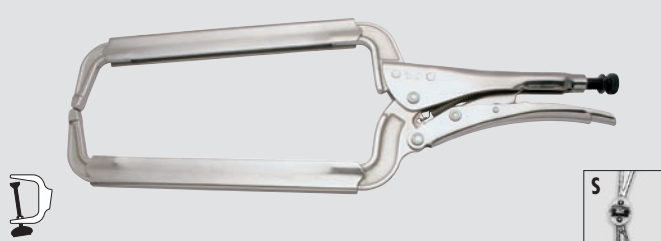
**507A Aluminium C-Clamp Welders Grip Plier**

**Special features** reduce of weight approx. 40%,  
welding pellets do not adhere to aluminium

**Application** to clamp even awkward shapes

**Material** jaws made from heat treated die cast aluminium alloy

| Stock-No.        | Capacity<br>mm | Radial range<br>mm | mm  |  | <br>g |
|------------------|----------------|--------------------|-----|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>507A- 300</b> | 0 – 90         | 70                 | 300 | 1                                                                                   | 640                                                                                      |
| <b>507A- 360</b> | 0 – 180        | 140                | 360 | 1                                                                                   | 870                                                                                      |

**507-460 C-Clamp Welders Grip Plier**

**Application** for use instead of clamps,  
for use with many awkward shapes,  
**507-460S** with flexible steel jaws

**Type** nickel plated

| Stock-No.        | Capacity<br>mm | Radial range<br>mm | mm  |  | <br>g |
|------------------|----------------|--------------------|-----|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>507- 460</b>  | 0 – 260        | 250                | 460 | 1                                                                                   | 1340                                                                                     |
| <b>507- 460S</b> | 0 – 230        | 240                | 460 | 1                                                                                   | 1480                                                                                     |

**508 Long-Nose Grip Plier**

**Application** for use in narrow and deep sections

**Type** long and slim jaws, nickel plated

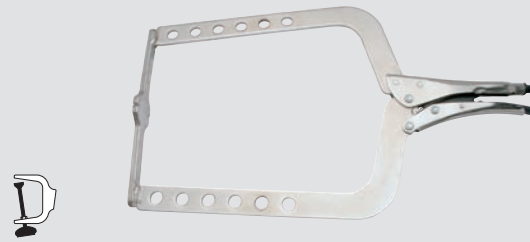
| Stock-No.       | Capacity<br>mm | mm  |  | <br>g |
|-----------------|----------------|-----|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>508- 165</b> | 0 – 55         | 165 | 1                                                                                     | 180                                                                                        |
| <b>508- 235</b> | 0 – 70         | 235 | 1                                                                                     | 400                                                                                        |
| <b>508- 300</b> | 0 – 130        | 300 | 1                                                                                     | 480                                                                                        |

**507-600 C-Clamp Welders Grip Plier**

**Application** for use instead of clamps,  
for use with many awkward shapes,  
**507-600S** with flexible steel jaws

**Type** nickel plated

| Stock-No.        | Capacity<br>mm | Radial range<br>mm | mm  |  | <br>g |
|------------------|----------------|--------------------|-----|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>507- 600</b>  | 0 – 400        | 400                | 630 | 1                                                                                   | 1630                                                                                     |
| <b>507- 600S</b> | 0 – 400        | 400                | 630 | 1                                                                                   | 1810                                                                                     |

**509 Welders Grip Plier**

**Application** to clamp many awkward shapes,  
specially large panels

**Type** nickel plated

| Stock-No.       | Capacity<br>mm | Radial range<br>mm | mm  |  | <br>g |
|-----------------|----------------|--------------------|-----|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>509- 500</b> | 0 – 270        | 300                | 500 | 1                                                                                     | 1785                                                                                       |

## 509A Aluminium Welders Grip Plier



| Special features | reduce of weight approx. 50%, welding pellets do not adhere to aluminium |                 |     |   |     |
|------------------|--------------------------------------------------------------------------|-----------------|-----|---|-----|
| Application      | to clamp many awkward shapes specially large panels                      |                 |     |   |     |
| Type             | nickel plated                                                            |                 |     |   |     |
| Material         | jaws made from heat treated die cast aluminium alloy                     |                 |     |   |     |
| Stock-No.        | Capacity mm                                                              | Radial range mm | mm  |   | g   |
| 509A- 500        | 0 – 270                                                                  | 300             | 500 | 1 | 950 |

## 511 Welders Grip Plier



| Application | for center clamping when welding pipes        |                 |     |   |     |
|-------------|-----------------------------------------------|-----------------|-----|---|-----|
| Type        | with large opening for welding, nickel plated |                 |     |   |     |
| Stock-No.   | Capacity mm                                   | Radial range mm | mm  |   | g   |
| 511- 280    | 0 – 100                                       | 90              | 300 | 1 | 925 |

## 510 Welders Grip Plier



| Application | to clamp profile and flat material            |                 |     |   |     |
|-------------|-----------------------------------------------|-----------------|-----|---|-----|
| Type        | with large opening for welding, nickel plated |                 |     |   |     |
| Stock-No.   | Capacity mm                                   | Radial range mm | mm  |   | g   |
| 510- 280    | 0 – 90                                        | 80              | 300 | 1 | 930 |

## 512 Grip Plier



| Application | for clamping, bending and flaring of sheet metal |     |   |     |  |
|-------------|--------------------------------------------------|-----|---|-----|--|
| Type        | nickel plated                                    |     |   |     |  |
| Stock-No.   | Capacity mm                                      | mm  |   | g   |  |
| 512- 180    | 0 – 45                                           | 200 | 1 | 500 |  |

## 510A Aluminium Welders Grip Plier



| Special features | reduce of weight approx. 25%, welding pellets do not adhere to aluminium |                 |     |   |     |
|------------------|--------------------------------------------------------------------------|-----------------|-----|---|-----|
| Application      | to clamp profile and flat material                                       |                 |     |   |     |
| Type             | with large opening for welding, nickel plated                            |                 |     |   |     |
| Material         | jaws made from heat treated die cast aluminium alloy                     |                 |     |   |     |
| Stock-No.        | Capacity mm                                                              | Radial range mm | mm  |   | g   |
| 510A- 280        | 0 – 100                                                                  | 70              | 300 | 1 | 720 |

## 521 Wing Grip Pliers



| Application | to hold quarter panels and service panels from wheel |     |   |      |  |
|-------------|------------------------------------------------------|-----|---|------|--|
| Type        | nickel plated                                        |     |   |      |  |
| Stock-No.   | Capacity mm                                          | mm  |   | g    |  |
| 521- 290    | 70                                                   | 290 | 1 | 900  |  |
| 521- 350    | 120                                                  | 350 | 1 | 1150 |  |
| 521- 440    | 200                                                  | 440 | 1 | 1370 |  |

## 522 Plugweld Grip Plier



| Application | for spot welding even of thinwalled sheet metal prevents burn through and sticking of welding material for general maintenance |     |                                                                                   |                                                                                   |  |
|-------------|--------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|
| Type        | nickel plated                                                                                                                  |     |                                                                                   |                                                                                   |  |
| Material    | top jaw Chrome-Vanadium 31 CrV 3, Code No. 1.2208, bottom jaw made from copper                                                 |     |                                                                                   |                                                                                   |  |
| Stock-No.   | Capacity<br>mm                                                                                                                 | mm  |  |  |  |
| 522- 235    | 0 – 40                                                                                                                         | 235 | 1                                                                                 | 500                                                                               |  |

## 523 Table Grip Plier



| Application | quick and fixed clamping of various parts on work benches and tables, perfect for drilling, sanding, gluing, welding, brazing and soldering |     |                                                                                     |                                                                                     |  |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
| Type        | nickel plated                                                                                                                               |     |                                                                                     |                                                                                     |  |
| Material    | jaw and plate made from Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                           |     |                                                                                     |                                                                                     |  |
| Stock-No.   | Capacity<br>mm                                                                                                                              | mm  |  |  |  |
| 523- 300    | 0 – 100                                                                                                                                     | 300 | 1                                                                                   | 895                                                                                 |  |

## 524 Chain Grip Plier



| Application | adjusts quickly around any shaped object, even in awkward areas, <b>Stock-No. 524E is extension chain as well as spare chain!</b> |     |                                                                                     |                                                                                     |  |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
| Type        | nickel plated                                                                                                                     |     |                                                                                     |                                                                                     |  |
| Stock-No.   | for Ø up to<br>mm                                                                                                                 | mm  |  |  |  |
| 524- 250    | 160                                                                                                                               | 250 | 1                                                                                   | 900                                                                                 |  |
| 524- 300    | 160                                                                                                                               | 300 | 1                                                                                   | 1110                                                                                |  |
| 524E        | spare and extension chain                                                                                                         | 480 | —                                                                                   | 310                                                                                 |  |

## Axial Grip Pliers

- Ergonomical design. Round contours for operator's comfort.
- Small size and linear motion allows use for many shapes even in awkward sections.
- Easy push-button release.
- One-hand-operating.

**Application** Axial Grip Pliers are suitable for body repair jobs and welding work. No provisional welding required to hold body parts for assembly.

**Type** nickel plated, jaws black finish

**Material** jaws made from high grade tool steel

## 513 Axial Grip Plier



| Application | for spot welding and auto body repair |                    |                      |     |                                                                                      |                                                                                      |
|-------------|---------------------------------------|--------------------|----------------------|-----|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Stock-No.   | Capacity<br>mm                        | Radial range<br>mm | Jaws thickness<br>mm | mm  |  |  |
| 513         | 0 – 15                                | 36                 | 57                   | 195 | 1                                                                                    | 480                                                                                  |

## 514 Axial Grip Plier



| Application | clamps two flanged adjacent joints, auto body repair |                    |                      |     |                                                                                       |                                                                                       |
|-------------|------------------------------------------------------|--------------------|----------------------|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Stock-No.   | Capacity<br>mm                                       | Radial range<br>mm | Jaws thickness<br>mm | mm  |  |  |
| 514         | 0 – 15                                               | 25                 | 45                   | 235 | 1                                                                                     | 490                                                                                   |

## 515 Axial Grip Plier



| Application | clamps two flanged lap joints, auto body repair |                    |                      |     |                                                                                       |                                                                                       |
|-------------|-------------------------------------------------|--------------------|----------------------|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Stock-No.   | Capacity<br>mm                                  | Radial range<br>mm | Jaws thickness<br>mm | mm  |  |  |
| 515         | 0 – 15                                          | 7                  | 18                   | 210 | 1                                                                                     | 430                                                                                   |

## 516 Axial Grip Plier



**Application** clamps two sheet metal pieces of equal thickness at 10°, ideal for welding work

| Stock-No. | Capacity<br>mm | Radial range<br>mm | Jaws thickness<br>mm | mm  |   | <br>g |
|-----------|----------------|--------------------|----------------------|-----|---|-------|
| 516       | 0 – 10         | 15                 | 50                   | 200 | 1 | 470   |

## 517 Axial Grip Plier



**Application** clamps two butt joints, auto body repairs

| Stock-No. | Capacity<br>mm | Radial range<br>mm | Jaws thickness<br>mm | mm  |   | <br>g |
|-----------|----------------|--------------------|----------------------|-----|---|-------|
| 517       | 0 – 15         | 9                  | 45                   | 220 | 1 | 450   |

## 518 Axial Grip Plier



**Application** clamps two lap joints, auto body repairs

| Stock-No. | Capacity<br>mm | Jaws thickness<br>mm | mm  |   | <br>g |
|-----------|----------------|----------------------|-----|---|-------|
| 518       | 0 – 18         | 18                   | 195 | 1 | 420   |

## 331 Welders Chipping Hammer



**Material** head drop forged, oval tubular steel shaft

| Stock-No. | mm  |   | <br>g |
|-----------|-----|---|-------|
| 331       | 290 | 1 | 400   |

## Pipe Wrenches and Plumber Tools

### 66 Pipe Wrench

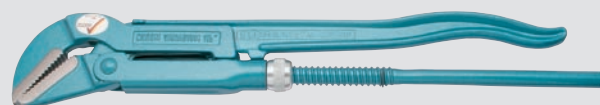


**Type** Swedish pattern, jaws angled at 90°, drop forged, jaws induction hardened with captive knurl wheel, blue lacquered

**Material** Chrome-Vanadium 31 CrV 3, Code No. 1.2208

| Stock-No.  | for pipes<br>up to Ø | mm  | inch   | Capacity<br>mm |   | <br>g |
|------------|----------------------|-----|--------|----------------|---|-------|
| 66A- 1     | 1"                   | 340 | 13.3/8 | 45             | 1 | 1085  |
| 66A- 1.1/2 | 1.1/2"               | 400 | 15.3/4 | 62             | 1 | 1510  |
| 66A- 2     | 2"                   | 530 | 20.7/8 | 76             | 1 | 2780  |
| 66A- 3     | 3"                   | 720 | 27.1/2 | 103            | 1 | 4200  |

### 67 Pipe Wrench

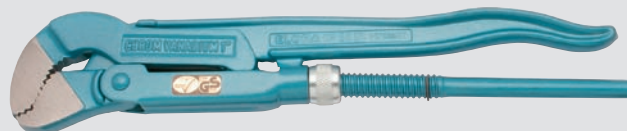


**Type** Swedish pattern, jaws angled at 45°, drop forged, jaws induction hardened with captive knurl wheel, blue lacquered, jaws polished

**Material** Chrome-Vanadium 31 CrV 3, Code No. 1.2208

| Stock-No.  | for pipes<br>up to Ø | mm  | inch   | Capacity<br>mm |   | <br>g |
|------------|----------------------|-----|--------|----------------|---|-------|
| 67E- 1/2   | 1/2"                 | 270 | 10.5/8 | 38             | 1 | 490   |
| 67E- 1     | 1"                   | 320 | 12.5/8 | 50             | 1 | 960   |
| 67E- 1.1/2 | 1.1/2"               | 420 | 16.1/2 | 66             | 1 | 1420  |
| 67E- 2     | 2"                   | 570 | 22.1/2 | 80             | 1 | 2900  |
| 67E- 3     | 3"                   | 700 | 27.1/4 | 110            | 1 | 4400  |

### 68 Pipe Wrench



**Application** requires limited space only

**Type** with slim S-jaws, jaws induction hardened, with captive knurl wheel, blue lacquered, head polished

**Material** Chrome-Vanadium 31 CrV 3, Code No. 1.2208

| Stock-No.   | for pipes<br>up to Ø | mm  | inch   | Capacity<br>mm |   | <br>g |
|-------------|----------------------|-----|--------|----------------|---|-------|
| 68SN- 1/2   | 1/2"                 | 270 | 10.5/8 | 38             | 1 | 440   |
| 68SN- 1     | 1"                   | 320 | 12.5/8 | 50             | 1 | 885   |
| 68SN- 1.1/2 | 1.1/2"               | 420 | 16.1/2 | 66             | 1 | 1490  |
| 68SN- 2     | 2"                   | 570 | 22.1/2 | 80             | 1 | 2500  |
| 68SN- 3     | 3"                   | 700 | 27.1/4 | 110            | 1 | 4200  |



## 75 Adjustable Pipe Wrench "Stillson"



Type American type, jaws induction hardened, steel grey, blue lacquered handle  
Material high grade tool steel

| Stock-No. | mm  | inch | Capacity mm |   | g    |
|-----------|-----|------|-------------|---|------|
| 75- 10    | 250 | 10   | 26          | 1 | 550  |
| 75- 12    | 300 | 12   | 30          | 1 | 800  |
| 75- 14    | 350 | 14   | 38          | 1 | 965  |
| 75- 18    | 450 | 18   | 52          | 1 | 1650 |
| 75- 24    | 600 | 24   | 65          | 1 | 3150 |

## 136 Pipe Wrench



Type with knurl adjustment, reinforced jaws, black lacquered  
Material high grade tool steel

| Stock-No. | mm  | inch | Capacity mm |   | g    |
|-----------|-----|------|-------------|---|------|
| 136- 175  | 175 | 7    | 35          | 1 | 300  |
| 136- 225  | 225 | 9    | 42          | 1 | 510  |
| 136- 275  | 275 | 11   | 60          | 1 | 815  |
| 136- 315  | 315 | 12   | 75          | 1 | 985  |
| 136- 360  | 360 | 14   | 90          | 1 | 1620 |

## 129 Waterpump Plier



**New!**

Application One-Hand Waterpump Plier, strong lever, self adjusting on different sizes/forms  
Type blue lacquered, head polished, self fixing, clamp protection  
Material Chrome-Vanadium 31 CrV3, Code No. 1.2208

| Stock-No. | mm  | inch |   | g   |
|-----------|-----|------|---|-----|
| 129       | 250 | 10   | 1 | 480 |

## 132 Waterpump Plier



Type blue lacquered, head and box joint polished  
Material Chrome-Vanadium 31 CrV 3, Code No. 1.2208  
Standard according to DIN ISO 8976, form C, box joint pattern, pinch protection

| Stock-No. | mm  | inch  |   | g   |
|-----------|-----|-------|---|-----|
| 132- 190  | 190 | 7.1/2 | 1 | 250 |
| 132- 240  | 240 | 9.1/2 | 1 | 300 |
| 132- 300  | 300 | 12    | 1 | 590 |

## 130 Waterpump Plier



Type MB: chrome plated, BI: chrome plated, head polished, with insulated handles  
Material Chrome-Vanadium 31 CrV 3, Code No. 1.2208  
Standard according to DIN ISO 8976, form A, slip joint pattern

| Stock-No.  | mm  |   | g   |
|------------|-----|---|-----|
| 130MB- 240 | 240 | 1 | 260 |
| 130BI- 240 | 240 | 1 | 320 |

## 131 Waterpump Plier



Type MB: chrome plated, BI: chrome plated, head polished, with insulated 2K plastic handles  
Material Chrome-Vanadium 31 CrV 3, Code No. 1.2208  
Standard according to DIN ISO 8976, form B, with groove joint

| Stock-No.  | mm  |   | g    |
|------------|-----|---|------|
| 131MB- 240 | 240 | 1 | 360  |
| 131BI- 240 | 240 | 1 | 435  |
| 131BI- 400 | 400 | 1 | 1200 |

## 134 Waterpump Plier



Type chrome plated, head polished  
Material Chrome-Vanadium 31 CrV 3, Code No. 1.2208  
Standard similar to DIN ISO 8976, form C, 5-position box joint, pinch protection

| Stock-No. | mm  |   | g   |
|-----------|-----|---|-----|
| 134- 250  | 250 | 1 | 455 |
| 134- 375  | 375 | 1 | 990 |

## 133 Quick Gripping Universal Plier



| Type      | chrome plated, head polished                                            |   |  |     |  |
|-----------|-------------------------------------------------------------------------|---|--|-----|--|
| Material  | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                               |   |  |     |  |
| Standard  | similar to DIN ISO 8976, form C, 5-position box joint, pinch protection |   |  |     |  |
| Stock-No. | mm                                                                      |   |  | g   |  |
| 133- 250  | 250                                                                     | 1 |  | 455 |  |

## 60 Adjustable Wrench



| Application | for bolts and nuts with square or hexagon pattern                                            |      |             |   |      |
|-------------|----------------------------------------------------------------------------------------------|------|-------------|---|------|
| Type        | with precise scale in mm<br>MB: chrome plated, A: black finish, polished heads               |      |             |   |      |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208, 60-15 and 60-18 forged from high grade tool steel |      |             |   |      |
| Standard    | according to DIN 3117, form A, adjustable, Swedish pattern                                   |      |             |   |      |
| Stock-No.   | mm                                                                                           | inch | Capacity mm |   | g    |
| 60- 4MB     | 110                                                                                          | 4    | 13          | 1 | 60   |
| 60- 6MB     | 160                                                                                          | 6    | 19          | 1 | 110  |
| 60- 8MB     | 210                                                                                          | 8    | 27          | 1 | 210  |
| 60- 10MB    | 260                                                                                          | 10   | 30          | 1 | 330  |
| 60- 12MB    | 310                                                                                          | 12   | 33          | 1 | 560  |
| 60- 15MB    | 380                                                                                          | 15   | 43          | 1 | 965  |
| 60- 18MB    | 450                                                                                          | 18   | 54          | 1 | 1500 |
| Stock-No.   | mm                                                                                           | inch | Capacity mm |   | g    |
| 60- 4A      | 110                                                                                          | 4    | 13          | 1 | 60   |
| 60- 6A      | 160                                                                                          | 6    | 19          | 1 | 110  |
| 60- 8A      | 210                                                                                          | 8    | 27          | 1 | 210  |
| 60- 10A     | 260                                                                                          | 10   | 30          | 1 | 330  |
| 60- 12A     | 310                                                                                          | 12   | 33          | 1 | 560  |
| 60- 15A     | 380                                                                                          | 15   | 43          | 1 | 965  |
| 60- 18A     | 450                                                                                          | 18   | 54          | 1 | 1500 |

## 135 Pipe and Waterpump Plier "Rotfuß" Patter



| Application | stepless adjustable                                                                    |   |  |     |  |
|-------------|----------------------------------------------------------------------------------------|---|--|-----|--|
| Type        | MB: chrome plated, BI: chrome plated, head polished, with insulated 2K plastic handles |   |  |     |  |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                              |   |  |     |  |
| Standard    | similar to DIN ISO 8976, form C, groove joint adjustable head, pinch protection        |   |  |     |  |
| Stock-No.   | mm                                                                                     |   |  | g   |  |
| 135- 5MB    | 260                                                                                    | 1 |  | 460 |  |
| 135- 5BI    | 260                                                                                    | 1 |  | 515 |  |

## 137 Quick Action Wrench



| Application | for chrome plated sanitary fittings, lever adjustment |             |   |     |
|-------------|-------------------------------------------------------|-------------|---|-----|
| Type        | chrome plated, with plastic protection jaws           |             |   |     |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208             |             |   |     |
| Stock-No.   | mm                                                    | Capacity mm |   | g   |
| 137         | 270                                                   | 65          | 1 | 710 |

## 138 Siphon Plier



| Application | 4-position slip joint                     |             |   |     |
|-------------|-------------------------------------------|-------------|---|-----|
| Type        | insulated cushion grip handles            |             |   |     |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |             |   |     |
| Stock-No.   | mm                                        | Capacity mm |   | g   |
| 138         | 230                                       | 80          | 1 | 280 |

## 181 Basin Wrench



| Application | for left and right hand use, for assembling of sanitary fittings |   |     |    |
|-------------|------------------------------------------------------------------|---|-----|----|
| Type        | lacquered                                                        |   |     |    |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                        |   |     |    |
| Stock-No.   | mm                                                               |   | g   |    |
| 181         | 220                                                              | 1 | 430 |    |
| 181E        | spare jaws for left and right hand rotation                      |   | 1   | 74 |

## 140 Sanitary Wrench



| Application | for sanitary screws M10                                     |         |   |     |
|-------------|-------------------------------------------------------------|---------|---|-----|
| Type        | chrome plated                                               |         |   |     |
| Material    | spanner made from Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |         |   |     |
| Stock-No.   | mm                                                          | size mm |   | g   |
| 140         | 220                                                         | 17×19   | 1 | 265 |

## 141 Sanitary Bit



| Application | for assembly of sanitary screws,<br>for use with 1/2"-square drive socket parts or spanner size 9 mm |                                                                                   |                                                                                     |
|-------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type        | chrome plated with hardened tip                                                                      |                                                                                   |                                                                                     |
| Stock-No.   | mm                                                                                                   |  |  g |
| 141- 6      | M6                                                                                                   | 1                                                                                 | 65                                                                                  |
| 141- 8      | M8                                                                                                   | 1                                                                                 | 65                                                                                  |
| 141- 10     | M10                                                                                                  | 1                                                                                 | 65                                                                                  |
| 141- 12     | M12                                                                                                  | 1                                                                                 | 65                                                                                  |

## 142 Spud Wrench



| Type      | with T-handle for valve nipples 3/8" and 1/2" |                                                                                     |                                                                                       |
|-----------|-----------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Stock-No. | mm                                            |  |  g |
| 142       | 90                                            | 1                                                                                   | 200                                                                                   |

## 143 Spud Wrench



| Application | for assembly of valve nipples 3/8", 1/2", 3/4", 1" and 1.1/4",<br>for use with tap wrench Stock-No. 144 |                                                                                     |                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type        | with 18 mm square                                                                                       |                                                                                     |                                                                                       |
| Stock-No.   | mm                                                                                                      |  |  g |
| 143         | 160                                                                                                     | 1                                                                                   | 300                                                                                   |

## 144 Tap Wrench



| Application | for use with spud wrench Stock-No. 143 |                                                                                     |                                                                                       |
|-------------|----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type        | with 18 mm square drive                |                                                                                     |                                                                                       |
| Stock-No.   | mm                                     |  |  g |
| 144         | 240                                    | 1                                                                                   | 400                                                                                   |

## 139 Spud Wrench Set



| Application | for the assembly of valve nipples in heating units with 3/8", 1/2", 3/4", 1" and 4 intermediate steps |                                                                                       |     |
|-------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|
| Type        | with 1/2" square drive, chrome plated, with ratchet 770-L1ZI without coupler, in vinyl storage wallet |                                                                                       |     |
| Material    | spud wrench made from high grade tool steel                                                           |                                                                                       |     |
| Stock-No.   |                    |  g |     |
| 1395        | spud wrench and ratchet 770-L1ZI                                                                      | 1                                                                                     | 520 |
| 139         | spud wrench                                                                                           | 1                                                                                     | 135 |

## 121 Flare Nut Open Ring Spanner



|          |                                                                                                                                                       |  |  |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Type     | up to 13×14 mm and 1/2 × 9/16 AF = <b>hex. pattern</b> ,<br>from 13×15 mm and 9/16 × 5/8 AF = <b>bi-hex. pattern</b> , jaws set at 15°, chrome plated |  |  |
| Material | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                                                             |  |  |
| Standard | according to DIN 3118                                                                                                                                 |  |  |

| Stock-No.  | mm  |  |  g |
|------------|-----|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 121- 8×10  | 150 | 12                                                                                    | 48                                                                                      |
| 121- 9×11  | 150 | 12                                                                                    | 48                                                                                      |
| 121- 10×11 | 165 | 12                                                                                    | 67                                                                                      |
| 121- 10×12 | 165 | 12                                                                                    | 67                                                                                      |
| 121- 11×13 | 165 | 12                                                                                    | 67                                                                                      |
| 121- 12×14 | 190 | 12                                                                                    | 100                                                                                     |
| 121- 13×14 | 190 | 12                                                                                    | 100                                                                                     |
| 121- 13×15 | 190 | 12                                                                                    | 100                                                                                     |
| 121- 14×16 | 200 | 12                                                                                    | 135                                                                                     |
| 121- 14×17 | 200 | 12                                                                                    | 135                                                                                     |
| 121- 16×18 | 210 | 12                                                                                    | 160                                                                                     |
| 121- 17×19 | 210 | 12                                                                                    | 160                                                                                     |
| 121- 19×22 | 230 | 6                                                                                     | 190                                                                                     |
| 121- 21×23 | 245 | 6                                                                                     | 240                                                                                     |
| 121- 22×24 | 245 | 6                                                                                     | 240                                                                                     |
| 121- 24×27 | 260 | 6                                                                                     | 325                                                                                     |
| 121- 30×32 | 288 | 6                                                                                     | 465                                                                                     |

| Stock-No.       | mm  |  |  g |
|-----------------|-----|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 121A- 5/16×3/8  | 150 | 12                                                                                    | 48                                                                                      |
| 121A- 3/8 ×7/16 | 165 | 12                                                                                    | 67                                                                                      |
| 121A- 7/16×1/2  | 165 | 12                                                                                    | 65                                                                                      |
| 121A- 9/16×5/8  | 200 | 12                                                                                    | 135                                                                                     |
| 121A- 5/8 ×3/4  | 210 | 12                                                                                    | 160                                                                                     |
| 121A-11/16×3/4  | 215 | 12                                                                                    | 170                                                                                     |
| 121A- 3/4 ×7/8  | 230 | 6                                                                                     | 190                                                                                     |
| 121A- 1×1.1/8   | 260 | 6                                                                                     | 325                                                                                     |

## Tubing Cutters

### 65 Tubing Cutter



| Application | for steel tubes                                |                     |   |       |
|-------------|------------------------------------------------|---------------------|---|-------|
| Type        | with 1 cutting wheel and 2 roller guides       |                     |   |       |
| Material    | cutting wheel made from high grade alloy steel |                     |   |       |
| Stock-No.   | mm                                             | for tubes Ø<br>inch |   | <br>g |
| 65- 2       | 400                                            | 1/8 – 2             | 1 | 2200  |
| 65- 4       | 500                                            | 1. 1/4 – 4          | 1 | 4200  |
| 65S- 2      | spare cutting wheel for 65-2                   |                     | 1 | 30    |
| 65S- 4      | spare cutting wheel for 65-4                   |                     | 1 | 56    |
| 65R- 2      | spare roller guide for 65-2                    |                     | 1 | 78    |
| 65R- 4      | spare roller guide for 65-4                    |                     | 1 | 114   |

### 179-35/65 Tubing Cutter



| Application | for copper, brass, aluminium, thin walled steel pipes, PVC and hard plastic pipes, with adjusting knob incorporating a reamer |                   |    |       |
|-------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------|----|-------|
| Type        | with 1 cutting wheel and 2 roller guides                                                                                      |                   |    |       |
| Material    | cutting wheel made from high grade alloy steel                                                                                |                   |    |       |
| Stock-No.   | mm                                                                                                                            | for tubes Ø<br>mm |    | <br>g |
| 179- 35     | 145                                                                                                                           | 3 – 35            | 1  | 445   |
| 179- 65     | 275                                                                                                                           | 13 – 65           | 1  | 1410  |
| 179S- 35    | cutting wheel for 179-35                                                                                                      |                   | 10 | 6     |
| 179S- 65    | cutting wheel for 179-65                                                                                                      |                   | 5  | 18    |
| 179B- 35    | bolts for 179-35                                                                                                              |                   | 1  | 3     |
| 179B- 65    | bolts for 179-65                                                                                                              |                   | 1  | 5     |

### 179-16 Tubing Cutter



| Application | for brass, copper, aluminium and thin walled steel pipes, PVC and hard plastic pipes |                   |    |       |
|-------------|--------------------------------------------------------------------------------------|-------------------|----|-------|
| Type        | with 1 cutting wheel and 2 roller guides                                             |                   |    |       |
| Material    | cutting wheel made from high grade alloy steel                                       |                   |    |       |
| Stock-No.   | mm                                                                                   | for tubes Ø<br>mm |    | <br>g |
| 179- 16     | 50                                                                                   | 3 – 16            | 1  | 102   |
| 179S- 16    | spare cutting wheel for 179-16                                                       |                   | 10 | 6     |
| 179B- 16    | spare bolts for 179-16                                                               |                   | 3  | 3     |

### 180 Tubing Cutter



|             |                                                                                                                     |                   |                     |                                                                                       |                                                                                            |
|-------------|---------------------------------------------------------------------------------------------------------------------|-------------------|---------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Application | for copper, brass, steel and plastic pipes                                                                          |                   |                     |                                                                                       |                                                                                            |
| Type        | with automatic feed and 4 roller guides, with cutting wheel and adjusting knob incorporating a reamer in the handle |                   |                     |                                                                                       |                                                                                            |
| Material    | cutting wheel made from high grade alloy steel                                                                      |                   |                     |                                                                                       |                                                                                            |
| Stock-No.   | <br>mm                           | for tubes Ø<br>mm | for tubes Ø<br>inch |  | <br>g |
| 180         | 195                                                                                                                 | 3 – 36            | 1/8 – 1.3/8         | 1                                                                                     | 470                                                                                        |

### 301 Chain Tubing Cutter



| Application | for cutting tubes up to 75 mm Ø and up to 2,5 mm thickness, as well as for tubes made of stainless steel, copper and PVC, especially for dismantling exhaust systems |     |   |       |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-------|
| Type        | nickel plated                                                                                                                                                        |     |   |       |
| Material    | high grade tool steel, cutting wheels made of high-tensile steel                                                                                                     |     |   |       |
| Stock-No.   | for Ø up to<br>mm                                                                                                                                                    | mm  |   | <br>g |
| 301- 250    | 75                                                                                                                                                                   | 250 | 1 | 805   |
| 301- 300    | 75                                                                                                                                                                   | 300 | 1 | 1020  |
| 301E        | spare chain                                                                                                                                                          |     | 1 | 190   |

### 182-40 Plastic Tube Snip



| Application | for clear and 90° cut of PVC tubes                                                        |                   |                     |                                                                                       |                                                                                            |
|-------------|-------------------------------------------------------------------------------------------|-------------------|---------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Stock-No.   | <br>mm | for tubes Ø<br>mm | for tubes Ø<br>inch |  | <br>g |
| 182- 40     | 230                                                                                       | 25 – 40           | 15/16 – 1.1/2       | 1                                                                                     | 590                                                                                        |
| 182E        | spare blade                                                                               |                   |                     |                                                                                       |                                                                                            |

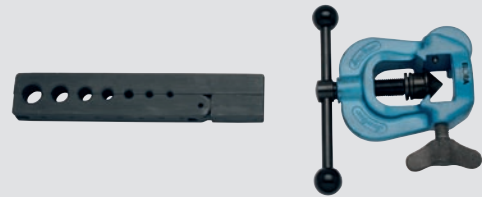
**182-26** Plastic Tube Snip**New!**

| Application   | for clear and 90° cut of PVC tubes |                   |                     |   |     |
|---------------|------------------------------------|-------------------|---------------------|---|-----|
| Stock-No.     | mm                                 | for tubes Ø<br>mm | for tubes Ø<br>inch |   | g   |
|               |                                    |                   |                     |   |     |
| <b>182-26</b> | 200                                | 0-26              | 0-1                 | 1 | 170 |

**64** Pipe Deburrer**New!**

| Application | for inside and outside deburring of copper, brass, aluminium and plastic pipes |                   |                     |   |    |
|-------------|--------------------------------------------------------------------------------|-------------------|---------------------|---|----|
| Type        | for hand use                                                                   |                   |                     |   |    |
| Material    | plastic cover with 3 cutters                                                   |                   |                     |   |    |
| Stock-No.   | mm                                                                             | for tubes Ø<br>mm | for tubes Ø<br>inch |   | g  |
|             |                                                                                |                   |                     |   |    |
| <b>64</b>   | 48                                                                             | 3-40              | 1/8-1.1/2           | 1 | 33 |

## Flaring Tools

**241** Flaring Tool

| Application  | for use on copper and aluminium tubes                                                |   |      |
|--------------|--------------------------------------------------------------------------------------|---|------|
| Type         | with interchangeable jaws, opening angle 90 – 45°, body lacquered, jaws black finish |   |      |
| Material     | body made from zinc casting, jaws made from high grade tool steel                    |   |      |
| Stock-No.    | for tubes outside Ø                                                                  |   |      |
|              |                                                                                      |   |      |
| <b>241-1</b> | 4; 4,75; 6; 8; 10; 12; 14 mm                                                         | 1 | 1350 |
| <b>241-2</b> | 4; 4,75; 6; 8; 10; 12; 15 mm                                                         | 1 | 1375 |
| <b>241-3</b> | 4; 4,75; 6; 8; 10; 12; 16 mm                                                         | 1 | 1360 |
| <b>241-4</b> | 6; 8; 10; 12; 14; 17 mm                                                              | 1 | 1340 |
| <b>241-5</b> | 4; 4,75; 6; 8; 10; 12; 14; 19 mm                                                     | 1 | 1430 |
| <b>241-6</b> | 3/16; 1/4; 5/16; 3/8; 7/16; 1/2; 5/8" AF                                             | 1 | 1350 |
| <b>241-7</b> | 3/16; 1/4; 5/16; 3/8; 7/16; 1/2; 5/8; 3/4" AF                                        | 1 | 1410 |
| <b>241-D</b> | Pressure part for flaring jaws 180°                                                  | 1 | 20   |

**241EK** Flaring Tool Body

| Application  | for use with flaring jaws Stock-No. 241EB |   |     |
|--------------|-------------------------------------------|---|-----|
| Type         | lacquered                                 |   |     |
| Material     | zinc casting                              |   |     |
| Stock-No.    |                                           |   |     |
|              |                                           |   |     |
| <b>241EK</b> | for all jaws                              | 1 | 660 |

**241EB** Flaring Jaw

| Application    | for use with flaring tool body Stock-No. 241EK |                        |   |     |
|----------------|------------------------------------------------|------------------------|---|-----|
| Type           | black finish                                   |                        |   |     |
| Material       | high grade tool steel                          |                        |   |     |
| Stock-No.      | for flaring tool<br>Stock-No.                  | for tubes Ø<br>mm/inch |   | g   |
|                |                                                |                        |   |     |
| <b>241EB-1</b> | 241-1                                          | 4 – 14                 | 1 | 630 |
| <b>241EB-2</b> | 241-2                                          | 4 – 15                 | 1 | 625 |
| <b>241EB-3</b> | 241-3                                          | 4 – 16                 | 1 | 625 |
| <b>241EB-4</b> | 241-4                                          | 6 – 17                 | 1 | 610 |
| <b>241EB-5</b> | 241-5                                          | 4 – 19                 | 1 | 695 |
| <b>241EB-6</b> | 241-6                                          | 3/16 – 5/8             | 1 | 620 |
| <b>241EB-7</b> | 241-7                                          | 3/16 – 3/4             | 1 | 690 |

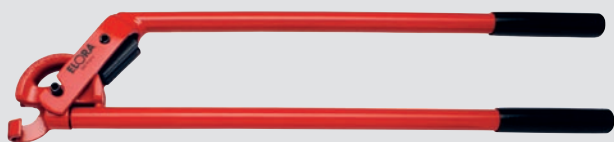


## 241SB Tubing Cutter and Flaring Tool Set



| Contents  | tubing cutter 179-35 and flaring tool set 241-... |               |   |     |
|-----------|---------------------------------------------------|---------------|---|-----|
| Type      | in black metal storage case                       |               |   |     |
| Stock-No. | flaring tool set                                  | tubing cutter |   | kg  |
| 241SB- 1  | 241-1                                             | 179-35        | 1 | 2,6 |
| 241SB- 2  | 241-2                                             | 179-35        | 1 | 2,6 |
| 241SB- 3  | 241-3                                             | 179-35        | 1 | 2,6 |
| 241SB- 4  | 241-4                                             | 179-35        | 1 | 2,6 |
| 241SB- 5  | 241-5                                             | 179-35        | 1 | 2,7 |
| 241SB- 6  | 241-6                                             | 179-35        | 1 | 2,6 |
| 241SB- 7  | 241-7                                             | 179-35        | 1 | 2,7 |

## 406 Pipe Bender



| Application | for bends up to 90°  |                |   |      |
|-------------|----------------------|----------------|---|------|
| Type        | with plastic handles |                |   |      |
| Stock-No.   | mm                   | for pipes Ø mm |   | g    |
| 406- 10     | 515                  | 10             | 1 | 1300 |
| 406- 12     | 515                  | 12             | 1 | 1300 |
| 406- 14     | 515                  | 14             | 1 | 1300 |
| 406- 15     | 665                  | 15             | 1 | 2400 |
| 406- 16     | 665                  | 16             | 1 | 2400 |
| 406- 18     | 825                  | 18             | 1 | 3200 |
| 406- 20     | 825                  | 20             | 1 | 3200 |
| 406- 22     | 950                  | 22             | 1 | 5600 |

## 407 Copper Tube Expanding Plier



| Application | for expanding of copper tubes |   |     |
|-------------|-------------------------------|---|-----|
| Material    | tool steel                    |   |     |
| Stock-No.   | mm                            |   | g   |
| 407         | 240                           | 1 | 450 |

## 408 Copper Tube Expanding Tool



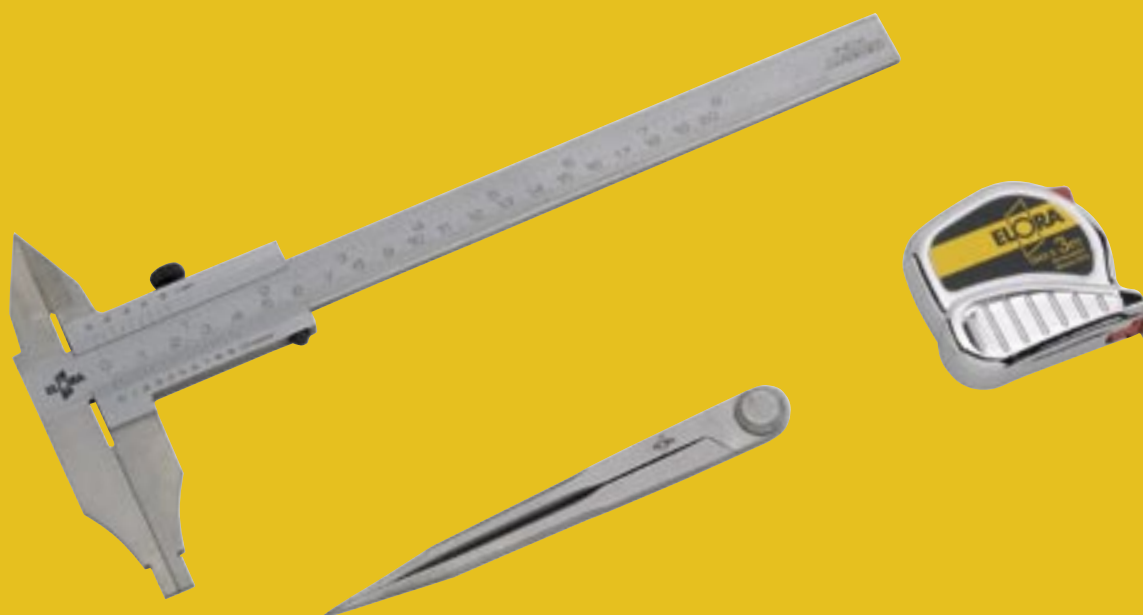
| Application | for expanding of copper tubes |                                   |       |
|-------------|-------------------------------|-----------------------------------|-------|
| Type        | black finish                  |                                   |       |
| Material    | special steel                 |                                   |       |
| Stock-No.   | mm                            | expanding steps<br>Ø mm           | g     |
| 408         | 940                           | 10/12; 13/15; 16/18; 20/22; 25/28 | 1 950 |



## **ELORA PRECISION TOOLS – ALWAYS THE RIGHT MEASUREMENT.**

We want to draw your attention to one brand new product in this chapter – the spirit level with marking support, item No. 1556. This additional feature makes working a lot easier.

### **MEASURING TOOLS**

**11**

## Extract from DIN 862 standards – for Precision Calipers

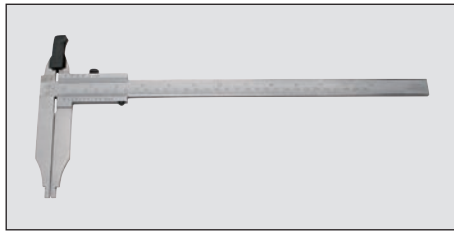
The calipers have to be produced in all parts to such a degree that a proper measurement with parallel measuring faces the tolerances of the faces have to be within the limits of the following chart.

The measuring error can consist of various possible faults, for example: faults in the graduations, guides or measuring faces. The graduation scale for main and vernier reading should not surpass 200 µm.

Permissible tolerances of the graduation scale of main and vernier reading within the graduations of the caliper: 40 µm. Permissible deviation of the plane level of the faces: 10 µm to 100 mm length of faces.

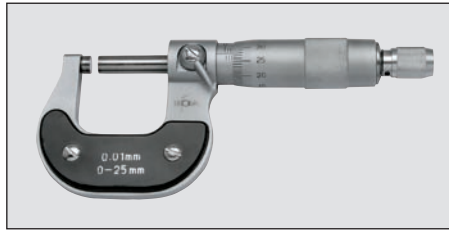
Permissible deviation from the parallelism of the faces: 15 µm to 100 mm length of faces.

Permissible deviation of the overall thickness of the rounded parts of the faces (for internal measurements) from desired value: +30 µm. Hardness of the faces at non-alloy steel: Vickers hardness minimum 700 HV5 (=59 HRC), at stainless steel: Vickers hardness minimum 575 HV5 (=53 HRC).



| Measurement length $l_1$<br>mm | Permissible deviation<br>± µm |
|--------------------------------|-------------------------------|
| up to 200                      | 40                            |
| from 200 up to 300             | 50                            |
| from 300 up to 400             | 70                            |
| from 400 up to 500             | 80                            |
| from 500 up to 600             | 90                            |
| from 600 up to 700             | 100                           |
| from 700 up to 800             | 110                           |
| from 800 up to 900             | 120                           |
| from 900 up to 1000            | 130                           |
| from 1000 up to 1100           | 140                           |
| from 1100 up to 1200           | 160                           |
| from 1200 up to 1300           | 170                           |
| from 1300 up to 1400           | 180                           |
| from 1400 up to 1500           | 190                           |
| from 1500 up to 1600           | 200                           |
| from 1600 up to 1700           | 210                           |
| from 1700 up to 1800           | 220                           |
| from 1800 up to 1900           | 230                           |
| from 1900 up to 2000           | 240                           |
| from 2000                      | 250                           |

## Production accuracy DIN 863 – for Micrometers



| Measuring range mm | Maximum permissible deviation of values of any point of the measuring range | Tolerance of parallelism at measuring power of 10 N<br>*Number of interference ring or strips / µm | Permissible bending of bow at measuring power of 10 N |
|--------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| mm                 | µm                                                                          | *Number                                                                                            | µm                                                    |
| 0 up to 25         | 4                                                                           | 6                                                                                                  | 2                                                     |
| 25 up to 50        | 4                                                                           | 6                                                                                                  | 2                                                     |
| 50 up to 75        | 5                                                                           | 10                                                                                                 | 3                                                     |
| 75 up to 100       | 5                                                                           | 10                                                                                                 | 3                                                     |
| 100 up to 125      | 6                                                                           | —                                                                                                  | 3                                                     |
| 125 up to 150      | 6                                                                           | —                                                                                                  | 3                                                     |
| 150 up to 175      | 7                                                                           | —                                                                                                  | 4                                                     |
| 175 up to 200      | 7                                                                           | —                                                                                                  | 4                                                     |
| 200 up to 225      | 8                                                                           | —                                                                                                  | 4                                                     |
| 225 up to 250      | 8                                                                           | —                                                                                                  | 4                                                     |
| 250 up to 275      | 9                                                                           | —                                                                                                  | 5                                                     |
| 275 up to 300      | 9                                                                           | —                                                                                                  | 5                                                     |
| 300 up to 325      | 10                                                                          | —                                                                                                  | 5                                                     |
| 325 up to 350      | 10                                                                          | —                                                                                                  | 5                                                     |
| 350 up to 375      | 11                                                                          | —                                                                                                  | 6                                                     |
| 375 up to 400      | 11                                                                          | —                                                                                                  | 6                                                     |
| 400 up to 425      | 12                                                                          | —                                                                                                  | 6                                                     |
| 425 up to 450      | 12                                                                          | —                                                                                                  | 6                                                     |
| 450 up to 475      | 13                                                                          | —                                                                                                  | 7                                                     |
| 475 up to 500      | 13                                                                          | —                                                                                                  | 7                                                     |

## Engineers Steel Squares acc. to DIN 875

### Execution:

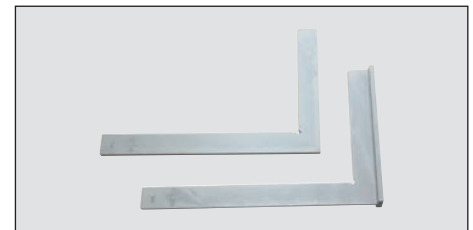
The steel squares are polished all over. The testing surfaces of accuracy grade I and II are fine polished. The testing surfaces of accuracy grade 0 are scraped and additionally lapped. The measuring edges of the hair-angles are lapped.

### Accuracy:

Permissible right-angle and smooth surface tolerances of the testing surfaces:

| Length<br>mm | Right-angle tolerance µm |    |     | Smooth surface tolerance µm |    |    |
|--------------|--------------------------|----|-----|-----------------------------|----|----|
|              | 0                        | 1  | 2   | 0                           | 1  | 2  |
| 50           | —                        | —  | —   | 3                           | 5  | 10 |
| 75           | 7                        | 14 | 28  | 3                           | 6  | 11 |
| 100          | 7                        | 15 | 30  | 3                           | 6  | 12 |
| 150          | 8                        | 18 | 35  | 4                           | 7  | 14 |
| 200          | 9                        | 20 | 40  | 4                           | 8  | 16 |
| 250          | 10                       | 23 | 45  | 5                           | 9  | 18 |
| 300          | 11                       | 25 | 50  | 5                           | 10 | 20 |
| 500          | 15                       | 35 | 70  | 7                           | 14 | 28 |
| 600          | —                        | —  | —   | 8                           | 16 | 32 |
| 750          | 20                       | 48 | 95  | 10                          | 19 | 38 |
| 1000         | 25                       | 60 | 120 | 12                          | 24 | 48 |
| 1500         | 35                       | 85 | 170 | 17                          | 34 | 68 |

For the angle tolerance of the side faces the triple value of the right-angle tolerance applies. For the parallel tolerance of the testing surfaces the same value as for the right-angle tolerance applies. A decline on the surface in the distance of 0,5 mm from the edges of the testing surface is permissible.



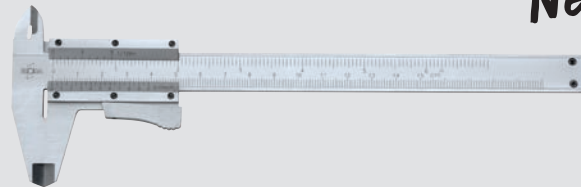
## Measuring Tools

### 1510 Vernier Caliper



| Application | for inside, outside and depth measurement                                                                         |   |     |
|-------------|-------------------------------------------------------------------------------------------------------------------|---|-----|
| Type        | reading 0.05 mm, satin chrome finish, vernier scale: 1/20 mm, jaws 40 mm, with set screw, in plastic storage case |   |     |
| Stock-No.   | Range mm                                                                                                          |   | g   |
| 1510        | 150                                                                                                               | 1 | 150 |

### 1511 Pocket Vernier Caliper



**New!**

| Application | for inside, outside and depth measurement                                                                         |   |     |
|-------------|-------------------------------------------------------------------------------------------------------------------|---|-----|
| Type        | reading 0.05 mm, satin chrome finish, vernier scale 1/20 mm, jaws 40 mm, with thumb lock, in plastic storage case |   |     |
| Stock-No.   | Range mm                                                                                                          |   | g   |
| 1511        | 150                                                                                                               | 1 | 150 |

### 1512 Precision Vernier Caliper



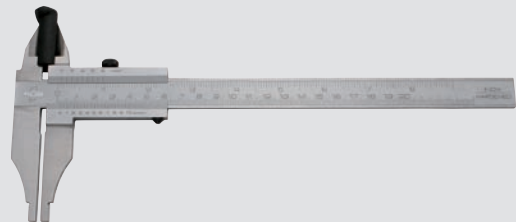
| Application | for inside, outside and depth measurement                                                                                                                                                                            |   |     |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Type        | reading 0.05 mm and 1/128", satin chrome finish, with raised slideways, vernier scale 1/20 mm and 1/128" extended up to 39 mm, jaws 40 mm, with thumb lock, stainless, with depth caliper and rear side thread table |   |     |
| Material    | stainless steel                                                                                                                                                                                                      |   |     |
| Stock-No.   | Range mm                                                                                                                                                                                                             |   | g   |
| 1512        | 150                                                                                                                                                                                                                  | 1 | 150 |

### 1513 Precision Vernier Caliper



| Application | for inside, outside and depth measurement                                                                                                                                                                           |   |     |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Type        | reading 0.05 mm and 1/128", satin chrome finish, with raised slideways, vernier scale 1/20 mm and 1/128" extended up to 39 mm, jaws 40 mm, with set screw, stainless, with depth caliper and rear side thread table |   |     |
| Material    | stainless steel                                                                                                                                                                                                     |   |     |
| Stock-No.   | Range mm                                                                                                                                                                                                            |   | g   |
| 1513        | 150                                                                                                                                                                                                                 | 1 | 150 |

### 1520 Precision Vernier Caliper



|             |                                                                                                                                                                                                |         |                                                                                       |                                                                                            |  |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--|
| Application | for inside and outside measurement                                                                                                                                                             |         |                                                                                       |                                                                                            |  |
| Type        | reading 0.05 mm and 1/128", vernier scale 1/20 mm and 1/128", hardened, measuring faces ground and lapped, jaw ends polished, with stepped jaw ends, with set screw and rear side thread table |         |                                                                                       |                                                                                            |  |
| Material    | stainless steel                                                                                                                                                                                |         |                                                                                       |                                                                                            |  |
| Standard    | according to DIN 862                                                                                                                                                                           |         |                                                                                       |                                                                                            |  |
| Stock-No.   | Range mm                                                                                                                                                                                       | Jaws mm |  | <br>g |  |
| 1520- 200   | 200                                                                                                                                                                                            | 80      | 1                                                                                     | 400                                                                                        |  |
| 1520- 250   | 250                                                                                                                                                                                            | 80      | 1                                                                                     | 450                                                                                        |  |
| 1520- 300   | 300                                                                                                                                                                                            | 100     | 1                                                                                     | 600                                                                                        |  |

### 1522 Precision Vernier Caliper



|             |                                                                                                                                                                                                                                           |         |                                                                                       |                                                                                            |  |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--|
| Application | for inside and outside measurement                                                                                                                                                                                                        |         |                                                                                       |                                                                                            |  |
| Type        | reading 0.05 mm and 1/128", satin chrome finish, vernier scale 1/20 mm and 1/128", hardened, measuring faces ground and lapped, jaw ends polished, with stepped jaw ends, with fine adjustment, with set screw and rear side thread table |         |                                                                                       |                                                                                            |  |
| Material    | stainless steel                                                                                                                                                                                                                           |         |                                                                                       |                                                                                            |  |
| Standard    | according to DIN 862                                                                                                                                                                                                                      |         |                                                                                       |                                                                                            |  |
| Stock-No.   | Range mm                                                                                                                                                                                                                                  | Jaws mm |  | <br>g |  |
| 1522- 300   | 300                                                                                                                                                                                                                                       | 100     | 1                                                                                     | 650                                                                                        |  |



## 1515 Precision Dial Vernier Caliper



| Application | for inside, outside and depth measurement                                                                                                           |                 |                        |   |     |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------|---|-----|
| Type        | range 150 mm, measuring faces ground and lapped, satin chrome finish, jaws 40 mm, with quick action adjustment and set screw, with adjustable scale |                 |                        |   |     |
| Material    | stainless steel                                                                                                                                     |                 |                        |   |     |
| Stock-No.   | Range mm                                                                                                                                            | Reading         | Rotation of pointer mm |   | g   |
| 1515- 50    | 150                                                                                                                                                 | 0,02 mm = 1/50  | 2                      | 1 | 360 |
| 1515- 100   | 150                                                                                                                                                 | 0,01 mm = 1/100 | 10                     | 1 | 360 |

## 1517 Digital Vernier Caliper



| Application | for inside and outside measurement, <b>No. 1517-150</b> additional for depth measurement                                                  |         |   |     |  |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------|---|-----|--|
| Type        | reading 0.01 mm/inch, accuracy $\pm 0.02$ mm/0.0015", with data output, 4 way measurement and cross pattern jaws, in plastic storage case |         |   |     |  |
| Material    | stainless steel                                                                                                                           |         |   |     |  |
| Stock-No.   | Range mm                                                                                                                                  | Jaws mm |   | g   |  |
| 1517- 150   | 150                                                                                                                                       | 40      | 1 | 360 |  |
| 1517- 200   | 200                                                                                                                                       | 45      | 1 | 550 |  |
| 1517- 300   | 300                                                                                                                                       | 45      | 1 | 750 |  |
| 1517- B     | Spare battery                                                                                                                             |         | 1 |     |  |

## 1519 Brass Slide Caliper



| Application | for outside measurement                        |   |    |  |  |
|-------------|------------------------------------------------|---|----|--|--|
| Type        | reading 1 mm and 1/16", with short jaws: 20 mm |   |    |  |  |
| Stock-No.   | Range mm                                       |   | g  |  |  |
| 1519        | 100                                            | 1 | 60 |  |  |

## 1523 Precision Vernier Caliper for Brake Discs



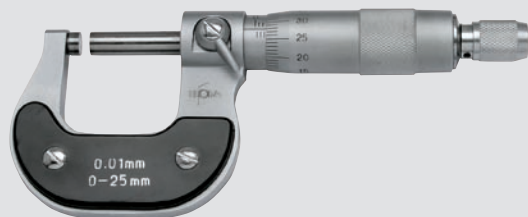
| Application | to check thickness of brake discs, for cars and small trucks                                                            |         |   |     |  |
|-------------|-------------------------------------------------------------------------------------------------------------------------|---------|---|-----|--|
| Type        | Range 0 – 60 mm, reading 0.1 mm, satin chrome finish, vernier scale 1/10 mm, with fine adjustment, jaws 85 mm, hardened |         |   |     |  |
| Material    | stainless steel                                                                                                         |         |   |     |  |
| Standard    | according to DIN 862                                                                                                    |         |   |     |  |
| Stock-No.   | Range mm                                                                                                                | Jaws mm |   | g   |  |
| 1523        | 60                                                                                                                      | 85      | 1 | 285 |  |

## 1524 Precision Depth Vernier Caliper



| Application | for depth measurement                                                                                                                                                         |         |   |     |  |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---|-----|--|
| Type        | reading 0.02 mm [vernier scale 1/50 mm], exceptional clarity to scales and verniers, satin chrome finish, with set screw and straight measuring bar, polished, in wooden case |         |   |     |  |
| Material    | high grade tool steel                                                                                                                                                         |         |   |     |  |
| Stock-No.   | Range mm                                                                                                                                                                      | Base mm |   | g   |  |
| 1524- 200   | 200                                                                                                                                                                           | 100     | 1 | 135 |  |
| 1524- 300   | 300                                                                                                                                                                           | 100     | 1 | 280 |  |

## 1530 Precision Outside Micrometer



| Application | for outside measurement                                                                                                                        |   |     |  |  |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|--|--|
| Type        | reading 0.01 mm, spindle hardened and ground, diameter 6 mm, measuring faces lapped, with lever fixing and adjustable set screw, chrome plated |   |     |  |  |
| Material    | measuring faces made from hard alloy                                                                                                           |   |     |  |  |
| Standard    | according to DIN 863                                                                                                                           |   |     |  |  |
| Stock-No.   | Range mm                                                                                                                                       |   | g   |  |  |
| 1530- 25    | 0 – 25                                                                                                                                         | 1 | 300 |  |  |
| 1530- 50    | 25 – 50                                                                                                                                        | 1 | 480 |  |  |
| 1530- 75    | 50 – 75                                                                                                                                        | 1 | 640 |  |  |
| 1530- 100   | 75 – 100                                                                                                                                       | 1 | 820 |  |  |

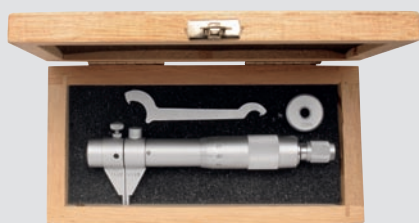
## 1530S Precision Outside Micrometer Set



**New!**

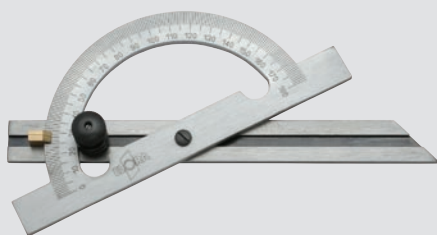
| Type          | measuring faces lapped, spindle hardened and ground, in wooden box                                       |                 |  |      |
|---------------|----------------------------------------------------------------------------------------------------------|-----------------|--|------|
| Stock-No.     | Content                                                                                                  | 1 piece of each |  |      |
| <b>1530S4</b> | 1530- 25 Range 0-25 mm<br>1530- 50 Range 25-50 mm<br>1530- 75 Range 50-75 mm<br>1530-100 Range 75-100 mm | 1               |  | 2140 |

## 1532 Precision Inside Micrometer



| Application     | for inside measuring                                                                                                                                                           |   |  |     |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|-----|
| Type            | reading 0.01 mm, accuracy $\pm (4 + L/25) \mu\text{m}$ , spindle hardened and ground, measurement lapped, with adjusting and fixing screw, satin chrome finish, in plastic box |   |  |     |
| Standard        | according to DIN 863                                                                                                                                                           |   |  |     |
| Stock-No.       | Range mm                                                                                                                                                                       |   |  |     |
| <b>1532- 5</b>  | 5 – 30                                                                                                                                                                         | 1 |  | 140 |
| <b>1532- 25</b> | 25 – 50                                                                                                                                                                        | 1 |  | 150 |
| <b>1532- 50</b> | 50 – 75                                                                                                                                                                        | 1 |  | 180 |

## 1537 Steel Protractor



| Application      | for measuring of angles, range: 10 – 170°                         |                    |   |     |
|------------------|-------------------------------------------------------------------|--------------------|---|-----|
| Type             | with adjustable blade and knurled thumb lock, satin chrome finish |                    |   |     |
| Stock-No.        | Ø of protractor mm                                                | Length of blade mm |   |     |
| <b>1537- 100</b> | 100                                                               | 150                | 1 | 130 |
| <b>1537- 150</b> | 150                                                               | 300                | 1 | 260 |
| <b>1537- 200</b> | 200                                                               | 400                | 1 | 430 |

## 1535 Steel Protractor



| Application      | for measuring of angles, range: 0 – 180°     |                    |   |     |
|------------------|----------------------------------------------|--------------------|---|-----|
| Type             | with knurled thumb lock, satin chrome finish |                    |   |     |
| Stock-No.        | Ø of protractor mm                           | Length of blade mm |   |     |
| <b>1535- 80</b>  | 80                                           | 120                | 1 | 90  |
| <b>1535- 120</b> | 120                                          | 150                | 1 | 120 |
| <b>1535- 150</b> | 150                                          | 200                | 1 | 190 |
| <b>1535- 200</b> | 200                                          | 300                | 1 | 330 |
| <b>1535- 250</b> | 250                                          | 500                | 1 | 630 |
| <b>1535- 300</b> | 300                                          | 600                | 1 | 700 |

## 1539 Universal Bevel Protractor



| Application      | for use as rule and steel square                                                                                                                                                                        |   |  |     |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|-----|
| Type             | scale range $4 \times 90^\circ$ , reading $1/12^\circ = 5'$ , scale satin chrome finish, with extra square<br><b>Stock-No. 1539:</b> in wallet<br><b>Stock-No. 1541:</b> with magnifier, in wooden case |   |  |     |
| Stock-No.        | mm                                                                                                                                                                                                      |   |  |     |
| <b>1539- 200</b> | 200                                                                                                                                                                                                     | 1 |  | 280 |
| <b>1539- 300</b> | 300                                                                                                                                                                                                     | 1 |  | 740 |
| Stock-No.        | mm                                                                                                                                                                                                      |   |  |     |
| <b>1541- 200</b> | 200                                                                                                                                                                                                     | 1 |  | 285 |
| <b>1541- 300</b> | 300                                                                                                                                                                                                     | 1 |  | 745 |

## 1544 Folding Rule



| Type         | reading 1 mm |   |  |     |
|--------------|--------------|---|--|-----|
| Material     | wood         |   |  |     |
| Stock-No.    | Length m     |   |  |     |
| <b>1544H</b> | 2            | 6 |  | 110 |

## 1542 Measuring Tape



| Type      | automatic tape rewriter, measuring tape vaulted with return stop, with double scale and hook for precise inside and outside measurements, buckling strength, with belt clip, chromized |                  |    |   |     |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----|---|-----|
| Material  | plastic housing, measuring tape made from steel                                                                                                                                        |                  |    |   |     |
| Standard  | according to accuracy class II of the EC regulation                                                                                                                                    |                  |    |   |     |
| Stock-No. | Length of tape m                                                                                                                                                                       | Width of tape mm | mm |   | g   |
| 1542- 3   | 3                                                                                                                                                                                      | 13               | 60 | 1 | 95  |
| 1542- 5   | 5                                                                                                                                                                                      | 19               | 70 | 1 | 210 |
| 1542- 8   | 8                                                                                                                                                                                      | 25               | 90 | 1 | 435 |
| 1542- 10  | 10                                                                                                                                                                                     | 25               | 90 | 1 | 535 |

## 1543 Measuring Tape



| Type      | automatic tape rewriter with return stop, measuring tape vaulted, with double scale and hook for precise inside and outside measurements, buckling strength, black |                  |    |   |     |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----|---|-----|
| Material  | plastic housing, measuring tape made from steel                                                                                                                    |                  |    |   |     |
| Standard  | according to accuracy class II of the EC regulation                                                                                                                |                  |    |   |     |
| Stock-No. | Length of tape m                                                                                                                                                   | Width of tape mm | mm |   | g   |
| 1543- 3   | 3                                                                                                                                                                  | 13               | 60 | 1 | 90  |
| 1543- 5   | 5                                                                                                                                                                  | 19               | 75 | 1 | 190 |

## 1543I Measuring Tape



| Type      | <b>with scale window</b> for precise and comfortable inside measurements, automatic tape rewriter with return stop, measuring tape vaulted, with double scale and hook for precise inside and outside measurements, buckling strength, with belt clip, black |                  |    |   |     |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----|---|-----|
| Material  | plastic housing, measuring tape made from steel                                                                                                                                                                                                              |                  |    |   |     |
| Standard  | according to accuracy class II of the EC regulation                                                                                                                                                                                                          |                  |    |   |     |
| Stock-No. | Length of tape m                                                                                                                                                                                                                                             | Width of tape mm | mm |   | g   |
| 1543I- 3  | 3                                                                                                                                                                                                                                                            | 13               | 60 | 1 | 100 |

## 1548 Measuring Tape



| Type      | automatic tape rewriter, tape vaulted, with double scale and hook for precise inside and outside measurements, buckling strength, white |                  |    |   |    |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------|----|---|----|
| Material  | plastic housing, measuring tape made from steel                                                                                         |                  |    |   |    |
| Standard  | according to accuracy class II of the EC regulation                                                                                     |                  |    |   |    |
| Stock-No. | Length of tape m                                                                                                                        | Width of tape mm | mm |   | g  |
| 1548- 2   | 2                                                                                                                                       | 16               | 55 | 1 | 70 |
| 1548- 3   | 3                                                                                                                                       | 16               | 55 | 1 | 95 |

## 1548SP Measuring Tape



| Type      | automatic tape rewriter with return stop, measuring tape vaulted, with double scale and hook for precise inside and outside measurements, buckling strength, white |                  |    |   |     |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----|---|-----|
| Material  | plastic housing, measuring tape made from steel                                                                                                                    |                  |    |   |     |
| Standard  | according to accuracy class II of the EC regulation                                                                                                                |                  |    |   |     |
| Stock-No. | Length of tape m                                                                                                                                                   | Width of tape mm | mm |   | g   |
| 1548SP- 2 | 2                                                                                                                                                                  | 16               | 56 | 1 | 70  |
| 1548SP- 3 | 3                                                                                                                                                                  | 16               | 56 | 1 | 95  |
| 1548SP- 5 | 5                                                                                                                                                                  | 16               | 66 | 1 | 160 |

## 1549 Measuring Tape



| Type      | measuring tape vaulted, with double scale, graduations in mm and inch |                  |    |   |    |
|-----------|-----------------------------------------------------------------------|------------------|----|---|----|
| Material  | tape in black plastic housing                                         |                  |    |   |    |
| Stock-No. | Length of tape m                                                      | Width of tape mm | mm |   | g  |
| 1549- 2   | 2                                                                     | 13               | 50 | 1 | 60 |
| 1549- 3   | 3                                                                     | 13               | 70 | 1 | 80 |

## 1545 Flexible Steel Rule



| Type       | in spring hardened steel etched, graduation satin chrome finish, etched reading mm and 1/2 mm, up to 500 mm on both sides double scale |   |       |  |
|------------|----------------------------------------------------------------------------------------------------------------------------------------|---|-------|--|
| Material   | spring hardened steel                                                                                                                  |   |       |  |
| Stock-No.  | Measurements<br>mm                                                                                                                     |   | <br>g |  |
| 1545- 100  | 100 × 13 × 0,5                                                                                                                         | 6 | 5     |  |
| 1545- 150  | 150 × 13 × 0,5                                                                                                                         | 6 | 10    |  |
| 1545- 200  | 200 × 13 × 0,5                                                                                                                         | 6 | 10    |  |
| 1545- 250  | 250 × 13 × 0,5                                                                                                                         | 6 | 12    |  |
| 1545- 300  | 300 × 13 × 0,5                                                                                                                         | 6 | 20    |  |
| 1545- 500  | 500 × 25 × 0,5                                                                                                                         | 1 | 40    |  |
| 1545- 1000 | 1000 × 25 × 0,5                                                                                                                        | 1 | 80    |  |
| 1545- 2000 | 2000 × 25 × 0,5                                                                                                                        | 1 | 160   |  |

## 1547 Wide Steel Rule



| Type       | graduation satin chrome finish, etched reading mm and 1/2 mm on both sides |   |       |  |
|------------|----------------------------------------------------------------------------|---|-------|--|
| Material   | spring hardened steel                                                      |   |       |  |
| Stock-No.  | Measurements<br>mm                                                         |   | <br>g |  |
| 1547- 300  | 300 × 30 × 1,0                                                             | 6 | 25    |  |
| 1547- 500  | 500 × 30 × 1,0                                                             | 1 | 110   |  |
| 1547- 1000 | 1000 × 30 × 1,0                                                            | 1 | 230   |  |

## 1550 Engineers Rule



| Type       | without graduation, bevelled edges, polished |   |       |  |
|------------|----------------------------------------------|---|-------|--|
| Stock-No.  | Measurements<br>mm                           |   | <br>g |  |
| 1550- 500  | 500 × 40 × 5                                 | 1 | 640   |  |
| 1550- 1000 | 1000 × 40 × 5                                | 1 | 1300  |  |

## 1551 Engineers Rule



| Type       | graduation in mm, bevelled edges, polished |   |       |  |
|------------|--------------------------------------------|---|-------|--|
| Stock-No.  | Measurements<br>mm                         |   | <br>g |  |
| 1551- 500  | 500 × 40 × 5                               | 1 | 640   |  |
| 1551- 1000 | 1000 × 40 × 5                              | 1 | 1300  |  |

## 1552 Aluminium Rule



| Type       | graduation in mm, bevelled edges |   |       |  |
|------------|----------------------------------|---|-------|--|
| Material   | aluminium alloy                  |   |       |  |
| Stock-No.  | Measurements<br>mm               |   | <br>g |  |
| 1552- 300  | 300 × 50 × 5                     | 1 | 190   |  |
| 1552- 600  | 600 × 50 × 5                     | 1 | 365   |  |
| 1552- 1000 | 1000 × 50 × 5                    | 1 | 605   |  |

## 1582 Steel Marking Gauge



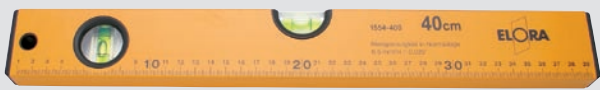
| Type      | flat pattern with hardened lay-out edge, satin chrome finish, graduation in mm, with set screw |   |       |  |
|-----------|------------------------------------------------------------------------------------------------|---|-------|--|
| Stock-No. | <br>mm                                                                                         |   | <br>g |  |
| 1582- 200 | 200                                                                                            | 1 | 420   |  |
| 1582- 250 | 250                                                                                            | 1 | 480   |  |
| 1582- 300 | 300                                                                                            | 1 | 500   |  |

## 1583 Steel Marking Gauge



| Type      | with round rod, with mm graduation, reading 0.1 mm, with replaceable scriber |   |       |
|-----------|------------------------------------------------------------------------------|---|-------|
| Stock-No. | Measurements<br>mm                                                           |   | <br>g |
| 1583- 300 | 300                                                                          | 1 | 590   |
| 1583E     | Spare scriber                                                                | 1 | 15    |

## 1554 Spirit-Level



| Type       | with unbreakable vial, horizontal vial with magnifying lens and luminous coating for precise reading, accuracy: 1 mm/m = 0.057°, solid rectangular profile 50 × 21 mm, surface plastic-laminated, with mm graduation |   |       |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------|
| Material   | Aluminium profile, vial made of unbreakable acrylic glass                                                                                                                                                            |   |       |
| Stock-No.  | mm                                                                                                                                                                                                                   |   | <br>g |
| 1554- 400  | 400                                                                                                                                                                                                                  | 1 | 240   |
| 1554- 600  | 600                                                                                                                                                                                                                  | 1 | 355   |
| 1554- 800  | 800                                                                                                                                                                                                                  | 1 | 470   |
| 1554- 1000 | 1000                                                                                                                                                                                                                 | 1 | 580   |

## 1556BL Spirit Level "Set and Match"

**New!**



| Type      | with unbreakable vial; four inside sliding carriers, easy to set system, two scales of 0-800 and 0 ± 305 mm, blocks made from high resistant plastic, with block vials, accuracy 0,5 mm/m in standard position |   |       |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------|
| Material  | Profile 56 × 20 mm made from aluminium, impact resistant vials                                                                                                                                                 |   |       |
| Stock-No. | mm                                                                                                                                                                                                             |   | <br>g |
| 1556BL    | 800                                                                                                                                                                                                            | 1 | 550   |

## 1556RL Spirit Level "Set and Match"

**New!**

| Type      | same as Stock-No. 1556BL but with pipe vials, accuracy 1 mm/m in standard position |   |       |
|-----------|------------------------------------------------------------------------------------|---|-------|
| Stock-No. | mm                                                                                 |   | <br>g |
| 1556RL    | 800                                                                                | 1 | 550   |

## 1565 Universal Magnetic Dial Gauge Stand



| Application | for holding dial indicators Stock-No. 1555 and 1557                                                                                                                                                                                                         |   |       |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------|
| Type        | with precision adjustment, with ON/OFF switch for magnet activation, magnetic base: 50 × 60 × 55 mm, adherence 80 kg, with prism guiding and thread M8, vertical rod: Ø 16 mm, length 225 mm, horizontal rod: Ø 12 mm, length 180 mm, mounting hole: Ø 8 mm |   |       |
| Material    | switch made of shock-proof bakelite                                                                                                                                                                                                                         |   |       |
| Stock-No.   | mm                                                                                                                                                                                                                                                          |   | <br>g |
| 1565        | 250                                                                                                                                                                                                                                                         | 1 | 1250  |

## 1555 Precision Dial Indicator



| Application | to be clamped into dial gauge stand Stock-No. 1565                                                                                         |               |                 |   |       |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------|---|-------|
| Type        | range 10 mm, reading 0.01 mm, with 2 pointers, clamping shank 8h6, splash- and shock-proof, with metal housing, stainless, in storage case |               |                 |   |       |
| Material    | measuring pointer and clamping shank made of stainless steel                                                                               |               |                 |   |       |
| Stock-No.   | Range<br>mm                                                                                                                                | Reading<br>mm | Outside Ø<br>mm |   | <br>g |
| 1555        | 10                                                                                                                                         | 0,01          | 58              | 1 | 180   |

## 1557 Precision Mini Dial Indicator



| Application | to be clamped into dial gauge stand Stock-No. 1565                                                               |               |                 |   |       |
|-------------|------------------------------------------------------------------------------------------------------------------|---------------|-----------------|---|-------|
| Type        | range 5 mm, reading 0.01 mm, with 2 pointers, clamping shank 8h6, with metal housing, stainless, in storage case |               |                 |   |       |
| Material    | measuring pointer and clamping shank made of stainless steel                                                     |               |                 |   |       |
| Stock-No.   | Range<br>mm                                                                                                      | Reading<br>mm | Outside Ø<br>mm |   | <br>g |
| 1557        | 5                                                                                                                | 0,01          | 40              | 1 | 120   |



## 1569 Precision Steel Square



| Application | for checking the evenness of surfaces via light-gap method  |   |       |
|-------------|-------------------------------------------------------------|---|-------|
| Type        | with 2 bevelled edges, measuring surfaces lapped, hardened. |   |       |
| Standard    | according to DIN 875/00                                     |   |       |
| Stock-No.   | Measurements<br>mm                                          |   | <br>g |
| 1569- 50    | 50 × 40                                                     | 1 | 35    |
| 1569- 75    | 75 × 50                                                     | 1 | 56    |
| 1569- 100   | 100 × 70                                                    | 1 | 117   |
| 1569- 150   | 150 × 100                                                   | 1 | 275   |

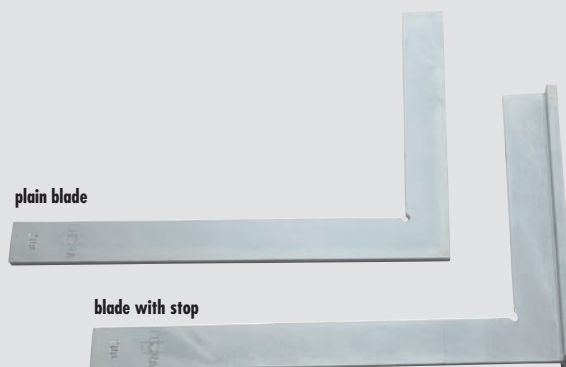
## 1569H Precision Steel Square



**New!**

| Type      | same as Stock-No. 1569 but in wooden box |   |       |
|-----------|------------------------------------------|---|-------|
| Stock-No. | Measurements<br>mm                       |   | <br>g |
| 1569H- 50 | 50 × 40                                  | 1 | 139   |
| 1569H- 75 | 75 × 50                                  | 1 | 160   |
| 1569H-100 | 100 × 70                                 | 1 | 221   |
| 1569H-150 | 150 × 100                                | 1 | 519   |

## 1570/71 Engineers Steel Square



|             |                                                                                              |
|-------------|----------------------------------------------------------------------------------------------|
| Application | for simple locksmith work                                                                    |
| Type        | 1570: plain blade, 90° angled, zinc plated<br>1571: blade with stop, 90° angled, zinc plated |
| Material    | steel                                                                                        |

| Stock-No.  |             | Measurements<br>mm |   | <br>g |
|------------|-------------|--------------------|---|-------|
| 1570- 100  | plain blade | 100 × 70           | 6 | 70    |
| 1570- 150  | plain blade | 150 × 100          | 6 | 150   |
| 1570- 200  | plain blade | 200 × 130          | 6 | 250   |
| 1570- 250  | plain blade | 250 × 160          | 6 | 350   |
| 1570- 300  | plain blade | 300 × 180          | 6 | 400   |
| 1570- 400  | plain blade | 400 × 230          | 6 | 575   |
| 1570- 500  | plain blade | 500 × 280          | 6 | 770   |
| 1570- 600  | plain blade | 600 × 330          | 1 | 1000  |
| 1570- 750  | plain blade | 750 × 380          | 1 | 1200  |
| 1570- 1000 | plain blade | 1000 × 500         | 1 | 1850  |

| Stock-No.  |                 | Measurements<br>mm |   | <br>g |
|------------|-----------------|--------------------|---|-------|
| 1571- 100  | blade with stop | 100 × 70           | 4 | 105   |
| 1571- 150  | blade with stop | 150 × 100          | 4 | 235   |
| 1571- 200  | blade with stop | 200 × 130          | 4 | 350   |
| 1571- 250  | blade with stop | 250 × 160          | 4 | 475   |
| 1571- 300  | blade with stop | 300 × 180          | 2 | 550   |
| 1571- 400  | blade with stop | 400 × 230          | 2 | 800   |
| 1571- 500  | blade with stop | 500 × 280          | 2 | 1100  |
| 1571- 600  | blade with stop | 600 × 330          | 1 | 1400  |
| 1571- 750  | blade with stop | 750 × 375          | 1 | 1850  |
| 1571- 1000 | blade with stop | 1000 × 500         | 1 | 2250  |

## 1574/75 Precision Steel Square

|             |                                            |
|-------------|--------------------------------------------|
| Application | for precise work                           |
| Type        | 1574: plain blade<br>1575: blade with stop |
| Material    | stainless steel                            |
| Standard    | according to DIN 875/2                     |

| Stock-No. |             | Measurements<br>mm |   | <br>g |
|-----------|-------------|--------------------|---|-------|
| 1574- 100 | plain blade | 100 × 70           | 1 | 100   |
| 1574- 150 | plain blade | 150 × 100          | 1 | 200   |
| 1574- 200 | plain blade | 200 × 130          | 1 | 440   |
| 1574- 250 | plain blade | 250 × 160          | 1 | 550   |
| 1574- 300 | plain blade | 300 × 175          | 1 | 750   |

| Stock-No. |                 | Measurements<br>mm |   | <br>g |
|-----------|-----------------|--------------------|---|-------|
| 1575- 100 | blade with stop | 100 × 70           | 1 | 150   |
| 1575- 150 | blade with stop | 150 × 100          | 1 | 300   |
| 1575- 200 | blade with stop | 200 × 130          | 1 | 650   |
| 1575- 250 | blade with stop | 250 × 160          | 1 | 750   |
| 1575- 300 | blade with stop | 300 × 175          | 1 | 980   |

## 1553/1553R Precision Straight-Edge Rule



| Application | for checking the evenness of surfaces                                                                      |                    |   |       |
|-------------|------------------------------------------------------------------------------------------------------------|--------------------|---|-------|
| Type        | with two measuring edges, measuring surfaces lapped, hardened, with heat-insulated handle, in storage case |                    |   |       |
| Material    | 1553: standard steel, 1553R: stainless INOX                                                                |                    |   |       |
| Standard    | according to DIN 875/00                                                                                    |                    |   |       |
| Stock-No.   |                                                                                                            | Measurements<br>mm |   | <br>g |
| 1553- 100   | standard steel                                                                                             | 100                | 1 | 80    |
| 1553- 150   | standard steel                                                                                             | 150                | 1 | 150   |
| 1553- 200   | standard steel                                                                                             | 200                | 1 | 245   |
| 1553- 300   | standard steel                                                                                             | 300                | 1 | 495   |
| 1553- 500   | standard steel                                                                                             | 500                | 1 | 1095  |
| Stock-No.   |                                                                                                            | Measurements<br>mm |   | <br>g |
| 1553R- 100  | stainless INOX                                                                                             | 100                | 1 | 100   |
| 1553R- 150  | stainless INOX                                                                                             | 150                | 1 | 170   |
| 1553R- 200  | stainless INOX                                                                                             | 200                | 1 | 340   |
| 1553R- 300  | stainless INOX                                                                                             | 300                | 1 | 640   |
| 1553R- 500  | stainless INOX                                                                                             | 500                | 1 | 1120  |

## 1578 Flange Steel Square



| Application | for precise alignment of flanges |              |   |       |
|-------------|----------------------------------|--------------|---|-------|
| Type        | polished                         |              |   |       |
| Stock-No.   | Measurements mm                  |              |   | <br>g |
|             | Length                           | Flange width |   |       |
| 1578- 300   | 300 × 300                        | 100 × 65     | 1 | 670   |
| 1578- 400   | 400 × 400                        | 125 × 70     | 1 | 1200  |
| 1578- 500   | 500 × 500                        | 125 × 70     | 1 | 1350  |
| 1578- 600   | 600 × 500                        | 125 × 100    | 1 | 1600  |

## 1579 Steel Square 135°



| Application | for precise scribing and checking of 45° for mitre joints 90° |   |       |
|-------------|---------------------------------------------------------------|---|-------|
| Type        | blade with stop                                               |   |       |
| Standard    | according to DIN 875/2                                        |   |       |
| Stock-No.   | Measurements<br>mm                                            |   | <br>g |
| 1579- 150   | 150 × 100                                                     | 1 | 260   |
| 1579- 200   | 200 × 130                                                     | 1 | 350   |

## 1576 Joiner's Adjustable Bevel



| Application | for transferring angles           |   |       |
|-------------|-----------------------------------|---|-------|
| Type        | 3 parts, with set screw, polished |   |       |
| Stock-No.   | Measurements<br>mm                |   | <br>g |
| 1576- 250   | 250                               | 1 | 400   |
| 1576- 300   | 300                               | 1 | 500   |
| 1576- 500   | 500                               | 1 | 800   |

## 1577 Precision Centre Square



| Application | for scribing the centre of round discs and shafts        |   |       |
|-------------|----------------------------------------------------------|---|-------|
| Type        | with mm graduation, scale anti-glare satin chrome finish |   |       |
| Standard    | according to DIN 875/1                                   |   |       |
| Stock-No.   | Measurements<br>mm                                       |   | <br>g |
| 1577- 100   | 100 × 70                                                 | 1 | 150   |
| 1577- 150   | 150 × 130                                                | 1 | 400   |
| 1577- 200   | 200 × 150                                                | 1 | 500   |
| 1577- 250   | 250 × 160                                                | 1 | 610   |
| 1577- 300   | 300 × 180                                                | 1 | 750   |
| 1577- 400   | 400 × 250                                                | 1 | 2100  |

## 1580 Inside Caliper



Application for transferring inside measures

Type fine polished

Standard according to DIN 6482

| Stock-No. | mm  |   | g   |
|-----------|-----|---|-----|
| 1580- 200 | 200 | 1 | 100 |
| 1580- 300 | 300 | 1 | 225 |

## 1581 Outside Caliper



Application for transferring outside measures

Type fine polished

Standard according to DIN 6484

| Stock-No. | mm  |   | g   |
|-----------|-----|---|-----|
| 1581- 200 | 200 | 1 | 130 |
| 1581- 250 | 250 | 1 | 200 |
| 1581- 300 | 300 | 1 | 260 |
| 1581- 500 | 500 | 1 | 500 |

## 1566GU Joiner's Square



Type stop leg with mitre, steel blade 30 mm, scale with mm graduation from and to mitre

Material leg made of diecasting

| Stock-No.    | Measurements mm |   | g   |
|--------------|-----------------|---|-----|
| 1566 GU- 250 | 250             | 6 | 140 |
| 1566 GU- 300 | 300             | 6 | 150 |

## 1566H Joiner's Square

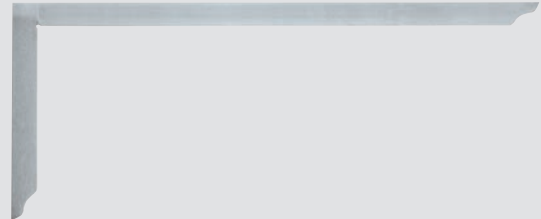


Type stop leg with mitre, blue steel blade, scale with mm graduation from and to mitre

Material leg made from beech wood with brass fittings

| Stock-No.   | Measurements mm |   | g   |
|-------------|-----------------|---|-----|
| 1566 H- 250 | 250             | 3 | 170 |
| 1566 H- 300 | 300             | 3 | 200 |
| 1566 H- 400 | 400             | 3 | 270 |

## 1568Z/ZA Carpenter's Square

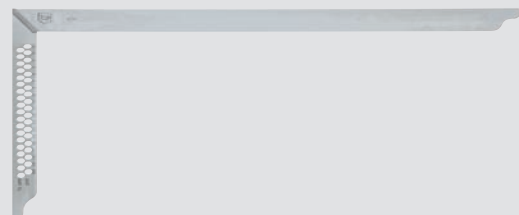


Type **1568Z:** without marking holes, 35 mm wide, zinc plated  
**1568ZA:** with marking holes and mm graduation, 35 mm wide, zinc plated

| Stock-No.    | Measurements mm |   | g   |
|--------------|-----------------|---|-----|
| 1568 Z- 700  | 700 × 300       | 1 | 460 |
| 1568 Z- 800  | 800 × 320       | 1 | 510 |
| 1568 Z- 1000 | 1000 × 380      | 1 | 700 |

| Stock-No.     | Measurements mm |   | g   |
|---------------|-----------------|---|-----|
| 1568 ZA- 700  | 700 × 300       | 1 | 430 |
| 1568 ZA- 800  | 800 × 320       | 1 | 480 |
| 1568 ZA- 1000 | 1000 × 380      | 1 | 670 |

## 1568R Carpenter's Square



Type with marking holes and graduation, 35 mm wide, spot welded, zinc plated

Material stainless steel

| Stock-No.    | Measurements mm |   | g   |
|--------------|-----------------|---|-----|
| 1568 R- 700  | 700 × 300       | 1 | 310 |
| 1568 R- 800  | 800 × 320       | 1 | 360 |
| 1568 R- 1000 | 1000 × 380      | 1 | 440 |

## 1567GU Joiner's Sliding Bevel



| Type        | with screw lock        |   |       |
|-------------|------------------------|---|-------|
| Material    | leg made of diecasting |   |       |
| Stock-No.   | Measurements<br>mm     |   | <br>g |
| 1567 GU-250 | 250                    | 6 | 285   |
| 1567 GU-300 | 300                    | 6 | 320   |

## 1567H Joiner's Sliding Bevel



| Type        | with blue steel blade and brass fittings, with lever stop |   |       |
|-------------|-----------------------------------------------------------|---|-------|
| Material    | leg made of beech wood, blade made of steel               |   |       |
| Stock-No.   | Measurements<br>mm                                        |   | <br>g |
| 1567 H- 200 | 200                                                       | 6 | 110   |
| 1567 H- 250 | 250                                                       | 6 | 130   |
| 1567 H- 300 | 300                                                       | 6 | 150   |

## 188 Feeler Gauge



| Type      | standard type, blades fold into metal case, blade length 100 mm, taper blades, polished                                                                    |    |       |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|
| Material  | spring steel strip                                                                                                                                         |    |       |
| Stock-No. | Thickness<br>mm                                                                                                                                            |    | <br>g |
| 188- 8M   | 0,05; 0,10; 0,15; 0,20; 0,25; 0,30; 0,40; 0,50                                                                                                             | 10 | 35    |
| 188- 81M  | 0,03; 0,04; 0,05; 0,06; 0,07; 0,08; 0,09; 0,10                                                                                                             | 10 | 22    |
| 188- 13M  | 0,05; 0,10; 0,15; 0,20; 0,25; 0,30; 0,40; 0,50; 0,60; 0,70; 0,80; 0,90; 1,00                                                                               | 10 | 68    |
| 188- 20M  | 0,05; 0,10; 0,15; 0,20; 0,25; 0,30; 0,35; 0,40; 0,45; 0,50; 0,55; 0,60; 0,65; 0,70; 0,75; 0,80; 0,85; 0,90; 0,95; 1,00                                     | 10 | 106   |
| 188- 201M | 0,05; 0,10; 0,20; 0,30; 0,40; 0,50; 0,60; 0,70; 0,80; 0,90; 1,00; 1,10; 1,20; 1,30; 1,40; 1,50; 1,60; 1,70; 1,80; 1,90; 2,00                               | 10 | 185   |
| 188- 21M  | 0,10; 0,12; 0,14; 0,16; 0,18; 0,20; 0,22; 0,24; 0,26; 0,28; 0,30; 0,32; 0,34; 0,36; 0,38; 0,40; 0,42; 0,44; 0,46; 0,48; 0,50                               | 10 | 70    |
| 188- 26M  | 0,03; 0,04; 0,05; 0,06; 0,07; 0,08; 0,09; 0,10; 0,15; 0,20; 0,25; 0,30; 0,35; 0,40; 0,45; 0,50; 0,55; 0,60; 0,65; 0,70; 0,75; 0,80; 0,85; 0,90; 0,95; 1,00 | 10 | 104   |

| Stock-No. | Thickness<br>Imperial inch                                                                                                                                   |    | <br>g |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|
| 188- 8Z   | .002; .004; .006; .008; .010; .012; .015; .020                                                                                                               | 10 | 34    |
| 188- 11Z  | .0015; .002; .003; .004; .006; .008; .010; .012; .015; .020; .025                                                                                            | 10 | 38    |
| 188- 13Z  | .002; .003; .004; .005; .006; .008; .010; .012; .015; .020; .025; .030; .035                                                                                 | 10 | 52    |
| 188- 20Z  | .002; .003; .004; .005; .006; .007; .008; .009; .010; .011; .012; .013; .014; .016; .018; .020; .022; .024; .030; .035                                       | 10 | 74    |
| 188- 22Z  | .004; .005; .006; .007; .008; .009; .010; .011; .012; .013; .014; .015; .016; .017; .018; .019; .020; .021; .022; .023; .024; .025                           | 10 | 85    |
| 188- 26Z  | .0015; .002; .0025; .003; .004; .005; .006; .007; .008; .009; .010; .011; .012; .013; .014; .015; .016; .017; .018; .019; .020; .021; .022; .023; .024; .025 | 10 | 86    |

## 188MZ Feeler Gauge



|           |                                                                                         |                                 |                                                                                       |                                                                                            |
|-----------|-----------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Type      | standard type, blades fold into metal case, blade length 100 mm, taper blades, polished |                                 |                                                                                       |                                                                                            |
| Material  | spring steel strip                                                                      |                                 |                                                                                       |                                                                                            |
| Stock-No. | Thickness<br>mm                                                                         | Thickness<br>Imperial inch      |  | <br>g |
| 188MZ- 25 | 0,04; 0,05; 0,08; 0,10;                                                                 | 0,0015; 0,0020; 0,0030; 0,0040; | 10                                                                                    | 86                                                                                         |
|           | 0,12; 0,15; 0,18; 0,20;                                                                 | 0,0050; 0,0060; 0,0070; 0,0080; |                                                                                       |                                                                                            |
|           | 0,22; 0,25; 0,28; 0,30;                                                                 | 0,0090; 0,0100; 0,0110; 0,0120; |                                                                                       |                                                                                            |
|           | 0,33; 0,35; 0,38; 0,40;                                                                 | 0,0130; 0,0140; 0,0150; 0,0160; |                                                                                       |                                                                                            |
|           | 0,43; 0,45; 0,50; 0,55;                                                                 | 0,0170; 0,0180; 0,0200; 0,0220; |                                                                                       |                                                                                            |
|           | 0,63; 0,75; 0,80; 0,88;                                                                 | 0,0250; 0,0300; 0,0320; 0,0350; |                                                                                       |                                                                                            |
|           | 1,00                                                                                    | 0,0400                          |                                                                                       |                                                                                            |
|           |                                                                                         |                                 |                                                                                       |                                                                                            |
|           |                                                                                         |                                 |                                                                                       |                                                                                            |
|           |                                                                                         |                                 |                                                                                       |                                                                                            |

## 188R Feeler Gauge



| Type      | standard type, blades fold into metal case, blade length 100 mm, taper blades, polished                                |    |  |     |  |
|-----------|------------------------------------------------------------------------------------------------------------------------|----|--|-----|--|
| Material  | stainless steel                                                                                                        |    |  |     |  |
| Stock-No. | Thickness mm                                                                                                           |    |  |     |  |
| 188R- 8M  | 0,05; 0,10; 0,15; 0,20; 0,25; 0,30; 0,40; 0,50                                                                         | 10 |  | 35  |  |
| 188R- 13M | 0,05; 0,10; 0,15; 0,20; 0,25; 0,30; 0,40; 0,50; 0,60; 0,70; 0,80; 0,90; 1,00                                           | 10 |  | 106 |  |
| 188R- 20M | 0,05; 0,10; 0,15; 0,20; 0,25; 0,30; 0,35; 0,40; 0,45; 0,50; 0,55; 0,60; 0,65; 0,70; 0,75; 0,80; 0,85; 0,90; 0,95; 1,00 | 10 |  | 102 |  |

## 192 Valve Tappet Gauge



| Type      | blade length 75 mm, polished       |    |    |   |  |
|-----------|------------------------------------|----|----|---|--|
| Material  | spring steel strip                 |    |    |   |  |
| Stock-No. | Thickness mm                       | mm |    |   |  |
| 192- 6M   | .010; .015; .020; .025; .030; .040 | 75 | 12 | 8 |  |
| Stock-No. | Thickness Imperial Inch            | mm |    |   |  |
| 192- 6Z   | .004; .008; .010; .012; .015; .020 | 75 | 12 | 8 |  |

## 194 Nozzle Gauge



| Type      | polished, with precision pins                                                                                          |    |    |    |  |
|-----------|------------------------------------------------------------------------------------------------------------------------|----|----|----|--|
| Material  | high grade tool steel, pins made of precision steel wire                                                               |    |    |    |  |
| Stock-No. | Gauge Ø mm                                                                                                             | mm |    |    |  |
| 194- 20M  | 0,45; 0,50; 0,55; 0,60; 0,65; 0,70; 0,75; 0,80; 0,85; 0,90; 0,95; 1,00; 1,05; 1,10; 1,15; 1,20; 1,25; 1,30; 1,40; 1,50 | 65 | 12 | 68 |  |
| Stock-No. | Gauge Ø mm                                                                                                             | mm |    |    |  |
| 194- 16M  | 1,50; 1,60; 1,70; 1,80; 1,90; 2,00; 2,10; 2,20; 2,30; 2,40; 2,50; 2,60; 2,70; 2,80; 2,90; 3,00                         | 65 | 12 | 78 |  |

## 197 Feeler Gauge Strip



| Type      | length: 5 m, width: 13 mm, thickness markings each 10 cm, polished, in plastic case |    |   |     |  |
|-----------|-------------------------------------------------------------------------------------|----|---|-----|--|
| Material  | spring steel strip, 197-01 and 197-02: stainless spring steel strip                 |    |   |     |  |
| Stock-No. | Thickness mm                                                                        | mm |   |     |  |
| 197- 01   | 0,01                                                                                | 5  | 6 | 22  |  |
| 197- 02   | 0,02                                                                                | 5  | 6 | 30  |  |
| 197- 03   | 0,03                                                                                | 5  | 6 | 32  |  |
| 197- 04   | 0,04                                                                                | 5  | 6 | 38  |  |
| 197- 05   | 0,05                                                                                | 5  | 6 | 44  |  |
| 197- 06   | 0,06                                                                                | 5  | 6 | 50  |  |
| 197- 07   | 0,07                                                                                | 5  | 6 | 52  |  |
| 197- 08   | 0,08                                                                                | 5  | 6 | 60  |  |
| 197- 10   | 0,10                                                                                | 5  | 6 | 78  |  |
| 197- 15   | 0,15                                                                                | 5  | 6 | 102 |  |
| 197- 20   | 0,20                                                                                | 5  | 6 | 130 |  |
| 197- 25   | 0,25                                                                                | 5  | 6 | 150 |  |
| 197- 30   | 0,30                                                                                | 5  | 6 | 165 |  |
| 197- 35   | 0,35                                                                                | 5  | 6 | 250 |  |
| 197- 40   | 0,40                                                                                | 5  | 6 | 255 |  |
| 197- 45   | 0,45                                                                                | 5  | 6 | 285 |  |
| 197- 50   | 0,50                                                                                | 5  | 6 | 345 |  |
| Stock-No. | Thickness Imperial inch                                                             | mm |   |     |  |
| 197- 002  | .002                                                                                | 5  | 6 | 54  |  |
| 197- 003  | .003                                                                                | 5  | 6 | 70  |  |
| 197- 004  | .004                                                                                | 5  | 6 | 78  |  |
| 197- 006  | .006                                                                                | 5  | 6 | 102 |  |
| 197- 008  | .008                                                                                | 5  | 6 | 130 |  |
| 197- 010  | .010                                                                                | 5  | 6 | 150 |  |
| 197- 012  | .012                                                                                | 5  | 6 | 165 |  |
| 197- 015  | .015                                                                                | 5  | 6 | 250 |  |

## 8421-26 Radius Gauge



| Application | for checking inside and outside radius               |        |                 |   |      |
|-------------|------------------------------------------------------|--------|-----------------|---|------|
| Type        | concave and convex blades, milled, with fixing screw |        |                 |   |      |
| Stock-No.   | Radius mm                                            | Blades | Type            |   |      |
| 8421        | 1,0 – 7                                              | 17     | standard steel  | 6 | 63,0 |
| 8422        | 7,5 – 15                                             | 16     | standard steel  | 6 | 97,6 |
| 8423        | 15,5 – 25                                            | 15     | standard steel  | 6 | 92,7 |
| 8424        | 1,0 – 7                                              | 17     | stainless steel | 6 | 63,0 |
| 8425        | 7,5 – 15                                             | 16     | stainless steel | 6 | 97,6 |
| 8426        | 15,5 – 25                                            | 15     | stainless steel | 6 | 92,7 |



## 1584 Divider



| Type      | with rivet joint and hardened points, forged steel |   |  |      |
|-----------|----------------------------------------------------|---|--|------|
| Standard  | according to DIN 6486                              |   |  |      |
| Stock-No. | mm                                                 |   |  | g    |
| 1584- 150 | 150                                                | 1 |  | 85   |
| 1584- 200 | 200                                                | 1 |  | 160  |
| 1584- 250 | 250                                                | 1 |  | 260  |
| 1584- 300 | 300                                                | 1 |  | 380  |
| 1584- 500 | 500                                                | 1 |  | 1030 |

## 1585 Wing Divider



| Type      | with setting wing, with rivet joint and hardened points, forged steel |   |  |      |
|-----------|-----------------------------------------------------------------------|---|--|------|
| Standard  | according to DIN 6486                                                 |   |  |      |
| Stock-No. | mm                                                                    |   |  | g    |
| 1585- 150 | 150                                                                   | 1 |  | 125  |
| 1585- 200 | 200                                                                   | 1 |  | 180  |
| 1585- 250 | 250                                                                   | 1 |  | 280  |
| 1585- 300 | 300                                                                   | 1 |  | 360  |
| 1585- 400 | 400                                                                   | 1 |  | 910  |
| 1585- 500 | 500                                                                   | 1 |  | 1110 |

## 1586 Wing Divider with Pencil Holder



| Type      | with pencil holder and setting wing, with rivet joint and hardened points, forged steel |   |  |     |
|-----------|-----------------------------------------------------------------------------------------|---|--|-----|
| Standard  | according to DIN 6486                                                                   |   |  |     |
| Stock-No. | mm                                                                                      |   |  | g   |
| 1586- 200 | 200                                                                                     | 1 |  | 250 |

## 1587 Precision Spring Divider



| Type      | with adjusting nut, with edged legs and three part rivet joint, points hardened, forged steel |   |  |     |
|-----------|-----------------------------------------------------------------------------------------------|---|--|-----|
| Standard  | according to DIN 6487                                                                         |   |  |     |
| Stock-No. | mm                                                                                            |   |  | g   |
| 1587- 150 | 150                                                                                           | 1 |  | 100 |
| 1587- 200 | 200                                                                                           | 1 |  | 160 |
| 1587- 250 | 250                                                                                           | 1 |  | 210 |

## 1590 Engineers Scriber



| Type      | handle gun metal finish and knurled, with screwed-in steel point |             |  |    |
|-----------|------------------------------------------------------------------|-------------|--|----|
| Stock-No. | mm                                                               |             |  | g  |
| 1590      | 175                                                              | 12          |  | 40 |
| 1590E     | 90                                                               | Spare point |  |    |

## 1591 Engineers Scriber



| Type      | with one straight and one angled screwed-in steel point, handle gun metal finish and knurled |                      |  |    |
|-----------|----------------------------------------------------------------------------------------------|----------------------|--|----|
| Stock-No. | mm                                                                                           |                      |  | g  |
| 1591      | 250                                                                                          | 12                   |  | 50 |
| 1591E80   | 80                                                                                           | Spare point straight |  |    |
| 1591E90   | 80                                                                                           | Spare point bent     |  |    |

## 1592 HM Hexagon Engineers Scriber



| Application | especially for scribing extra hard materials             |    |  |    |
|-------------|----------------------------------------------------------|----|--|----|
| Type        | stable hexagon shape with deep inserted point, with clip |    |  |    |
| Material    | point made of hard alloy                                 |    |  |    |
| Stock-No.   | mm                                                       |    |  | g  |
| 1592        | 145                                                      | 12 |  | 40 |

## 1593 HM Engineers Scriber



| Application | especially for scribing extra hard materials                                                                                                                                                                      |             |    |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----|
| Type        | scriber retractable for protection of the point and prevention of injuries, replaceable, both ends usable and secured against dropping, secure hold of the point via chuck, shaft with clip and knurled grip area |             |    |
| Material    | point made of hard alloy                                                                                                                                                                                          |             |    |
| Stock-No.   | mm                                                                                                                                                                                                                |             | g  |
| 1593        | 150                                                                                                                                                                                                               | 12          | 35 |
| 1593E       | 25                                                                                                                                                                                                                | Spare point |    |

## 1597 Height Gauge, Stainless



| Application | for scribing heights from 0 mm                                                                                                       |   |    |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------|---|----|
| Type        | reading 0,02 mm, all reading parts anti-glare chrome plated, vernier scale 1/50 mm, with fine adjustment, hard metal scriber cranked |   |    |
| Material    | point made of hard metal                                                                                                             |   |    |
| Stock-No.   | Measurements mm                                                                                                                      |   | kg |
| 1597- 300   | 300                                                                                                                                  | 1 | 4  |
| 1597- 500   | 500                                                                                                                                  | 1 | 10 |

## 1598 Height Gauge, Stainless



| Application | for scribing heights from 0 mm                                                                                                                                                |   |    |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|
| Type        | reading 0,02 mm, all reading parts satin chrome finish, vernier scale 1/50 mm, with fine adjustment and magnifier, hard metal scriber cranked, with adjustable measuring rail |   |    |
| Material    | point made of hard metal                                                                                                                                                      |   |    |
| Stock-No.   | Measurements mm                                                                                                                                                               |   | kg |
| 1598- 300   | 300                                                                                                                                                                           | 1 | 5  |
| 1598- 500   | 500                                                                                                                                                                           | 1 | 12 |

## 1595 Surface Gauge



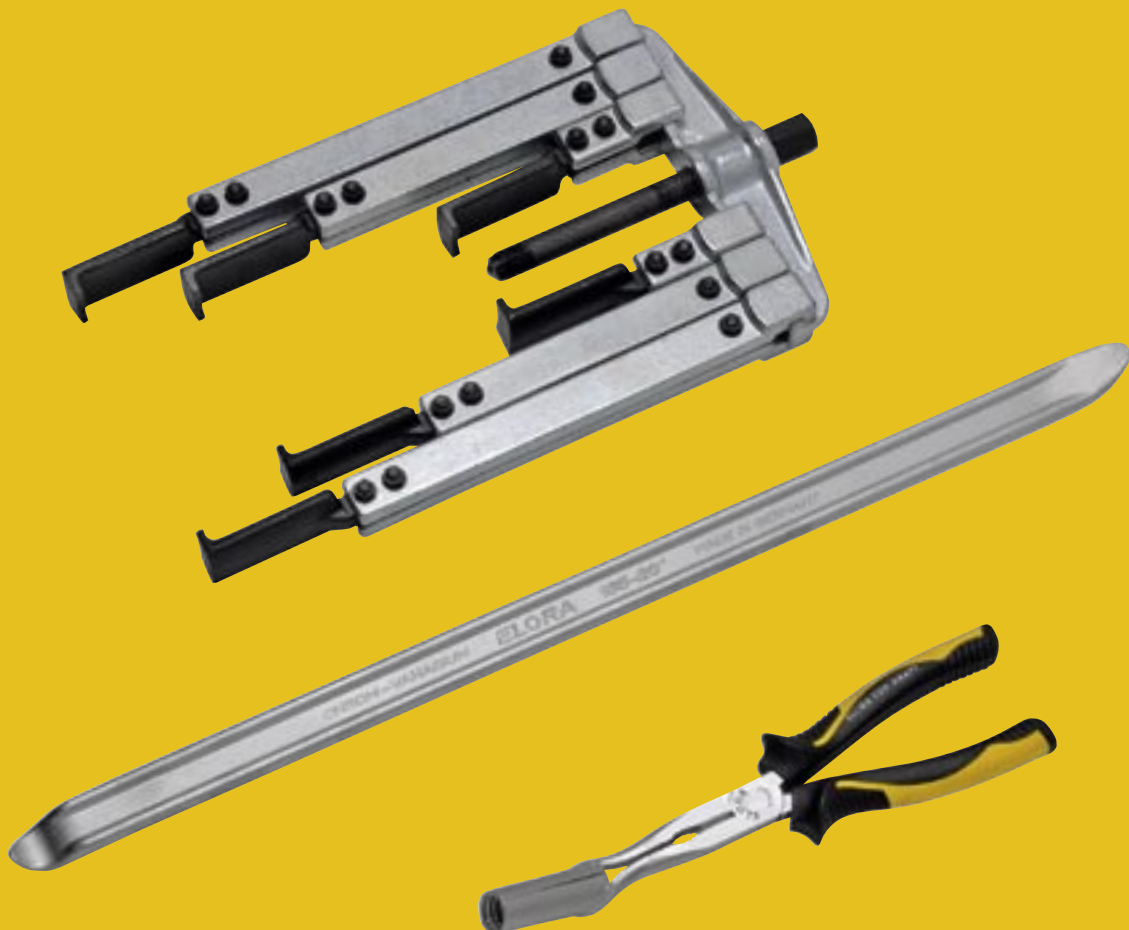
| Application | for scribing parallel lines |   |     |
|-------------|-----------------------------|---|-----|
| Type        | with round base             |   |     |
| Material    | base made of cast iron      |   |     |
| Stock-No.   | Measurements mm             |   | g   |
| 1595- 300   | 300                         | 1 | 665 |



## **MOBILE WITH ELORA TOOLS – AUTOMATICALLY THE BEST CHOICE.**

This chapter is predestined for new products. Technicians world-wide keep on inventing new solutions for various applications. Besides a number of different pliers we are targeting an increased range of pullers.

### **AUTOMOTIVE TOOLS, PULLERS**

**12**

## Engine, Gear Box and Differential Service

### 164 Pry Bar



|             |                                                                       |   |     |
|-------------|-----------------------------------------------------------------------|---|-----|
| Application | for removal of wheel caps and wheels, for lifting cylinder heads etc. |   |     |
| Type        | chrome plated                                                         |   |     |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                             |   |     |
| Stock-No.   |                                                                       |   |     |
| 164         | 400                                                                   | 6 | 475 |

### 166 Tyre Lever



|             |                                                                                                                   |   |     |
|-------------|-------------------------------------------------------------------------------------------------------------------|---|-----|
| Application | for dismantling parts being stuck or lying on top of each other, for centering of bore holes for screws and bolts |   |     |
| Type        | one side offset, other side to end in a point, square shank, chrome plated                                        |   |     |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                         |   |     |
| Stock-No.   |                                                                                                                   |   |     |
| 166         | 400                                                                                                               | 6 | 500 |

### 313 Pullers for cam shaft wheels

**New!**



|             |                                                                                                                 |    |   |
|-------------|-----------------------------------------------------------------------------------------------------------------|----|---|
| Application | For Audi, VW-cam shaft wheels for diesel engines TDI-4, -6, -8, and petrol engines V6, V8 built later than 1998 |    |   |
| Type        | With four special legs, silver                                                                                  |    |   |
| Material    | high grade tool Steel                                                                                           |    |   |
| Stock-No.   |                                                                                                                 |    |   |
| 313         | 130                                                                                                             | 44 | 1 |

### 244-4 Hose Clamp Plier



|             |                                                                       |   |     |
|-------------|-----------------------------------------------------------------------|---|-----|
| Application | for spring band hose clamps up to 42 mm in awkward areas              |   |     |
| Type        | with self-adjustable box joint, nickel plated, box joint black finish |   |     |
| Material    | high grade tool steel                                                 |   |     |
| Stock-No.   |                                                                       |   |     |
| 244-4       | 255                                                                   | 1 | 560 |

### 244-C CLIC-Hose Clamp Plier



|             |                                                       |   |     |
|-------------|-------------------------------------------------------|---|-----|
| Application | for CLIC spring band hose clamps                      |   |     |
| Type        | cranked, chrome plated, polished, cushion grip handle |   |     |
| Material    | special steel                                         |   |     |
| Stock-No.   |                                                       |   |     |
| 244-C       | 175                                                   | 1 | 160 |

### 314S3 V-Belt Pulley Puller Set

**New!**



|             |                                                                                                                                                                                                               |    |   |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|
| Application | For all Passenger Cars with short beam (138 mm) for V-Belt Pulleys with Threadhole, with long beam (227 mm) for V-Belt Pulleys without Threadhole, with Groove hooks suits into the grooves of V-Belt Pulley. |    |   |
| Type        | Two standard legs, two extensions, two groove hooks, two spindle extension, in black plastic suit case.                                                                                                       |    |   |
| Material    | high grade tool Steel                                                                                                                                                                                         |    |   |
| Stock-No.   |                                                                                                                                                                                                               |    |   |
| 314S3       | 195                                                                                                                                                                                                           | 88 | 1 |

### 290 Scraper



|             |                                                    |     |   |
|-------------|----------------------------------------------------|-----|---|
| Application | for removal of waste on washers and gaskets        |     |   |
| Type        | blade ground, with impact resistant plastic handle |     |   |
| Material    | high grade tool steel                              |     |   |
| Stock-No.   |                                                    |     |   |
| 290         | straight                                           | 155 | 6 |
| 290-80      | straight                                           | 80  | 6 |
| 290-80G     | cranked                                            | 60  | 6 |

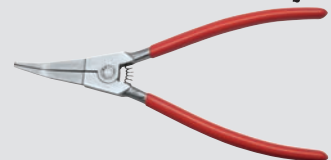
### 770-LTD Socket



|             |                                                   |    |   |
|-------------|---------------------------------------------------|----|---|
| Application | for removal of diesel injectors                   |    |   |
| Type        | bi-hexagon, extra deep, size 27 mm, chrome plated |    |   |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208         |    |   |
| Stock-No.   |                                                   |    |   |
| 770-LTD     | 27                                                | 80 | 1 |

### 414 Retaining Ring Plier

**New!**



|             |                                                    |   |     |
|-------------|----------------------------------------------------|---|-----|
| Application | for retaining rings on drive shafts and gear boxes |   |     |
| Type        | chrome plated, Tip angle 30°                       |   |     |
| Material    | Chrome-Vanadium, Code-No. 1.2208                   |   |     |
| Stock-No.   |                                                    |   |     |
| 414         | 200                                                | 1 | 200 |



## 776L-1 Socket for Diesel Injection Nozzles

1/2"



|              |                                                                                                    |  |  |  |
|--------------|----------------------------------------------------------------------------------------------------|--|--|--|
| Application  | for injection nozzles on diesel engines, specially for MB C- and E-class, Mot.-No. 602-606 and 611 |  |  |  |
| Type         | hexagon, size 22 mm, extra deep and slim, specially machined to accommodate small return pipes     |  |  |  |
| Compare with | MB 606 589 00 09 00                                                                                |  |  |  |
| Material     | Chrome-Vanadium 58 CrV 4, Code No. 1.2242                                                          |  |  |  |
| Stock-No.    | Drive                                                                                              |  |  |  |

|         |      |    |     |   |     |
|---------|------|----|-----|---|-----|
| 776L- 1 | 1/2" | 22 | 110 | 1 | 140 |
|---------|------|----|-----|---|-----|

## 776L-3 Socket for Diesel Injection Nozzles

1/2"



|             |                                                                                                           |  |  |  |
|-------------|-----------------------------------------------------------------------------------------------------------|--|--|--|
| Application | for injection nozzles on diesel engines, specially for Citroën and Peugeot XUD engines with LUCAS-nozzles |  |  |  |
| Type        | hexagon, size 27 mm, extra deep                                                                           |  |  |  |
| Material    | Chrome-Molybdenum 42 CrMo 4, Code No. 1.7225                                                              |  |  |  |
| Stock-No.   | Drive                                                                                                     |  |  |  |

|         |      |    |    |   |     |
|---------|------|----|----|---|-----|
| 776L- 3 | 1/2" | 27 | 80 | 1 | 375 |
|---------|------|----|----|---|-----|

## 775L-1 Socket for Diesel Injection Nozzles

1/2"



|             |                                                                                           |  |  |  |
|-------------|-------------------------------------------------------------------------------------------|--|--|--|
| Application | for injection nozzles on diesel engines, specially for Opel Corsa 1,5 l and VW Polo 1,3 l |  |  |  |
| Type        | bi-hexagon, size 22 mm                                                                    |  |  |  |
| Material    | Chrome-Vanadium 58 CrV 4, Code No. 1.2242                                                 |  |  |  |
| Stock-No.   | Drive                                                                                     |  |  |  |

|         |      |    |    |   |     |
|---------|------|----|----|---|-----|
| 775L- 1 | 1/2" | 22 | 75 | 1 | 155 |
|---------|------|----|----|---|-----|

## 775L-2 Socket for Diesel Injection Nozzles

1/2"



|             |                                                                                                                                                  |  |  |  |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Application | for injection nozzles on diesel engines, specially for VAG, BMW (incl. Turbo), Mercedes (incl. Actros), Opel, Ford, Nissan, Mitsubishi, Daihatsu |  |  |  |
| Type        | bi-hexagon, size 27 mm, specially machined to accommodate small return pipes                                                                     |  |  |  |
| Material    | Chrome-Vanadium 58 CrV 4, Code No. 1.2242                                                                                                        |  |  |  |
| Stock-No.   | Drive                                                                                                                                            |  |  |  |

|         |      |    |    |   |     |
|---------|------|----|----|---|-----|
| 775L- 2 | 1/2" | 27 | 55 | 1 | 205 |
|---------|------|----|----|---|-----|

## 776L-2 Socket for Diesel Injection Nozzles

1/2"



|             |                                                                                                           |  |  |  |
|-------------|-----------------------------------------------------------------------------------------------------------|--|--|--|
| Application | for injection nozzles on diesel engines, specially for Citroën and Peugeot XUD engines with BOSCH-nozzles |  |  |  |
| Type        | hexagon, size 22 mm, extra deep                                                                           |  |  |  |
| Material    | Chrome-Molybdenum 42 CrMo 4, Code No. 1.7225                                                              |  |  |  |
| Stock-No.   | Drive                                                                                                     |  |  |  |

|         |      |    |     |   |     |
|---------|------|----|-----|---|-----|
| 776L- 2 | 1/2" | 22 | 150 | 1 | 485 |
|---------|------|----|-----|---|-----|

## 776L7 Cylinder Head Wrench

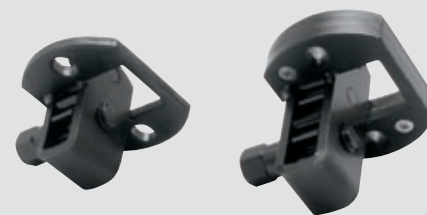
1/2"



|             |                                                     |  |  |  |
|-------------|-----------------------------------------------------|--|--|--|
| Application | for MAN engines D 25 and D28, MAN No. 80.99603.0255 |  |  |  |
| Type        | with 1/2" square drive and inside TORX E 20         |  |  |  |
| Stock-No.   |                                                     |  |  |  |

|       |   |     |  |  |
|-------|---|-----|--|--|
| 776L7 | 1 | 300 |  |  |
|-------|---|-----|--|--|

## 1130/1131 Engine Rev Up Device



|             |                                                                                                                                                            |   |     |  |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|--|
| Application | for Mercedes and MAN trucks                                                                                                                                |   |     |  |
| Stock-No.   | Description                                                                                                                                                |   |     |  |
| 1130        | With 2 spur gears for Mercedes series 400 for Actros MB no. 407 589 00 63 00 for all MAN 12-cylinder engines                                               | 1 | 500 |  |
| 1131        | With 3 spur gears for Mercedes series 900 for Actros and Atego MB no. 904 589 04 63 00 for all MAN engines except 12-cylinder engine MAN no. 80-99626-6006 | 1 | 800 |  |

## 1150 Belt Pulley Counter Wrench



|             |                                                                                       |  |  |  |
|-------------|---------------------------------------------------------------------------------------|--|--|--|
| Application | to counter belt pulleys for flat belts while loosening or tightening, for Audi and VW |  |  |  |
| Type        | deep cranked, with 1/2" female square at shaft end                                    |  |  |  |
| Stock-No.   |                                                                                       |  |  |  |

|       |   |     |  |  |
|-------|---|-----|--|--|
| 1150G | 1 | 450 |  |  |
|-------|---|-----|--|--|

## 1150FG Belt Pulley Counter Wrench



|             |                                                                                                                                                               |  |  |  |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Application | to counter belt pulleys for flat belts while loosening or tightening. VW no. 2092-058 145-255E as well ZF servo pump No. 7691 995 235 1/S/A/P 4/29/98 110 bar |  |  |  |
| Type        | flat cranked, with 1/2" female square at shaft end                                                                                                            |  |  |  |
| Stock-No.   |                                                                                                                                                               |  |  |  |

|        |   |     |  |  |
|--------|---|-----|--|--|
| 1150FG | 1 | 450 |  |  |
|--------|---|-----|--|--|

Body Repair Tools

1601-1608 Bumping Hammers



1601 ground 1602 — milled 1607 1608

| Type      | forged, blue lacquered, faces ground and milled         |          |     |    |     |       |
|-----------|---------------------------------------------------------|----------|-----|----|-----|-------|
| Material  | high grade tool steel C 45, Code no. 1.0503, ash handle |          |     |    |     |       |
| Stock-No. |                                                         | Ø mm     | mm  | mm | mm  | g     |
| 1601      | Planishing hammer                                       | 27       | 105 | 27 | 300 | 1 450 |
| 1602      | Bumping hammer                                          | 32       | 105 | 25 | 300 | 1 300 |
| 1603      |                                                         | 32milled | 105 | 25 | 300 | 1 300 |
| 1604      |                                                         | 40       | 95  | 35 | 310 | 1 380 |
| 1605      |                                                         | 40milled | 95  | 35 | 310 | 1 380 |
| 1606      | Bumping hammer                                          | 46       | 115 | 40 | 335 | 1 500 |
| 1607      |                                                         | 46milled | 115 | 40 | 335 | 1 500 |
| 1608      | Dinging hammer                                          | 32       | 165 | 25 | 320 | 1 420 |

1609/1610/1611/1616 Bumping Hammers



1609 1610 1611 1616

| Type      | forged, blue lacquered, faces ground                   |      |     |       |     |       |
|-----------|--------------------------------------------------------|------|-----|-------|-----|-------|
| Material  | high grade tool steel C45, Code No. 1.0503, ash handle |      |     |       |     |       |
| Stock-No. |                                                        | Ø mm | mm  | Ø mm  | mm  | g     |
| 1609      | Dinging hammer                                         | 40   | 155 | 18    | 300 | 1 460 |
| 1610      | Pick and finishing hammer                              | 40   | 155 | 10    | 300 | 1 410 |
| 1611      | Pick Hammer, special shape                             | 40   | 165 | point | 300 | 1 440 |
| 1616      | Embossing hammer                                       | 40   | 165 | point | 400 | 1 400 |

1613/1614/1619/1620 Bumping and Rubber Hammers



1613 1614 1619 1620

| Type      | forged, blue lacquered, faces ground                                |      |     |      |     |        |
|-----------|---------------------------------------------------------------------|------|-----|------|-----|--------|
| Material  | high grade tool steel C45, Code No. 1.0503, ash handle              |      |     |      |     |        |
| Stock-No. |                                                                     | Ø mm | mm  | Ø mm | mm  | g      |
| 1613      | Fender bumping hammer                                               | 28   | 160 | —    | 330 | 1 680  |
| 1614      | Bumping hammer                                                      | 40   | 155 | 30   | 300 | 1 430  |
| 1619      | Combination mallet and bumping hammer with replaceable rubber faces | 55   | 140 | 33   | 395 | 1 1000 |
| 1619E     | Spare rubber face for Stock-No. 1619                                |      |     |      |     | 1 140  |
| 1620- 65  | Rubber mallet according to DIN 5128, form A                         | 65   | 115 | 65   | 340 | 2 520  |
| 1620- 75  |                                                                     | 75   | 130 | 75   | 380 | 2 750  |
| 1620- 90  |                                                                     | 90   | 140 | 90   | 380 | 2 1130 |

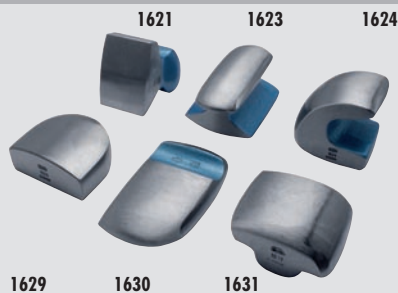
1612/1615/1618 Bumping Hammers



1612 1615 1618

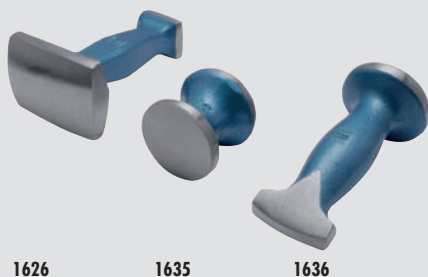
| Type      | forged, blue lacquered, faces ground                   |      |     |         |     |       |
|-----------|--------------------------------------------------------|------|-----|---------|-----|-------|
| Material  | high grade tool steel C45, Code No. 1.0503, ash handle |      |     |         |     |       |
| Stock-No. |                                                        | Ø mm | mm  | mm      | mm  | g     |
| 1612      | Pick hammer                                            | 40   | 160 | 20 × 3  | 300 | 1 450 |
| 1615      | Double bumping hammer                                  | 33   | 160 | 36 × 10 | 290 | 1 500 |
| 1618      | Bumping hammer                                         | 30   | 115 | 25 × 5  | 290 | 1 300 |

## 1621/1623/ 1624/1629/ 1630/1631



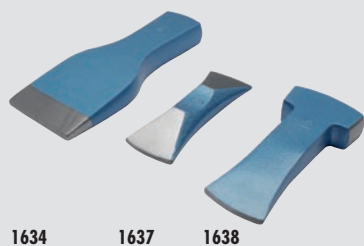
| Type      | forged, blue lacquered, faces ground       |                         |   |       |
|-----------|--------------------------------------------|-------------------------|---|-------|
| Material  | high grade tool steel C45, Code No. 1.0503 |                         |   |       |
| Stock-No. |                                            | Measurements<br>mm      |   | <br>g |
| 1621      | General purpose dolly                      | 75 × 63 × 55            | 1 | 1200  |
| 1623      | Anvil dolly                                | 62 × 80 × 70 × 100 × 40 | 1 | 1400  |
| 1624      | Fender dolly                               | 68 × 54 × 68            | 1 | 1200  |
| 1629      | Heel dolly                                 | 80 × 60 × 35            | 1 | 1050  |
| 1630      | Toe dolly                                  | 105 × 66                | 1 | 950   |
| 1631      | Anvil dolly                                | 74 × 61 × 49            | 1 | 1100  |

## 1626/1635/ 1636



| Type      | forged, blue lacquered, faces ground       |                         |   |       |
|-----------|--------------------------------------------|-------------------------|---|-------|
| Material  | high grade tool steel C45, Code No. 1.0503 |                         |   |       |
| Stock-No. |                                            | Measurements<br>mm      |   | <br>g |
| 1626      | Dome dolly                                 | 125 × 85 × 55 × 43 × 33 | 1 | 1150  |
| 1635      | Diabolo dolly                              | 60 × Ø 56 × Ø 56        | 1 | 750   |
| 1636      | Round anvil                                | 130 × 48 × Ø 58         | 1 | 930   |

## 1634/1637/ 1638



| Type      | forged, blue lacquered, faces ground       |                    |   |       |
|-----------|--------------------------------------------|--------------------|---|-------|
| Material  | high grade tool steel C45, Code No. 1.0503 |                    |   |       |
| Stock-No. |                                            | Measurements<br>mm |   | <br>g |
| 1634      | Wedge dolly                                | 192 × 45 × 77      | 1 | 1600  |
| 1637      | Wedge dolly                                | 118 × 42           | 1 | 450   |
| 1638      | Wedge dolly                                | 135 × 48 × 46 × 26 | 1 | 850   |

## 1622/1625/ 1627/1628/ 1639



| Type      | forged, blue lacquered, faces ground or milled |                    |   |       |
|-----------|------------------------------------------------|--------------------|---|-------|
| Material  | high grade tool steel C45, Code No. 1.0503     |                    |   |       |
| Stock-No. |                                                | Measurements<br>mm |   | <br>g |
| 1622      | Anvil dolly                                    | 130 × 55           | 1 | 950   |
| 1625      | Fender dolly                                   | 120 × 56 × 21      | 1 | 760   |
| 1627      | Curved dolly                                   | 145 × 52           | 1 | 550   |
| 1628      | Shrinking dolly                                | 112 × 64           | 1 | 900   |
| 1639      | Grid dolly                                     | 125 × 55 × 25      | 1 | 1100  |

## 1645-1647



| Type      | forged, blue lacquered, faces ground         |                    |   |       |
|-----------|----------------------------------------------|--------------------|---|-------|
| Material  | high grade tool steel, C 45, Code No. 1.0503 |                    |   |       |
| Stock-No. |                                              | Measurements<br>mm |   | <br>g |
| 1645      | Body spoon, light                            | 270 × 30 × 18      | 2 | 550   |
| 1646      | Body spoon, medium                           | 300 × 50           | 2 | 850   |
| 1647      | Body spoon, heavy                            | 390 × 25 × 58      | 2 | 950   |

## 1648/1649/ 1651/1652



| Type      | forged, blue lacquered, faces ground or milled |                    |   |       |
|-----------|------------------------------------------------|--------------------|---|-------|
| Material  | high grade tool steel C45, Code No. 1.0503     |                    |   |       |
| Stock-No. |                                                | Measurements<br>mm |   | <br>g |
| 1648      | Pry/bumping spoon, light                       | 440 × 58 × 150     | 1 | 1900  |
| 1649      | Pry/bumping spoon, heavy                       | 500 × 58           | 1 | 2200  |
| 1651      | Bending iron, leather insert                   | 400 × 25 × 58      | 2 | 1000  |
| 1652      | chequered tightening spoon                     | 315 × 40           | 2 | 500   |

## 1640 Adjustable File Holder



|             |                                              |   |     |
|-------------|----------------------------------------------|---|-----|
| Application | for file blades Stock-No. 1641-2, 3, 4, 6, 7 |   |     |
| Type        | without file                                 |   |     |
| Material    | Aluminium                                    |   |     |
| Stock-No.   | mm                                           | g |     |
| 1640        | 360                                          | 1 | 500 |

## 1640H File holder



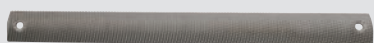
|             |                                              |   |     |
|-------------|----------------------------------------------|---|-----|
| Application | for file blades Stock-No. 1641-2, 3, 4, 6, 7 |   |     |
| Type        | without file                                 |   |     |
| Material    | wood                                         |   |     |
| Stock-No.   | mm                                           | g |     |
| 1640H       | 535                                          | 1 | 255 |

## 1641 File blades



| Application | for file holders<br>Stock-No. 1640 and 1640H |                                                                                        |                                                                                     |                                                                                       |  |
|-------------|----------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| Stock-No.   |                                              |  mm |  |  g |  |
| 1641-2      | coarse, diag. milled                         | 350                                                                                    | 6                                                                                   | 295                                                                                   |  |
| 1641-3      | medium, diag. milled                         | 350                                                                                    | 6                                                                                   | 285                                                                                   |  |
| 1641-4      | fine, diag. milled                           | 350                                                                                    | 6                                                                                   | 270                                                                                   |  |
| 1641-6      | coarse, radial milled                        | 350                                                                                    | 6                                                                                   | 235                                                                                   |  |
| 1641-7      | medium, radial milled                        | 350                                                                                    | 6                                                                                   | 255                                                                                   |  |

## 1641-8 File blade



|           |                                           |   |     |
|-----------|-------------------------------------------|---|-----|
| Type      | coarse pattern, radial milled, half round |   |     |
| Stock-No. | mm                                        | g |     |
| 1641-8    | 350                                       | 6 | 225 |

## 1650S6 Panel Beating Set



|           |                    |    |     |
|-----------|--------------------|----|-----|
| Type      | in solid metal box |    |     |
| Stock-No. | Contents           | kg |     |
| 1650S6    | 1 piece of each    | 1  | 7,2 |
| 1601      | Planishing hammer  |    |     |
| 1626      | Dome dolly         |    |     |
| 1629      | Heel dolly         |    |     |
| 1635      | Diabolo dolly      |    |     |
| 1636      | Round anvil        |    |     |
| 1637      | Wedge dolly        |    |     |

## 1650S12 Panel Beating Set



|           |                                   |    |    |
|-----------|-----------------------------------|----|----|
| Type      | in solid metal box                |    |    |
| Stock-No. | Contents                          | kg |    |
| 1650S12   | 1 piece of each                   | 1  | 12 |
| 1601      | Planishing hammer                 |    |    |
| 1613      | Fender bumping hammer             |    |    |
| 1615      | Double bumping hammer             |    |    |
| 1626      | Dome dolly                        |    |    |
| 1629      | Heel dolly                        |    |    |
| 1635      | Diabolo dolly                     |    |    |
| 1636      | Round anvil                       |    |    |
| 1637      | Wedge dolly                       |    |    |
| 1640      | Adj. file holder, without file    |    |    |
| 1641-7    | File blade, medium, radial milled |    |    |
| 1651      | Bending iron, leather insert      |    |    |
| 1660-35   | Soft faced hammer, 35 mm          |    |    |

## 1642 Fender Bending Plier



|           |                       |   |     |
|-----------|-----------------------|---|-----|
| Material  | high grade tool steel |   |     |
| Stock-No. | mm                    | g |     |
| 1642      | 280                   | 1 | 540 |

## 1643 Bordering Plier



|           |                       |   |     |
|-----------|-----------------------|---|-----|
| Material  | high grade tool steel |   |     |
| Stock-No. | mm                    | g |     |
| 1643      | 280                   | 1 | 555 |

## 1644 Bending Plier



|           |                 |   |     |
|-----------|-----------------|---|-----|
| Material  | Vergütungsstahl |   |     |
| Stock-No. | mm              | g |     |
| 1644      | 280             | 1 | 595 |

## 1644-10 Flanging Plier



|           |                       |   |     |
|-----------|-----------------------|---|-----|
| Type      | bent                  |   |     |
| Material  | high grade tool steel |   |     |
| Stock-No. | mm                    | g |     |
| 1644-10   | 255                   | 1 | 450 |

## 239 Door Spring Clip Remover



|             |                                     |   |    |  |
|-------------|-------------------------------------|---|----|--|
| Application | to remove door and window springs   |   |    |  |
| Type        | nickel plated, cushion grip handles |   |    |  |
| Material    | jaws of high grade tool steel C 75  |   |    |  |
| Stock-No.   |                                     |   |    |  |
| 239         | 210                                 | 1 | 98 |  |

## 318 Wedge



|             |                                                                      |   |     |  |
|-------------|----------------------------------------------------------------------|---|-----|--|
| Application | for stripping mouldings, covers, graphics, etc. without any damaging |   |     |  |
| Type        | black                                                                |   |     |  |
| Material    | special plastic POM                                                  |   |     |  |
| Stock-No.   |                                                                      |   |     |  |
| 318         | 205                                                                  | 1 | 100 |  |

## 521 Wing Grip Pliers



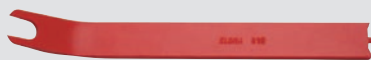
|             |                                                                |     |   |      |
|-------------|----------------------------------------------------------------|-----|---|------|
| Application | to hold quarter panels and service panels on wheel wells       |     |   |      |
| Type        | nickel plated                                                  |     |   |      |
| Material    | jaws of Chrome-Vanadium 31CrV 3, Code No. 1.2208, joint forged |     |   |      |
| Stock-No.   | Capacity<br>mm                                                 | mm  |   |      |
| 521- 290    | 70                                                             | 290 | 1 | 920  |
| 521- 350    | 120                                                            | 350 | 1 | 1150 |
| 521- 440    | 200                                                            | 440 | 1 | 1390 |

## 253 Door Trim Panel Remover



|             |                                                                               |   |     |  |
|-------------|-------------------------------------------------------------------------------|---|-----|--|
| Application | to loosen plugs on door trim panels, mouldings, and bumper rubbers            |   |     |  |
| Type        | joint and jaws hardened, gun metal finish, handles embossed and nickel plated |   |     |  |
| Material    | special steel                                                                 |   |     |  |
| Stock-No.   |                                                                               |   |     |  |
| 253         | 230                                                                           | 1 | 182 |  |

## 319 Wedge



|             |                                                                                 |   |    |  |
|-------------|---------------------------------------------------------------------------------|---|----|--|
| Application | for removing clips on mouldings and trims, with pin to push dowel pins in clips |   |    |  |
| Type        | red                                                                             |   |    |  |
| Material    | special plastic POM                                                             |   |    |  |
| Stock-No.   |                                                                                 |   |    |  |
| 319         | 215                                                                             | 1 | 50 |  |

## 413 Decorative Strip Plier



**New!**

|             |                                                        |   |     |  |
|-------------|--------------------------------------------------------|---|-----|--|
| Application | to fix holder of decorative strips and bumpers         |   |     |  |
| Type        | with side cutter, TOP-KRAFT 2 K handles, chrome plated |   |     |  |
| Material    | C 45, Code-No. 1.0503                                  |   |     |  |
| Stock-No.   |                                                        |   |     |  |
| 413         | 200                                                    | 1 | 220 |  |

## 522 Plugweld Grip Plier



|             |                                                                                                                                           |     |   |     |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Application | for spot welding even of thinwalled sheet metal copper jaw prevents burn through and sticking of welding material for general maintenance |     |   |     |
| Type        | nickel plated                                                                                                                             |     |   |     |
| Material    | bottom jaw Chrome-Vanadium 31 CrV 3, Code No. 1.2208, top jaw made from copper                                                            |     |   |     |
| Stock-No.   | Capacity<br>mm                                                                                                                            |     |   |     |
| 522- 235    | 0 – 40                                                                                                                                    | 235 | 1 | 500 |

## 280 Suction Lifter



|             |                                                                                                                           |     |   |     |
|-------------|---------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Application | for lifting and carrying materials with plain, smooth, and gastight surfaces                                              |     |   |     |
| Type        | acid- and oil-resistant, with suction mechanism, 280-40: one suction cup for one-hand operation, 280-80: two suction cups |     |   |     |
| Material    | housing of plastic, suction cup of rubber                                                                                 |     |   |     |
| Stock-No.   | Capacity<br>kg                                                                                                            | mm  |   |     |
| 280- 40     | 40                                                                                                                        | 120 | 1 | 320 |
| 280- 80     | 80                                                                                                                        | 325 | 1 | 660 |

## 280G Suction Lifter with Flexible Heads



|             |                                                                                                  |     |   |     |
|-------------|--------------------------------------------------------------------------------------------------|-----|---|-----|
| Application | especially suited for car glass panes and domed surfaces, else like vacuum grip Stock-No. 280-80 |     |   |     |
| Type        | acid- and oil-resistant, with suction mechanism and removable joint shaft                        |     |   |     |
| Material    | housing of plastic, suction cup of rubber                                                        |     |   |     |
| Stock-No.   | Capacity<br>kg                                                                                   | mm  |   |     |
| 280G        | 80                                                                                               | 390 | 1 | 750 |



## Wheel, Brake and Chassis Service

### 271/271Z Parallel Pin Punch



Application for use on disc brakes

Type tip ground, octagon shank, 271Z: with guide pin

| Stock-No. | mm  | Pin Ø mm | Tip Ø mm | Front section mm | Octagon mm |    | g  |
|-----------|-----|----------|----------|------------------|------------|----|----|
| 271Z      | 175 | 3        | 5,8      | 90               | 10         | 10 | 65 |
| 271- 4L   | 175 | —        | 4,0      | 80               | 10         | 10 | 62 |
| 271- 6L   | 175 | —        | 6,0      | 80               | 10         | 10 | 70 |

### 479 Brake Cord Plier



Application to install and de-install hand brake cords

Type jaws gun metal finish, handles nickel plated

Material pressed steel frame

| Stock-No. | mm  |   | g   |
|-----------|-----|---|-----|
| 479       | 215 | 1 | 175 |

### 292 File for Brake Service



Application for use on disc brakes

Type with plastic handle

| Stock-No. | mm  |   | g  |
|-----------|-----|---|----|
| 292       | 230 | 1 | 84 |

### 302 Piston Reset Tool



Application to reset pistons in disc brakes, suitable for all piston sizes

Type nickel plated

Material St 37 K, pressure plates C 45, Code No. 1.0503

| Stock-No. | mm  |   | g    |
|-----------|-----|---|------|
| 302       | 205 | 1 | 1530 |

### 480 Brake Spring Plier



Application for brake shoe springs

Type nickel plated

Material Chrome-Vanadium 59 CrV 4, Code No. 1.2242

| Stock-No. | mm  |   | g    |
|-----------|-----|---|------|
| 480- 215  | 215 | 1 | 240  |
| 480- 330  | 330 | 1 | 385  |
| 480- 500  | 500 | 1 | 1048 |

### 293BS Brush for Brake Service



Application for use on disc brakes

Type slim type, plastic handle

Material steel wire fill

| Stock-No. | mm  |   | g  |
|-----------|-----|---|----|
| 293BS     | 265 | 6 | 66 |

### 1523 Precision Vernier Caliper for Brake Discs



Application to check thickness of brake discs, for cars and small trucks

Type Range 0 – 60 mm, reading 0.1 mm, satin chrome finish, vernier scale 1/10 mm, with fine adjustment, jaws 85 mm, hardened

Material stainless steel

Standard according to DIN 862

| Stock-No. | Range mm | Jaws mm |   | g   |
|-----------|----------|---------|---|-----|
| 1523      | 60       | 85      | 1 | 285 |

### 480-34 Brake Spring Plier



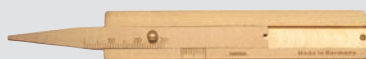
Application for brake shoe springs, with movable claw for glued on linings

Type chrome plated, cushion grip handles

Material Chrome-Vanadium 59 CrV 4, Code No. 1.2242

| Stock-No. | mm  |   | g   |
|-----------|-----|---|-----|
| 480- 340  | 340 | 1 | 470 |

## 198 Tyre Tread Gauge



|             |                                                            |   |    |
|-------------|------------------------------------------------------------|---|----|
| Application | capacity: 0-30 mm, vernier scale: 1/10 mm, stop face 23 mm |   |    |
| Material    | brass                                                      |   |    |
| Stock-No.   |                                                            |   |    |
| 198         | 100                                                        | 1 | 54 |

## 167 Tyre Pressure Gauge



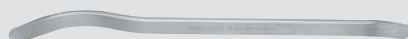
|             |                                            |   |     |
|-------------|--------------------------------------------|---|-----|
| Application | for car and truck tyres, capacity 0-10 bar |   |     |
| Stock-No.   |                                            |   |     |
| 167         | 270                                        | 1 | 220 |

## 243 Wheel Weight Plier



|             |                                                                       |   |     |
|-------------|-----------------------------------------------------------------------|---|-----|
| Application | for loosening, fixing and cutting wheel weights, to adjust set spring |   |     |
| Type        | MB: chrome plated, BI: chrome plated, cushion grip handles            |   |     |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                             |   |     |
| Stock-No.   |                                                                       |   |     |
| 243MB       | 240                                                                   | 1 | 315 |
| 243BI       | 240                                                                   | 1 | 325 |

## 163 Tyre Lever



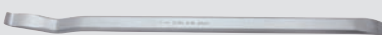
|             |                                           |   |     |
|-------------|-------------------------------------------|---|-----|
| Application | for use on tubeless tyres                 |   |     |
| Type        | chrome plated                             |   |     |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |   |     |
| Stock-No.   |                                           |   |     |
| 163         | 450                                       | 6 | 610 |

## 165 Tyre Lever



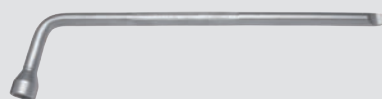
|             |                                               |   |     |
|-------------|-----------------------------------------------|---|-----|
| Application | for cars and small trucks                     |   |     |
| Type        | profiled shank, straight pattern, drop forged |   |     |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208     |   |     |
| Stock-No.   |                                               |   |     |
| 165- 300    | 300                                           | 6 | 240 |
| 165- 400    | 400                                           | 6 | 375 |
| 165- 500    | 500                                           | 6 | 610 |
| 165- 600    | 600                                           | 6 | 850 |

## 186 Tyre Lever



|             |                                           |   |      |
|-------------|-------------------------------------------|---|------|
| Application | for use on trucks                         |   |      |
| Type        | heavy duty pattern                        |   |      |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |   |      |
| Stock-No.   |                                           |   |      |
| 186         | 600                                       | 3 | 1400 |

## 185 Wheel Nut Wrench



|             |                                           |   |     |
|-------------|-------------------------------------------|---|-----|
| Application | bent, with wheel cap remover              |   |     |
| Type        | chrome plated                             |   |     |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |   |     |
| Stock-No.   |                                           |   |     |
| 185- 17     | 375                                       | 3 | 620 |
| 185- 19     | 400                                       | 3 | 750 |
| Stock-No.   |                                           |   |     |
| 185- 3/4    | 400                                       | 3 | 750 |

## 170 Wheel Nut Wrench



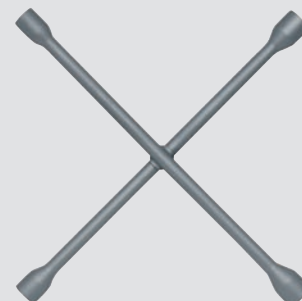
|             |                                                                                         |     |      |
|-------------|-----------------------------------------------------------------------------------------|-----|------|
| Application | for trucks and tractors, for use with tommy bar Stock-No. 171                           |     |      |
| Type        | nickel plated, size 32 mm and 1.1/4 AF forged with 13/16" female square for wheel studs |     |      |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                               |     |      |
| Stock-No.   |                                                                                         |     |      |
| 170- 24     | 24 x 27                                                                                 | 400 | 1310 |
| 170- 27     | 27 x 32                                                                                 | 400 | 1460 |
| 170- 28     | 28 x 33                                                                                 | 400 | 1460 |
| 170- 30     | 30 x 32                                                                                 | 400 | 1460 |
| 170- 32     | 32 x 38                                                                                 | 400 | 1520 |
| Stock-No.   |                                                                                         |     |      |
| 170- 1.1/16 | 1.1/16 x 1.1/4                                                                          | 400 | 1460 |
| 170- 1.1/4  | 1.1/4 x 1.1/2                                                                           | 400 | 1520 |

## 171 Tommy Bar



|             |                                              |     |      |
|-------------|----------------------------------------------|-----|------|
| Application | for use with wheel nut wrench Stock-No. 170. |     |      |
| Type        | nickel plated                                |     |      |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208    |     |      |
| Stock-No.   |                                              |     |      |
| 171         | 18                                           | 600 | 1175 |

## 195WS Four Way Wheel Nut Wrench



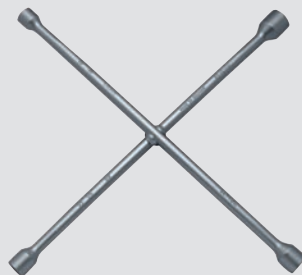
|             |                                 |     |      |
|-------------|---------------------------------|-----|------|
| Application | for cars                        |     |      |
| Type        | silver lacquered                |     |      |
| Material    | high grade tool steel           |     |      |
| Stock-No.   |                                 |     |      |
| 195WS- 17   | 17, 19, 13/16", 22              | 400 | 1280 |
| Stock-No.   |                                 |     |      |
| 195WS- 1/2  | 17, 19, 1/2" Square pattern, 22 | 400 | 1280 |

## 195CV Four Way Wheel Nut Wrench



|             |                                                                                                                                                                     |                                                                                   |                                                                                   |                                                                                   |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Application | for cars                                                                                                                                                            |                                                                                   |                                                                                   |                                                                                   |
| Type        | chrome plated                                                                                                                                                       |                                                                                   |                                                                                   |                                                                                   |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                                                                           |                                                                                   |                                                                                   |                                                                                   |
| Stock-No.   |   |  |  |  |
| 195CV- 17   | 17, 19, 11/16", 22                                                                                                                                                  | 400                                                                               | 1                                                                                 | 1300                                                                              |
| Stock-No.   |                                                                                    |  |  |  |
| 195CV- 5/8  | 5/8, 11/16, 3/4, 7/8                                                                                                                                                | 400                                                                               | 1                                                                                 | 1300                                                                              |

## 195CV-27 Four Way Wheel Nut Wrench



|               |                                                                                            |                                                                                   |                                                                                   |                                                                                   |
|---------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Application   | for trucks and tractors                                                                    |                                                                                   |                                                                                   |                                                                                   |
| Type          | silver lacquered, size 32 mm and 1.1/4 AF forged with 13/16" female square for wheel studs |                                                                                   |                                                                                   |                                                                                   |
| Material      | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                  |                                                                                   |                                                                                   |                                                                                   |
| Stock-No.     |           |  |  |  |
| 195CV- 27     | 19, 22, 24, 27                                                                             | 600                                                                               | 1                                                                                 | 3200                                                                              |
| 195CV- 32     | 24, 27, 30, 32                                                                             | 750                                                                               | 1                                                                                 | 4950                                                                              |
| 195CV- 38     | 24, 27, 32, 38                                                                             | 750                                                                               | 1                                                                                 | 4950                                                                              |
| 195CV- 3/4    | 24, 27, 32, 3/4" Square pattern                                                            | 750                                                                               | 1                                                                                 | 4950                                                                              |
| Stock-No.     |           |  |  |  |
| 195CV- 1.1/16 | 3/4, 7/8, 15/16, 1.1/16                                                                    | 600                                                                               | 1                                                                                 | 3200                                                                              |
| 195CV- 1.1/2  | 15/16, 1.1/16, 1.1/4, 1.1/2                                                                | 750                                                                               | 1                                                                                 | 4950                                                                              |

## 196 Four Way Wheel Nut Wrench



|             |                                                                                                                           |                                                                                     |                                                                                     |                                                                                     |
|-------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Application | for trucks and tractors, also suitable for loosening and tightening of 13/16" male square wheel studs                     |                                                                                     |                                                                                     |                                                                                     |
| Type        | chrome plated, size 32 mm and 1.1/4 AF forged with 13/16" female square for wheel studs heads and center part drop forged |                                                                                     |                                                                                     |                                                                                     |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                                 |                                                                                     |                                                                                     |                                                                                     |
| Stock-No.   |                                        |  |  |  |
| 196- 32     | 24, 27, 30 32                                                                                                             | 750                                                                                 | 1                                                                                   | 6200                                                                                |
| 196- 38     | 24, 27, 32, 38                                                                                                            | 750                                                                                 | 1                                                                                   | 6200                                                                                |
| 196- 3/4    | 24, 27, 32, 3/4" Square pattern                                                                                           | 750                                                                                 | 1                                                                                   | 6200                                                                                |

## 199 FIXPOINT Wheel Nut Wrench



1/2"

|             |                                                                                                               |     |                                                                                     |                                                                                     |
|-------------|---------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Application | with pre-set torque value specified by car or rim manufacturer, for use with hexagon sockets Stock-No. 771-LT |     |                                                                                     |                                                                                     |
| Type        | with impact resistant plastic handle                                                                          |     |                                                                                     |                                                                                     |
| Stock-No.   | Torque value Nm                                                                                               | mm  |  |  |
| 199- 50     | 50                                                                                                            | 380 | 1                                                                                   | 900                                                                                 |
| 199- 60     | 60                                                                                                            | 380 | 1                                                                                   | 900                                                                                 |
| 199- 70     | 70                                                                                                            | 380 | 1                                                                                   | 900                                                                                 |
| 199- 80     | 80                                                                                                            | 380 | 1                                                                                   | 900                                                                                 |
| 199- 90     | 90                                                                                                            | 380 | 1                                                                                   | 900                                                                                 |
| 199- 100    | 100                                                                                                           | 380 | 1                                                                                   | 900                                                                                 |
| 199- 110    | 110                                                                                                           | 380 | 1                                                                                   | 900                                                                                 |
| 199- 120    | 120                                                                                                           | 380 | 1                                                                                   | 900                                                                                 |
| 199- 130    | 130                                                                                                           | 380 | 1                                                                                   | 900                                                                                 |

## 771LT Extra Deep Hexagon Sockets

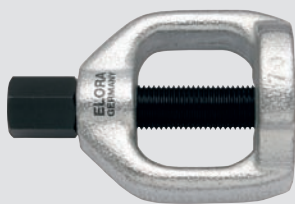


1/2"

|                |                                                                                    |                                                                                       |                                                                                       |  |
|----------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| Application    | for use with FIXPOINT wheel nut wrench Stock-No. 199                               |                                                                                       |                                                                                       |  |
| Type           | 1/2" square drive, chrome plated                                                   |                                                                                       |                                                                                       |  |
| Material       | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                          |                                                                                       |                                                                                       |  |
| Standard       | acc. to DIN 3120/ISO 1174, sizes acc. to DIN 3124, form L/ISO 2725, for manual use |                                                                                       |                                                                                       |  |
| Stock-No.      | mm                                                                                 |  |  |  |
| 771-LT 17      | 80                                                                                 | 6                                                                                     | 135                                                                                   |  |
| 771-LT 19      | 80                                                                                 | 6                                                                                     | 155                                                                                   |  |
| 771-LT 21      | 80                                                                                 | 6                                                                                     | 185                                                                                   |  |
| 771-LT 22      | 80                                                                                 | 6                                                                                     | 190                                                                                   |  |
| Stock-No.      | mm                                                                                 |  |  |  |
| 771- LTA 11/16 | 80                                                                                 | 6                                                                                     | 155                                                                                   |  |
| 771- LTA 13/16 | 80                                                                                 | 6                                                                                     | 185                                                                                   |  |
| Stock-No.      | mm                                                                                 |  |  |  |
| 771- LTW 7/16  | 80                                                                                 | 6                                                                                     | 185                                                                                   |  |

For other sizes and types see chapter sockets, socket parts, socket and spanner sets

## 168 Ball Joint Puller



| Application | for removal of ball pivots on tie-rods and stabilizers |              |              |   |       |
|-------------|--------------------------------------------------------|--------------|--------------|---|-------|
| Type        | silver-coloured                                        |              |              |   |       |
| Material    | high grade tool steel                                  |              |              |   |       |
| Stock-No.   | Jaw opening<br>mm                                      | Height<br>mm | Spread<br>mm |   | <br>g |
| 168- 18     | 18                                                     | 35           | 40           | 1 | 375   |
| 168- 23     | 23                                                     | 45           | 50           | 1 | 600   |
| 168- 29     | 29                                                     | 55           | 60           | 1 | 890   |
| 168- 40     | 40                                                     | 80           | 80           | 1 | 2200  |
| 168- 46     | 46                                                     | 100          | 90           | 1 | 2300  |

## 169 Ball Joint Puller



| Application | for removal of ball pivots on tie-rods and stabilizers   |              |   |       |  |
|-------------|----------------------------------------------------------|--------------|---|-------|--|
| Type        | 2-step lever setting, jaw opening 20 mm, silver-coloured |              |   |       |  |
| Material    | high grade tool steel                                    |              |   |       |  |
| Stock-No.   | Jaw opening<br>mm                                        | Spread<br>mm |   | <br>g |  |
| 169- 50     | 24                                                       | 12 – 50      | 1 | 1000  |  |
| 169- 80     | 24                                                       | 60 – 80      | 1 | 1400  |  |
| 169- 90     | 36                                                       | 90           | 1 | 3700  |  |
| 169- 115    | 45                                                       | 115          | 1 | 6400  |  |

## 175 Hub Puller



| Application | for vehicles with hubs up to 250 mm                 |   |       |  |  |
|-------------|-----------------------------------------------------|---|-------|--|--|
| Type        | nickel plated, pulling legs movable and replaceable |   |       |  |  |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208           |   |       |  |  |
| Stock-No.   |                                                     |   | <br>g |  |  |
| 175- 3      | 3 legs                                              | 1 | 5400  |  |  |
| 175- 5      | 5 legs                                              | 1 | 6800  |  |  |

## 323 Ball Joint Puller



**New!**

| Application | suitable for spaces, also for carriages made from aluminium, Stock-No. 323-23 for Audi, BMW, Citroen, Fiat, Ford, Daimler-Chrysler, Opel, Peugeot, Renault, Rover, Saab, Volvo, VW except Passat, Nissan, Datsun, Toyota and others. Stock-No. 323-28 for Audi A4-A6-A8, Opel Moreno, VW-Passat Stock-No. 323-34 for MB-Sprinter, VW-LT 1998 -, Ducato 1994- |              |   |       |  |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---|-------|--|
| Type        | silver                                                                                                                                                                                                                                                                                                                                                       |              |   |       |  |
| Material    | high grade tool Steel                                                                                                                                                                                                                                                                                                                                        |              |   |       |  |
| Stock-No.   | Fork opening<br>mm                                                                                                                                                                                                                                                                                                                                           | Spread<br>mm |   | <br>g |  |
| 323-23      | 23                                                                                                                                                                                                                                                                                                                                                           | 55           | 1 | 800   |  |
| 323-28      | 28                                                                                                                                                                                                                                                                                                                                                           | 55           | 1 | 800   |  |
| 323-34      | 34                                                                                                                                                                                                                                                                                                                                                           | 63           | 1 | 800   |  |

## 323S3 Ball Joint Puller Set



**New!**

| Application | see Stock-No. 323                |   |       |  |  |
|-------------|----------------------------------|---|-------|--|--|
| Type        | silver in black plastic suitcase |   |       |  |  |
| Material    | high grade tool Steel            |   |       |  |  |
| Stock-No.   | Contents                         |   | <br>g |  |  |
| 323-S3      | 323-23<br>323-28<br>323-34       | 1 | 2900  |  |  |

## 328 Universal Ball Joint Pullers



**New!**

| Application | for removing Ball Joints at tracking levers and stabilizers |              |   |       |  |
|-------------|-------------------------------------------------------------|--------------|---|-------|--|
| Type        | silver                                                      |              |   |       |  |
| Material    | high grade tool Steel                                       |              |   |       |  |
| Stock-No.   | Fork opening<br>mm                                          | Spread<br>mm |   | <br>g |  |
| 328         | 18-22                                                       | 50           | 1 | 900   |  |

## 329 Separators „Fork“-Type

**New!**



|             |                                                                                     |  |  |  |
|-------------|-------------------------------------------------------------------------------------|--|--|--|
| Application | for removing Ball Joints at tracking levers, shock absorbers and steering mechanism |  |  |  |
| Type        | Wedge-shaped solid Fork with strong rod handle                                      |  |  |  |
| Material    | high grade tool Steel                                                               |  |  |  |

| Stock-No. | Fork opening<br>mm | pin Ø<br>mm |   | <br>g |
|-----------|--------------------|-------------|---|-------|
| 329-18    | 18                 | 16-18       | 1 | 900   |
| 329-23    | 23                 | 19-23       | 1 | 900   |
| 329-31    | 31                 | 24-31       | 1 | 1100  |

## 775L-4 Socket for Shaft Nuts



|             |                                                                                                                                         |  |  |  |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Application | for shaft nuts on axes, gears, and differentials, specially for MB W 123, 126, 129, 201, but as well for propeller shafts VW, Opel etc. |  |  |  |
| Type        | bi-hexagon, size 30 mm, with plastic insert protecting the spline serration                                                             |  |  |  |
| Material    | Chrome-Vanadium 59 CrV 4, Code No. 1.2242                                                                                               |  |  |  |

| Stock-No. | Drive | mm | mm |   | <br>g |
|-----------|-------|----|----|---|-------|
| 775L- 4   | 1/2"  | 30 | 70 | 1 | 255   |

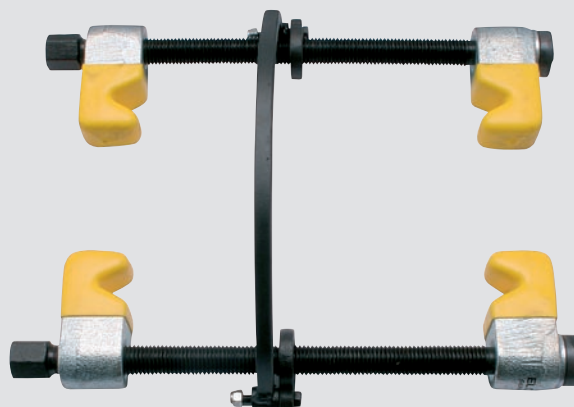
## 1140 Puller Lever



|             |                                                           |  |  |  |
|-------------|-----------------------------------------------------------|--|--|--|
| Application | for lifting of wheel caps                                 |  |  |  |
| Type        | with plastic handle, levers insulated for best protection |  |  |  |

| Stock-No. | mm  |   | <br>g |
|-----------|-----|---|-------|
| 1140      | 400 | 1 | 500   |

## 184 Coil Spring Compressor



|             |                                                                      |
|-------------|----------------------------------------------------------------------|
| Application | to fix and remove coil springs on vehicles with max. weight 2000 kgs |
|-------------|----------------------------------------------------------------------|

|             |                                                                                                                                                                                                                                                                                                               |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Features    | with safety frame and coated hooks                                                                                                                                                                                                                                                                            |
| Functioning | Hook the tool in to opposite sides of the coil spring grasping as many coils as possible. Operate the drives (size 24 mm) alternately with a spanner or wrench. Important! Release the coil spring by even, alternating operation of the drives (size 24 mm). Ensure that the coil spring is seated properly! |

|          |                                           |
|----------|-------------------------------------------|
| Material | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |
|----------|-------------------------------------------|

|          |                                                                                                             |
|----------|-------------------------------------------------------------------------------------------------------------|
| Standard | This coil spring compressor is in conformity with the safety regulations of the car manufacturers (ZH1/454) |
|----------|-------------------------------------------------------------------------------------------------------------|

| Stock-No. | Spread<br>mm | Opening<br>mm |   | <br>g |
|-----------|--------------|---------------|---|-------|
| 184- 200  | 110 –180     | 200           | 1 | 2800  |
| 184- 300  | 110 –180     | 300           | 1 | 3100  |
| 184- 400  | 110 –180     | 400           | 1 | 3400  |



## Exhaust Systems, Lambda Probes and Tubing Service

### 244-1 Hose Clamp Plier



| Application | for hose clamps                                    |   |  |     |
|-------------|----------------------------------------------------|---|--|-----|
| Type        | 3 position slip joint, nickel plated               |   |  |     |
| Material    | high grade tool steel, joint C 45, Code No. 1.0503 |   |  |     |
| Stock-No.   | mm                                                 |   |  | g   |
| 244- 1      | 220                                                | 1 |  | 300 |

### 244-3 Hose Clamp Plier



| Application | for spring band hose clamps on cooling systems    |   |  |     |
|-------------|---------------------------------------------------|---|--|-----|
| Type        | jaws turnable, nickel plated                      |   |  |     |
| Material    | high grade tool steel, jaws C 45, Code No. 1.0503 |   |  |     |
| Stock-No.   | mm                                                |   |  | g   |
| 244- 3      | 206                                               | 1 |  | 183 |

### 244-2 Hose Clamp Plier



| Application | for self-adjusting hose clamps                    |   |  |     |
|-------------|---------------------------------------------------|---|--|-----|
| Type        | jaws turnable, nickel plated                      |   |  |     |
| Material    | high grade tool steel, jaws C 45, Code No. 1.0503 |   |  |     |
| Stock-No.   | mm                                                |   |  | g   |
| 244- 2      | 206                                               | 1 |  | 183 |

### 245 Flexible Line Clamp



|             |                                                                                                      |                                                                                          |                                                                                       |                                                                                            |  |
|-------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--|
| Application | for clamping flexible lines except metal fibre reinforced lines, e.g. fuel injection and brake lines |                                                                                          |                                                                                       |                                                                                            |  |
| Material    | plastic                                                                                              |                                                                                          |                                                                                       |                                                                                            |  |
| Stock-No.   | for line Ø<br>mm                                                                                     |  mm |  | <br>g |  |
| 245- 15     | 0 – 15                                                                                               | 155                                                                                      | 6                                                                                     | 48                                                                                         |  |
| 245- 30     | 0 – 30                                                                                               | 185                                                                                      | 6                                                                                     | 84                                                                                         |  |
| 245- 60     | 19 – 57                                                                                              | 250                                                                                      | 6                                                                                     | 130                                                                                        |  |

### 524 Chain Grip Plier



|             |                                                                                                                               |                                                                                           |                                                                                     |                                                                                          |  |
|-------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--|
| Application | adjusts quickly around any shaped object, even in awkward areas,<br>Stock-No. 524E is extension chain as well as spare chain! |                                                                                           |                                                                                     |                                                                                          |  |
| Type        | nickel plated                                                                                                                 |                                                                                           |                                                                                     |                                                                                          |  |
| Stock-No.   | for Ø to<br>mm                                                                                                                | <br>mm |  | <br>g |  |
| 524- 250    | 160                                                                                                                           | 250                                                                                       | 1                                                                                   | 900                                                                                      |  |
| 524- 300    | 160                                                                                                                           | 300                                                                                       | 1                                                                                   | 1110                                                                                     |  |
| 524E        | spare and extension<br>chain 160                                                                                              | 480                                                                                       | 1                                                                                   | 310                                                                                      |  |

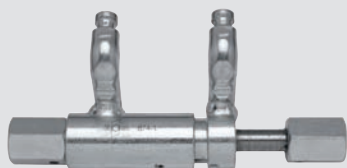
### 301 Chain Tubing Cutter



|             |                                                                                                                                                                      |                                                                                             |                                                                                       |                                                                                            |  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--|
| Application | for cutting tubes up to 75 mm Ø and up to 2,5 mm thickness, as well as for tubes made of stainless steel, copper and PVC, especially for dismantling exhaust systems |                                                                                             |                                                                                       |                                                                                            |  |
| Type        | nickel plated                                                                                                                                                        |                                                                                             |                                                                                       |                                                                                            |  |
| Material    | high grade tool steel, cutting wheels made of high-tensile steel                                                                                                     |                                                                                             |                                                                                       |                                                                                            |  |
| Stock-No.   | for Ø to<br>mm                                                                                                                                                       | <br>mm |  | <br>g |  |
| 301- 250    | 75                                                                                                                                                                   | 250                                                                                         | 1                                                                                     | 805                                                                                        |  |
| 301- 300    | 75                                                                                                                                                                   | 300                                                                                         | 1                                                                                     | 1020                                                                                       |  |
| 301E        | spare chain                                                                                                                                                          |                                                                                             | 1                                                                                     | 190                                                                                        |  |

## 874-1 Spring Spanner

3/8"



| Application | for the steel clamps on the VW exhaust systems    |   |  |     |
|-------------|---------------------------------------------------|---|--|-----|
| Type        | to be used with 17 mm spanner socket, zinc plated |   |  |     |
| Material    | special steel                                     |   |  |     |
| Stock-No.   | mm                                                |   |  | g   |
| 874- 1      | 140 – 330                                         | 1 |  | 750 |

## 874-1KS3 Wedge Plates Set



| Application | for mounting and dismounting the retaining springs on the ball flange of VW exhaust systems |      |  |  |
|-------------|---------------------------------------------------------------------------------------------|------|--|--|
| Type        | zinc plated                                                                                 |      |  |  |
| Material    | high grade tool steel                                                                       |      |  |  |
| Stock-No.   |                                                                                             |      |  |  |
| 874- 1KS3   | 1                                                                                           | 1100 |  |  |

## 294 Anti-Freeze Tester



| Application | for testing the anti-freeze point of the coolant |   |  |     |
|-------------|--------------------------------------------------|---|--|-----|
| Stock-No.   | mm                                               |   |  | g   |
| 294         | 130                                              | 1 |  | 170 |

## 776L-4 Socket for Lambda Probes

1/2"



| Application | for lambda probes with fixed wires, specially for VW, Opel, Ford, Nissan                                            |    |    |   |     |
|-------------|---------------------------------------------------------------------------------------------------------------------|----|----|---|-----|
| Type        | hexagon, size 22 mm, slotted for wires, without chamfer for a secure seating of the tool even on flat male hexagons |    |    |   |     |
| Material    | Chrome-Molybdenum 42 CrMo 4, Code No. 1.7225                                                                        |    |    |   |     |
| Stock-No.   | Drive                                                                                                               |    | mm |   |     |
| 776L- 4     | 1/2"                                                                                                                | 22 | 70 | 1 | 225 |

## 776L-5 Socket for Lambda Probes

1/2"



| Application | for lambda probes with fixed wires, specially for VW, Opel, Ford, Nissan                                                                                                                |    |     |   |     |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|---|-----|
| Type        | hexagon, size 22 mm, extra deep, slotted for wires, with cut step and without chamfer for a secure seating of the tool even on lowered lying, flat male hexagons (e.g. Ford and Nissan) |    |     |   |     |
| Material    | Chrome-Molybdenum 42 CrMo 4, Code No. 1.7225                                                                                                                                            |    |     |   |     |
| Stock-No.   | Drive                                                                                                                                                                                   |    | mm  |   |     |
| 776L- 5     | 1/2"                                                                                                                                                                                    | 22 | 110 | 1 | 375 |

## 776L-6 Socket for Lambda Probes

1/2"



| Application | for lambda probes with fixed wires, specially for Ford, Nissan, VW (incl. Golf VR6 with deep lying probe hexagon)                                                          |    |    |   |     |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|---|-----|
| Type        | hexagon, size 22 mm, slotted for wires, with cut step and without chamfer for a secure seating of the tool even on low-lying, flat male hexagons drive with 1/2"-extension |    |    |   |     |
| Material    | Chrome-Molybdenum 42 CrMo 4, Code No. 1.7225                                                                                                                               |    |    |   |     |
| Stock-No.   | Drive                                                                                                                                                                      |    | mm |   |     |
| 776L- 6     | 1/2"                                                                                                                                                                       | 22 | 60 | 1 | 215 |

## Oil Filter Service

### 874-2 Three Leg Oil Filter Wrench

3/8"



|             |                                                                  |     |   |     |
|-------------|------------------------------------------------------------------|-----|---|-----|
| Application | for oil filters difficult of access                              |     |   |     |
| Type        | left and right tightening, with 3/8" square drive and size 19 mm |     |   |     |
| Material    | special steel                                                    |     |   |     |
| Stock-No.   | max. oil filter Ø mm                                             | mm  | g |     |
| 874- 2      | 60-130                                                           | 120 | 1 | 310 |

### 874 Oil Filter Bell

3/8"



|             |                                                                             |      |    |     |
|-------------|-----------------------------------------------------------------------------|------|----|-----|
| Application | for Audi/VW 1.9 l Turbo-Diesel                                              |      |    |     |
| Type        | made from Alu-Si alloy, casted, 3/8" square drive and 22 mm outside hexagon |      |    |     |
| Stock-No.   | Nuts                                                                        | Ø mm | g  |     |
| 874- 3      | for original filter No.068115561 E                                          | 18   | 85 | 350 |
| 874- 4      | for original filter No.028115561 E                                          | 18   | 95 | 300 |
| 874- 5      | for original filter No.028115561 E                                          | 45   | 95 | 300 |

### 187-180 Strap Wrench

1/2"



|             |                                                                                                                         |    |     |  |
|-------------|-------------------------------------------------------------------------------------------------------------------------|----|-----|--|
| Application | for oil filters and other round shaped bodies up to 180 mm Ø, specially for trucks, building and agricultural machinery |    |     |  |
| Type        | with heavy duty bonded strap and 1/2" square drive                                                                      |    |     |  |
| Material    | high grade tool steel                                                                                                   |    |     |  |
| Stock-No.   | Drive                                                                                                                   | mm | g   |  |
| 187- 180    | 1/2"                                                                                                                    | 1  | 375 |  |
| 187E- 180   | Spare strap for 187-180                                                                                                 | 1  | 60  |  |

### 187-280 Strap Wrench



|             |                                                                                                                         |    |     |  |
|-------------|-------------------------------------------------------------------------------------------------------------------------|----|-----|--|
| Application | for oil filters and other round shaped bodies up to 280 mm Ø, specially for trucks, building and agricultural machinery |    |     |  |
| Type        | with heavy duty bonded strap, forged handle                                                                             |    |     |  |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                               |    |     |  |
| Stock-No.   | Handle - mm                                                                                                             | mm | g   |  |
| 187- 280    | 280                                                                                                                     | 1  | 450 |  |
| 187E- 280   | Spare strap for 187-280                                                                                                 | 1  | 110 |  |

### 187-160 Strap Wrench



|             |                                                              |    |     |  |
|-------------|--------------------------------------------------------------|----|-----|--|
| Application | for oil filters and other round shaped bodies up to 160 mm Ø |    |     |  |
| Type        | with heavy duty bonded strap, cushion grip handle            |    |     |  |
| Material    | high grade tool steel                                        |    |     |  |
| Stock-No.   | Handle - mm                                                  | mm | g   |  |
| 187- 160    | 230                                                          | 1  | 300 |  |
| 187E- 160   | Spare strap for 187-160                                      | 1  | 64  |  |

### 187-140 Strap Wrench



|             |                                                              |    |     |  |
|-------------|--------------------------------------------------------------|----|-----|--|
| Application | for oil filters and other round shaped bodies up to 140 mm Ø |    |     |  |
| Type        | with heavy duty bonded strap, cushion grip handle            |    |     |  |
| Material    | high grade tool steel                                        |    |     |  |
| Stock-No.   | Handle - mm                                                  | mm | g   |  |
| 187- 140    | 220                                                          | 1  | 225 |  |
| 187E- 140   | Spare strap for 187-140                                      | 1  | 30  |  |

### 770-L21 Radiator Petcock Socket

1/2"



|             |                                           |    |    |  |
|-------------|-------------------------------------------|----|----|--|
| Application | specially for Caterpillar vehicles        |    |    |  |
| Type        | chrome plated, with 1/2" square drive     |    |    |  |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |    |    |  |
| Stock-No.   | mm                                        | mm | g  |  |
| 770-L21     | 40                                        | 6  | 55 |  |

### 876-1 Socket

3/8"



|             |                                                                                  |    |    |     |
|-------------|----------------------------------------------------------------------------------|----|----|-----|
| Application | for screwed connections on engine oil filters, specially for Mercedes, Opel etc. |    |    |     |
| Type        | hexagon size 36 mm                                                               |    |    |     |
| Material    | Chrome-Vanadium 58 CrV 4, Code No. 1.2242                                        |    |    |     |
| Stock-No.   | Drive                                                                            | mm | mm | g   |
| 876- 1      | 3/8"                                                                             | 36 | 60 | 240 |

### 876-2 Socket

3/8"



|             |                                                |    |     |  |
|-------------|------------------------------------------------|----|-----|--|
| Application | for oil filter especially for Mercedes A-class |    |     |  |
| Stock-No.   | mm                                             | mm | g   |  |
| 876- 2      | 27                                             | 1  | 270 |  |

## 183 Filter Wrench



1/2"

|             |                                                                  |
|-------------|------------------------------------------------------------------|
| Application | for all popular oil filters and other round shaped bodies        |
| Type        | with adjustable steel strap and 1/2" square drive, nickel plated |

| Stock-No. | Capacity<br>mm | mm  |   | g   |
|-----------|----------------|-----|---|-----|
| 183- 60   | 60 – 80        | 130 | 1 | 195 |
| 183- 80   | 80 – 110       | 150 | 1 | 225 |

## 190 Filter Wrench



|             |                                                                 |
|-------------|-----------------------------------------------------------------|
| Application | for all popular oil filters and other round shaped bodies       |
| Type        | with adjustable steel strap, nickel plated, cushion grip handle |

| Stock-No. | for Ø<br>mm | Handle<br>mm |   | g   |
|-----------|-------------|--------------|---|-----|
| 190- 60   | 60 – 80     | 220          | 1 | 280 |
| 190- 80   | 80 – 110    | 240          | 1 | 315 |

## 225 Drain Plug Wrench



|             |                                                                                                     |
|-------------|-----------------------------------------------------------------------------------------------------|
| Application | with 10 sizes for drain plugs at oil pans with barrel nuts, for female square and plain slot screws |
|-------------|-----------------------------------------------------------------------------------------------------|

|          |                                           |
|----------|-------------------------------------------|
| Type     | chrome plated                             |
| Material | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |

| Stock-No. | mm  |   | g   |
|-----------|-----|---|-----|
| 225       | 220 | 4 | 410 |

## 226 Drain Plug Wrench



|             |                                                |
|-------------|------------------------------------------------|
| Application | with 7 sizes for hexagon and square head bolts |
| Type        | chrome plated                                  |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208      |

| Stock-No. | mm  |   | g   |
|-----------|-----|---|-----|
| 226       | 240 | 6 | 365 |

## 223 Drain Plug Wrench



|             |                                           |
|-------------|-------------------------------------------|
| Application | specialy for VW                           |
| Type        | chrome plated, hexagon tempered           |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |

| Stock-No. | mm      | mm  |   | g   |
|-----------|---------|-----|---|-----|
| 223       | 17 × 21 | 260 | 6 | 230 |

## 224 Drain Plug Wrench



|             |                                           |
|-------------|-------------------------------------------|
| Application | specialy for Mercedes cars                |
| Type        | chrome plated, hexagon tempered           |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |

| Stock-No. | mm      | mm  |   | g   |
|-----------|---------|-----|---|-----|
| 224       | 14 × 17 | 240 | 6 | 210 |

## 227 Drain Plug Wrench



|             |                                           |
|-------------|-------------------------------------------|
| Application | specialy for French vehicles              |
| Type        | chrome plated                             |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |

| Stock-No. | mm     | mm  |   | g   |
|-----------|--------|-----|---|-----|
| 227       | 8 × 10 | 285 | 6 | 335 |

## 770-L22 Drain Plug Wrench



1/2"

|             |                                           |
|-------------|-------------------------------------------|
| Application | specialy for Caterpillar vehicles         |
| Type        | chrome plated, with 1/2" square drive     |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |

| Stock-No. | mm |   | g   |
|-----------|----|---|-----|
| 770-L22   | 44 | 6 | 180 |

## Injection Nozzles and Pipes Service

**309**
**Crown Socket**



|              |                                                    |    |   |     |  |
|--------------|----------------------------------------------------|----|---|-----|--|
| Application  | for nozzle holder nut in MAN and MB diesel engines |    |   |     |  |
| Type         | four taps, drive size 32 mm, with counter thread   |    |   |     |  |
| Compare with | MAN 80.99603.0049, MB 403 589 05 07 00             |    |   |     |  |
| Material     | Chrome-Vanadium 58 CrV 4, Code No. 1.2242          |    |   |     |  |
| Stock-No.    | Drive                                              | mm |   | g   |  |
| <b>309</b>   | SW 32                                              | 70 | 1 | 180 |  |

**774L-1**
**Crown Socket**

1/2"



|               |                                                    |    |   |     |  |
|---------------|----------------------------------------------------|----|---|-----|--|
| Application   | for nozzle holder nut in MAN and MB diesel engines |    |   |     |  |
| Type          | with four taps                                     |    |   |     |  |
| Compare with  | MAN 80.99603.0121, MB 403 589 04 07 00             |    |   |     |  |
| Material      | Chrome-Molybdenum 42 CrMo 4, Code No. 1.7225       |    |   |     |  |
| Stock-No.     | Drive                                              | mm |   | g   |  |
| <b>774L-1</b> | 1/2"                                               | 60 | 1 | 155 |  |

**308**
**Crown Socket**



|              |                                                                |     |   |     |  |
|--------------|----------------------------------------------------------------|-----|---|-----|--|
| Application  | for nozzle holder nut in diesel engines, MAN and MB series 400 |     |   |     |  |
| Type         | four taps, drive size 32 mm, extra deep                        |     |   |     |  |
| Compare with | MAN 80.99603.0240, MB 442 589 00 07 00                         |     |   |     |  |
| Material     | Chrome-Vanadium 58 CrV 4, Code No. 1.2242                      |     |   |     |  |
| Stock-No.    | Drive                                                          | mm  |   | g   |  |
| <b>308</b>   | SW 32                                                          | 120 | 1 | 255 |  |

**774L-2**
**Socket for Pre-Chamber Nuts**

1/2"



|               |                                                               |    |   |     |  |
|---------------|---------------------------------------------------------------|----|---|-----|--|
| Application   | for pre-chamber nuts on MB car diesel engines from 1989 model |    |   |     |  |
| Type          | groove toothing                                               |    |   |     |  |
| Compare with  | MB 604 589 01 09 00                                           |    |   |     |  |
| Material      | Chrome-Vanadium 58 CrV 4, Code No. 1.2242                     |    |   |     |  |
| Stock-No.     | Drive                                                         | mm |   | g   |  |
| <b>774L-2</b> | 1/2"                                                          | 60 | 1 | 205 |  |

**410**
**Plier for Fuel Return Pipe**

New!



|             |                                                                                                  |   |     |  |  |
|-------------|--------------------------------------------------------------------------------------------------|---|-----|--|--|
| Application | to plug on and off the fuel return pipe on injector nozzle for diesel engines                    |   |     |  |  |
| Type        | flat round cranked with side cutter, with insulated TOP-KRAFT 2K plastic handles and slip guards |   |     |  |  |
| Material    | C 45, Code No. 1.0503                                                                            |   |     |  |  |
| Stock-No.   | mm                                                                                               |   | g   |  |  |
| <b>410</b>  | 200                                                                                              | 1 | 220 |  |  |

**411**
**Leak Oil Plier**

New!



|             |                                                                                                                    |   |     |  |  |
|-------------|--------------------------------------------------------------------------------------------------------------------|---|-----|--|--|
| Application | for fuel return pipes on injector nozzles and terminals                                                            |   |     |  |  |
| Type        | flat round, 90° bent, with side cutter, with insulated TOP-KRAFT 2K plastic handles and slip guards, chrome plated |   |     |  |  |
| Material    | C 45, Code No. 1.0503                                                                                              |   |     |  |  |
| Stock-No.   | mm                                                                                                                 |   | g   |  |  |
| <b>411</b>  | 190                                                                                                                | 1 | 220 |  |  |

**412**
**Fuel Feet Pipe Plier**

New!



|             |                                                |   |     |  |  |
|-------------|------------------------------------------------|---|-----|--|--|
| Application | for connection on fuel pipes                   |   |     |  |  |
| Type        | Chrome plated, with red plastic coated handles |   |     |  |  |
| Material    | C 45, Code No. 1.0503                          |   |     |  |  |
| Stock-No.   | mm                                             |   | g   |  |  |
| <b>412</b>  | 155                                            | 1 | 180 |  |  |

**775L-3**
**Socket for Diesel Injection Nozzles**

1/2"



|               |                                                                                                                                                        |    |    |   |     |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|---|-----|
| Application   | for injection nozzles on diesel engines, specially for VM 2,5 TDI engines in Alfa Romeo, Jeep, Rover, Opel Frontera, Scania and MAN 6 cylinders D 0226 |    |    |   |     |
| Type          | bi-hexagon, size 28 mm, specially machined to accommodate small return pipes                                                                           |    |    |   |     |
| Material      | Chrome-Molybdenum 42 CrMo 4, Code No. 1.7225                                                                                                           |    |    |   |     |
| Stock-No.     | Drive                                                                                                                                                  | mm |    | g |     |
| <b>775L-3</b> | 1/2"                                                                                                                                                   | 28 | 65 | 1 | 255 |

**876-12..**
**Socket for Flare Nuts**

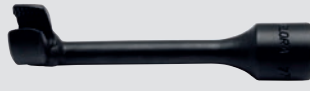
3/8"



|               |                                                                            |    |    |   |     |
|---------------|----------------------------------------------------------------------------|----|----|---|-----|
| Application   | for flare nuts on injection pipes                                          |    |    |   |     |
| Type          | hexagon, with limit stop for secure seating of the socket on the flare nut |    |    |   |     |
| Material      | Chrome-Vanadium 58 CrV 4, Code No. 1.2242                                  |    |    |   |     |
| Stock-No.     | Drive                                                                      | mm |    | g |     |
| <b>876-12</b> | 3/8"                                                                       | 12 | 80 | 1 | 110 |
| <b>876-14</b> | 3/8"                                                                       | 14 | 80 | 1 | 110 |
| <b>876-17</b> | 3/8"                                                                       | 17 | 80 | 1 | 120 |
| <b>876-19</b> | 3/8"                                                                       | 19 | 80 | 1 | 130 |

**775L-14..**
**Socket for Flare Nuts**

1/2"



|                |                                                                                                         |    |     |   |     |
|----------------|---------------------------------------------------------------------------------------------------------|----|-----|---|-----|
| Application    | for flare nuts on injection pipes, specially for BMW Turbodiesel, Peugeot, and Citroën with XUD-engines |    |     |   |     |
| Type           | bi-hexagon, extra long, with limit stop for secure seating of the socket on the flare nut               |    |     |   |     |
| Material       | Chrome-Vanadium 58 CrV 4, Code No. 1.2242                                                               |    |     |   |     |
| Stock-No.      | Drive                                                                                                   | mm |     | g |     |
| <b>775L-14</b> | 1/2"                                                                                                    | 14 | 120 | 1 | 110 |
| <b>775L-16</b> | 1/2"                                                                                                    | 16 | 120 | 1 | 120 |
| <b>775L-17</b> | 1/2"                                                                                                    | 17 | 120 | 1 | 130 |
| <b>775L-18</b> | 1/2"                                                                                                    | 18 | 120 | 1 | 140 |
| <b>775L-19</b> | 1/2"                                                                                                    | 19 | 120 | 1 | 150 |



## Piston and Valve Service

### 232 Piston Ring Compressor



**Application** for inserting the piston with ring into the cylinder  
**Type** stepless adjustment, with key, light pattern

**Material** tension band made of high grade tool steel C 75

| Stock-No. | Spread<br>mm | Height<br>mm |   | <br>g |
|-----------|--------------|--------------|---|-------|
| 232- 0    | 40 – 75      | 50           | 1 | 85    |
| 232- 1    | 57 – 125     | 80           | 1 | 250   |
| 232- 1A   | 57 – 125     | 100          | 1 | 250   |
| 232- 2    | 90 – 175     | 80           | 1 | 265   |
| 232- 2A   | 90 – 175     | 100          | 1 | 290   |
| 232- 3    | 90 – 175     | 165          | 1 | 500   |

### 232S Piston Ring Compressor



**Application** for inserting the piston with ring into the cylinder  
**Type** stepless adjustment, with key, heavy-duty pattern

**Material** tension band made of high grade tool steel C 75

| Stock-No. | Spread<br>mm | Height<br>mm |   | <br>g |
|-----------|--------------|--------------|---|-------|
| 232S- 1   | 57 – 125     | 80           | 1 | 250   |
| 232S- 1A  | 57 – 125     | 100          | 1 | 250   |
| 232S- 2   | 90 – 175     | 80           | 1 | 265   |
| 232S- 2A  | 90 – 175     | 100          | 1 | 290   |
| 232S- 3   | 90 – 175     | 165          | 1 | 500   |

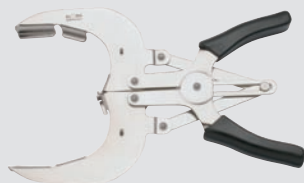
### 232-60 Piston Ring Compressor



**Application** for inserting the piston with ring into the cylinder  
**Type** stepless adjustment with adjusting screw  
**Material** tension band made of high grade tool steel C 75

| Stock-No. | Spread<br>mm |   | <br>g |
|-----------|--------------|---|-------|
| 232- 60   | 60 – 90      | 1 | 220   |

### 235 Piston Ring Plier



**Application** for inserting and removing piston rings  
**Type** nickel plated, cushion grip handles  
**Material** high grade tool steel, claw C 45, Code No. 1.0503

| Stock-No. | Spread<br>mm | mm  |   | <br>g |
|-----------|--------------|-----|---|-------|
| 235- 50   | 50 – 100     | 215 | 1 | 245   |
| 235- 80   | 80 – 120     | 220 | 1 | 275   |
| 235- 110  | 110 – 160    | 240 | 1 | 240   |

### 235-30 Piston Ring Plier



**Application** for safe spreading of piston rings  
**Type** with prism fixing and fixing screw preventing excessive elongation of piston rings, nickel plated

**Material** high grade tool steel, claw C 45, Code No. 1.0503

| Stock-No. | Spread<br>mm | mm  |   | <br>g |
|-----------|--------------|-----|---|-------|
| 235- 30   | 30 – 60      | 210 | 1 | 155   |

### 235-60 Piston Ring Plier



**Application** for safe spreading of piston rings  
**Type** with prism fixing  
**Material** high grade tool steel, claw C 45, Code No. 1.0503

| Stock-No. | Spread<br>mm | mm  |   | <br>g |
|-----------|--------------|-----|---|-------|
| 235- 60   | 60 – 160     | 220 | 1 | 200   |

### 230-45 Valve Spring Compressor



**Application** for OHC engines  
**Type** with one pair of straight and cranked jaws, nickel plated, cushion grip handle

| Stock-No. | Spread<br>mm        | mm  |   | <br>g |
|-----------|---------------------|-----|---|-------|
| 230- 45   | 45 – 225            | 290 | 1 | 1325  |
| 230E- 45  | Spare jaw, cranked  |     | 1 | 106   |
| 230E- 75  | Spare jaw, straight |     | 1 | 110   |

### 230-115 Valve Spring Compressor



**Application** for OHC engines  
**Type** with one pair of straight and cranked jaws, nickel plated

| Stock-No. | Spread<br>mm        | mm  |   | <br>g |
|-----------|---------------------|-----|---|-------|
| 230- 115  | 115 – 290           | 390 | 1 | 3225  |
| 230E- 115 | Spare jaw, cranked  |     | 1 | 114   |
| 230E- 150 | Spare jaw, straight |     | 1 | 106   |

### 230-150 Valve Spring Compressor



**Application** for OHC engines  
**Type** with one pair of straight and cranked jaws, nickel plated, cushion grip handle

| Stock-No. | Spread<br>mm        | mm  |   | <br>g |
|-----------|---------------------|-----|---|-------|
| 230- 150  | 150 – 350           | 500 | 1 | 4200  |
| 230E- 115 | Spare jaw, cranked  |     | 1 | 114   |
| 230E- 150 | Spare jaw, straight |     | 1 | 106   |

## 230-75 Valve Spring Compressor



| Application | for OHC engines                                                   |     |   |       |  |
|-------------|-------------------------------------------------------------------|-----|---|-------|--|
| Type        | with hardened and special jaw, nickel plated, cushion grip handle |     |   |       |  |
| Stock-No.   | Spread<br>mm                                                      | mm  |   | <br>g |  |
| 230-75      | 75 – 240                                                          | 360 | 1 | 1700  |  |

## 233 Valve Spring Lifter



| Application | for OHC engines                     |   |       |  |  |
|-------------|-------------------------------------|---|-------|--|--|
| Type        | with adjustable jaws, nickel plated |   |       |  |  |
| Material    | pressed steel frame                 |   |       |  |  |
| Stock-No.   | mm                                  |   | <br>g |  |  |
| 233         | 275                                 | 1 | 405   |  |  |

## 238 Piston Groove Scraper



| Application | for cleaning of piston grooves                                                                                                                 |                       |     |   |       |  |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----|---|-------|--|
| Type        | stepless adjustment for all pistons from 50-175 mm, with 4 specially hardened blades for different grooves, nickel plated, cushion grip handle |                       |     |   |       |  |
| Material    | high grade tool steel, claw C 45, Code No. 1.0503                                                                                              |                       |     |   |       |  |
| Stock-No.   | Spread<br>mm                                                                                                                                   | for grooves<br>mm     | mm  |   | <br>g |  |
| 238-2       | 50 – 175                                                                                                                                       | 2; 2,5; 3; 3,5        | 330 | 1 | 560   |  |
| 238-4       | 50 – 175                                                                                                                                       | 4; 4,5; 5; 5,5        | 330 | 1 | 565   |  |
| 238-3/32    | 50 – 175                                                                                                                                       | 3/32; 1/8; 5/32; 3/16 | 330 | 1 | 565   |  |
| 238E-2      | Set with 4 spare blades for Stock.-No. 238-2                                                                                                   |                       |     | 1 | 30    |  |
| 238E-4      | Set with 4 spare blades for Stock.-No. 238-4                                                                                                   |                       |     | 1 | 30    |  |
| 238E-3/32   | Set with 4 spare blades for Stock.-No. 238-3/32                                                                                                |                       |     | 1 | 30    |  |

## 234 Valve Spring Lifter



| Application | for inserting valve spring plates |   |       |  |  |
|-------------|-----------------------------------|---|-------|--|--|
| Type        | nickel plated                     |   |       |  |  |
| Material    | pressed steel frame               |   |       |  |  |
| Stock-No.   | mm                                |   | <br>g |  |  |
| 234         | 175                               | 1 | 100   |  |  |

## 282 Valve Stem Seal Plier



| Application | for withdrawal of valve stem seals and removing the valve spring caps, also suitable for Mercedes, Opel and VW/Audi |   |       |  |  |
|-------------|---------------------------------------------------------------------------------------------------------------------|---|-------|--|--|
| Type        | improved model with extra long jaws and slim tips, gun metal finish                                                 |   |       |  |  |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                           |   |       |  |  |
| Stock-No.   | mm                                                                                                                  |   | <br>g |  |  |
| 282         | 250                                                                                                                 | 1 | 340   |  |  |

## 279-200 Valve Adjustment Tool



| Application | for Fiat, for replacing valve plates, to be used with valve plate pliers Stock-No. 268 |   |     |  |
|-------------|----------------------------------------------------------------------------------------|---|-----|--|
| Type        | nickel plated, cushion grip handle                                                     |   |     |  |
| Material    | high grade tool steel                                                                  |   |     |  |
| Stock-No.   | mm                                                                                     |   | g   |  |
| 279- 200    | 180                                                                                    | 1 | 135 |  |

## 279-245 Valve Adjustment Tool



| Application | for VW/Audi from model 8/82 onwards and Volvo, for replacing valve plates, to be used with valve plate pliers Stock-No. 268 |   |     |  |
|-------------|-----------------------------------------------------------------------------------------------------------------------------|---|-----|--|
| Type        | nickel plated, cushion grip handle                                                                                          |   |     |  |
| Material    | high grade tool steel                                                                                                       |   |     |  |
| Stock-No.   | mm                                                                                                                          |   | g   |  |
| 279- 245    | 245                                                                                                                         | 1 | 225 |  |

## 279-210 Valve Adjustment Tool



| Application | for Ford, for replacing valve plates, to be used with valve plate pliers Stock-No. 268 |   |     |  |
|-------------|----------------------------------------------------------------------------------------|---|-----|--|
| Type        | nickel plated, cushion grip handle                                                     |   |     |  |
| Material    | high grade tool steel                                                                  |   |     |  |
| Stock-No.   | mm                                                                                     |   | g   |  |
| 279- 210    | 210                                                                                    | 1 | 230 |  |

## 268 Valve Plate Plier



| Application | for installing and removing valve plates, to be used with valve adjustment tool Stock-No. 279 |   |     |  |
|-------------|-----------------------------------------------------------------------------------------------|---|-----|--|
| Type        | nickel plated                                                                                 |   |     |  |
| Material    | pressed steel frame, tips made of high grade tool steel C45. Code No. 1.0503                  |   |     |  |
| Stock-No.   | mm                                                                                            |   | g   |  |
| 268         | 275                                                                                           | 1 | 240 |  |
| 268E        | 2 pcs. spare tips                                                                             | 1 | 5   |  |

## 279-220 Valve Adjustment Tool



| Application | for VW/Audi up to model 7/82, for replacing valve plates, to be used with valve plate pliers Stock-No. 268 |   |     |  |
|-------------|------------------------------------------------------------------------------------------------------------|---|-----|--|
| Type        | nickel plated, cushion grip handle                                                                         |   |     |  |
| Material    | high grade tool steel                                                                                      |   |     |  |
| Stock-No.   | mm                                                                                                         |   | g   |  |
| 279- 220    | 220                                                                                                        | 1 | 200 |  |

## 303 Suction Valve Grinder



| Application | for grinding the valve seating               |     |   |    |
|-------------|----------------------------------------------|-----|---|----|
| Type        | both ends with rubber cup, with wooden shaft |     |   |    |
| Stock-No.   | mm                                           | mm  |   | g  |
| 303- 19     | 19 × 22                                      | 200 | 6 | 63 |
| 303- 22     | 22 × 32                                      | 200 | 6 | 63 |

## Spark Plug System Service

### 191 Combined Feeler Gauges



| Application     | for checking gaps and contact clearances, e.g. for adjusting the valve clearance and the spark plug gap                                                             |     |    |  |    |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|--|----|
| Type            | blade length: 43 and 60 mm, polished, holder nickel plated                                                                                                          |     |    |  |    |
| Material        | spring steel strip                                                                                                                                                  |     |    |  |    |
| Stock-No.       | Blade Thicknes<br>mm                                                                                                                                                | mm  |    |  | g  |
| <b>191- 24M</b> | 0,03; 0,04; 0,05;<br>0,06; 0,07; 0,08;<br>0,09; 0,10; 0,12;<br>0,14; 0,15; 0,20;<br>0,25; 0,30; 0,35;<br>0,40; 0,45; 0,50;<br>0,55; 0,60; 0,65;<br>0,70; 0,75; 0,80 | 115 | 12 |  | 38 |

| Stock-No.       | Blade Thicknes<br>Inch                                                                                                                                              | mm  |    |  | g  |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|--|----|
| <b>191- 24Z</b> | .003; .004; .005;<br>.006; .007; .008;<br>.010; .012; .013;<br>.015; .008; .010;<br>.012; .013; .015;<br>.018; .020; .022;<br>.024; .025; .028;<br>.030; .032; .035 | 115 | 12 |  | 46 |

### 193 Spark Plug Gauge



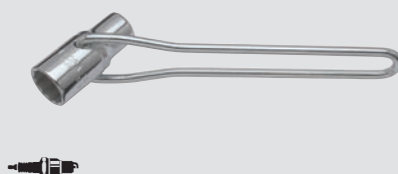
| Application    | for adjusting the spark plug gap                         |    |    |  |    |
|----------------|----------------------------------------------------------|----|----|--|----|
| Type           | 8 electrode gauges and 1 electrode bender                |    |    |  |    |
| Material       | high grade tool steel, pins made of precision steel wire |    |    |  |    |
| Stock-No.      | Blade Thicknes<br>mm                                     | mm |    |  | g  |
| <b>193- 8M</b> | 0,40; 0,50; 0,60;<br>0,70; 0,75; 0,80;<br>0,90; 1,00     | 90 | 12 |  | 42 |

### 221 Spark Plug Wrench



| Type             | with ball joint and rubber insert, chrome plated |     |     |   |     |
|------------------|--------------------------------------------------|-----|-----|---|-----|
| Material         | high grade tool steel                            |     |     |   |     |
| Stock-No.        | mm                                               | mm  | mm  |   | g   |
| <b>221- 16</b>   | 16,0<br>(5/8" AF)                                | M10 | 110 | 6 | 225 |
| <b>221- 18</b>   | 18,0<br>(11/16" AF)                              | M12 | 110 | 6 | 225 |
| <b>221- 20,8</b> | 20,8<br>(13/16" AF)                              | M14 | 110 | 6 | 225 |

### 222 Spark Plug Wrench



| Type             | with swivel handle, chrome plated         |            |     |   |     |
|------------------|-------------------------------------------|------------|-----|---|-----|
| Material         | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |            |     |   |     |
| Stock-No.        | mm                                        | mm         | mm  |   | g   |
| <b>222- 16</b>   | 16 x 20,8<br>(5/8 x<br>13/16" AF)         | M10<br>M14 | 215 | 4 | 200 |
| <b>222- 20,8</b> | 20,8 x 26<br>(13/16 x<br>1" AF)           | M14<br>M18 | 215 | 4 | 245 |

### 228 Spark Plug Wrench



| Type            | chrome plated                             |     |     |   |     |
|-----------------|-------------------------------------------|-----|-----|---|-----|
| Material        | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |     |     |   |     |
| Stock-No.       | mm                                        | mm  | mm  |   | g   |
| <b>228- 16</b>  | 16<br>(5/8" AF)                           | M10 | 225 | 4 | 290 |
| <b>228- 225</b> | 20,8<br>(13/16" AF)                       | M14 | 225 | 4 | 290 |
| <b>228- 400</b> | 20,8<br>(13/16" AF)                       | M14 | 400 | 4 | 320 |

### 871-TZ Extra Deep Hexagon Spark Plug Socket



| Type               | extra deep, with rubber insert and inside hexagon, with 3/8" square drive, chrome plated, polished, knurled |     |    |   |     |
|--------------------|-------------------------------------------------------------------------------------------------------------|-----|----|---|-----|
| Material           | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                   |     |    |   |     |
| Standard           | Drive acc. to DIN 3120/ISO 1174                                                                             |     |    |   |     |
| Stock-No.          | mm                                                                                                          | mm  | mm |   | g   |
| <b>871TZ- 16</b>   | 16,0<br>(5/8" AF)                                                                                           | M10 | 70 | 6 | 106 |
| <b>871TZ- 18</b>   | 18,0<br>(11/16" AF)                                                                                         | M12 | 70 | 6 | 115 |
| <b>871TZ- 20,8</b> | 20,8<br>(13/16" AF)                                                                                         | M14 | 70 | 6 | 124 |

### 871-TMG Extra Deep Magnetic Spark Plug Socket



| Type                | extra deep, with strong permanent magnet and inside hexagon, with 3/8" square drive, chrome plated, polished, knurled |     |    |   |     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------|-----|----|---|-----|
| Material            | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                             |     |    |   |     |
| Standard            | Drive acc. to DIN 3120/ISO 1174                                                                                       |     |    |   |     |
| Stock-No.           | mm                                                                                                                    | mm  | mm |   | g   |
| <b>871TMG- 16</b>   | 16,0<br>(5/8" AF)                                                                                                     | M10 | 70 | 6 | 106 |
| <b>871TMG- 18</b>   | 18,0<br>(11/16" AF)                                                                                                   | M12 | 70 | 6 | 115 |
| <b>871TMG- 20,8</b> | 20,8<br>(13/16" AF)                                                                                                   | M14 | 70 | 6 | 124 |

### 771-LTZ Extra Deep Hexagon Spark Plug Socket



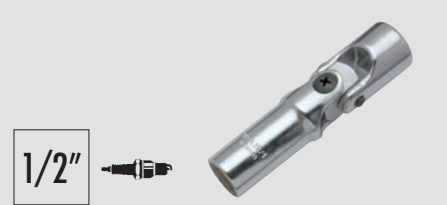
| Type                | extra deep, with rubber insert and inside hexagon, with 1/2" square drive, chrome plated, polished, knurled |     |    |   |     |
|---------------------|-------------------------------------------------------------------------------------------------------------|-----|----|---|-----|
| Material            | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                   |     |    |   |     |
| Standard            | Drive acc. to DIN 3120/ISO 1174                                                                             |     |    |   |     |
| Stock-No.           | mm                                                                                                          | mm  | mm |   | g   |
| <b>771LTZ- 16</b>   | 16 (5/8" AF)                                                                                                | M10 | 80 | 6 | 165 |
| <b>771LTZ- 18</b>   | 18<br>(11/16" AF)                                                                                           | M12 | 80 | 6 | 170 |
| <b>771LTZ- 20,8</b> | 20,8<br>(13/16" AF)                                                                                         | M14 | 80 | 6 | 180 |

## 771-LMG Extra Deep Magnetic Hexagon Spark Plug Socket



| Type         | extra deep, with strong permanent magnet and inside hexagon, with 1/2" square drive, chrome plated, polished, knurled |     |    |   |     |
|--------------|-----------------------------------------------------------------------------------------------------------------------|-----|----|---|-----|
| Material     | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                                             |     |    |   |     |
| Standard     | Drive acc. to DIN 3120/ISO 1174                                                                                       |     |    |   |     |
| Stock-No.    | mm                                                                                                                    | mm  | mm | g |     |
| 771LMG- 16   | 16<br>(5/8" AF)                                                                                                       | M10 | 80 | 6 | 165 |
| 771LMG- 18   | 18<br>(11/16" AF)                                                                                                     | M12 | 80 | 6 | 170 |
| 771LMG- 20,8 | 20,8<br>(13/16" AF)                                                                                                   | M14 | 80 | 6 | 180 |

## 770-L20 Flexible Spark Plug Socket



| Type        | extra deep, with rubber insert, bi-hexagon, with 1/2" square drive, chrome plated, polished |     |     |   |     |
|-------------|---------------------------------------------------------------------------------------------|-----|-----|---|-----|
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                   |     |     |   |     |
| Standard    | Drive acc. to DIN 3120/ISO 1174                                                             |     |     |   |     |
| Stock-No.   | mm                                                                                          | mm  | mm  | g |     |
| 770- L20- 1 | SW 16 mm<br>(5/8" AF)                                                                       | M10 | 105 | 1 | 185 |
| 770- L20- 2 | SW 20,8 mm<br>(13/16" AF)                                                                   | M14 | 95  | 1 | 185 |

## 219 Tubular Spark Plug Wrench



| Application | to be used with tommy bar Stock-No. 229D                  |            |     |   |     |
|-------------|-----------------------------------------------------------|------------|-----|---|-----|
| Type        | with rubber insert on side 20,8 mm, forged, chrome plated |            |     |   |     |
| Material    | precision steel tube                                      |            |     |   |     |
| Stock-No.   | mm                                                        | mm         | mm  | g |     |
| 219         | 16 x 20,8<br>(5/8 x 13/16" AF)                            | M10<br>M14 | 190 | 6 | 210 |

## 229 Spark Plug Wrench



| Application   | to be used with tommy bar Stock-No. 229D  |     |     |   |     |
|---------------|-------------------------------------------|-----|-----|---|-----|
| Type          | with rubber insert, forged, chrome plated |     |     |   |     |
| Material      | precision steel tube                      |     |     |   |     |
| Stock-No.     | mm                                        | mm  | mm  | g |     |
| 229- 16x100   | 16<br>(5/8" AF)                           | 100 | M10 | 4 | 58  |
| 229- 16x145   | 16<br>(5/8" AF)                           | 145 | M10 | 4 | 84  |
| 229- 20,8x145 | 20,8<br>(13/16" AF)                       | 145 | M14 | 4 | 160 |
| 229- 20,8x195 | 20,8<br>(13/16" AF)                       | 195 | M14 | 4 | 220 |

## 218/220 Tubular Spark Plug Wrench



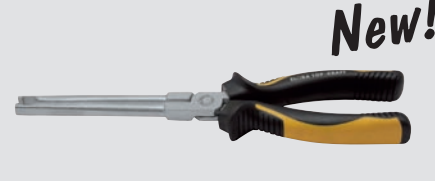
| Application | for spark plugs of size 16 mm (5/8" AF) to be used with tommy bar Stock-No. 229D, with ELORA 3/8" or 1/2" socket part or with ELORA torque wrench 3/8" or 1/2" |     |     |   |     |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|---|-----|
| Type        | forged, chrome plated                                                                                                                                          |     |     |   |     |
| Material    | precision steel tube                                                                                                                                           |     |     |   |     |
| Stock-No.   | Drive-<br>mm                                                                                                                                                   | mm  | mm  | g |     |
| 218- 16x270 | 3/8"                                                                                                                                                           | M10 | 270 | 6 | 200 |
| 220- 16x145 | 1/2"                                                                                                                                                           | M10 | 145 | 6 | 95  |
| 220- 16x270 | 1/2"                                                                                                                                                           | M10 | 270 | 6 | 200 |

## 229D Tommy



| Application | for spark plug wrenches Stock-No. 218, 219, 220 and 229 |     |    |    |  |
|-------------|---------------------------------------------------------|-----|----|----|--|
| Type        | with rubber insert, forged, chrome plated               |     |    |    |  |
| Material    | precision steel tube                                    |     |    |    |  |
| Stock-No.   | mm                                                      | mm  | mm | g  |  |
| 229D        | 8                                                       | 185 | 6  | 74 |  |

## 463 Glow Plug Plier



| Application | to pull off and pull on of deep sitting glow plugs                         |   |     |
|-------------|----------------------------------------------------------------------------|---|-----|
| Type        | with insulated TOP-KRAFT 2K plastic handles and slip guards, chrome plated |   |     |
| Material    | C 45, Code-No. 1.0503                                                      |   |     |
| Stock-No.   | mm                                                                         | g |     |
| 463         | 230                                                                        | 1 | 220 |

## 464 Spark Plug Socket Plier



| Application | for spark plug sockets difficult to withdraw                                                                                                         |   |     |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Type        | hooks angled, BI: dull chrome plated, with insulated TOP-KRAFT 2K plastic handles, AI: gun metal finish, with insulated TOP-KRAFT 2K plastic handles |   |     |
| Material    | high grade tool steel C 45, Code No. 1.0503                                                                                                          |   |     |
| Stock-No.   | mm                                                                                                                                                   | g |     |
| 464- 200 AI | 200                                                                                                                                                  | 1 | 215 |
| 464- 200 BI | 200                                                                                                                                                  | 1 | 215 |

## 465 Spark Plug Socket Plier



| Application | for deep-seated spark plug sockets                                                                                                                   |     |       |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|
| Type        | with sleeves, BI: dull chrome plated, with insulated TOP-KRAFT 2K plastic handles, AI: gun metal finish, with insulated TOP-KRAFT 2K plastic handles |     |       |
| Material    | high grade tool steel C 45, Code No. 1.0503                                                                                                          |     |       |
| Stock-No.   | Jaw length<br>mm                                                                                                                                     | mm  | g     |
| 465- 230 AI | 50                                                                                                                                                   | 240 | 1 250 |
| 465- 230 BI | 50                                                                                                                                                   | 240 | 1 250 |
| 465- 300 AI | 50                                                                                                                                                   | 300 | 1 275 |
| 465- 300 BI | 50                                                                                                                                                   | 300 | 1 275 |

## 465-VW Spark Plug Plier



| Application | for deep spark plugs, for Audi and VW, also for VW Transporter                              |     |  |
|-------------|---------------------------------------------------------------------------------------------|-----|--|
| Type        | with 2 pins and 1/2" square drive for extensions, for use with a ratchet or a sliding t-bar |     |  |
| Stock-No.   | mm                                                                                          | g   |  |
| 465- VW     | 1                                                                                           | 300 |  |



## 249 Contact File



Application for spark plugs

| Stock-No. | mm            |    | g |
|-----------|---------------|----|---|
| 249       | 150 × 8 × 0,8 | 12 | 8 |

## 249S Contact File Set



Type 6 contact files in vinyl storage wallet

| Stock-No. | mm            |   | g  |
|-----------|---------------|---|----|
| 249- S6   | 150 × 8 × 0,8 | 6 | 64 |

## 251 Spark Plug Cleaning Brush



Application for cleaning the electrodes

Material wood, with dense bronze wire fill

| Stock-No. | Wire fill mm | mm  |    | g  |
|-----------|--------------|-----|----|----|
| 251       | 45 × 18      | 200 | 12 | 32 |

## 1114 Ratchet Spanner



Application to install and remove glow plugs, specially suitable for VW, Audi, BMW, Mercedes

Type cranked, chrome plated, polished, with cushion grip handle

Material special steel

| Stock-No. | Hexagon mm | mm  |   | g   |
|-----------|------------|-----|---|-----|
| 1114      | 12         | 205 | 6 | 109 |

## 1115 Ratchet Spanner



Application to install and remove glow plugs, specially suitable for VW, Audi, BMW, Mercedes, Peugeot

Type cranked, chrome plated, polished

Material special steel

| Stock-No. | Hexagon mm | mm  |   | g   |
|-----------|------------|-----|---|-----|
| 1115      | 8 × 12     | 255 | 6 | 159 |

## Electrical System and Battery Service

### 580-20 Spark Plug Tester



|             |                                                                                                     |    |     |   |    |
|-------------|-----------------------------------------------------------------------------------------------------|----|-----|---|----|
| Application | for testing spark plugs for function and contamination, for standard spark plugs with one electrode |    |     |   |    |
| Type        | with plastic handle, protective cap, lens and metal clip, nickel plated                             |    |     |   |    |
| Material    | blade Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                     |    |     |   |    |
| Stock-No.   | Blade<br>mm                                                                                         |    |     |   |    |
| 580- 20     | 3                                                                                                   | 20 | 105 | 6 | 10 |

### 580 Spark Plug Tester



|             |                                                                                                     |     |     |   |    |
|-------------|-----------------------------------------------------------------------------------------------------|-----|-----|---|----|
| Application | for testing spark plugs for function and contamination, for standard spark plugs with one electrode |     |     |   |    |
| Type        | with plastic handle, protective cap, lens and metal clip, nickel plated                             |     |     |   |    |
| Material    | blade Chrome-Vanadium 31 CrV 3, Code No. 1.2208                                                     |     |     |   |    |
| Stock-No.   | Blade<br>mm                                                                                         |     |     |   |    |
| 580- 45     | 3                                                                                                   | 45  | 120 | 6 | 14 |
| 580- 100    | 6                                                                                                   | 100 | 190 | 6 | 34 |
| 580- 130    | 6                                                                                                   | 130 | 220 | 6 | 64 |

### 586 Car Electric Test Set



|             |                                                                         |   |    |  |
|-------------|-------------------------------------------------------------------------|---|----|--|
| Application | for voltage test, testing range 6 to 24 V                               |   |    |  |
| Type        | with tip, protective cap, fixed cable and clip, in vinyl storage wallet |   |    |  |
| Material    | blade Chrome-Vanadium 31 CrV 3, Code No. 1.2208                         |   |    |  |
| Stock-No.   |                                                                         |   |    |  |
| 586         | 120                                                                     | 6 | 74 |  |

### 306 Plier for Wedge Base Bulbs



**New!**

|             |                                                                                                                                                                    |     |   |     |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Application | for wedge base bulbs in instruments and switches, also suitable for deep-seated lamps. e.g. in the air circulation switch Opel Astra                               |     |   |     |
| Type        | shape and insulation of claws prevent the crushing of the fragile wedge bases nickel plated, polished, with insulated TOP-KRAFT 2K plastic handles and slip guards |     |   |     |
| Stock-No.   | Claw shape                                                                                                                                                         |     |   |     |
| 306         | straight                                                                                                                                                           | 160 | 1 | 160 |

### 307 Relay Adjusting Plier



|             |                                                   |    |     |       |
|-------------|---------------------------------------------------|----|-----|-------|
| Application | for replacing relays on circuit boards            |    |     |       |
| Type        | angled                                            |    |     |       |
| Material    | claws high grade tool steel C 45, Code No. 1.0305 |    |     |       |
| Stock-No.   | Relay size<br>mm                                  |    |     |       |
| 307- 195    | Relay pliers diagonal grip                        | 26 | 195 | 1 205 |

### 307G Relay Adjusting Plier



|             |                                                   |    |     |       |
|-------------|---------------------------------------------------|----|-----|-------|
| Application | for replacing relays on circuit boards            |    |     |       |
| Type        | straight                                          |    |     |       |
| Material    | claws high grade tool steel C 45, Code No. 1.0305 |    |     |       |
| Stock-No.   | Relay size<br>mm                                  |    |     |       |
| 307G- 215   | Relay pliers diagonal grip                        | 26 | 215 | 1 195 |
| 307G- 220   | Relay pliers diagonal grip                        | 30 | 220 | 1 220 |

### 174-50 Battery Terminal Puller



|             |                                              |               |   |     |
|-------------|----------------------------------------------|---------------|---|-----|
| Application | for pulling off battery terminals            |               |   |     |
| Type        | 2 legs, spindle drive 10 mm, silver-coloured |               |   |     |
| Material    | high grade tool steel                        |               |   |     |
| Stock-No.   | Capacity<br>mm                               | Opening<br>mm |   |     |
| 174- 50     | 50                                           | 40            | 1 | 140 |

### 174-80/2 Battery Terminal Puller



|             |                                              |               |   |     |
|-------------|----------------------------------------------|---------------|---|-----|
| Application | for pulling off battery terminals            |               |   |     |
| Type        | 2 legs, spindle drive 12 mm, silver-coloured |               |   |     |
| Material    | high grade tool steel                        |               |   |     |
| Stock-No.   | Capacity<br>mm                               | Opening<br>mm |   |     |
| 174- 80/2   | 80                                           | 80            | 1 | 310 |

### 174-80/3 Battery Terminal Puller



|             |                                              |               |   |     |
|-------------|----------------------------------------------|---------------|---|-----|
| Application | for pulling off battery terminals            |               |   |     |
| Type        | 3 legs, spindle drive 12 mm, silver-coloured |               |   |     |
| Material    | high grade tool steel                        |               |   |     |
| Stock-No.   | Capacity<br>mm                               | Opening<br>mm |   |     |
| 174- 80/3   | 80                                           | 80            | 1 | 445 |

## 240 Battery Service Tool Kit

**New!**



|             |                                       |
|-------------|---------------------------------------|
| Application | for battery maintenance and service   |
| Type        | Box made from heavy gauge sheet steel |

| Stock-No. | Contents                                                                                                                                                                                                                                                                                                                          |   |      |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| 240S13    | 100-10 x13mm O.E. Spanner<br>130MB-240 Waterpump Plier<br>174-50 Terminal Puller<br>252 Terminal Brush<br>259 Battery Taper Pin Reamer<br>270 Battery Testing Unit<br>277 Battery Acid Tester<br>2 x 278 Battery Plastic Bottles<br>281 Cable Knife<br>287 Battery Acid Filler<br>475 Battery Nut Plier<br>639-IS 150 Screwdriver | 1 | 4700 |

## 270 Battery Tester



|             |                                                 |
|-------------|-------------------------------------------------|
| Application | to test 6 and 12 Volt batteries up to 1000 CCA  |
| Type        | with easy to read display, for up to 100 Ampere |

| Stock-No. |   |      |  |
|-----------|---|------|--|
| 270       | 1 | 1220 |  |

## 231 Battery Terminal Plier



|             |                                                                                |
|-------------|--------------------------------------------------------------------------------|
| Application | for pulling off battery terminals and for loosening the screwed cable glands   |
| Type        | nickel plated, cushion grip handles with open end spanner size 10 mm and 13 mm |
| Material    | high grade tool steel, claw C 45, Code No. 1.0305                              |

| Stock-No. | mm  |   | g   |
|-----------|-----|---|-----|
| 231       | 260 | 1 | 475 |

## 475 Battery Nut Plier



|          |                                           |
|----------|-------------------------------------------|
| Type     | chrome plated                             |
| Material | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |

| Stock-No. | mm  |   | g   |
|-----------|-----|---|-----|
| 475       | 200 | 1 | 215 |

## 332 Electronic Surge Protection Unit-Anti Peak



|             |                                                                                                        |
|-------------|--------------------------------------------------------------------------------------------------------|
| Application | to protect all vehicle electronics from voltage surge - no need to remove the battery when welding     |
| Type        | electronics fully encapsulated in plastic, waterproof and shockproof, heavy duty fully insulated clips |

| Stock-No. |                            |   | g   |
|-----------|----------------------------|---|-----|
| 332-12V   | suitable for 12V batteries | 1 | 700 |
| 332-24V   | suitable for 24V batteries | 1 | 700 |

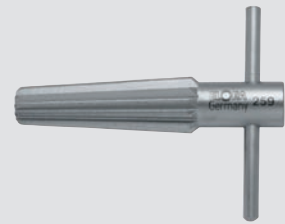
## 252 Battery Terminal Brush



|             |                                |
|-------------|--------------------------------|
| Application | for cleaning battery terminals |
| Type        | in plastic box                 |

| Stock-No. | mm  |    | g  |
|-----------|-----|----|----|
| 252       | 120 | 10 | 58 |

## 259 Battery Taper Pin Reamer



|             |                                             |
|-------------|---------------------------------------------|
| Application | for cleaning battery terminals              |
| Type        | tempered                                    |
| Material    | high grade tool steel C 45, Code No. 1.0305 |

| Stock-No. | mm  |   | g   |
|-----------|-----|---|-----|
| 259       | 100 | 1 | 108 |

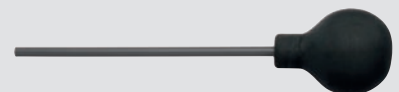
## 277 Battery Acid Tester



|             |                                                                          |
|-------------|--------------------------------------------------------------------------|
| Application | for testing the acid density, for conventional batteries with screw caps |
| Type        | with areometer                                                           |

| Stock-No. | mm  |   | g  |
|-----------|-----|---|----|
| 277       | 350 | 1 | 68 |

## 287 Battery Acid Filler



|             |                                                    |
|-------------|----------------------------------------------------|
| Application | for filling conventional batteries with screw caps |
| Type        | acid-resistant, with rubber ball and PVC tube      |

| Stock-No. | mm  |   | g  |
|-----------|-----|---|----|
| 287       | 150 | 1 | 40 |

## 278 Battery Plastic Bottle



|             |                     |
|-------------|---------------------|
| Application | for distilled water |
| Material    | plastic             |

| Stock-No. | Contents ccm |   | g  |
|-----------|--------------|---|----|
| 278       | 1000         | 1 | 54 |

## Pullers

### 173 Standard Puller



| Application | for internal and external pulling                                 |            |   |        |  |
|-------------|-------------------------------------------------------------------|------------|---|--------|--|
| Type        | 2 legs, heavy-duty pattern, with reversible legs, silver-coloured |            |   |        |  |
| Material    | high grade tool steel                                             |            |   |        |  |
| Stock-No.   | Spread mm                                                         | Opening mm |   | kg     |  |
| 173- 80     | 80                                                                | 90         | 1 | 1,010  |  |
| 173- 130    | 130                                                               | 90         | 1 | 1,165  |  |
| 173- 160    | 160                                                               | 150        | 1 | 2,885  |  |
| 173- 200    | 200                                                               | 150        | 1 | 3,360  |  |
| 173- 250    | 250                                                               | 200        | 1 | 6,980  |  |
| 173- 350    | 350                                                               | 200        | 1 | 7,930  |  |
| 173- 520    | 520                                                               | 200        | 1 | 13,000 |  |
| 173- 640    | 640                                                               | 225        | 1 | 13,405 |  |

### 173K Twin Leg Pullers, with KRALLX legs



**New!**

| Application | Turn legs for internal and external pulling          |            |   |       |  |
|-------------|------------------------------------------------------|------------|---|-------|--|
| Type        | Twin legs, with extreme flat and narrow legs, silver |            |   |       |  |
| Material    | high grade tool Steel                                |            |   |       |  |
| Stock-No.   | Spread mm                                            | Opening mm |   | kg    |  |
| 173K- 80    | 80                                                   | 100        | 1 | 1,000 |  |
| 173K-130    | 130                                                  | 100        | 1 | 1,200 |  |
| 173K-160    | 160                                                  | 150        | 1 | 2,900 |  |
| 173K-200    | 200                                                  | 150        | 1 | 2,900 |  |

### 327 Universal Three Leg Pullers



**New!**

| Application | Turn legs for internal and external pulling |            |   |       |  |
|-------------|---------------------------------------------|------------|---|-------|--|
| Type        | Three legs. Heavy execution, silver         |            |   |       |  |
| Material    | high grade tool Steel                       |            |   |       |  |
| Stock-No.   | Spread mm                                   | Opening mm |   | kg    |  |
| 327- 80     | 80                                          | 100        | 1 | 1,300 |  |
| 327-130     | 130                                         | 100        | 1 | 1,500 |  |
| 327-160     | 160                                         | 150        | 1 | 3,500 |  |
| 327-200     | 200                                         | 150        | 1 | 3,900 |  |

### 327K Three Leg Pullers, with KRALLX legs



**New!**

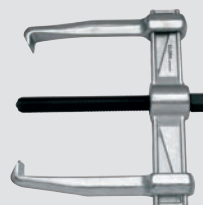
| Application | Turn legs for internal and external pulling           |            |   |       |  |
|-------------|-------------------------------------------------------|------------|---|-------|--|
| Type        | Three legs, with extreme flat and narrow legs, silver |            |   |       |  |
| Material    | high grade tool Steel                                 |            |   |       |  |
| Stock-No.   | Spread mm                                             | Opening mm |   | kg    |  |
| 327K- 80    | 80                                                    | 100        | 1 | 1,300 |  |
| 327K-130    | 130                                                   | 100        | 1 | 1,500 |  |
| 327K-160    | 160                                                   | 150        | 1 | 3,500 |  |
| 327K-200    | 200                                                   | 150        | 1 | 3,900 |  |

### 173S Puller Set



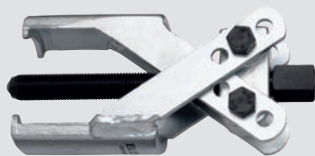
| Application | for internal and external pulling                                                                                                                          |   |      |  |  |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|--|--|
| Type        | with 3 reversible pairs of legs, heavy-duty pattern, silver-coloured                                                                                       |   |      |  |  |
| Material    | high grade tool steel                                                                                                                                      |   |      |  |  |
| Stock-No.   | Contents                                                                                                                                                   |   | kg   |  |  |
| 173S        | 1 Bridge, Spread 130 mm<br>1 Spindle, Thread length 135 mm<br>2 Puller legs, Spread 100 mm<br>2 Puller legs, Spread 200 mm<br>2 Puller legs, Spread 250 mm | 1 | 7,98 |  |  |

### 317 Standard Puller



| Application | for internal and external pulling                            |            |   |     |  |
|-------------|--------------------------------------------------------------|------------|---|-----|--|
| Type        | 2 legs, light pattern, with reversible legs, silver-coloured |            |   |     |  |
| Material    | high grade tool steel                                        |            |   |     |  |
| Stock-No.   | Spread mm                                                    | Opening mm |   | kg  |  |
| 317- 80     | 80                                                           | 100        | 1 | 1,0 |  |
| 317- 120    | 120                                                          | 100        | 1 | 1,3 |  |
| 317- 160    | 160                                                          | 150        | 1 | 2,0 |  |
| 317- 200    | 200                                                          | 150        | 1 | 3,0 |  |
| 317- 250    | 250                                                          | 200        | 1 | 6,5 |  |
| 317- 350    | 350                                                          | 200        | 1 | 8,0 |  |

## 322 Puller



| Application | for external pulling                                    |                 |   |     |
|-------------|---------------------------------------------------------|-----------------|---|-----|
| Type        | 2 legs, with extra pointed legs and extreme small shaft |                 |   |     |
| Stock-No.   | Spread min.-max.                                        | Reach min.-max. |   |     |
| 322- 100    | 6 – 100                                                 | 70 – 85         | 1 | 0,4 |
| 322- 140    | 10 – 140                                                | 85 – 120        | 1 | 1,2 |

## 320 Puller



| Application | for pulling off ball bearings, gears, etc.                                                                                                                                    |            |   |       |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---|-------|
| Type        | 3 legs, heavy-duty pattern, silver-coloured, puller legs to be used on both sides: one side with wide, the other side with narrow hooks, 320-200: wide hooks, one end slotted |            |   |       |
| Material    | high grade tool steel                                                                                                                                                         |            |   |       |
| Stock-No.   | Spread mm                                                                                                                                                                     | Opening mm |   |       |
| 320- 150    | 150                                                                                                                                                                           | 80         | 1 | 1,170 |
| 320- 200    | 200                                                                                                                                                                           | 130        | 1 | 2,760 |

## 172 Puller



| Application | for pulling off ball bearings, gears, etc.                                                                                                                                    |            |   |       |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---|-------|
| Type        | 2 legs, heavy-duty pattern, silver-coloured, puller legs to be used on both sides: one side with wide, the other side with narrow hooks, 172-200: wide hooks, one end slotted |            |   |       |
| Material    | high grade tool steel                                                                                                                                                         |            |   |       |
| Stock-No.   | Spread mm                                                                                                                                                                     | Opening mm |   |       |
| 172- 150    | 150                                                                                                                                                                           | 80         | 1 | 0,910 |
| 172- 200    | 200                                                                                                                                                                           | 130        | 1 | 1,955 |

## 177 Puller



| Application | for pulling off ball bearings, gears, etc.               |            |   |        |
|-------------|----------------------------------------------------------|------------|---|--------|
| Type        | 3 legs, heavy-duty pattern, wide spread, silver-coloured |            |   |        |
| Material    | high grade tool steel                                    |            |   |        |
| Stock-No.   | Spread mm                                                | Opening mm |   |        |
| 177- 100    | 100                                                      | 85         | 1 | 0,500  |
| 177- 200    | 200                                                      | 150        | 1 | 1,300  |
| 177- 250    | 250                                                      | 220        | 1 | 3,300  |
| 177- 300    | 300                                                      | 240        | 1 | 7,200  |
| 177- 350    | 350                                                      | 350        | 1 | 8,000  |
| 177- 400    | 400                                                      | 400        | 1 | 8,735  |
| 177- 450    | 450                                                      | 450        | 1 | 9,800  |
| 177- 500    | 500                                                      | 500        | 1 | 10,945 |

## 176 Puller



| Type      | 2 legs, heavy-duty pattern, wide spread, silver-coloured |            |   |       |
|-----------|----------------------------------------------------------|------------|---|-------|
| Material  | high grade tool steel                                    |            |   |       |
| Stock-No. | Spread mm                                                | Opening mm |   |       |
| 176- 100  | 100                                                      | 85         | 1 | 0,300 |
| 176- 200  | 200                                                      | 150        | 1 | 1,000 |
| 176- 250  | 250                                                      | 220        | 1 | 2,500 |
| 176- 300  | 300                                                      | 240        | 1 | 5,145 |
| 176- 350  | 350                                                      | 350        | 1 | 5,880 |
| 176- 400  | 400                                                      | 400        | 1 | 6,300 |
| 176- 450  | 450                                                      | 450        | 1 | 6,530 |
| 176- 500  | 500                                                      | 500        | 1 | 6,790 |

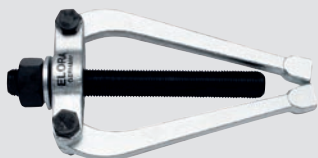
## 372 Internal Race & Bearing Extractor



| Application | for pulling off ball bearings, etc., to be used with internal race extractor puller Stock-No. 373 |   |      |
|-------------|---------------------------------------------------------------------------------------------------|---|------|
| Type        | black, polished                                                                                   |   |      |
| Material    | high grade tool steel                                                                             |   |      |
| Stock-No.   | for Ø mm                                                                                          |   |      |
| 372- 5      | 5 – 7                                                                                             | 1 | 50   |
| 372- 7      | 7 – 9                                                                                             | 1 | 50   |
| 372- 10     | 10 – 13                                                                                           | 1 | 50   |
| 372- 14     | 14 – 19                                                                                           | 1 | 90   |
| 372- 20     | 20 – 25                                                                                           | 1 | 110  |
| 372- 25     | 25 – 30                                                                                           | 1 | 120  |
| 372- 30     | 30 – 37                                                                                           | 1 | 280  |
| 372- 38     | 38 – 45                                                                                           | 1 | 290  |
| 372- 40     | 40 – 75                                                                                           | 1 | 760  |
| 372- 70     | 70 – 115                                                                                          | 1 | 1400 |



## 373 Internal Race Extractor Puller



| Application | for internal race extractor Stock-No. 372 |   |     |
|-------------|-------------------------------------------|---|-----|
| Type        | silver-coloured                           |   |     |
| Material    | high grade tool steel                     |   |     |
| Stock-No.   | for extractor No.                         |   | kg  |
| 373- 5      | 372-5 to 372-38                           | 1 | 0,7 |
| 373- 35     | 372-40                                    | 1 | 1,5 |
| 373- 70     | 372-40-115                                | 1 | 3,7 |

## 372S9 Puller Set



**New!**

| Application | for bores from 10 – 70 mm                                                    |   |     |
|-------------|------------------------------------------------------------------------------|---|-----|
| Type        | in black metal case                                                          |   |     |
| Stock-No.   | Contents<br>1 piece of each                                                  |   | kg  |
| 372 S9      | 372-10; 372-14; 372-20;<br>372-25; 372-30; 372-38;<br>372-40; 373- 5; 373-35 | 1 | 6,8 |

## 372S13 Puller Set



**New!**

| Type      | in black metal box                                                                                                          |   |      |
|-----------|-----------------------------------------------------------------------------------------------------------------------------|---|------|
| Stock-No. | Contents<br>1 piece of each                                                                                                 |   | kg   |
| 372 S13   | 173-80; 173-160; 372-10;<br>372-14; 372-20; 372-25;<br>372-30; 372-38; 372-40;<br>373-5; 373-35; 174-50;<br>1 pulling chuck | 1 | 15,4 |

## 324S9 Windscreen Wiper Arm Pulling Set



**New!**

| Application | For pulling off Windscreen Wiper Arms and Rear Window Wiper Arms at: Alfa-Romeo, Audi, BMW, Citroen, Fiat, Ford, Honda, MB, Opel, Peugeot, Renault, Saab, Seat, Skoda, Volvo, VW. Tabel of use is inserted in the Set. |   |     |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Type        | Silver in black plastic suitcase                                                                                                                                                                                       |   |     |
| Material    | high grade tool Steel                                                                                                                                                                                                  |   |     |
| Stock-No.   | Contents                                                                                                                                                                                                               |   | kg  |
| 324S9       | 1 Bridge with spindle<br>1 Bridge with hammer<br>7 Gripper                                                                                                                                                             | 1 | 2,5 |

## 325+326 Separator with Tapered Blades



|             |                                                      |
|-------------|------------------------------------------------------|
| Application | for pulling off ball bearings, roller bearings, etc. |
| Type        | silver-coloured                                      |
| Material    | high grade tool steel                                |

| Stock-No. | Ø<br>mm | for separator<br>No. |   | <br>kg |
|-----------|---------|----------------------|---|--------|
| 325- 60   | 60      | 326 – 45             | 1 | 0,3    |
| 325- 75   | 75      | 326 – 45             | 1 | 0,6    |
| 325- 115  | 115     | 326 – 80             | 1 | 1,7    |
| 325- 150  | 150     | 326 – 100            | 1 | 3,9    |

| Stock-No. | Spread min.-max. | <br>mm |   | <br>kg |
|-----------|------------------|--------|---|--------|
| 326- 45   | 45 – 130         | 150    | 1 | 1,0    |
| 326- 80   | 80 – 210         | 200    | 1 | 3,3    |
| 326- 100  | 100 – 300        | 300    | 1 | 6,0    |

## 325S Puller/Separator Set



| Stock-No. | Contents<br>1 piece of each    |   | <br>kg |
|-----------|--------------------------------|---|--------|
| 325S- 60  | 325-60; 326-45;<br>extension   | 1 | 3,0    |
| 325S- 80  | 325-75; 326-45;<br>extension   | 1 | 4,0    |
| 325S- 100 | 325-115; 326-80;<br>extension  | 1 | 9,0    |
| 325S- 150 | 325-150; 326-100;<br>extension | 1 | 15,0   |

## 178 Stud Extractor



|             |                                           |
|-------------|-------------------------------------------|
| Application | for left and right hand threaded studs    |
| Type        | chrome plated, with 22 mm hexagon drive   |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |

| Stock-No. | for studs Ø<br>mm |   | <br>kg |
|-----------|-------------------|---|--------|
| 178- 15   | 7 – 15            | 1 | 0,275  |
| 178- 22   | 8 – 22            | 1 | 0,425  |
| 178- 28   | 17 – 28           | 1 | 0,530  |

## 178-20 Stud Extractor



|             |                                           |
|-------------|-------------------------------------------|
| Application | for left and right hand threaded studs    |
| Type        | chrome plated, with 22 mm hexagon drive   |
| Material    | Chrome-Vanadium 31 CrV 3, Code No. 1.2208 |

| Stock-No. | for studs Ø<br>mm |   | <br>kg |
|-----------|-------------------|---|--------|
| 178- 20   | 4 – 20            | 1 | 0,300  |

## 310 Mechanical Nut Splitter



| Application | for stuck or overturned nuts up to class 6 |   |     |
|-------------|--------------------------------------------|---|-----|
| Type        | silver-coloured                            |   |     |
| Material    | high grade tool steel                      |   |     |
| Stock-No.   | for nuts<br>mm                             |   | g   |
| 310- 10     | up to 10                                   | 1 | 150 |
| 310- 17     | up to 17                                   | 1 | 230 |
| 310- 24     | up to 24                                   | 1 | 290 |
| 310- 36     | up to 36                                   | 1 | 500 |

## 315 Hydraulic Nut Splitter



| Application | for stuck or overturned nuts up to class 10 |   |     |
|-------------|---------------------------------------------|---|-----|
| Type        | zinc plated                                 |   |     |
| Material    | high grade tool steel C 45, Code No. 1.0503 |   |     |
| Stock-No.   | for nuts<br>mm                              |   | g   |
| 315         | size 7 – 22                                 | 1 | 795 |

## 316 Hydraulic Nut Splitter



| Application | for stuck or overturned nuts up to class 10 |   |      |
|-------------|---------------------------------------------|---|------|
| Type        | gun metal finish                            |   |      |
| Material    | high grade tool steel C 45, Code No. 1.0503 |   |      |
| Stock-No.   | for nuts<br>mm                              |   | kg   |
| 316         | size 22 – 36                                | 1 | 3,84 |

## 350 Screw Extractor



| Application | for the removal of broken screws and bolts with right turn thread |                          |     |    |     |
|-------------|-------------------------------------------------------------------|--------------------------|-----|----|-----|
| Type        | polished                                                          |                          |     |    |     |
| Material    | Chrome-Vanadium 58 CrV 4, Code No. 1.8161                         |                          |     |    |     |
| Stock-No.   | mm                                                                | for screwdrivers<br>mm M | mm  |    | g   |
| 350- 6      | 1,4 – 3,6                                                         | 3 – 6                    | 50  | 12 | 4   |
| 350- 8      | 2,1 – 4,9                                                         | 6 – 8                    | 57  | 12 | 6   |
| 350- 11     | 3,1 – 6,5                                                         | 8 – 11                   | 64  | 12 | 14  |
| 350- 14     | 4,8 – 8,8                                                         | 11 – 14                  | 71  | 6  | 26  |
| 350- 18     | 6,2 – 11,0                                                        | 14 – 18                  | 79  | 6  | 46  |
| 350- 24     | 9,4 – 15,0                                                        | 18 – 24                  | 85  | 6  | 92  |
| 350- 33     | 12,7 – 19,0                                                       | 24 – 33                  | 92  | 6  | 160 |
| 350- 45     | 17,5 – 24,0                                                       | 33 – 45                  | 100 | 6  | 290 |
| 350- 52     | 24,0 – 31,0                                                       | 45 – 52                  | 112 | 6  | 550 |
| 350- 64     | 31,0 – 39,0                                                       | 52 – 64                  | 122 | 1  | 980 |

## 351S/ 352S/ 353S Screw Extractor Sets



| Type      | in blue plastic storage case                                 |   |     |
|-----------|--------------------------------------------------------------|---|-----|
| Stock-No. | Contents                                                     |   | g   |
| 351S 5    | 350-6, 350-8, 350-11, 350-14, 350-18                         | 1 | 120 |
| 352S 6    | 350-6, 350-8, 350-11, 350-14, 350-18, 350-24                 | 1 | 230 |
| 353S 8    | 350-6, 350-8, 350-11, 350-14, 350-18, 350-24, 350-33, 350-45 | 1 | 725 |

## 1300 Tool Kits



| Type         | in strong storage wallet                                              |   |   |     |    |
|--------------|-----------------------------------------------------------------------|---|---|-----|----|
| Stock-No.    | Contents                                                              |   |   |     |    |
|              | 1 piece of each                                                       |   |   |     | kg |
| <b>1300M</b> | <b>Double open-ended spanners</b>                                     | 1 | 1 | 3,8 |    |
|              | 100M- 8 × 9, 10 × 11, 12 × 13, 14 × 17, 19 × 22 mm                    |   |   |     |    |
|              | 222-16 × 20,8 Spark plug wrench                                       |   |   |     |    |
|              | 195-CV17 Four way wheel nut wrench                                    |   |   |     |    |
|              | 132-240 Waterpump plier                                               |   |   |     |    |
|              | 495-MB185 Combination plier                                           |   |   |     |    |
|              | 645-IS100 Profi engineers screwdriver                                 |   |   |     |    |
|              | 657-PH 2 Profi screwdriver for cross slot screws                      |   |   |     |    |
|              | 1665-300 Engineers hammer                                             |   |   |     |    |
|              | 260-150 Flat cold chisel                                              |   |   |     |    |
|              | 265-12 Centre punch                                                   |   |   |     |    |
|              | 249 Contact file                                                      |   |   |     |    |
|              | 251 Spark plug cleaning brush                                         |   |   |     |    |
| <b>1300A</b> | <b>Double open-ended spanners</b>                                     | 1 |   | 3,8 |    |
|              | 100A- 5/16 × 3/8; 7/16 × 1/2; 9/16 × 5/8; 11/16 × 3/4; 13/16 × 7/8 AF |   |   |     |    |
|              | 222-16 × 20,8 Spark plug wrench                                       |   |   |     |    |
|              | 195-CV17 Four way wheel nut wrench                                    |   |   |     |    |
|              | 132-240 Waterpump plier                                               |   |   |     |    |
|              | 495-MB185 Combination plier                                           |   |   |     |    |
|              | 645-IS100 Profi engineers screwdriver                                 |   |   |     |    |
|              | 657-PH 2 Profi screwdriver for cross slot screws                      |   |   |     |    |
|              | 1665-300 Engineers hammer                                             |   |   |     |    |
|              | 260-150 Flat cold chisel                                              |   |   |     |    |
|              | 265-12 Centre punch                                                   |   |   |     |    |
|              | 249 Contact file                                                      |   |   |     |    |
|              | 251 Spark plug cleaning brush                                         |   |   |     |    |

## 1301 Tool Kits



| Type         | in strong storage wallet                                              |   |  |     |    |
|--------------|-----------------------------------------------------------------------|---|--|-----|----|
| Stock-No.    | Contents                                                              |   |  |     |    |
|              | 1 piece of each                                                       |   |  |     | kg |
| <b>1301M</b> | <b>Double open-ended spanners</b>                                     | 1 |  | 2,6 |    |
|              | 100M- 8 × 9, 10 × 11, 12 × 13, 14 × 17, 19 × 22 mm                    |   |  |     |    |
|              | 222-16 × 20,8 Spark plug wrench                                       |   |  |     |    |
|              | 132-240 Four way wheel nut wrench                                     |   |  |     |    |
|              | 495-MB185 Combination plier                                           |   |  |     |    |
|              | 645-IS100 Profi engineers screwdriver                                 |   |  |     |    |
|              | 657-PH 2 Profi screwdriver for cross slot screws                      |   |  |     |    |
|              | 1665-300 Engineers hammer                                             |   |  |     |    |
|              | 260-150 Flat cold chisel                                              |   |  |     |    |
|              | 265-12 Centre punch                                                   |   |  |     |    |
|              | 249 Contact file                                                      |   |  |     |    |
|              | 251 Spark plug cleaning brush                                         |   |  |     |    |
| <b>1301A</b> | <b>Double open-ended spanners</b>                                     | 1 |  | 2,6 |    |
|              | 100A- 5/16 × 3/8; 7/16 × 1/2; 9/16 × 5/8; 11/16 × 3/4; 13/16 × 7/8 AF |   |  |     |    |
|              | 222-16 × 20,8 Spark plug wrench                                       |   |  |     |    |
|              | 132-240 Four way wheel nut wrench                                     |   |  |     |    |
|              | 495-MB185 Combination plier                                           |   |  |     |    |
|              | 645-IS100 Profi engineers screwdriver                                 |   |  |     |    |
|              | 657-PH 2 Profi screwdriver for cross slot screws                      |   |  |     |    |
|              | 1665-300 Engineers hammer                                             |   |  |     |    |
|              | 260-150 Flat cold chisel                                              |   |  |     |    |
|              | 265-12 Centre punch                                                   |   |  |     |    |
|              | 249 Contact file                                                      |   |  |     |    |
|              | 251 Spark plug cleaning brush                                         |   |  |     |    |

## 1302 Tool Kit



| Type         | in strong storage wallet                         |   |  |     |    |
|--------------|--------------------------------------------------|---|--|-----|----|
| Stock-No.    | Contents                                         |   |  |     |    |
|              | 1 piece of each                                  |   |  |     | kg |
| <b>1302M</b> | <b>Double open-ended spanners</b>                | 1 |  | 2,9 |    |
|              | 100M- 7 × 8, 10 × 12, 13 × 14, 17 × 19, mm       |   |  |     |    |
|              | 229-16 × 100 Spark plug wrench                   |   |  |     |    |
|              | 132-240 Waterpump plier                          |   |  |     |    |
|              | 495-MB185 Combination plier                      |   |  |     |    |
|              | 645-IS125 Profi engineers screwdriver            |   |  |     |    |
|              | 645-IS 75 Profi engineers screwdriver            |   |  |     |    |
|              | 657-PH 2 Profi screwdriver for cross slot screws |   |  |     |    |
|              | 249 Contact file                                 |   |  |     |    |
|              | 251 Spark plug cleaning brush                    |   |  |     |    |







## EVERYTHING FOR THE FINISHING TOUCH – ELORA TOOLS FOR COURSE AND FINE APPLICATION

As we come to the end of the catalogue it should begin to dawn on you – as 2 new inspection lamps as well as a new handlamp will illuminate the working place. However, before this you should notice the new 2 component safety knives as well as endoscopes for automotive and industry.

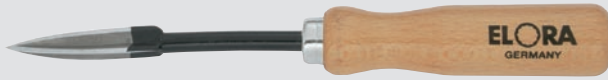
### SCRAPER, FILES, SAWS, BRUSHES, MISCELLANEOUS

13



Scrapers

272 Three Square Curved Bearing Scraper



| Type      | lacquered, blade ground, wooden handle |                                                                                   |                                                                                     |  |
|-----------|----------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
| Material  | high grade tool steel                  |                                                                                   |                                                                                     |  |
| Stock-No. | Blade length<br>mm                     |  |  g |  |
| 272- 100  | 100                                    | 6                                                                                 | 65                                                                                  |  |
| 272- 125  | 125                                    | 6                                                                                 | 70                                                                                  |  |
| 272- 150  | 150                                    | 6                                                                                 | 92                                                                                  |  |
| 272- 175  | 175                                    | 6                                                                                 | 110                                                                                 |  |
| 272- 200  | 200                                    | 6                                                                                 | 145                                                                                 |  |
| 272- 250  | 250                                    | 6                                                                                 | 175                                                                                 |  |
| 272- 300  | 300                                    | 6                                                                                 | 230                                                                                 |  |

273 Curved Bearing Scraper



| Type      | lacquered, blade ground, wooden handle |                                                                                     |                                                                                       |  |
|-----------|----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| Material  | high grade tool steel                  |                                                                                     |                                                                                       |  |
| Stock-No. | Blade length<br>mm                     |  |  g |  |
| 273- 100  | 100                                    | 6                                                                                   | 64                                                                                    |  |
| 273- 125  | 125                                    | 6                                                                                   | 84                                                                                    |  |
| 273- 150  | 150                                    | 6                                                                                   | 94                                                                                    |  |
| 273- 175  | 175                                    | 6                                                                                   | 118                                                                                   |  |
| 273- 200  | 200                                    | 6                                                                                   | 130                                                                                   |  |
| 273- 250  | 250                                    | 6                                                                                   | 200                                                                                   |  |
| 273- 300  | 300                                    | 6                                                                                   | 280                                                                                   |  |

274 Three Square Hollow Ground Scraper



| Type      | lacquered, blade ground, wooden handle |                                                                                     |                                                                                       |  |
|-----------|----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| Material  | high grade tool steel                  |                                                                                     |                                                                                       |  |
| Standard  | according to DIN 8350, form C          |                                                                                     |                                                                                       |  |
| Stock-No. | Blade length<br>mm                     |  |  g |  |
| 274- 80   | 80                                     | 6                                                                                   | 35                                                                                    |  |
| 274- 100  | 100                                    | 6                                                                                   | 68                                                                                    |  |
| 274- 125  | 125                                    | 6                                                                                   | 74                                                                                    |  |
| 274- 150  | 150                                    | 6                                                                                   | 104                                                                                   |  |
| 274- 175  | 175                                    | 6                                                                                   | 114                                                                                   |  |
| 274- 200  | 200                                    | 6                                                                                   | 140                                                                                   |  |
| 274- 250  | 250                                    | 6                                                                                   | 195                                                                                   |  |
| 274- 300  | 300                                    | 6                                                                                   | 220                                                                                   |  |

275 Three Square Flat Ground Scraper



| Type      | lacquered, blade ground, wooden handle |                                                                                     |                                                                                       |  |
|-----------|----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| Material  | high grade tool steel                  |                                                                                     |                                                                                       |  |
| Standard  | according to DIN 8350, form B          |                                                                                     |                                                                                       |  |
| Stock-No. | Blade length<br>mm                     |  |  g |  |
| 275- 100  | 100                                    | 6                                                                                   | 56                                                                                    |  |
| 275- 125  | 125                                    | 6                                                                                   | 68                                                                                    |  |
| 275- 150  | 150                                    | 6                                                                                   | 104                                                                                   |  |
| 275- 175  | 175                                    | 6                                                                                   | 130                                                                                   |  |
| 275- 200  | 200                                    | 6                                                                                   | 180                                                                                   |  |
| 275- 250  | 250                                    | 6                                                                                   | 215                                                                                   |  |
| 275- 300  | 300                                    | 6                                                                                   | 325                                                                                   |  |

276 Mill Blunt Scraper



| Type      | lacquered, blade ground, wooden handle |                                                                                       |                                                                                         |  |
|-----------|----------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--|
| Material  | high grade tool steel                  |                                                                                       |                                                                                         |  |
| Standard  | according to DIN 8350, form A          |                                                                                       |                                                                                         |  |
| Stock-No. | Blade length<br>mm                     |  |  g |  |
| 276- 100  | 100                                    | 6                                                                                     | 92                                                                                      |  |
| 276- 125  | 125                                    | 6                                                                                     | 96                                                                                      |  |
| 276- 150  | 150                                    | 6                                                                                     | 130                                                                                     |  |
| 276- 175  | 175                                    | 6                                                                                     | 190                                                                                     |  |
| 276- 200  | 200                                    | 6                                                                                     | 210                                                                                     |  |
| 276- 250  | 250                                    | 6                                                                                     | 265                                                                                     |  |
| 276- 300  | 300                                    | 6                                                                                     | 350                                                                                     |  |

290 Scraper



|             |                                                    |                    |                                                                                       |                                                                                            |  |
|-------------|----------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--|
| Application | for removal of waste on washers and gaskets        |                    |                                                                                       |                                                                                            |  |
| Type        | blade ground, with impact resistant plastic handle |                    |                                                                                       |                                                                                            |  |
| Material    | high grade tool steel                              |                    |                                                                                       |                                                                                            |  |
| Stock-No.   |                                                    | Blade length<br>mm |  | <br>g |  |
| 290         | straight                                           | 155                | 6                                                                                     | 115                                                                                        |  |
| 290- 80     | straight                                           | 80                 | 6                                                                                     | 65                                                                                         |  |
| 290- 80G    | cranked                                            | 60                 | 6                                                                                     | 65                                                                                         |  |

## Engineers Files

according to DIN 7261/ISO R 234

### 246 Engineers File, Flat Pattern



| Type       | without handle                          |                    |     |   |     |
|------------|-----------------------------------------|--------------------|-----|---|-----|
| Standard   | according to DIN 7261, form A/ISO R 234 |                    |     |   |     |
| Stock-No.  | Cut                                     | Blade length<br>mm |     |   | g   |
| 246- 1×150 | Bastard                                 | Cut 1              | 150 | 6 | 65  |
| 246- 1×200 | Bastard                                 | Cut 1              | 200 | 6 | 165 |
| 246- 1×250 | Bastard                                 | Cut 1              | 250 | 6 | 275 |
| 246- 1×300 | Bastard                                 | Cut 1              | 300 | 6 | 410 |
| 246- 2×150 | Second                                  | Cut 2              | 150 | 6 | 65  |
| 246- 2×200 | Second                                  | Cut 2              | 200 | 6 | 165 |
| 246- 2×250 | Second                                  | Cut 2              | 250 | 6 | 275 |
| 246- 2×300 | Second                                  | Cut 2              | 300 | 6 | 410 |
| 246- 3×150 | Smooth                                  | Cut 3              | 150 | 6 | 65  |
| 246- 3×200 | Smooth                                  | Cut 3              | 200 | 6 | 165 |
| 246- 3×250 | Smooth                                  | Cut 3              | 250 | 6 | 275 |
| 246- 3×300 | Smooth                                  | Cut 3              | 300 | 6 | 410 |

### 247 Engineers File, Half Round Pattern



| Type       | without handle                          |                    |     |   |     |
|------------|-----------------------------------------|--------------------|-----|---|-----|
| Standard   | according to DIN 7261, form E/ISO R 234 |                    |     |   |     |
| Stock-No.  | Cut                                     | Blade length<br>mm |     |   | g   |
| 247- 1×150 | Bastard                                 | Cut 1              | 150 | 6 | 59  |
| 247- 1×200 | Bastard                                 | Cut 1              | 200 | 6 | 133 |
| 247- 1×250 | Bastard                                 | Cut 1              | 250 | 6 | 243 |
| 247- 1×300 | Bastard                                 | Cut 1              | 300 | 6 | 400 |
| 247- 2×150 | Second                                  | Cut 2              | 150 | 6 | 59  |
| 247- 2×200 | Second                                  | Cut 2              | 200 | 6 | 133 |
| 247- 2×250 | Second                                  | Cut 2              | 250 | 6 | 243 |
| 247- 2×300 | Second                                  | Cut 2              | 300 | 6 | 400 |
| 247- 3×150 | Smooth                                  | Cut 3              | 150 | 6 | 59  |
| 247- 3×200 | Smooth                                  | Cut 3              | 200 | 6 | 133 |
| 247- 3×250 | Smooth                                  | Cut 3              | 250 | 6 | 243 |
| 247- 3×300 | Smooth                                  | Cut 3              | 300 | 6 | 400 |

### 248 Engineers File, Round Pattern



| Type       | without handle                          |                    |     |   |     |
|------------|-----------------------------------------|--------------------|-----|---|-----|
| Standard   | according to DIN 7261, form F/ISO R 234 |                    |     |   |     |
| Stock-No.  | Cut                                     | Blade length<br>mm |     |   | g   |
| 248- 1×150 | Bastard                                 | Cut 1              | 150 | 6 | 26  |
| 248- 1×200 | Bastard                                 | Cut 1              | 200 | 6 | 66  |
| 248- 1×250 | Bastard                                 | Cut 1              | 250 | 6 | 135 |
| 248- 2×150 | Second                                  | Cut 2              | 150 | 6 | 26  |
| 248- 2×200 | Second                                  | Cut 2              | 200 | 6 | 66  |
| 248- 2×250 | Second                                  | Cut 2              | 250 | 6 | 135 |
| 248- 3×150 | Smooth                                  | Cut 3              | 150 | 6 | 26  |
| 248- 3×200 | Smooth                                  | Cut 3              | 200 | 6 | 66  |
| 248- 3×250 | Smooth                                  | Cut 3              | 250 | 6 | 135 |

### 207 Engineers File, Three Square Pattern



| Type       | without handle                          |                    |     |   |     |
|------------|-----------------------------------------|--------------------|-----|---|-----|
| Standard   | according to DIN 7261, form C/ISO R 234 |                    |     |   |     |
| Stock-No.  | Cut                                     | Blade length<br>mm |     |   | g   |
| 207- 1×150 | Bastard                                 | Cut 1              | 150 | 6 | 60  |
| 207- 1×200 | Bastard                                 | Cut 1              | 200 | 6 | 148 |
| 207- 1×250 | Bastard                                 | Cut 1              | 250 | 6 | 309 |
| 207- 2×150 | Second                                  | Cut 2              | 150 | 6 | 60  |
| 207- 2×200 | Second                                  | Cut 2              | 200 | 6 | 148 |
| 207- 2×250 | Second                                  | Cut 2              | 250 | 6 | 309 |
| 207- 3×150 | Smooth                                  | Cut 3              | 150 | 6 | 60  |
| 207- 3×200 | Smooth                                  | Cut 3              | 200 | 6 | 148 |
| 207- 3×250 | Smooth                                  | Cut 3              | 250 | 6 | 309 |

### 208 Engineers File, Square Pattern



| Type       | without handle                          |                    |     |   |     |
|------------|-----------------------------------------|--------------------|-----|---|-----|
| Standard   | according to DIN 7261, form D/ISO R 234 |                    |     |   |     |
| Stock-No.  | Cut                                     | Blade length<br>mm |     |   | g   |
| 208- 1×150 | Bastard                                 | Cut 1              | 150 | 6 | 30  |
| 208- 1×200 | Bastard                                 | Cut 1              | 200 | 6 | 86  |
| 208- 1×250 | Bastard                                 | Cut 1              | 250 | 6 | 159 |
| 208- 2×150 | Second                                  | Cut 2              | 150 | 6 | 30  |
| 208- 2×200 | Second                                  | Cut 2              | 200 | 6 | 86  |
| 208- 2×250 | Second                                  | Cut 2              | 250 | 6 | 159 |
| 208- 3×150 | Smooth                                  | Cut 3              | 150 | 6 | 30  |
| 208- 3×200 | Smooth                                  | Cut 3              | 200 | 6 | 86  |
| 208- 3×250 | Smooth                                  | Cut 3              | 250 | 6 | 159 |

## 1344 Rasp



| Type       | halfround, w / o handle |     |   |     |  |
|------------|-------------------------|-----|---|-----|--|
| Standard   | acc. to DIN 7263 C      |     |   |     |  |
| Stock-No.  | Cut                     | mm  |   | g   |  |
| 1344-1×200 | 1                       | 200 | 6 | 136 |  |
| 1344-2×200 | 2                       | 200 | 6 | 136 |  |
| 1344-1×250 | 1                       | 250 | 6 | 245 |  |
| 1344-2×250 | 2                       | 250 | 6 | 245 |  |

## 1345 Rasp



| Type       | flat, w / o handle |     |   |     |  |
|------------|--------------------|-----|---|-----|--|
| Standard   | acc. to DIN 7263 A |     |   |     |  |
| Stock-No.  | Cut                | mm  |   | g   |  |
| 1345-2×200 | 2                  | 200 | 6 | 154 |  |
| 1345-2×250 | 2                  | 250 | 6 | 296 |  |

## 1346 Rasp



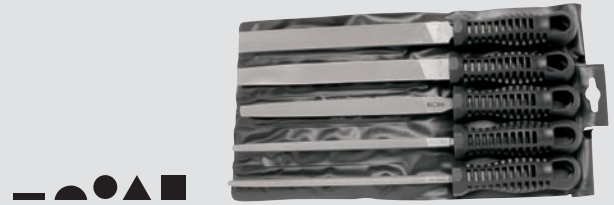
| Type       | round, w / o handle |     |   |     |  |
|------------|---------------------|-----|---|-----|--|
| Standard   | acc. to DIN 7263 E  |     |   |     |  |
| Stock-No.  | Cut                 | mm  |   | g   |  |
| 1346-2×200 | 2                   | 200 | 6 | 78  |  |
| 1346-2×250 | 2                   | 250 | 6 | 217 |  |

## 255 File Handle



| Type      | for Engineers files Stock-No. 246, 247, 248, 207, 208 |     |   |    |  |
|-----------|-------------------------------------------------------|-----|---|----|--|
| Material  | H: Wood, K: Plastic                                   |     |   |    |  |
| Stock-No. | for Blade length                                      | mm  |   | g  |  |
| 255H- 100 | 150/200 mm                                            | 100 | 6 | 28 |  |
| 255H- 120 | 250 mm                                                | 120 | 6 | 41 |  |
| 255H- 140 | 300 mm                                                | 140 | 6 | 56 |  |
| 255K- 90  | 150 mm                                                | 90  | 6 | 22 |  |
| 255K- 110 | 200/250 mm                                            | 110 | 6 | 36 |  |
| 255K- 125 | 300 mm                                                | 130 | 6 | 42 |  |

## 209 Engineers File Set



| Type      | files with plastic handles, in vinyl storage wallet                     |   |     |  |
|-----------|-------------------------------------------------------------------------|---|-----|--|
| Standard  | according to DIN 7261                                                   |   |     |  |
| Stock-No. | Contents<br>1 piece of each                                             |   | g   |  |
| 209 SSK   | 207-2 × 200<br>208-2 × 200<br>246-2 × 200<br>247-2 × 200<br>248-2 × 200 | 1 | 780 |  |

## 250FB File Cleaning Brush



| Material  | Wood            |     |   |    |
|-----------|-----------------|-----|---|----|
| Stock-No. | Wire fill<br>mm | mm  |   | g  |
| 250 FB    | 250 × 40        | 250 | 6 | 80 |

## Contact, Warding and Thread Restoring Files

### 249 Contact File



| Application | for spark plugs |    |   |  |
|-------------|-----------------|----|---|--|
| Stock-No.   | mm              |    | g |  |
| 249         | 150 × 8 × 0,8   | 12 | 8 |  |

### 249S Contact File Set



| Type      | 6 contact files in vinyl storage wallet |   |    |  |
|-----------|-----------------------------------------|---|----|--|
| Stock-No. | mm                                      |   | g  |  |
| 249- S6   | 150 × 8 × 0,8                           | 6 | 75 |  |

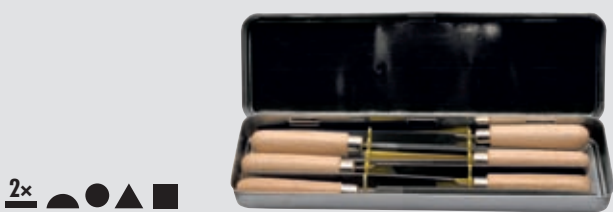
## 254S-K Warding File Set



2x

| Type      | 6 warding files in vinyl storage wallet |     |   |     |
|-----------|-----------------------------------------|-----|---|-----|
| Standard  | according to DIN 7283, form A-F         |     |   |     |
| Stock-No. |                                         | mm  |   | g   |
| 254 S- HK | with wooden handles                     | 100 | 6 | 115 |
| 254 S- KK | with plastic handles                    | 100 | 6 | 115 |

## 254S-B Warding File Set



2x

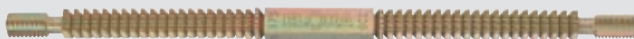
| Type      | 6 warding files in metal storage case |     |   |     |
|-----------|---------------------------------------|-----|---|-----|
| Standard  | according to DIN 7283, form A-F       |     |   |     |
| Stock-No. |                                       | mm  |   | g   |
| 254 S- HB | with wooden handles                   | 100 | 6 | 160 |
| 254 S- KB | with plastic handles                  | 100 | 6 | 160 |

## 1347 Needle File Set



| Type       | in plastic wallet |     |   |    |
|------------|-------------------|-----|---|----|
| Stock-No.  | Cut               | mm  |   | g  |
| 1347-S 140 | 2                 | 140 | 6 | 50 |
| 1347-S 160 | 2                 | 160 | 6 | 65 |

## 258 Thread Restoring File



| Application | to restore and clean internal or external threads (ISO SI-WW-SAE-GAS) |     |   |     |
|-------------|-----------------------------------------------------------------------|-----|---|-----|
| Stock-No.   | Thread type                                                           | mm  |   | g   |
| 258 MM      | 0,80—1,00—1,25<br>1,50—1,75—2,00<br>2,50—3,00 mm (ISO)                | 230 | 6 | 130 |
| 258 AF      | 24—20—18—16<br>14—13—12—11<br>Lead 1" (UNF, UNC)                      | 230 | 6 | 130 |
| 258 WW      | 24—20—18—16<br>14—12—11—10<br>Lead 1" (BSW-BSF)                       | 230 | 6 | 130 |

## Hacksaw Frames and Blades

### 189 Hacksaw Frame



| Application | for hacksaw blades with 250 mm (10") and 300 mm (12") length |     |   |     |
|-------------|--------------------------------------------------------------|-----|---|-----|
| Type        | adjustable, incl. 1 blade 300 mm (12")                       |     |   |     |
| Standard    | similar to DIN 6473, form B                                  |     |   |     |
| Stock-No.   | adjustable mm                                                | mm  |   | g   |
| 189         | 200 / 300                                                    | 420 | 1 | 530 |

### 189-P Hacksaw



| Application | for hacksaw blades with 300 mm (12") length                            |   |     |  |
|-------------|------------------------------------------------------------------------|---|-----|--|
| Type        | blade can be adjusted in 6 positions, easy adjustment of blade tension |   |     |  |
| Material    | hand and front grip made from aluminium pressure casting               |   |     |  |
| Stock-No.   | mm                                                                     |   | g   |  |
| 189-P       | 425                                                                    | 1 | 560 |  |

### 189M Hacksaw Frame



| Application | for hacksaw blades with 300 mm (12") length                        |     |   |     |
|-------------|--------------------------------------------------------------------|-----|---|-----|
| Type        | heavy steel frame, lacquered, with fixed wooden handle, with blade |     |   |     |
| Material    | high grade tool steel                                              |     |   |     |
| Standard    | according to DIN 6473, form A                                      |     |   |     |
| Stock-No.   | Blade length mm                                                    | mm  |   | g   |
| 189M        | 300                                                                | 520 | 1 | 800 |



## 189WSE / 189SSE Hacksaw Blade, Single Edged

| Material  | WSE: high grade tool steel with 0,95 % C, SSE: speed steel |     |      |    |
|-----------|------------------------------------------------------------|-----|------|----|
| Standard  | according to DIN 6494, form A, single edged, 24 teeth/inch |     |      |    |
| Stock-No. | Material                                                   | mm  | inch | g  |
| 189- WSE  | high grade tool steel with 0,95 % C                        | 300 | 12   | 12 |
| 189- SSE  | speed steel                                                | 300 | 12   | 30 |

## 189WSD / 189SSD Hacksaw Blade, Double Edged

| Material  | WSD: high grade tool steel with 0,95 % C, SSD: speed steel |     |      |    |
|-----------|------------------------------------------------------------|-----|------|----|
| Standard  | according to DIN 6494, form B, double edged, 24 teeth/inch |     |      |    |
| Stock-No. | Material                                                   | mm  | inch | g  |
| 189- WSD  | high grade tool steel with 0,95 % C                        | 300 | 12   | 12 |
| 189- SSD  | speed steel                                                | 300 | 12   | 46 |

## 189K Flexible Wire Saw

| Application | for round and square cut              |      |    |    |
|-------------|---------------------------------------|------|----|----|
| Type        | with eyes for use with hacksaw frames |      |    |    |
| Stock-No.   | mm                                    | inch | g  |    |
| 189- K      | 300                                   | 12   | 12 | 10 |

## 257 Puk Hacksaw



| Application | for saw blades and wire saws with 150 mm length                                                                                                   |   |     |  |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|--|
| Type        | F: with fixed wooden handle and saw blade Stock-No. 257-S<br>A: with adjust. wooden handle and saw blade Stock-No. 257-S, in vinyl storage wallet |   |     |  |
| Stock-No.   | mm                                                                                                                                                |   | g   |  |
| 257- A      | 190 (opened 310)                                                                                                                                  | 6 | 141 |  |
| 257- F      | 285                                                                                                                                               | 6 | 100 |  |

## 257-50 Puk Hacksaw



| Application | for saw blades and wire saws with 150 mm length                        |     |   |     |
|-------------|------------------------------------------------------------------------|-----|---|-----|
| Type        | zinc plated, reinforced plastic handle, with saw blade Stock-No. 257-S |     |   |     |
| Stock-No.   | mm                                                                     |     | g |     |
| 257- 50     | Capacity 50 mm                                                         | 250 | 6 | 170 |

## 257-55 Puk Hacksaw



| Application | for saw blades and wire saws with 150 mm length                        |     |   |     |
|-------------|------------------------------------------------------------------------|-----|---|-----|
| Type        | zinc plated, reinforced plastic handle, with saw blade Stock-No. 257-S |     |   |     |
| Stock-No.   | mm                                                                     |     | g |     |
| 257- 55     | Capacity 50 mm                                                         | 255 | 6 | 160 |

## 257-110 Puk Hacksaw



| Application | for saw blades and wire saws with 150 mm length                        |     |   |     |
|-------------|------------------------------------------------------------------------|-----|---|-----|
| Type        | zinc plated, reinforced plastic handle, with saw blade Stock-No. 257-S |     |   |     |
| Stock-No.   | mm                                                                     |     | g |     |
| 257- 110    | Capacity 110 mm                                                        | 255 | 6 | 213 |

## 257-S/K Hacksaw Blade and Flexible Wire Saw

| Application | for use with Puk Hacksaws Stock-No. 257-...               |            |               |     |    |    |
|-------------|-----------------------------------------------------------|------------|---------------|-----|----|----|
| Type        | Industry quality, special hardened, with eyes             |            |               |     |    |    |
| Stock-No.   | Pitch                                                     | Teeth/inch | Application   | mm  |    | g  |
| 257- S      | 1,0 mm                                                    | 25         | Universal     | 150 | 12 | 3  |
| 257- S32    | 0,8 mm                                                    | 32         | Metal         | 150 | 12 | 3  |
| 257- S50    | 0,5 mm                                                    | 50         | Metal, smooth | 150 | 12 | 3  |
| 257- S14    | 1,8 mm                                                    | 14         | Wood          | 150 | 12 | 3  |
| Stock-No.   | Contents                                                  |            |               |     |    | g  |
| 257-PS      | 3 pieces of each blade 257-S, S32, S50, S14 in carton box |            |               |     | 1  | 58 |
| Stock-No.   | Application                                               | mm         |               | g   |    |    |
| 257-K       | flexible wire saw                                         | Universal  | 150           | 12  | 4  |    |

## Brushes

### 250 Steel Wire Brush



| Type      | bent form                      |             |     |   |       |
|-----------|--------------------------------|-------------|-----|---|-------|
| Material  | wood, tempered steel wire fill |             |     |   |       |
| Stock-No. | Wire fill<br>mm                | No. of rows | mm  |   | <br>g |
| 250- 3    | 145                            | 3rows       | 295 | 6 | 50    |
| 250- 4    | 145                            | 4rows       | 295 | 6 | 66    |
| 250- 5    | 145                            | 5rows       | 295 | 6 | 68    |
| 250- 6    | 145                            | 6rows       | 295 | 6 | 70    |

### 251 Spark Plug Cleaning Brush



| Application | to clean spark plugs              |     |    |       |  |
|-------------|-----------------------------------|-----|----|-------|--|
| Material    | wood, with dense bronze wire fill |     |    |       |  |
| Stock-No.   | Wire fill<br>mm                   | mm  |    | <br>g |  |
| 251         | 45x18                             | 200 | 12 | 32    |  |

### 293 Wire Scratch Brush



| Type      | slim, bent form, with plastic handle |   |       |  |  |
|-----------|--------------------------------------|---|-------|--|--|
| Material  | steel wire fill                      |   |       |  |  |
| Stock-No. | mm                                   |   | <br>g |  |  |
| 293       | 265                                  | 6 | 80    |  |  |

### 2850 Knot Cup Brush



| Application | for removal of rust, paint and dirt, for roughening, deburring etc. |   |       |
|-------------|---------------------------------------------------------------------|---|-------|
| Type        | with M14 thread, steel wire 0.5 mm                                  |   |       |
| Stock-No.   | Brush Ø<br>mm                                                       |   | <br>g |
| 2850        | 65                                                                  | 1 | 280   |

### 2855 Knot Wheel Brush



| Application | for removal of rust, paint and dirt, for roughening, deburring etc. |   |       |
|-------------|---------------------------------------------------------------------|---|-------|
| Type        | with adapter 22,2 mm, steel wire 0.5 mm                             |   |       |
| Stock-No.   | Brush Ø<br>mm                                                       |   | <br>g |
| 2855        | 115                                                                 | 1 | 295   |

### 2860 Knot Conical Brush



| Application | for removal of rust, paint and dirt, for roughening, deburring etc. |   |       |
|-------------|---------------------------------------------------------------------|---|-------|
| Type        | with M14 thread, hardened steel wire 0.5 mm                         |   |       |
| Stock-No.   | Brush Ø<br>mm                                                       |   | <br>g |
| 2860        | 100                                                                 | 1 | 225   |

### 2865 Cup Brush



| Application | for removal of rust, paint and dirt, for roughening, deburring etc. |   |       |
|-------------|---------------------------------------------------------------------|---|-------|
| Type        | with M14 thread, hardened steel wire 0.3 mm                         |   |       |
| Stock-No.   | Brush Ø<br>mm                                                       |   | <br>g |
| 2865        | 60                                                                  | 1 | 140   |

## Knives

### 281-B Hacking or Lead Knife



| Type      | with wooden handle |    |                                                                                   |                                                                                     |
|-----------|--------------------|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Stock-No. | Blade length<br>mm | mm |  |  g |
| 281-B     | 70                 | 90 | 6                                                                                 | 50                                                                                  |

### 281T Safety Knife



| Features  | fixed blade, with 1 trapezoidal blade Stock-No. 281-TK 52 |                                                                                     |                                                                                       |  |
|-----------|-----------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| Type      | heavy duty pattern, black lacquered                       |                                                                                     |                                                                                       |  |
| Material  | Aluminium pressure casting                                |                                                                                     |                                                                                       |  |
| Stock-No. | mm                                                        |  |  g |  |
| 281-T     | 140                                                       | 6                                                                                   | 120                                                                                   |  |

### 281U Safety Knife



| Features  | adjustable to 3 cut depths, blade to be dropped in handle, with 1 trapezoidal blade Stock-No. 281-TK 52 |                                                                                     |                                                                                       |  |
|-----------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| Type      | heavy duty pattern, black lacquered                                                                     |                                                                                     |                                                                                       |  |
| Material  | Aluminium pressure casting                                                                              |                                                                                     |                                                                                       |  |
| Stock-No. | mm                                                                                                      |  |  g |  |
| 281-U     | 160                                                                                                     | 6                                                                                   | 170                                                                                   |  |

### 281S Automatic Safety Knife



| Features  | with drop-back automatic when releasing the button, with 1 trapezoidal blade Stock-No. 281-TK 52 |                                                                                     |                                                                                       |  |
|-----------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| Type      | heavy duty pattern, black lacquered                                                              |                                                                                     |                                                                                       |  |
| Material  | Aluminium pressure casting                                                                       |                                                                                     |                                                                                       |  |
| Stock-No. | mm                                                                                               |  |  g |  |
| 281-S     | 170                                                                                              | 6                                                                                   | 160                                                                                   |  |

### 281-K1 Safety Knife



| Features  | Fixed blade, incl. trapezoidal blade Stock-No. 281-TK 60                       |                                                                                     |                                                                                       |
|-----------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type      | heavy duty ergonomical design, black lacquered, with plastic, with belt holder |                                                                                     |                                                                                       |
| Material  | Aluminium pressure casting                                                     |                                                                                     |                                                                                       |
| Stock-No. | mm                                                                             |  |  g |
| 281-K1    | 170                                                                            | 6                                                                                   | 280                                                                                   |

### 281-K2 Safety Knife



| Features  | adjustable to 3 cutting depths, blade to be handle dropped complete in handle, incl. trapezoidal blade Stock-No. 281-TK 60 |                                                                                       |                                                                                         |
|-----------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Type      | heavy duty ergonomical design, black lacquered, with plastic, with belt holder                                             |                                                                                       |                                                                                         |
| Material  | Aluminium pressure casting                                                                                                 |                                                                                       |                                                                                         |
| Stock-No. | mm                                                                                                                         |  |  g |
| 281-K2    | 190                                                                                                                        | 6                                                                                     | 325                                                                                     |

### 281-KA 18 Safety Cutter



| Features  | with guidance and safety locking, 3 spare blades Stock-No. 281-PK |                                                                                       |                                                                                         |
|-----------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Type      | heavy duty ergonomical design, black lacquered, with plastic      |                                                                                       |                                                                                         |
| Material  | Aluminium pressure casting                                        |                                                                                       |                                                                                         |
| Stock-No. | mm                                                                |  |  g |
| 281-KA 18 | Safety Cutter                                                     | 180                                                                                   | 220                                                                                     |
| 281-PK    | 10 Spare Blades                                                   | 110                                                                                   | 65                                                                                      |

### 281TK/HK Blades for Safety Knives



|             |                                         |                                                                                       |                                                                                       |                                                                                       |  |
|-------------|-----------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| Application | for Safety Knives Stock-No. 281-T, U, S |                                                                                       |                                                                                       |                                                                                       |  |
| Type        | Industry quality, blades ice hardened   |                                                                                       |                                                                                       |                                                                                       |  |
| Stock-No.   | Blade type                              |  |  |  |  |
|             |                                         | mm                                                                                    |                                                                                       | g                                                                                     |  |
| 281TK- 52   | 5 trapezoidal blades                    | 52                                                                                    | 1                                                                                     | 12                                                                                    |  |
| 281TK- 60   | 5 trapezoidal blades                    | 60                                                                                    | 1                                                                                     | 20                                                                                    |  |
| 281HK- 52   | 5 Hook blades                           | 52                                                                                    | 1                                                                                     | 12                                                                                    |  |

281C Cutter



| Features  | with metal guidance and safety locking, blade width 9 mm |     |                                                                                   |                                                                                        |
|-----------|----------------------------------------------------------|-----|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Type      | Industry quality, blades ice hardened                    |     |                                                                                   |                                                                                        |
| Stock-No. |                                                          | mm  |  | <br>g |
| 281- C    | Cutter                                                   | 135 | 6                                                                                 | 19                                                                                     |
| 281- CK   | 10 spare blades                                          | 85  | 1                                                                                 | 25                                                                                     |

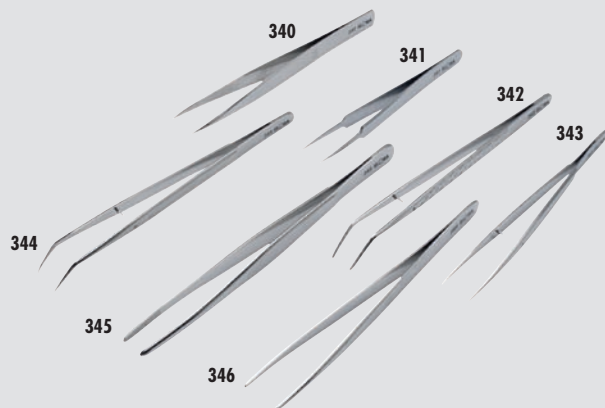
281P Cutter



| Features  | with metal guidance and safety locking, with two spare blades, blade width 18 mm |     |                                                                                     |                                                                                          |
|-----------|----------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Type      | Industry quality, blades ice hardened                                            |     |                                                                                     |                                                                                          |
| Stock-No. |                                                                                  | mm  |  | <br>g |
| 281- P    | Cutter                                                                           | 160 | 6                                                                                   | 85                                                                                       |
| 281- PK   | 10 spare blades                                                                  | 110 | 1                                                                                   | 65                                                                                       |

Tweezers, Oil Cans and Miscellaneous

340-346 Precision Tweezers



| Type      | polished                          |     |                                                                                     |                                                                                          |
|-----------|-----------------------------------|-----|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Material  | high grade tool steel             |     |                                                                                     |                                                                                          |
| Stock-No. |                                   | mm  |  | <br>g |
| 340       | fine points, hardened             | 130 | 6                                                                                   | 18                                                                                       |
| 341       | straight, finest points, hardened | 105 | 6                                                                                   | 14                                                                                       |
| 342       | bent, serrated points, with pin   | 155 | 6                                                                                   | 20                                                                                       |
| 343       | serrated points, with pin         | 130 | 6                                                                                   | 16                                                                                       |
| 344       | bent, serrated points, with pin   | 155 | 6                                                                                   | 20                                                                                       |
| 345       | blunt, heavy pattern, serrated    | 160 | 6                                                                                   | 30                                                                                       |
| 346       | blunt, medium pattern, serrated   | 140 | 6                                                                                   | 20                                                                                       |

242.. Oil Can



| Stock-No.  | Material and Type                               | Contents ccm |  | <br>g |
|------------|-------------------------------------------------|--------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 242K- 60   | plastic body                                    | 60           | 6                                                                                   | 10                                                                                       |
| 242KM- 125 | plastic body, with adjustable brass angle spout | 125          | 6                                                                                   | 40                                                                                       |
| 242KM- 250 | plastic body, with adjustable brass angle spout | 250          | 6                                                                                   | 60                                                                                       |
| 242B- 250  | steel body, with feed pump                      | 250          | 1                                                                                   | 200                                                                                      |

242B-500 Oil Can



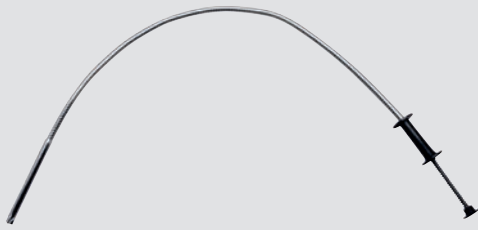
| Stock-No. | Material | Contents |  | <br>g |
|-----------|----------|----------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 242B-500  | Metal    | 500 ml   | 1                                                                                     | 220                                                                                        |

385 Lever Grease Gun



| Application | for all applications    |                                                                                       |                                                                                            |  |
|-------------|-------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--|
| Type        | with tube and connector |                                                                                       |                                                                                            |  |
| Stock-No.   | Contents ccm            |  | <br>g |  |
| 385         | 500                     | 1                                                                                     | 1750                                                                                       |  |

## 291 Pick-Up Tool



| Application | for pick-up of parts up to 14 mm Ø |   |     |
|-------------|------------------------------------|---|-----|
| Type        | Shaft Ø 7 mm, with flexible shaft  |   |     |
| Stock-No.   | mm                                 |   | g   |
| 291- 525    | 525                                | 6 | 115 |
| 291- 1000   | 1000                               | 6 | 220 |

## 237 Flexible Magnetic Pick-Up Tool



| Type      | with QUATROLIT® handle |          |     |   |     |
|-----------|------------------------|----------|-----|---|-----|
| Stock-No. | picking up g           | Magnet Ø | mm  |   | g   |
| 237- 220  | 220                    | 4        | 440 | 6 | 36  |
| 237- 500  | 500                    | 6        | 470 | 6 | 75  |
| 237- 1800 | 1800                   | 12       | 545 | 6 | 220 |
| 237- 3000 | 3000                   | 16       | 550 | 6 | 285 |

## 295 Flexible Shaft Inspection Mirror



| Type      | with square mirror and QUATROLIT® handle |   |     |
|-----------|------------------------------------------|---|-----|
| Stock-No. | mm                                       |   | g   |
| 295       | 600                                      | 1 | 330 |

## 296 Inspection Mirror



| Type      | with round mirror and illumination, in wooden box |   |     |
|-----------|---------------------------------------------------|---|-----|
| Stock-No. | mm                                                |   | g   |
| 296       | 500 – 1000                                        | 1 | 755 |

## 297 Inspection Set



|             |                                                                                                                  |                                                                                           |                                                                                     |                                                                                          |
|-------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Application | to find screws, bolts and similar parts in awkward areas                                                         |                                                                                           |                                                                                     |                                                                                          |
| Type        | magnet picks up to 2.5 kg, with telescope shaft, mirror 45 × 65 mm, with telescope shaft, in plastic storage box |                                                                                           |                                                                                     |                                                                                          |
| Stock-No.   | Contents                                                                                                         | <br>mm |  | <br>g |
| 297         | Magnet                                                                                                           | 180 – 720                                                                                 | 1                                                                                   | 280                                                                                      |
|             | Mirror                                                                                                           | 210 – 700                                                                                 |                                                                                     |                                                                                          |

## 298 Inspection Set



| Application | to find screws, bolts and similar parts in awkward areas                   |   |     |
|-------------|----------------------------------------------------------------------------|---|-----|
| Type        | handle with telescope shaft and quick change chuck, in plastic storage box |   |     |
| Stock-No.   | Contents                                                                   |   | g   |
| 298         | Telescope handle, 210 – 700 mm length                                      | 1 | 260 |
|             | Magnet, Ø 15 mm, 2,5 kg capacity                                           |   |     |
|             | Magnet, Ø 8 mm, 1,0 kg capacity                                            |   |     |
|             | Mirror 45 × 65 mm                                                          |   |     |
|             | Magnifying glass 45 × 65 mm                                                |   |     |

## 299 Inspection Lamp



| Application | for easy search in awkward places        |     |  |
|-------------|------------------------------------------|-----|--|
| Type        | lamp with flexible shaft and accessories |     |  |
| Stock-No.   |                                          | g   |  |
| 299         | 1                                        | 256 |  |



**333** Inspection Lamp in Pen Design



| Application | for easy search in awkward places                                                           |    |   |    |
|-------------|---------------------------------------------------------------------------------------------|----|---|----|
| Type        | with long-life light, incl. 3AAA batteries, in pen design with isolation, in plastic wallet |    |   |    |
| Stock-No.   | mm                                                                                          | mm |   | g  |
| <b>333</b>  | 165                                                                                         | 10 | 1 | 50 |

**1320** Endoscope



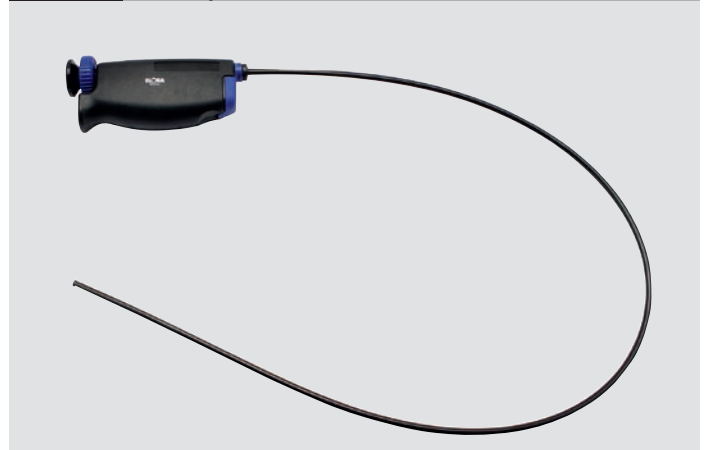
| Application     | for industry and various applications, suitable for small holes as small as 1mm                                                                 |            |   |     |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------|---|-----|
| Type            | flexible cable (fibre glass technic) with integrated lamp for illumination of dark locations, lamp is operated by 2 AA batteries (not included) |            |   |     |
| Stock-No.       | length of cable mm                                                                                                                              | Cable Ø mm |   | g   |
| <b>1320-450</b> | 450                                                                                                                                             | 10,8       | 1 | 227 |
| <b>1320-900</b> | 900                                                                                                                                             | 10,8       | 1 | 284 |

**334** Low Voltage Lamp



| Application     | for use on low voltage power source                                                                                                                                      |   |  |     |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|-----|
| Type            | with on/off switch, chrome plated housing, domed polycarbonate lens, oil and heat resistant handle, with isolated crocodile clips for battery terminal, approx. 7m cable |   |  |     |
| Stock-No.       |                                                                                                                                                                          |   |  | g   |
| <b>334-12V</b>  | for use on 12V low voltage power source                                                                                                                                  | 1 |  | 970 |
| <b>334-24V</b>  | for use on 24V low voltage power source                                                                                                                                  | 1 |  | 970 |
| <b>334E-12V</b> | spare bulb - suitable for Stock-No. 331-12V                                                                                                                              | 1 |  | 10  |
| <b>334E-24V</b> | spare bulb - suitable for Stock-No. 331-24V                                                                                                                              | 1 |  | 10  |

**1325** Endoscope



| Application     | for all kind of vehicles, suitable for small holes as small as 6mm                                                                              |            |   |     |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------|---|-----|
| Type            | flexible cable (fibre glass technic) with integrated lamp for illumination of dark locations, lamp is operated by 2 AA batteries (not included) |            |   |     |
| Stock-No.       | length of cable mm                                                                                                                              | Cable Ø mm |   | g   |
| <b>1325-450</b> | 450                                                                                                                                             | 5,8        | 1 | 153 |
| <b>1325-900</b> | 900                                                                                                                                             | 5,8        | 1 | 165 |

# Conversion Table of Metric, American and British Sizes for Spanner Openings and Thread Diameters

| Metric Sizes                         |                                                   |                                               |                                               |                                     |               |                  |                  |                  |               |                | American Sizes                       |                |                  |                    |                               |                       |                      |                       |              |                       |                                                            | British Sizes                  |                                      |                 |                |                  |
|--------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------------------------|---------------|------------------|------------------|------------------|---------------|----------------|--------------------------------------|----------------|------------------|--------------------|-------------------------------|-----------------------|----------------------|-----------------------|--------------|-----------------------|------------------------------------------------------------|--------------------------------|--------------------------------------|-----------------|----------------|------------------|
| Spanner Openings                     |                                                   |                                               |                                               | Threads                             |               |                  |                  | Spanner Openings |               |                | Threads                              |                |                  |                    |                               |                       |                      |                       | Threads      |                       | Spanner Openings                                           |                                |                                      |                 |                |                  |
|                                      |                                                   |                                               |                                               | Metric Sizes<br>acc. to DIN ISO 272 |               |                  | ISO R272<br>1968 |                  |               |                | French Stan-<br>dards                | ISO R272 1962  |                  | United<br>Standard | American Standard B 18.2.1972 |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
|                                      |                                                   |                                               |                                               |                                     |               |                  |                  |                  |               |                |                                      |                |                  |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| Nominal Size<br>= Size to be ordered | minimum size [mm]<br>acc. to DIN 475/2 or ISO 691 | maximum size [mm]<br>acc. to DIN 475/2, row 1 | maximum size [mm]<br>acc. to DIN 475/2, row 2 | standard hexagon                    | large hexagon | bolt with flange | nut with flange  | standard hexagon | small hexagon | NFE27-111-1930 | Nominal Size<br>= Size to be ordered | decimal - inch | decimal - metric | Bolts              | Nuts                          | normal series BS 1768 | heavy series BS 1769 | finished thick series | heavy series | regular square series | finished and regular bolt serie<br>hexagon head cap screws | finished and heavy bolt series | Nominal Size<br>= Size to be ordered | BS 916, BS 1083 | decimal - inch | decimal - metric |
|                                      |                                                   |                                               |                                               |                                     |               |                  |                  |                  |               |                |                                      |                |                  |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 1,5                                  |                                                   |                                               |                                               |                                     |               |                  |                  |                  |               |                | 1/16                                 | .0625          | 1,59             |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 2,0                                  | 2,02                                              | 2,08                                          |                                               |                                     |               |                  |                  |                  |               |                | 5/64                                 | .0781          | 1,98             |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 2,5                                  | 2,52                                              | 2,58                                          |                                               |                                     |               |                  |                  |                  |               |                | 3/32                                 | .0938          | 2,38             |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 3                                    | 3,02                                              | 3,08                                          |                                               | 1,0                                 |               |                  |                  |                  |               |                | 7/64                                 | .1094          | 2,78             |                    |                               |                       |                      |                       |              |                       |                                                            |                                | 108A                                 |                 | .117           | 2,97             |
| 3,2                                  | 3,22                                              | 3,28                                          |                                               | 1,6                                 |               |                  |                  | 1,6              |               |                | 1/8                                  | .1250          | 3,18             | No. 2              |                               |                       |                      |                       |              |                       |                                                            |                                | 98A                                  |                 | .131           | 3,33             |
| 3,5                                  | 3,52                                              | 3,60                                          |                                               |                                     |               |                  |                  |                  |               |                | 9/64                                 | .1406          | 3,57             |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 4                                    | 4,02                                              | 4,12                                          |                                               | 2                                   |               |                  |                  | 2                |               | 2,5            | 5/32                                 | .1563          | 3,97             |                    | No. 0, 1                      |                       |                      |                       |              |                       |                                                            |                                | 88A                                  |                 | .152           | 3,86             |
| 4,5                                  | 4,52                                              | 4,62                                          |                                               |                                     |               |                  |                  |                  |               |                | 3/16                                 | .1875          | 4,76             | No. 3,4,5          | No. 2, 3                      |                       |                      |                       |              |                       |                                                            |                                | 78A                                  |                 | .172           | 4,37             |
| 5                                    | 5,02                                              | 5,12                                          |                                               | 2,5                                 |               |                  |                  | 2,5              |               | 3              | 13/64                                | .2031          | 5,16             |                    |                               |                       |                      |                       |              |                       |                                                            |                                | 68A                                  |                 | .193           | 4,90             |
| 5,5                                  | 5,52                                              | 5,62                                          |                                               | 3                                   |               |                  |                  | 3                |               |                | 7/32                                 | .2188          | 5,56             |                    |                               |                       |                      |                       |              |                       |                                                            |                                | 58A                                  |                 | .220           | 5,59             |
| 6                                    | 6,03                                              | 6,15                                          |                                               |                                     |               |                  |                  |                  |               | 3,5            | 15/64                                | .2344          | 5,95             |                    |                               |                       |                      |                       |              |                       |                                                            |                                | 48A                                  |                 | .248           | 6,30             |
|                                      |                                                   |                                               |                                               |                                     |               |                  |                  |                  |               |                | 1/4                                  | .2500          | 6,35             | No. 6, 8           | No. 4                         |                       |                      |                       |              |                       |                                                            |                                | 1/16                                 | 3/32            | .256           | 6,50             |
| 7                                    | 7,03                                              | 7,15                                          |                                               | 4                                   |               | 5                |                  | 4                |               | 4+4,5          | 17/64                                | .2656          | 6,75             |                    |                               |                       |                      |                       |              |                       |                                                            |                                | 38A                                  |                 | .282           | 7,16             |
|                                      |                                                   |                                               |                                               |                                     |               |                  |                  |                  |               |                | 9/32                                 | .2813          | 7,14             |                    |                               |                       |                      |                       |              |                       | No. 10                                                     |                                | 3/32                                 | .297            | 7,54           |                  |
| 8                                    | 8,03                                              | 8,15                                          | 8,18                                          | 5                                   |               | 6                | 5                | 5                |               | 5              | 5/16                                 | .3125          | 7,94             | No. 10, 12         | No. 5, 6                      |                       |                      |                       |              |                       |                                                            |                                | 28A                                  |                 | .324           | 8,23             |
|                                      |                                                   |                                               |                                               |                                     |               |                  |                  |                  |               |                |                                      |                |                  |                    |                               |                       |                      |                       |              |                       |                                                            |                                | 1/8                                  | .340            | 8,64           |                  |
| 9                                    | 9,03                                              | 9,15                                          | 9,18                                          |                                     |               |                  |                  |                  |               | 5,5            | 11/32                                | .3438          | 8,73             |                    | No. 8                         |                       |                      |                       |              |                       |                                                            |                                | 18A                                  |                 | .365           | 9,27             |
|                                      |                                                   |                                               |                                               |                                     |               |                  |                  |                  |               |                |                                      |                |                  |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 10                                   | 10,04                                             | 10,19                                         | 10,24                                         | 6                                   |               | 8                | 6                | 6                |               | 6              | 3/8                                  | .3750          | 9,52             |                    | No. 10                        |                       |                      |                       |              |                       |                                                            |                                | 8A                                   |                 | .413           | 10,49            |
|                                      |                                                   |                                               |                                               |                                     |               |                  |                  |                  |               |                | 13/32                                | .4062          | 10,32            |                    |                               |                       |                      |                       |              |                       |                                                            |                                | 3/16                                 | 1/4             | .445           | 11,30            |
| 11                                   | 11,04                                             | 11,19                                         | 11,24                                         | 7                                   |               |                  |                  | 7                |               |                | 7/16                                 | .4375          | 11,11            | 1/4                | No.12 1/4                     | 1/4                   |                      | 1/4                   | 1/4          |                       | 1/4                                                        |                                | 1/4                                  | 5/16            | .525           | 13,33            |
| 12                                   | 12,04                                             | 12,24                                         | 12,30                                         |                                     |               |                  |                  |                  | 8             | 7              |                                      |                |                  |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 13                                   | 13,04                                             | 13,24                                         | 13,30                                         | 8                                   |               | 10               | 8                | 8                |               |                | 1/2                                  | .5000          | 12,70            | 5/16               | 5/16                          | 5/16                  |                      | 5/16                  |              | 1/4                   | 5/16                                                       |                                | 1/4                                  | 5/16            | .525           | 13,33            |
|                                      |                                                   |                                               |                                               |                                     |               |                  |                  |                  |               |                | 17/32                                | .5313          | 13,49            |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 14                                   | 14,05                                             | 14,27                                         | 14,35                                         |                                     |               |                  |                  |                  | 10            | 8              | 9/16                                 | .5625          | 14,29            | 3/8                | 3/8                           | 3/8                   |                      | 3/8                   | 5/16         | 5/16                  | 3/8                                                        |                                | 5/16                                 | 3/8             | .600           | 15,24            |
| 15                                   | 15,05                                             | 15,27                                         | 15,35                                         |                                     |               | 12               | 10               |                  |               |                | 19/32                                | .5938          | 15,08            |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 16                                   | 16,05                                             | 16,27                                         | 16,35                                         | 10                                  | ZK: M10+M14   |                  |                  |                  |               | 9              | 5/8                                  | .6250          | 15,87            | 7/16               |                               | 7/16                  |                      | 3/8                   |              | 7/16                  |                                                            |                                |                                      |                 |                |                  |
| 17                                   | 17,05                                             | 17,30                                         | 17,40                                         | 10                                  |               |                  |                  | 10               | 12            | 10             | 21/32                                | .6563          | 16,67            |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
|                                      |                                                   |                                               |                                               |                                     |               |                  |                  |                  |               |                | 11/16                                | .6875          | 17,46            |                    | 7/16                          |                       |                      | 7/16                  |              | 3/8                   |                                                            |                                |                                      |                 |                |                  |
| 18                                   | 18,05                                             | 18,30                                         | 18,40                                         | 12                                  | ZKM12         | 14               | 12               |                  |               |                | 3/4                                  | .7500          | 19,05            | 1/2                | 1/2                           | 1/2                   |                      | 1/2                   | 7/16         | 7/16                  | 1/2                                                        |                                | 3/8                                  | 7/16            | .710           | 18,03            |
| 19                                   | 19,06                                             | 19,36                                         | 19,46                                         |                                     |               |                  |                  | 12               | 14            | 11             | 25/32                                | .7813          | 19,84            |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 20                                   | 20,06                                             | 20,36                                         | 20,46                                         |                                     |               |                  |                  |                  |               |                | 13/16                                | .8125          | 20,64            | 9/16               |                               | 9/16                  |                      | 1/2                   |              | 9/16                  |                                                            |                                | 7/16                                 | 1/2             | .820           | 20,83            |
| *20,8                                | 20,86                                             | 21,16                                         | 21,26                                         |                                     | ZK: M14+M18   |                  |                  |                  |               |                |                                      |                |                  |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 21                                   | 21,06                                             | 21,36                                         | 21,46                                         | 14                                  | 12            | 16               | 14               |                  |               | 12             | 7/8                                  | .8750          | 22,22            |                    | 9/16                          |                       | 1/2                  | 9/16                  | 9/16         | 1/2                   |                                                            | 1/2                            | 9/16                                 | .920            | 23,37          |                  |
| 22                                   | 22,06                                             | 22,36                                         | 22,46                                         |                                     |               |                  |                  | 14               | 16            | 14             |                                      |                |                  |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 23                                   | 23,06                                             | 23,36                                         | 23,46                                         |                                     |               |                  |                  |                  |               |                | 15/16                                | .9375          | 23,81            | 5/8                | 5/8                           | 5/8                   |                      | 5/8                   |              | 9/16                  | 5/8                                                        |                                |                                      |                 |                |                  |
| 24                                   | 24,06                                             | 24,36                                         | 24,46                                         | 16                                  | 14            |                  | 16               | 16               | 18            |                | 31/32                                | .9688          | 24,61            |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 25                                   | 25,06                                             | 25,36                                         | 25,46                                         |                                     |               |                  |                  |                  |               |                | 1                                    | 1.0000         | 25,40            |                    |                               |                       |                      | 5/8                   |              |                       |                                                            |                                |                                      |                 |                |                  |
|                                      |                                                   |                                               |                                               |                                     |               |                  |                  |                  |               |                |                                      |                |                  |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 26                                   | 26,08                                             | 26,48                                         | 26,58                                         |                                     | ZK: M18       |                  |                  |                  |               | 16             | 1.1/16                               | 1.0625         | 26,99            |                    |                               |                       | 5/8                  |                       | 5/8          |                       | 5/8                                                        |                                | 9/16                                 | 5/8             | 1.010          | 25,65            |
| 27                                   | 27,08                                             | 27,48                                         | 27,58                                         | 18                                  | 16            | 20               |                  | 18               | 20            |                |                                      |                |                  |                    |                               |                       |                      |                       |              |                       |                                                            |                                | 5/8                                  | 11/16           | 1.100          | 27,94            |
| 28                                   | 28,08                                             | 28,48                                         | 28,58                                         |                                     |               |                  |                  |                  |               |                | 1.1/8                                | 1.1250         | 28,57            | 3/4                | 3/4                           | 3/4                   |                      | 3/4                   | 3/4          |                       | 3/4                                                        |                                |                                      |                 |                |                  |
| *29                                  | 29,08                                             | 29,48                                         | 29,58                                         |                                     |               |                  |                  |                  |               | 18             | 1.3/16                               | 1.1875         | 30,16            |                    |                               |                       |                      | 3/4                   | 3/4          |                       | 3/4                                                        |                                | 11/16                                | 3/4             | 1.200          | 30,48            |
| 30                                   | 30,08                                             | 30,48                                         | 30,58                                         | 20                                  | 18            |                  | 20               | 20               | 22            | 20             | 1.1/4                                | 1.2500         | 31,75            |                    |                               |                       |                      | 3/4                   |              | 3/4                   |                                                            | 3/4                            |                                      |                 |                |                  |
| 32                                   | 32,08                                             | 32,48                                         | 32,58                                         |                                     |               |                  |                  | 22               | 24            | 20             | 1.5/16                               | 1.3125         | 33,34            | 7/8                | 7/8                           | 7/8                   |                      | 7/8                   | 7/8          |                       | 7/8                                                        |                                | 3/4                                  | 7/8             | 1.300          | 33,02            |
| *33                                  | 33,08                                             | 33,48                                         | 33,58                                         |                                     |               |                  |                  |                  |               |                |                                      |                |                  |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 34                                   | 34,10                                             | 34,6                                          | 34,70                                         | 22                                  | 20            |                  |                  |                  |               | 22             | 1.3/8                                | 1.3750         | 34,92            |                    |                               |                       |                      |                       |              |                       |                                                            |                                | 13/16                                | 15/16           | 1.390          | 35,31            |
| *35                                  | 35,10                                             | 35,60                                         | 35,70                                         |                                     |               |                  |                  |                  |               |                | 1.7/16                               | 1.4375         | 36,51            |                    |                               |                       | 7/8                  |                       | 7/8          |                       | 7/8                                                        |                                | 7/8                                  | 1               | 1.480          | 37,59            |
| 36                                   | 36,10                                             | 36,60                                         | 36,70                                         | 24                                  | 22            |                  |                  | 24               | 27            |                | 1.1/2                                | 1.5000         | 38,1             | 1                  | 1                             | 1                     |                      | 1                     | 1            |                       | 1                                                          |                                |                                      |                 |                |                  |
| *38                                  | 38,10                                             | 38,60                                         | 38,70                                         |                                     |               |                  |                  |                  |               | 24             | 1.9/16                               | 1.5625         | 39,69            |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
|                                      |                                                   |                                               |                                               |                                     |               |                  |                  |                  |               |                | 1.5/8                                | 1.6250         | 41,28            |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 41                                   | 41,10                                             | 41,60                                         | 41,70                                         | 27                                  | 24            |                  |                  | 27               | 30            |                | 1.11/16                              | 1.6875         | 42,86            | 1.1/8              | 1.1/8                         | 1.1/8                 |                      | 1.1/8                 | 1.1/8        |                       | 1.1/8                                                      |                                | 1                                    |                 | 1.670          | 42,42            |
| *42                                  | 42,10                                             | 42,60                                         | 42,70                                         |                                     |               |                  |                  |                  |               | 27             | 1.3/4                                | 1.7500         | 44,45            |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
|                                      |                                                   |                                               |                                               |                                     |               |                  |                  |                  |               |                | 1.13/16                              | 1.8125         | 46,04            |                    |                               |                       | 1.1/8                |                       | 1.1/8        |                       | 1.1/8                                                      |                                | 1.1/8                                | 1.1/8           | 1.860          | 47,24            |
| 46                                   | 46,10                                             | 46,60                                         | 46,70                                         | 30                                  | 27            |                  |                  | 30               | 33            | 30             | 1.7/8                                | 1.8750         | 47,62            | 1.1/4              | 1.1/4                         | 1.1/4                 |                      | 1.1/4                 | 1.1/4        |                       | 1.1/4                                                      |                                |                                      |                 |                |                  |
|                                      |                                                   |                                               |                                               |                                     |               |                  |                  |                  |               |                | 1.15/16                              | 1.9375         | 49,21            |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 50                                   | 50,10                                             | 50,60                                         | 50,70                                         | 33                                  | 30            |                  |                  | 33               | 36            | 33             | 2                                    | 2.0000         | 50,80            |                    |                               |                       | 1.1/4                |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
|                                      |                                                   |                                               |                                               |                                     |               |                  |                  |                  |               |                | 2.1/16                               | 2.0625         | 52,39            | 1.3/8              | 1.3/8                         | 1.3/8                 |                      | 1.3/8                 | 1.3/8        |                       | 1.3/8                                                      |                                | 1.1/4                                | 1.3/8           | 2.050          | 52,07            |
| *54                                  | 54,10                                             | 54,60                                         | 54,70                                         |                                     |               |                  |                  |                  |               | 36             | 2.1/8                                | 2.1250         | 53,98            |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 55                                   | 55,12                                             | 55,72                                         | 55,92                                         | 36                                  | 33            |                  |                  | 36               | 39            |                | 2.3/16                               | 2.1875         | 55,56            |                    |                               |                       |                      |                       |              | 1.3/8                 |                                                            | 1.3/8                          |                                      |                 |                |                  |
| *58                                  | 58,12                                             | 58,72                                         | 58,92                                         |                                     |               |                  |                  |                  |               | 39             | 2.5/16                               | 2.3125         | 58,74            |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |
| 60                                   | 60,12                                             | 60,72                                         | 60,92                                         | 39                                  | 36            |                  |                  | 39               |               |                | 2.3/8                                | 2.3750         | 60,32            |                    |                               |                       | 1.1/2                |                       | 1.1/2        |                       | 1.1/2                                                      |                                | 1.1/2                                | 1.5/8           | 2.410          | 61,21            |
|                                      |                                                   |                                               |                                               |                                     |               |                  |                  |                  |               |                | 2.7/16                               | 2.4375         | 61               |                    |                               |                       |                      |                       |              |                       |                                                            |                                |                                      |                 |                |                  |

## Conversion Table of Metric, American and British Sizes for Spanner Openings and Thread Diameters

| Metric Sizes                                                                                                           |                                                   |                                               |                                               |                                     |               |                  |                 |                  |               |                | American Sizes                                                                                                         |                            |                         |                       |      |                       |                      |                       |                    |                       |                                                            | British Sizes                  |                                                                                                                        |                  |                |                  |        |  |
|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------------------------|---------------|------------------|-----------------|------------------|---------------|----------------|------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------|-----------------------|------|-----------------------|----------------------|-----------------------|--------------------|-----------------------|------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------|----------------|------------------|--------|--|
| Spanner Openings                                                                                                       |                                                   |                                               |                                               | Threads                             |               |                  |                 |                  |               |                | Spanner Openings                                                                                                       |                            |                         | Threads               |      |                       |                      |                       |                    |                       |                                                            | Threads                        |                                                                                                                        | Spanner Openings |                |                  |        |  |
|                                                                                                                        |                                                   |                                               |                                               | Metric Sizes<br>acc. to DIN ISO 272 |               |                  |                 | ISO R272<br>1968 |               |                |                                                                                                                        |                            |                         | French Stan-<br>dards |      |                       | ISO R272 1962        |                       | United<br>Standard |                       | American Standard B 18.2.1972                              |                                |                                                                                                                        |                  |                |                  |        |  |
|                                                                                                                        |                                                   |                                               |                                               |                                     |               |                  |                 |                  |               |                |                                                                                                                        |                            |                         |                       |      |                       |                      |                       |                    |                       | Nuts                                                       |                                |                                                                                                                        |                  |                | Bolts + Screws   |        |  |
|  Nominal Size<br>= Size to be ordered | minimum size [mm]<br>acc. to DIN 475/2 or ISO 691 | maximum size [mm]<br>acc. to DIN 475/2, row 1 | maximum size [mm]<br>acc. to DIN 475/2, row 2 | standard hexagon                    | large hexagon | bolt with flange | nut with flange | standard hexagon | small hexagon | NFE27-111-1930 |  Nominal Size<br>= Size to be ordered | decimal - inch             | decimal - metric        | Bolts                 | Nuts | normal series BS 1768 | heavy series BS 1769 | finished thick series | heavy series       | regular square series | finished and regular bolt serie<br>hexagon head cap screws | finished and heavy bolt series |  Nominal Size<br>= Size to be ordered | BS 916, BS 1083  | decimal - inch | decimal - metric |        |  |
| 75                                                                                                                     | 75,15                                             | 75,85                                         | 76,15                                         | 48                                  |               |                  |                 | 48               |               |                | 2.7/8<br>2.15/16<br>3                                                                                                  | 2.8750<br>2.9375<br>3.0000 | 73,03<br>74,61<br>76,20 |                       |      |                       |                      |                       |                    | 1.7/8                 |                                                            | 1.7/8                          | 2                                                                                                                      |                  |                |                  |        |  |
| *77                                                                                                                    | 77,15                                             | 77,85                                         | 78,15                                         |                                     |               |                  |                 |                  |               | 52             | 3.1/8                                                                                                                  | 3.1250                     | 79,37                   |                       |      |                       |                      | 2                     |                    | 2                     |                                                            | 2                              |                                                                                                                        |                  | 2.1/4          | 3.150            | 80,01  |  |
| 80                                                                                                                     | 80,15                                             | 80,85                                         | 81,15                                         | 52                                  |               |                  |                 | 52               |               | 56             | 3.1/4                                                                                                                  | 3.2500                     | 82,55                   |                       |      |                       | 2                    |                       |                    | 2                     |                                                            |                                |                                                                                                                        |                  |                |                  |        |  |
| *82                                                                                                                    | 82,15                                             | 82,85                                         | 82,15                                         |                                     |               |                  |                 |                  |               |                | 3.3/8                                                                                                                  | 3.3750                     | 85,72                   |                       |      |                       |                      | 2.1/4                 | 2.1/4              |                       | 2.1/4                                                      |                                |                                                                                                                        | 2.1/2            | 3.550          | 90,17            |        |  |
| 85                                                                                                                     | 85,15                                             | 85,85                                         | 86,15                                         | 56                                  |               |                  |                 | 56               |               | 60             | 3.1/2                                                                                                                  | 3.5000                     | 88,90                   |                       |      |                       |                      |                       |                    | 2.1/4                 |                                                            | 2.1/4                          |                                                                                                                        |                  |                |                  |        |  |
| *88                                                                                                                    | 88,15                                             | 88,85                                         | 88,15                                         |                                     |               |                  |                 |                  |               |                | 3.5/8                                                                                                                  | 3.6250                     | 92,08                   |                       |      |                       |                      |                       |                    |                       |                                                            |                                |                                                                                                                        |                  |                |                  |        |  |
| 90                                                                                                                     | 90,15                                             | 90,85                                         | 91,15                                         | 60                                  |               |                  |                 | 60               |               | 64             | 3.3/4                                                                                                                  | 3.7500                     | 95,25                   |                       |      |                       |                      | 2.1/2                 | 2.1/2              |                       | 2.1/2                                                      |                                |                                                                                                                        | 2.3/4            | 3.890          | 98,80            |        |  |
| *94                                                                                                                    | 94,15                                             | 94,85                                         | 94,15                                         |                                     |               |                  |                 |                  |               |                | 3.7/8                                                                                                                  | 3.8750                     | 98,42                   |                       |      |                       |                      |                       |                    | 2.1/2                 |                                                            | 2.1/2                          |                                                                                                                        |                  |                |                  |        |  |
| 95                                                                                                                     | 95,15                                             | 95,85                                         | 96,15                                         | 64                                  |               |                  |                 | 64               |               | 68             | 4                                                                                                                      | 4.0000                     | 101,60                  |                       |      |                       |                      |                       |                    |                       |                                                            |                                |                                                                                                                        | 3                | 4.180          | 106,17           |        |  |
| 100                                                                                                                    | 100,15                                            | 100,85                                        | 101,15                                        | 68                                  |               |                  |                 | 68               |               | 72             | 4.1/8                                                                                                                  | 4.1250                     | 104,77                  |                       |      |                       |                      | 2.3/4                 | 2.3/4              |                       | 2.3/4                                                      |                                |                                                                                                                        |                  |                |                  |        |  |
| 105                                                                                                                    | 105,20                                            | 106,00                                        | 106,40                                        | 72                                  |               |                  |                 | 72               |               | 76             | 4.1/4                                                                                                                  | 4.2500                     | 107,95                  |                       |      |                       |                      |                       |                    | 2.3/4                 |                                                            | 2.3/4                          |                                                                                                                        |                  | 3.1/4          | 4.530            | 115,06 |  |
| 110                                                                                                                    | 110,20                                            | 111,00                                        | 111,40                                        | 76                                  |               |                  |                 | 76               |               | 80             | 4.1/2                                                                                                                  | 4.5000                     | 114,30                  |                       |      |                       |                      | 3                     | 3                  |                       | 3                                                          |                                |                                                                                                                        | 3.1/2            | 4.850          | 123,19           |        |  |
| *116                                                                                                                   | 116,20                                            | 117,00                                        | 117,40                                        |                                     |               |                  |                 |                  |               | 80             | 4.5/8                                                                                                                  | 4.6250                     | 117,47                  |                       |      |                       |                      |                       |                    | 3                     |                                                            | 3                              |                                                                                                                        |                  |                |                  |        |  |
| 120                                                                                                                    | 120,20                                            | 121,00                                        | 121,40                                        | 85                                  |               |                  |                 | 85               |               |                | 4.7/8                                                                                                                  | 4.8750                     | 123,82                  |                       |      |                       |                      |                       |                    | 3.1/4                 |                                                            |                                |                                                                                                                        |                  |                |                  |        |  |
| *125                                                                                                                   | 125,20                                            | 126,00                                        | 126,40                                        |                                     |               |                  |                 |                  |               |                | 5                                                                                                                      | 5.0000                     | 127,00                  |                       |      |                       |                      |                       |                    | 3.1/4                 |                                                            |                                |                                                                                                                        |                  |                |                  |        |  |
| 130                                                                                                                    | 130,20                                            | 131,00                                        | 131,40                                        | 90                                  |               |                  |                 | 90               |               |                | 5.1/4                                                                                                                  | 5.2500                     | 133,35                  |                       |      |                       |                      |                       |                    | 3.1/2                 |                                                            | 3.1/2                          |                                                                                                                        |                  |                |                  |        |  |
| 135                                                                                                                    | 135,20                                            | 136,00                                        | 136,40                                        | 95                                  |               |                  |                 | 95               |               |                | 5.3/8                                                                                                                  | 5.3750                     | 136,52                  |                       |      |                       |                      |                       |                    | 3.1/2                 |                                                            |                                |                                                                                                                        | 3.3/4            | 5.180          | 131,57           |        |  |
| *140                                                                                                                   | 140,20                                            | 141,00                                        | 141,40                                        |                                     |               |                  |                 |                  |               |                | 5.5/8                                                                                                                  | 5.6250                     | 142,87                  |                       |      |                       |                      |                       |                    |                       |                                                            |                                |                                                                                                                        | 4                | 5.550          | 140,97           |        |  |
| 145                                                                                                                    | 145,20                                            | 146,00                                        | 146,40                                        | 100                                 |               |                  |                 | 100              |               |                | 5.3/4                                                                                                                  | 5.7500                     | 146,05                  |                       |      |                       |                      |                       |                    | 3.3/4                 |                                                            | 3.3/4                          |                                                                                                                        |                  |                |                  |        |  |
| 150                                                                                                                    | 150,25                                            | 151,25                                        |                                               | 105                                 |               |                  |                 | 105              |               |                | 6                                                                                                                      | 6.0000                     | 152,40                  |                       |      |                       |                      |                       |                    | 4                     |                                                            | 4                              |                                                                                                                        | 4.1/2            | 6.380          | 162,05           |        |  |
| 155                                                                                                                    | 155,25                                            | 156,25                                        |                                               | 110                                 |               |                  |                 | 110              |               |                | 6.1/8                                                                                                                  | 6.1250                     | 155,57                  |                       |      |                       |                      |                       |                    | 4                     |                                                            |                                |                                                                                                                        |                  |                |                  |        |  |
| *160                                                                                                                   | 160,25                                            | 161,25                                        |                                               |                                     |               |                  |                 |                  |               |                |                                                                                                                        |                            |                         |                       |      |                       |                      |                       |                    |                       |                                                            |                                |                                                                                                                        |                  |                |                  |        |  |
| 165                                                                                                                    | 165,25                                            | 166,25                                        |                                               |                                     |               |                  |                 | 115              |               |                |                                                                                                                        |                            |                         |                       |      |                       |                      |                       |                    |                       |                                                            |                                |                                                                                                                        |                  |                |                  |        |  |
| 170                                                                                                                    | 170,25                                            | 171,25                                        |                                               |                                     |               |                  |                 |                  |               |                |                                                                                                                        |                            |                         |                       |      |                       |                      |                       |                    |                       |                                                            |                                |                                                                                                                        |                  |                |                  |        |  |
| 175                                                                                                                    | 175,25                                            | 176,25                                        |                                               |                                     |               |                  |                 | 120              |               |                |                                                                                                                        |                            |                         |                       |      |                       |                      |                       |                    |                       |                                                            |                                |                                                                                                                        |                  |                |                  |        |  |
| 180                                                                                                                    | 180,25                                            | 181,25                                        |                                               |                                     |               |                  |                 | 125              |               |                |                                                                                                                        |                            |                         |                       |      |                       |                      |                       |                    |                       |                                                            |                                | 5                                                                                                                      | 7.300            | 185,42         |                  |        |  |

\*) Nominal sizes are not included in DIN 475

## Profile Sizes for TORX-Screws

| Sizes for Outside TORX-Screws |            |                   | Sizes for Inside TORX-Screws and Inside TORX-Safety Screws with Pin |              |                   |
|-------------------------------|------------|-------------------|---------------------------------------------------------------------|--------------|-------------------|
| Tool example                  | E / TXE ☼  | ★ $\frac{mm}{mm}$ | Tool example                                                        | TX ★ / TXX ☼ | ★ $\frac{mm}{mm}$ |
|                               | E / TXE 4  | 3,86              |                                                                     | TX / TXX 5   | 1,42              |
|                               | E / TXE 5  | 4,75              |                                                                     | TX / TXX 6   | 1,67              |
|                               | E / TXE 6  | 5,74              |                                                                     | TX / TXX 7   | 1,99              |
|                               | E / TXE 7  | 6,22              |                                                                     | TX / TXX 8   | 2,31              |
|                               | E / TXE 8  | 7,52              |                                                                     | TX / TXX 9   | 2,5               |
|                               | E / TXE 10 | 9,42              |                                                                     | TX / TXX 10  | 2,74              |
|                               | E / TXE 11 | 9,98              |                                                                     | TX / TXX 15  | 3,27              |
|                               | E / TXE 12 | 11,17             |                                                                     | TX / TXX 20  | 3,86              |
|                               | E / TXE 14 | 12,9              |                                                                     | TX / TXX 25  | 4,43              |
|                               | E / TXE 16 | 14,76             |                                                                     | TX / TXX 27  | 4,99              |
|                               | E / TXE 18 | 16,7              |                                                                     | TX / TXX 30  | 5,52              |
|                               | E / TXE 20 | 18,49             |                                                                     | TX / TXX 40  | 6,65              |
|                               | E / TXE 24 | 22,16             |                                                                     | TX / TXX 45  | 7,82              |
|                               |            |                   |                                                                     | TX / TXX 50  | 8,83              |
|                               |            |                   |                                                                     | TX / TXX 55  | 11,22             |
|                               |            |                   |                                                                     | TX / TXX 60  | 13,25             |
|                               |            |                   |                                                                     | TX / TXX 70  | 15,42             |

## Conversion Tables for Torque Wrenches

| Conversion factor |          |         |        |              |        |                 |         |           |
|-------------------|----------|---------|--------|--------------|--------|-----------------|---------|-----------|
| Unit              | SI-Units |         |        | metric units |        | USA- / GB-units |         |           |
|                   | cNm      | dNm     | Nm     | cmkg         | mkg    | ft.lb.          | in.lb.  | in.oz     |
| 1 cNm             | 1,0000   | 0,1000  | 0,0100 | 0,1020       | 0,0010 | 0,0074          | 0,0885  | 1,4161    |
| 1 dNm             | 10,0000  | 1,0000  | 0,1000 | 1,0197       | 0,0102 | 0,0738          | 0,8851  | 14,1612   |
| 1 Nm              | 100,0000 | 10,0000 | 1,0000 | 10,1972      | 0,1020 | 0,7376          | 8,8508  | 141,6123  |
| 1 cmkg            | 9,8067   | 0,9807  | 0,0981 | 1,0000       | 0,0100 | 0,0723          | 0,8680  | 13,8874   |
| 1 mkg             | 980,6650 | 98,0665 | 9,8067 | 100,0000     | 1,0000 | 7,2330          | 86,7964 | 1388,7422 |
| 1 ft.lb           | 135,5818 | 13,5581 | 1,3558 | 13,8255      | 0,1383 | 1,0000          | 12,0000 | 192,0000  |
| 1 in.lb           | 11,2985  | 1,1298  | 0,1130 | 1,1521       | 0,0115 | 0,0833          | 1,0000  | 16,0000   |
| 1 in.oz           | 0,7062   | 0,0706  | 0,0071 | 0,0720       | 0,0007 | 0,0052          | 0,0625  | 1,0000    |

Example: (↙) 1 Nm = 0,1020 mkg (→)

| Conversion Nm → mkg |       |       |       | 1 Nm = 0,10197 mkg |       |       |       |       |       |       |
|---------------------|-------|-------|-------|--------------------|-------|-------|-------|-------|-------|-------|
| Nm                  | 0     | 1     | 2     | 3                  | 4     | 5     | 6     | 7     | 8     | 9     |
| 0                   | 0,00  | 0,10  | 0,20  | 0,31               | 0,41  | 0,51  | 0,61  | 0,71  | 0,82  | 0,92  |
| 10                  | 1,02  | 1,12  | 1,22  | 1,33               | 1,43  | 1,53  | 1,63  | 1,73  | 1,84  | 1,94  |
| 20                  | 2,04  | 2,14  | 2,24  | 2,35               | 2,45  | 2,55  | 2,65  | 2,75  | 2,86  | 2,96  |
| 30                  | 3,06  | 3,16  | 3,26  | 3,37               | 3,47  | 3,57  | 3,67  | 3,77  | 3,87  | 3,98  |
| 40                  | 4,08  | 4,18  | 4,28  | 4,38               | 4,49  | 4,59  | 4,69  | 4,79  | 4,89  | 5,00  |
| 50                  | 5,10  | 5,20  | 5,30  | 5,40               | 5,51  | 5,61  | 5,71  | 5,81  | 5,91  | 6,02  |
| 60                  | 6,12  | 6,22  | 6,32  | 6,42               | 6,53  | 6,63  | 6,73  | 6,83  | 6,93  | 7,04  |
| 70                  | 7,14  | 7,24  | 7,34  | 7,44               | 7,55  | 7,65  | 7,75  | 7,85  | 7,95  | 8,06  |
| 80                  | 8,16  | 8,26  | 8,36  | 8,46               | 8,57  | 8,67  | 8,77  | 8,87  | 8,97  | 9,08  |
| 90                  | 9,18  | 9,28  | 9,38  | 9,48               | 9,59  | 9,69  | 9,79  | 9,89  | 9,99  | 10,10 |
| 100                 | 10,20 | 10,30 | 10,40 | 10,50              | 10,60 | 10,71 | 10,81 | 10,91 | 11,01 | 11,11 |

Example: (↙) 40 Nm + (→) 3 Nm = 43 Nm = 4,38 mkg

| Conversion mkg → Nm |        |        |         | 1 mkg = 9,80665 Nm |         |         |         |         |         |         |
|---------------------|--------|--------|---------|--------------------|---------|---------|---------|---------|---------|---------|
| mkg                 | 0      | 1      | 2       | 3                  | 4       | 5       | 6       | 7       | 8       | 9       |
| 0                   | 0,00   | 9,81   | 19,61   | 29,42              | 39,23   | 49,03   | 58,84   | 68,65   | 78,45   | 88,26   |
| 10                  | 98,07  | 107,87 | 117,68  | 127,49             | 137,29  | 147,10  | 156,91  | 166,71  | 176,52  | 186,33  |
| 20                  | 196,13 | 205,94 | 215,75  | 225,55             | 235,36  | 245,17  | 254,97  | 264,78  | 274,59  | 284,39  |
| 30                  | 294,20 | 304,01 | 313,81  | 323,62             | 333,43  | 343,23  | 353,04  | 362,85  | 372,65  | 382,46  |
| 40                  | 392,27 | 402,07 | 411,88  | 421,69             | 431,49  | 441,30  | 451,11  | 460,91  | 470,72  | 480,53  |
| 50                  | 490,33 | 500,14 | 509,95  | 519,75             | 529,56  | 539,37  | 549,17  | 558,98  | 568,79  | 578,59  |
| 60                  | 588,40 | 598,21 | 608,01  | 617,82             | 627,63  | 637,43  | 647,24  | 657,05  | 666,85  | 676,66  |
| 70                  | 686,47 | 696,27 | 706,08  | 715,89             | 725,69  | 735,50  | 745,31  | 755,11  | 764,92  | 774,73  |
| 80                  | 784,53 | 794,34 | 804,15  | 813,95             | 823,76  | 833,57  | 843,37  | 853,18  | 862,99  | 872,79  |
| 90                  | 882,60 | 892,41 | 902,21  | 912,02             | 921,83  | 931,63  | 941,44  | 951,25  | 961,05  | 970,86  |
| 100                 | 980,67 | 990,47 | 1000,28 | 1010,08            | 1019,89 | 1029,70 | 1039,50 | 1049,31 | 1059,12 | 1068,92 |

Example: (↙) 40 mkg + (→) 3 mkg = 43 mkg = 421,69 Nm

| Conversion Nm → ft.lb. |       |       |       | 1 Nm = 0,73756 ft.lb. |       |       |       |       |       |       |
|------------------------|-------|-------|-------|-----------------------|-------|-------|-------|-------|-------|-------|
| Nm                     | 0     | 1     | 2     | 3                     | 4     | 5     | 6     | 7     | 8     | 9     |
| 0                      | 0,00  | 0,74  | 1,48  | 2,21                  | 2,95  | 3,69  | 4,43  | 5,16  | 5,90  | 6,64  |
| 10                     | 7,38  | 8,11  | 8,85  | 9,59                  | 10,33 | 11,06 | 11,80 | 12,54 | 13,28 | 14,01 |
| 20                     | 14,75 | 15,49 | 16,23 | 16,96                 | 17,70 | 18,44 | 19,18 | 19,91 | 20,65 | 21,39 |
| 30                     | 22,13 | 22,86 | 23,60 | 24,34                 | 25,08 | 25,81 | 26,55 | 27,29 | 28,03 | 28,76 |
| 40                     | 29,50 | 30,24 | 30,98 | 31,72                 | 32,45 | 33,19 | 33,93 | 34,67 | 35,40 | 36,14 |
| 50                     | 36,88 | 37,62 | 38,35 | 39,09                 | 39,83 | 40,57 | 41,30 | 42,04 | 42,78 | 43,52 |
| 60                     | 44,25 | 44,99 | 45,73 | 46,47                 | 47,20 | 47,94 | 48,68 | 49,42 | 50,15 | 50,89 |
| 70                     | 51,63 | 52,37 | 53,10 | 53,84                 | 54,58 | 55,32 | 56,05 | 56,79 | 57,53 | 58,27 |
| 80                     | 59,00 | 59,74 | 60,48 | 61,22                 | 61,96 | 62,69 | 63,43 | 64,17 | 64,91 | 65,64 |
| 90                     | 66,38 | 67,12 | 67,86 | 68,59                 | 69,33 | 70,07 | 70,81 | 71,54 | 72,28 | 73,02 |
| 100                    | 73,76 | 74,49 | 75,23 | 75,97                 | 76,71 | 77,44 | 78,18 | 78,92 | 79,66 | 80,39 |

Example: (↙) 40 Nm + (→) 3 Nm = 43 Nm = 31,72 ft.lb.

| Conversion ft.lb. → Nm |        |        |        | 1 ft.lb. = 1,35581 Nm |        |        |        |        |        |        |
|------------------------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|--------|
| ft.lb.                 | 0      | 1      | 2      | 3                     | 4      | 5      | 6      | 7      | 8      | 9      |
| 0                      | 0,00   | 1,36   | 2,71   | 4,07                  | 5,42   | 6,78   | 8,13   | 9,49   | 10,85  | 12,20  |
| 10                     | 13,56  | 14,91  | 16,27  | 17,63                 | 18,98  | 20,34  | 21,69  | 23,05  | 24,40  | 25,76  |
| 20                     | 27,12  | 28,47  | 29,83  | 31,18                 | 32,54  | 33,90  | 35,25  | 36,61  | 37,96  | 39,32  |
| 30                     | 40,67  | 42,03  | 43,39  | 44,74                 | 46,10  | 47,45  | 48,81  | 50,16  | 51,52  | 52,88  |
| 40                     | 54,23  | 55,59  | 56,94  | 58,30                 | 59,66  | 61,01  | 62,37  | 63,72  | 65,08  | 66,43  |
| 50                     | 67,79  | 69,15  | 70,50  | 71,86                 | 73,21  | 74,57  | 75,93  | 77,28  | 78,64  | 79,99  |
| 60                     | 81,35  | 82,70  | 84,06  | 85,42                 | 86,77  | 88,13  | 89,48  | 90,84  | 92,20  | 93,55  |
| 70                     | 94,91  | 96,26  | 97,62  | 98,97                 | 100,33 | 101,69 | 103,04 | 104,40 | 105,75 | 107,11 |
| 80                     | 108,46 | 109,82 | 111,18 | 112,53                | 113,89 | 115,24 | 116,60 | 117,96 | 119,31 | 120,67 |
| 90                     | 122,02 | 123,38 | 124,73 | 126,09                | 127,45 | 128,80 | 130,16 | 131,51 | 132,87 | 134,23 |
| 100                    | 135,58 | 136,94 | 138,29 | 139,65                | 141,00 | 142,36 | 143,72 | 145,07 | 146,43 | 147,78 |

Example: (↙) 40 ft.lb. + (→) 3 ft.lb. = 43 ft.lb. = 58,30 Nm

| Conversion Nm → in.lb. |        |        |        | 1 Nm = 8,85077 in.lb. |        |        |        |        |        |        |
|------------------------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|--------|
| Nm                     | 0      | 1      | 2      | 3                     | 4      | 5      | 6      | 7      | 8      | 9      |
| 0                      | 0,00   | 8,85   | 17,70  | 26,55                 | 35,40  | 44,25  | 53,10  | 61,96  | 70,81  | 79,66  |
| 10                     | 88,51  | 97,36  | 106,21 | 115,06                | 123,91 | 132,76 | 141,61 | 150,46 | 159,31 | 168,16 |
| 20                     | 177,02 | 185,87 | 194,72 | 203,57                | 212,42 | 221,27 | 230,12 | 238,97 | 247,82 | 256,67 |
| 30                     | 265,52 | 274,37 | 283,22 | 292,08                | 300,93 | 309,78 | 318,63 | 327,48 | 336,33 | 345,18 |
| 40                     | 354,03 | 362,88 | 371,73 | 380,58                | 389,43 | 398,28 | 407,14 | 415,99 | 424,84 | 433,69 |
| 50                     | 442,54 | 451,39 | 460,24 | 469,09                | 477,94 | 486,79 | 495,64 | 504,49 | 513,34 | 522,20 |
| 60                     | 531,05 | 539,90 | 548,75 | 557,60                | 566,45 | 575,30 | 584,15 | 593,00 | 601,85 | 610,70 |
| 70                     | 619,55 | 628,40 | 637,26 | 646,11                | 654,96 | 663,81 | 672,66 | 681,51 | 690,36 | 699,21 |
| 80                     | 708,06 | 716,91 | 725,76 | 734,61                | 743,46 | 752,32 | 761,17 | 770,02 | 778,87 | 787,72 |
| 90                     | 796,57 | 805,42 | 814,27 | 823,12                | 831,97 | 840,82 | 849,67 | 858,52 | 867,38 | 876,23 |
| 100                    | 885,08 | 893,93 | 902,78 | 911,63                | 920,48 | 929,33 | 938,18 | 947,03 | 955,88 | 964,73 |

Example: (↙) 40 Nm + (→) 3 Nm = 43 Nm = 380,58 in.lb.

| Conversion in.lb. → Nm |       |       |       | 1 in.lb. = 0,11298 Nm |       |       |       |       |       |       |
|------------------------|-------|-------|-------|-----------------------|-------|-------|-------|-------|-------|-------|
| in.lb.                 | 0     | 1     | 2     | 3                     | 4     | 5     | 6     | 7     | 8     | 9     |
| 0                      | 0,00  | 0,11  | 0,23  | 0,34                  | 0,45  | 0,56  | 0,68  | 0,79  | 0,90  | 1,02  |
| 10                     | 1,13  | 1,24  | 1,36  | 1,47                  | 1,58  | 1,69  | 1,81  | 1,92  | 2,03  | 2,15  |
| 20                     | 2,26  | 2,37  | 2,49  | 2,60                  | 2,71  | 2,82  | 2,94  | 3,05  | 3,16  | 3,28  |
| 30                     | 3,39  | 3,50  | 3,62  | 3,73                  | 3,84  | 3,95  | 4,07  | 4,18  | 4,29  | 4,41  |
| 40                     | 4,52  | 4,63  | 4,75  | 4,86                  | 4,97  | 5,08  | 5,20  | 5,31  | 5,42  | 5,54  |
| 50                     | 5,65  | 5,76  | 5,87  | 5,99                  | 6,10  | 6,21  | 6,33  | 6,44  | 6,55  | 6,67  |
| 60                     | 6,78  | 6,89  | 7,00  | 7,12                  | 7,23  | 7,34  | 7,46  | 7,57  | 7,68  | 7,80  |
| 70                     | 7,91  | 8,02  | 8,13  | 8,25                  | 8,36  | 8,47  | 8,59  | 8,70  | 8,81  | 8,93  |
| 80                     | 9,04  | 9,15  | 9,26  | 9,38                  | 9,49  | 9,60  | 9,72  | 9,83  | 9,94  | 10,06 |
| 90                     | 10,17 | 10,28 | 10,39 | 10,51                 | 10,62 | 10,73 | 10,85 | 10,96 | 11,07 | 11,19 |
| 100                    | 11,30 | 11,41 | 11,52 | 11,64                 | 11,75 | 11,86 | 11,98 | 12,09 | 12,20 | 12,31 |

Example: (↙) 40 in.lb. + (→) 3 in.lb. = 43 in.lb. = 4,86 Nm

## Terms of Business

### 1. Terms of delivery and payment

The following terms of business are applicable for all sales. They are also valid and predominant if customers specify different terms. Our terms of business are accepted only even if they are not outlined for every order particularly.

### 2. Offers

The right is reserved to alter prices without notice. All orders including those placed through our agents, by telephone or verbally, require written confirmation.

### 3. Prices

ELORA will do everything possible to avoid price changes during the life of this catalogue. However, should price changes occur orders are executed at prices ruling at date of despatch. For minimum order volume of € 2.500,00 nett prices are to be quoted for delivery free German border, F.O.B. German Port, C & F or C.I.F. port of destination on customers' request. Orders of smaller volume will be delivered ex works; freight charges, postage and packing will be invoiced extra. Units of quantity are shown for all items. Orders should be placed in multiples of these quantities. Packing quantities different from boxed quantities are subject to a surcharge of 10 %.

### 4. Supplies

Supplies of goods will be made for buyer's risk only.

### 5. Time of delivery

Any time or date for delivery named by ELORA is an estimate only and ELORA shall not be liable for the consequences of any delay. Partial shipment should be allowed. Penalties because of delayed shipments will not be accepted.

### 6. Terms of payment

Payment is subject to arrangement and to the terms outlined in our quotations and invoices. Goods delivered remain our property until payment is received in full. The title to goods remains with ELORA until the goods have been paid for.

### 7. Claims

Claims must be advised in writing not later than two weeks after arrival of goods.

### 8. Guarantee

All ELORA products are fully guaranteed against faulty materials and workmanship, subject to being used for its proper purpose, and allowing for fair wear and tear. Defective tools will be repaired or replaced at ELORA's discretion free of charge. They should be held by buyers or returned for inspection to the factory on request. Tools abused or worn out from excessive use will not be replaced.

### 9. Competency of court

Competency of court for all disputes is the Law Court at Remscheid.

### 10. Arbitration

Disputes arising from business shall be subject to German law only.

### 11.

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