

## 8 | PIPE TOOLS, MISCELLANEOUS TOOLS

### **PIPE TOOLS**

→ PAGE 280



### **HAMMERS**

→ PAGE 282



### **CHISELS, DRIFT PINS, CENTRE PUNCHES, PIN PUNCHES**

→ PAGE 283



### **SCRAPERS, FILES, HACKSAWS**

→ PAGE 286



### **THREAD TOOLS**

→ PAGE 288



### **SCREW EXTRACTOR, STUD REMOVER, NUT SPLITTERS**

→ PAGE 289



### **MEASURING TOOLS**

→ PAGE 289



### **RATCHET TAP HOLDERS**

→ PAGE 290



### **MISCELLANEOUS TOOLS**

→ PAGE 290



### **TORCHES**

→ PAGE 293



### **TWEEZERS, WIRE CUTTER**

→ PAGE 294





# Original STAHLWILLE pipe and tube tools

These extremely robust pipe cutters guarantee accurate cutting without the danger of the cut running off at an angle. Pipes can be directly passed on to the next processing stage.

### EXPRESS Pipe Cutter No 150

Ideal for pipes made of steel, copper, brass, light alloy and hard plastics. This tool is available in two sizes to cover outer diameters from 6 to 63 mm.

#### Essential product advantages when cutting pipes with STAHLWILLE pipe cutters:

##### Straight-line cutting

STAHLWILLE EXPRESS pipe cutters ensure a perfectly perpendicular cut. The broad support rolls ensure that the cutting wheels are accurately guided throughout the cut. In this way, the cut cannot run off at an angle on the pipe surface or enter the pipe at a tilted angle. The robust drop forged upper-jaw section with its reinforced cutter-wheel guides prevents spiral cuts.

##### Deburring and chamfering

The wide guide rolls flatten the burr created during the cutting process back into the material. Separate deburring is not required. The cut-to-length pipe is automatically chamfered and can be passed directly to the next processing step. The cut edge is angled in accordance with the cutting wheel geometry.

##### Universally applicable - Work on pipes in situ

STAHLWILLE EXPRESS pipe cutters can also be equipped with three cutting wheels. This enables extremely efficient work on pipes in situ involving only a small angle of movement.

**1**

Pin for wheels and rolls

**2**

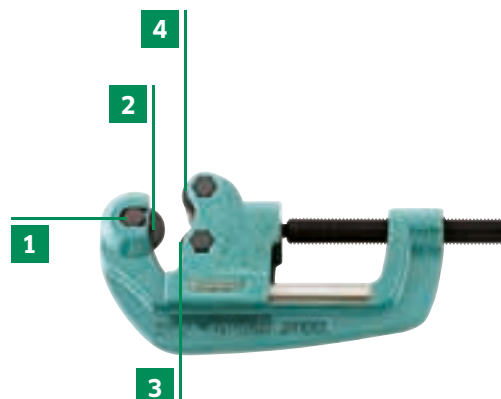
Cutting wheels for steel, non-ferrous metal and plastic pipes

**3**

Guide rolls for pipe cutters

**4**

Additional rings for versions with three cutting wheels



### METAL Pipe Cutter No 153

This light-weight, extremely convenient tool is specially suitable for cutting tubes made of copper, brass, light alloy or hard plastics and for thin-walled steel tubes with outer diameters of from 3 to 35 mm and maximum cutting depths of 2.5 mm. The integrated internal three-bladed cutter in the handle removes burrs.



### Midget tube cutter No 155

For pipes and tubes made of copper, brass, light alloy, hard plastics and for thin-walled steel tubes with outer diameters of from 3 to 16 mm where the maximum cutting depth is 2.0 mm - we recommend this extremely compact and accurate tube cutter.



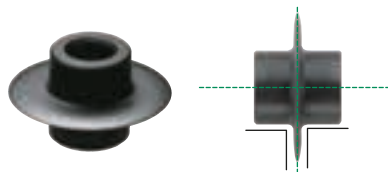
### Chain Pipe Cutter No 157

Special pipe cutter, infinitely variable, with rotating handle, also for cutting stainless steel pipes with wall thicknesses of up to 1.8 mm and outer diameters of from 25 to 75 mm. Chain lengths up to 270 mm.



### STAHLWILLE cutting wheels for steel pipes

Especially high-grade, wear-resistant steel enables extraordinarily high cutting force. The cutting wheels are made of very tough special steel which guarantees long service lifetimes.



### STAHLWILLE Double Flaring Tools No 165N

Double Flaring Tools are used for making permanent connections between pressurised pipes. DIN standard double flares in accordance with DIN 74234 can be made with this convenient easy-to-use and tough tool made by STAHLWILLE to create safe connections (e.g. in car brake leads) without the need for special skills. Simply clamp the tool in the vice - and it is ready for use. This tool guarantees rapid, safe processing of seamless drawn and double-walled rolled pipes (Bundy®) with wall thicknesses of 0.7 or 1.0 mm with a single flaring bit.



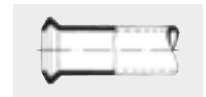
STAHLWILLE flaring tools - simple to use and guaranteed optimum results.



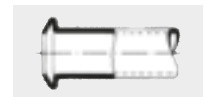
Single flaring cone D



Double flaring cone E



Double flaring cone F



Double flaring cone F 180°

Various DIN standard single and double flares - easily and quickly produced using the STAHLWILLE double flaring tool.

## Pipe cutters, Miscellaneous tools

### 150 EXPRESS pipe cutters

with one cutting wheel and two guide rollers; for steel, copper, brass, aluminium and hard plastic tubes.



| Code     | size              | "         | mm   | mm    | Cutting depth max. mm | g    |   |
|----------|-------------------|-----------|------|-------|-----------------------|------|---|
| 60021001 | 1 <sup>1)</sup>   | 1/8-1 1/4 | 3-32 | 6-43  | 4.5                   | 1220 | 1 |
| 60021002 | 2 <sup>1)</sup>   | 1/8-2     | 3-50 | 10-63 | 7                     | 2149 | 1 |
| 60121001 | 1/3 <sup>2)</sup> | 1/8-1 1/4 | 3-32 | 6-43  | 4.5                   | 1113 | 1 |
| 60121002 | 2/3 <sup>2)</sup> | 1/8-2     | 3-50 | 10-63 | 7                     | 1975 | 1 |

<sup>1)</sup> with wide guide rollers

<sup>2)</sup> with three cutting wheels

### 153 METAL pipe cutter

for use on copper, brass, light alloy, PVC and thin walled steel tubes, with deburring tool (3 cutting edges) inside handle, forged, chrome plated.



| Code     | "         | mm   | Cutting depth max. mm | g   |   |
|----------|-----------|------|-----------------------|-----|---|
| 60010000 | 1/8-1 3/8 | 3-35 | 2.5                   | 356 | 1 |

### 155 Small bore pipe cutter

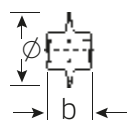
for use on copper, brass, light alloy, PVC and thin walled steel tubes.



| Code     | "       | mm   | Cutting depth max. mm | g   |   |
|----------|---------|------|-----------------------|-----|---|
| 60070001 | 1/8-5/8 | 3-16 | 2                     | 102 | 1 |

### SR150 Cutting wheels

for steel pipes.



| Code     | size | for pipe cutter | ø mm | b mm | g  |    |
|----------|------|-----------------|------|------|----|----|
| 69020101 | 1    | 150/1           | 25   | 14   | 14 | 10 |
| 69020201 | 2    | 150/2           | 32   | 19   | 28 | 10 |
| 69020301 | 3/4  | 150/3 + 4       | 41   | 19   | 38 | 10 |

### SR153 Cutting wheels



| Code     | for pipe cutter | ø mm | b mm | g |    |
|----------|-----------------|------|------|---|----|
| 69010001 | 153             | 20   | 6    | 6 | 10 |

### SR155 Cutting wheels

| Code     | for pipe cutter | ø mm | b mm | g |    |
|----------|-----------------|------|------|---|----|
| 69110001 | 155             | 20   | 5    | 5 | 10 |

### 157 Chain pipe cutter

infinitely adjustable, with twist handle, also suitable for special steel pipes up to 1.8 mm wall thickness, chain length 270 mm.



| Code     | mm    | Cutting depth max. mm | g   |   |
|----------|-------|-----------------------|-----|---|
| 60110001 | 25-75 | 2                     | 705 | 1 |

### K157 Chain

| Code     | g   |   |
|----------|-----|---|
| 69130001 | 183 | 1 |

### RL 150/153/1500 Guide rollers

for pipe cutters.



| Code     | No         | for pipe cutter | ø mm | b mm | g   |   |
|----------|------------|-----------------|------|------|-----|---|
| 69020107 | RL 1500/1  | 150/1           | 23   | 21.5 | 62  | 2 |
| 69070202 | RL 1500/2  | 150-151/2       | 28   | 27.5 | 117 | 5 |
| 69020302 | RL 150/3/4 | 150-151/3 + 4   | 33   | 19   | 115 | 5 |
| 69010002 | RL 153     | 153             | 12   | 12   | 10  | 5 |

### BL/BZ 150/153/1500 Spindles

for wheels and guide rollers.



| Code     | No         | wheelbolt       | rollerbolt      | for pipe cutter | L mm | ø mm | g  |    |
|----------|------------|-----------------|-----------------|-----------------|------|------|----|----|
| 69020104 | BL 150/1   | x <sup>1)</sup> |                 | 150/1           | 29   | 7.5  | 10 | 1  |
| 69020103 | BZ 1500/1  |                 | x <sup>2)</sup> | 150/1           | 38.5 | 7.5  | 14 | 10 |
| 69070203 | BZ 1500/2  |                 | x               | 150-151/2       | 46   | 9    | 23 | 10 |
| 69070204 | BL 1500/2  | x               |                 | 150-151/2       | 38   | 9    | 19 | 10 |
| 69020303 | BZ 150/3/4 | x               | x               | 150-151/3 + 4   | 36   | 9    | 17 | 10 |
| 69020304 | BL 150/4N  | x <sup>3)</sup> |                 | 150/4           | 40   | 9    | 20 | 1  |
| 69010003 | BZ 153     |                 | x               | 153             | 18.5 | 4    | 2  | 10 |
| 69010004 | BL 153     | x               |                 | 153             | 13   | 4.75 | 2  | 1  |

BL = wheel bolt

BZ = roller bolt

<sup>1)</sup> wheel- and roller bolt for 150/1 until 1985. wheel bolt for 150/1 from 1986

<sup>2)</sup> roller bolt for 150/1 from 1986

<sup>3)</sup> wheel bolt for 150/4 from 2009

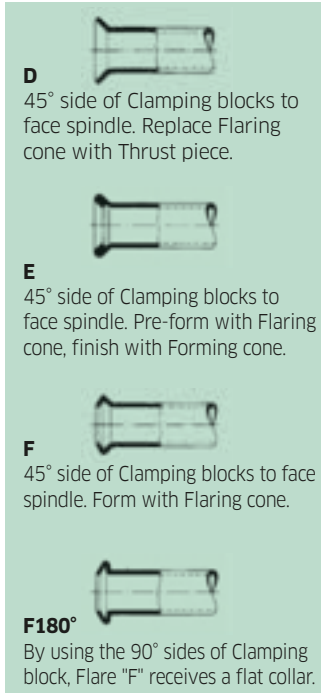
### RI 1500 Spacing washers

When required to fit pipe cutters No 150/1, 150/2 or No 150/4 with 3 cutting wheels (to work in confined spaces), a total of 4 spacing washers is required. Simply exchange the 2 guide rollers for 2 cutting wheels No SR150 with 2 spacing washers to each.



| Code     | size | for pipe cutter | ø mm | b mm | g  |   |
|----------|------|-----------------|------|------|----|---|
| 68020101 | 1    | 150/1           | 14   | 3.9  | 8  | 6 |
| 68020201 | 2    | 150/2, 151/2    | 16   | 4.45 | 4  | 6 |
| 68020301 | 4    | 150/4 *)        | 18   | 9.5  | 18 | 1 |

\*) For 150/4 from 2009



## Double flaring tool

This simple-to-use STAHLWILLE Double Flaring tool will form accurate flares (to DIN 74234) on seamless drawn- and double walled (BUNDY®) tubes.

Clamped in a vice, the tool is instantly ready for use. Flaring and Pressure Cones are quickly changed.

### The robust construction

of the tool, plus the shape of Flaring cones, enables single cone flaring on tubes of 0.7 or 1.0 mm wall thickness.

**Tubing is held horizontally by 25 mm wide Clamping blocks.** This is important when endless tubing is used. A distance pin controls length of tube required for flaring.

## 1650N

### Clamping blocks

1 pair



| Code             |                                                |     |   |
|------------------|------------------------------------------------|-----|---|
| <b>6803 1001</b> | 4.75; 5; 6; 8; 9; 10 mm; 3/16; 1/4; 5/16; 3/8" | 198 | 1 |

## 1650K

### Clamping blocks

1 pair, for dip-coated brake leads.



| Code             |         |     |   |
|------------------|---------|-----|---|
| <b>6803 0003</b> | 5; 6 mm | 234 | 1 |

## 1651

### Flaring cones



| Code             | size                    |    |    |   |
|------------------|-------------------------|----|----|---|
| <b>6804 0708</b> | <b>6+8 mm+1/4+5/16"</b> | 8  | 56 | 1 |
| <b>6804 0910</b> | <b>9+10 mm+3/8"</b>     | 10 | 56 | 1 |

## 1652N

### Thrust piece/flaring cone

45°; 4.75/5 mm+3/16", for Double flaring tool No 165N.



| Code             |                   |    |   |
|------------------|-------------------|----|---|
| <b>6805 1001</b> | 4.75/5 mm + 3/16" | 55 | 1 |

## 1655N

### Flaring spindle

for Double flaring tool No 165N.



| Code              |  |    |   |
|-------------------|--|----|---|
| <b>69 10 1002</b> |  | 54 | 1 |

## 1656N

### Clamping screw

for Double flaring tool No 165N.



| Code              |  |     |   |
|-------------------|--|-----|---|
| <b>69 10 1003</b> |  | 102 | 1 |

## 165N

### Double flaring tool

with  
1 pair of Clamping blocks No 1650N,  
2 Flaring cones No 1651 and  
1 Thrust piece/flaring cone No 1652N.



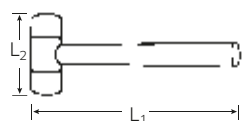
| Code             |                                                |      |   |
|------------------|------------------------------------------------|------|---|
| <b>6303 1000</b> | 4.75; 5; 6; 8; 9; 10 mm; 3/16; 1/4; 5/16; 3/8" | 1420 | 1 |



## Pipe cutters, Miscellaneous tools

### 10940 Rubber composition hammers

DIN 5128, with two plane faces.



| Code        | ∅<br>mm | L <sub>1</sub><br>mm | L <sub>2</sub><br>mm | △△<br>g | ☐ |
|-------------|---------|----------------------|----------------------|---------|---|
| 70 14 00 01 | 55      | 320                  | 90                   | 317     | 2 |
| 70 14 00 02 | 65      | 350                  | 115                  | 527     | 2 |
| 70 14 00 03 | 75      | 350                  | 130                  | 780     | 2 |
| 70 14 00 04 | 90      | 380                  | 140                  | 1193    | 2 |

### 10955 Plastic hammers

with interchangeable heads of impact resisting cellulose acetate and ash handles.



| Code        | ∅<br>mm | L <sub>1</sub><br>mm | L <sub>2</sub><br>mm | △△<br>g | ☐ |
|-------------|---------|----------------------|----------------------|---------|---|
| 70 16 00 27 | 27      | 265                  | 90                   | 225     | 6 |
| 70 16 00 32 | 32      | 280                  | 100                  | 320     | 6 |
| 70 16 00 35 | 35      | 290                  | 105                  | 376     | 2 |
| 70 16 00 40 | 40      | 320                  | 110                  | 545     | 2 |
| 70 16 00 50 | 50      | 340                  | 115                  | 873     | 2 |

### 10955R Spare plastic heads

of impact resisting cellulose acetate, these are lightly heated and then tapped into position.

| Code        | ∅<br>mm | △△<br>g | ☐  |
|-------------|---------|---------|----|
| 79 04 00 27 | 27      | 14      | 5  |
| 79 04 00 32 | 32      | 22      | 10 |
| 79 04 00 35 | 35      | 29      | 10 |
| 79 04 00 40 | 40      | 39      | 10 |
| 79 04 00 50 | 50      | 69      | 10 |

### 10956 Nylon hammers

with interchangeable heads of shockproof nylon vestamid and hickory handles.



| Code        | ∅<br>mm | L <sub>1</sub><br>mm | L <sub>2</sub><br>mm | △△<br>g | ☐ |
|-------------|---------|----------------------|----------------------|---------|---|
| 70 17 10 27 | 27      | 265                  | 90                   | 232     | 6 |
| 70 17 10 32 | 32      | 280                  | 100                  | 336     | 6 |
| 70 17 10 35 | 35      | 290                  | 105                  | 413     | 2 |
| 70 17 10 40 | 40      | 320                  | 110                  | 546     | 2 |
| 70 17 10 50 | 50      | 340                  | 115                  | 898     | 2 |
| 70 17 10 60 | 60      | 380                  | 135                  | 1339    | 2 |

### 10956R Spare nylon heads

these are lightly heated and then tapped into position.

| Code        | ∅<br>mm | △△<br>g | ☐  |
|-------------|---------|---------|----|
| 79 05 00 27 | 27      | 11      | 10 |
| 79 05 00 32 | 32      | 18      | 10 |
| 79 05 00 35 | 35      | 23      | 10 |
| 79 05 00 40 | 40      | 31      | 10 |
| 79 05 00 50 | 50      | 53      | 10 |
| 79 05 00 60 | 60      | 83      | 10 |

### 10957 Plastic hammers

the hollow head is partially filled with steel shot which adds to the weight, prevents recoil; with interchangeable heads made of medium-hard polyurethane and with a hickory handle.



| Code        | ∅<br>mm | L <sub>1</sub><br>mm | L <sub>2</sub><br>mm | △△<br>g | ☐ |
|-------------|---------|----------------------|----------------------|---------|---|
| 70 19 00 25 | 25      | 320                  | 108                  | 320     | 6 |
| 70 19 00 30 | 30      | 350                  | 115                  | 460     | 6 |
| 70 19 00 35 | 35      | 355                  | 118                  | 580     | 6 |
| 70 19 00 40 | 40      | 375                  | 125                  | 760     | 2 |
| 70 19 00 50 | 50      | 385                  | 135                  | 1250    | 2 |
| 70 19 00 60 | 60      | 420                  | 165                  | 1900    | 2 |

### 10957R Spare plastic heads

| Code        | ∅<br>mm | △△<br>g | ☐  |
|-------------|---------|---------|----|
| 79 09 00 25 | 25      | 14      | 10 |
| 79 09 00 30 | 30      | 19      | 10 |
| 79 09 00 35 | 35      | 26      | 10 |
| 79 09 00 40 | 40      | 38      | 10 |
| 79 09 00 50 | 50      | 72      | 10 |
| 79 09 00 60 | 60      | 118     | 10 |

### 10958 Embossing hammer

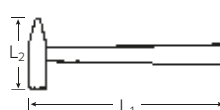
aluminium, cylindrical, with hickory handle.



| Code        | ∅<br>mm | L <sub>1</sub><br>mm | L <sub>2</sub><br>mm | △△<br>g | ☐ |
|-------------|---------|----------------------|----------------------|---------|---|
| 70 24 00 40 | 40      | 340                  | 155                  | 648     | 2 |

### 10960 Engineers hammers

with ash handles, DIN 1041.



| Code        | g    | L <sub>1</sub><br>mm | L <sub>2</sub><br>mm | △△<br>g | ☐ |
|-------------|------|----------------------|----------------------|---------|---|
| 70 11 00 05 | 100  | 260                  | 82                   | 148     | 6 |
| 70 11 00 01 | 200  | 280                  | 95                   | 254     | 6 |
| 70 11 00 04 | 300  | 300                  | 105                  | 400     | 6 |
| 70 11 00 02 | 500  | 320                  | 118                  | 600     | 6 |
| 70 11 00 06 | 800  | 350                  | 130                  | 951     | 2 |
| 70 11 00 03 | 1000 | 360                  | 135                  | 1132    | 2 |
| 70 11 00 07 | 1500 | 380                  | 145                  | 1617    | 2 |
| 70 11 00 08 | 2000 | 400                  | 155                  | 2285    | 2 |

Made in  
Germany

## 10970 Engineers hammers

with ash handles.



| Code              | lb.          | L <sub>1</sub><br>mm | L <sub>2</sub><br>mm | <br>g |  |
|-------------------|--------------|----------------------|----------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>70 12 0001</b> | <b>1/4</b>   | 270                  | 67                   | 176                                                                                    | 6                                                                                 |
| <b>70 12 0005</b> | <b>1/2</b>   | 290                  | 82                   | 320                                                                                    | 6                                                                                 |
| <b>70 12 0006</b> | <b>3/4</b>   | 310                  | 93                   | 454                                                                                    | 6                                                                                 |
| <b>70 12 0002</b> | <b>1</b>     | 320                  | 99                   | 572                                                                                    | 6                                                                                 |
| <b>70 12 0004</b> | <b>1 1/2</b> | 350                  | 118                  | 790                                                                                    | 2                                                                                 |
| <b>70 12 0003</b> | <b>2</b>     | 380                  | 126                  | 1044                                                                                   | 2                                                                                 |

## ES 10956/10960/2



175 x 350 x 45 mm, 2 pieces

| Code               | <br>g |
|--------------------|----------------------------------------------------------------------------------------|
| <b>96 83 81 25</b> | 1130                                                                                   |

|                                                                                   |                 |         |
|-----------------------------------------------------------------------------------|-----------------|---------|
|  | <b>No 10956</b> | Ø 35 mm |
|-----------------------------------------------------------------------------------|-----------------|---------|

|                                                                                    |                 |       |
|------------------------------------------------------------------------------------|-----------------|-------|
|  | <b>No 10960</b> | 500 g |
|------------------------------------------------------------------------------------|-----------------|-------|

|                    |            |     |
|--------------------|------------|-----|
| <b>83 81 20 25</b> | Empty tray | 114 |
|--------------------|------------|-----|

## ES 10956/10970/2



175 x 350 x 45 mm, 2 pieces

| Code               | <br>g |
|--------------------|------------------------------------------------------------------------------------------|
| <b>96 83 81 31</b> | 1075                                                                                     |

|                                                                                    |                 |         |
|------------------------------------------------------------------------------------|-----------------|---------|
|  | <b>No 10956</b> | Ø 35 mm |
|------------------------------------------------------------------------------------|-----------------|---------|

|                                                                                    |                 |       |
|------------------------------------------------------------------------------------|-----------------|-------|
|  | <b>No 10970</b> | 1 lb. |
|------------------------------------------------------------------------------------|-----------------|-------|

|                    |            |     |
|--------------------|------------|-----|
| <b>83 81 20 25</b> | Empty tray | 114 |
|--------------------|------------|-----|

## 100 Ribbed cold chisels

of tough tempered special steel,  
chrome plated.



| Code              | size      | L<br>mm | b<br>mm | <br>g |  |
|-------------------|-----------|---------|---------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>70 01 0006</b> | <b>6</b>  | 150     | 20      | 165                                                                                      | 10                                                                                  |
| <b>70 01 0008</b> | <b>8</b>  | 200     | 26      | 305                                                                                      | 5                                                                                   |
| <b>70 01 0010</b> | <b>10</b> | 250     | 30      | 507                                                                                      | 5                                                                                   |
| <b>70 01 0012</b> | <b>12</b> | 300     | 35      | 807                                                                                      | 5                                                                                   |

## 102 Cold chisels

DIN 6453,  
chrome vanadium steel,  
lacquered silver.



| Code              | size       | L<br>mm | b<br>mm | <br>g |  |
|-------------------|------------|---------|---------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>70 02 0002</b> | <b>125</b> | 125     | 15      | 96                                                                                       | 10                                                                                  |
| <b>70 02 0003</b> | <b>150</b> | 150     | 18      | 172                                                                                      | 10                                                                                  |
| <b>70 02 0004</b> | <b>175</b> | 175     | 21      | 269                                                                                      | 10                                                                                  |
| <b>70 02 0005</b> | <b>200</b> | 200     | 24      | 379                                                                                      | 5                                                                                   |
| <b>70 02 0007</b> | <b>250</b> | 250     | 25      | 479                                                                                      | 5                                                                                   |
| <b>70 02 0008</b> | <b>300</b> | 300     | 26      | 591                                                                                      | 5                                                                                   |

## 103 Cross-cut chisels

DIN 6451, flat,  
chrome vanadium steel,  
lacquered silver.



| Code              | size       | L<br>mm | b<br>mm | <br>g |  |
|-------------------|------------|---------|---------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>70 04 0003</b> | <b>150</b> | 150     | 16      | 147                                                                                      | 10                                                                                  |
| <b>70 04 0004</b> | <b>175</b> | 175     | 17      | 239                                                                                      | 10                                                                                  |
| <b>70 04 0005</b> | <b>200</b> | 200     | 18      | 340                                                                                      | 5                                                                                   |

## 110 Grooving chisel

flat,  
chrome vanadium steel,  
lacquered silver.



| Code              | L<br>mm | b<br>mm | <br>g |  |
|-------------------|---------|---------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>70 08 0001</b> | 240     | 26      | 298                                                                                        | 5                                                                                     |

## 112 Grooving chisel

as No 110,  
but with finger protector.



| Code              | L<br>mm | b<br>mm | <br>g |  |
|-------------------|---------|---------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>70 08 0002</b> | 240     | 26      | 434                                                                                        | 5                                                                                     |

## 112/1 Finger protector

for Cold Chisels No 102 and Cross-cut chisels No 103 from  
200 mm onward, for Grooving chisel No 110, shaft section 23 x 13 mm.

| Code              | <br>g |  |
|-------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>79 16 0001</b> | 101                                                                                        | 5                                                                                     |

## Pipe cutters, Miscellaneous tools

### 104 Drift pins

DIN 6458, octagonal, chrome vanadium, lacquered silver.



| Code     | size    | ●<br>mm | ●<br>mm | L<br>mm | ⚖<br>g | 📦  |
|----------|---------|---------|---------|---------|--------|----|
| 70060007 | 120 x 2 | 2       | 10      | 120     | 60     | 10 |
| 70060010 | 120 x 3 | 3       | 10      | 120     | 60     | 10 |
| 70060002 | 120 x 4 | 4       | 10      | 120     | 62     | 10 |
| 70060008 | 120 x 5 | 5       | 10      | 120     | 64     | 10 |
| 70060003 | 120 x 6 | 6       | 10      | 120     | 66     | 10 |
| 70060009 | 120 x 8 | 8       | 12      | 120     | 68     | 10 |

### 105 Centre punches

DIN 7250, octagonal, chrome vanadium, lacquered silver.



| Code     | size     | ●<br>mm | L<br>mm | ⚖<br>g | 📦  |
|----------|----------|---------|---------|--------|----|
| 70050001 | 100 x 10 | 10      | 100     | 52     | 10 |
| 70050005 | 120 x 10 | 10      | 120     | 63     | 10 |
| 70050002 | 120 x 12 | 12      | 120     | 90     | 10 |

### 108 Parallel pin punches

DIN 6450, octagonal, chrome vanadium, lacquered silver.



| Code     | size                  | ●<br>mm | ●<br>mm | L<br>mm | ⚖<br>g | 📦  |
|----------|-----------------------|---------|---------|---------|--------|----|
| 70071152 | 115 x 2               | 2       | 8       | 115     | 29     | 10 |
| 70070013 | 125 x 3               | 3       | 8       | 125     | 35     | 10 |
| 70070001 | 150 x 2.5             | 2.5     | 10      | 150     | 65     | 10 |
| 70070002 | 150 x 3               | 3       | 10      | 150     | 62     | 10 |
| 70070003 | 150 x 4               | 4       | 10      | 150     | 64     | 10 |
| 70070004 | 150 x 5               | 5       | 10      | 150     | 67     | 10 |
| 70070005 | 150 x 6               | 6       | 10      | 150     | 72     | 10 |
| 70070006 | 150 x 8               | 8       | 10      | 150     | 81     | 10 |
| 70070009 | 175 x 3               | 3       | 10      | 175     | 57     | 10 |
| 70070010 | 175 x 4 <sup>1)</sup> | 4       | 10      | 175     | 64     | 10 |
| 70070012 | 175 x 6               | 6       | 10      | 175     | 69     | 10 |
| 70070008 | 200 x 8               | 8       | 12      | 200     | 141    | 10 |
| 70070011 | 200 x 10              | 10      | 12      | 200     | 159    | 10 |

<sup>1)</sup> for use on Mercedes-Benz (retaining pins of disc brake pads)

● diameter of tip

● size of handle, octagon

### 109 Pin punches

with guide bush.



| Code     | size | ●<br>mm | ●<br>mm | L<br>mm | ⚖<br>g | 📦  |
|----------|------|---------|---------|---------|--------|----|
| 70090001 | 1    | 0.9     | 5       | 80      | 7      | 10 |
| 70090002 | 2    | 1.4     | 5.5     | 82      | 12     | 10 |
| 70090003 | 3    | 1.8     | 6       | 86      | 12     | 10 |
| 70090004 | 4    | 2.4     | 7       | 95      | 18     | 10 |
| 70090005 | 5    | 2.8     | 7       | 97      | 19     | 10 |
| 70090006 | 6    | 3.4     | 8       | 100     | 25     | 10 |
| 70090007 | 7    | 3.9     | 9       | 100     | 27     | 10 |
| 70090008 | 8*   | 5.9     | 10      | 103     | 47     | 10 |

● diameter of tip

● diameter of handle

\* without guide bush

### ES 102/108/109/4



175 x 350 x 30 mm, 4 pieces

| Code     | ⚖<br>g               |
|----------|----------------------|
| 96838123 | 555                  |
| No 102   | 175 mm               |
| No 108   | 150 x 6; 175 x 6 mm  |
| No 109   | size 6; 100 x 3.4 mm |
| 83812027 | Empty tray 115       |

### ES 102/105/108/8



175 x 350 x 33 mm, 8 pieces

| Code     | ⚖<br>g                                                    |
|----------|-----------------------------------------------------------|
| 96838124 | 900                                                       |
| No 102   | 175 mm                                                    |
| No 105   | 120 x 12 mm                                               |
| No 108   | 150 x 2.5; 150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm |
| 83812036 | Empty tray 114                                            |

### 102-5/6 Sets: Chisels, pins, punches

6 pieces

content: 1 each

No 106/125 mm

No 106/150 mm

No 107/125 mm

No 104/120 x 2;

120 x 4 mm

No 105/120 x 10 mm

D = in plastic stand

T = in textile bag



| Code     | No        | ⚖<br>g | 📦 |
|----------|-----------|--------|---|
| 98812201 | 102-5/6 D | 445    | 1 |
| 98812202 | 102-5/6 T | 426    | 5 |

### 104-5/6D Set: Drift pins, centre punches

6 pieces

Content: 1 each

No 104/120 x 2; 120 x 3; 120 x 4;

120 x 5; 120 x 6 mm

No 105/120 x 10 mm

in plastic stand



| Code     | ⚖<br>g | 📦 |
|----------|--------|---|
| 96700601 | 417    | 1 |

## 105-8/6K Pin punch-/centre punch set

6 pieces  
in transparent plastic container  
stand.

Content: 1 each

No 108/150 x 2.5; 150 x 3;  
150 x 4; 150 x 5; 150 x 6 mm;

DIN 6450/ Form C

No 105/120 x 10 mm;  
DIN 7250



| Code               | g   | g |
|--------------------|-----|---|
| <b>96 70 07 11</b> | 483 | 1 |

## 108/6 Sets: Parallel pin punches

6 pieces

Content: 1 each

No 108/150 x 2.5; 150 x 3;  
150 x 4; 150 x 5; 150 x 6;  
150 x 8 mm

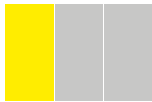
D = in plastic stand

T = in textile bag



| Code               | No             | g   | g |
|--------------------|----------------|-----|---|
| <b>96 70 07 01</b> | <b>108/6 D</b> | 450 | 1 |
| <b>96 70 07 02</b> | <b>108/6 T</b> | 424 | 5 |

## TCS 102-109/10956/10960/6



TCS



175 x 350 x 40 mm, 6 pieces

| Code               | g    |
|--------------------|------|
| <b>96 83 81 81</b> | 1500 |

|                                                                                    |                 |                      |
|------------------------------------------------------------------------------------|-----------------|----------------------|
|  | <b>No 10956</b> | Ø 35 mm              |
|  | <b>No 10960</b> | 500 g                |
|  | <b>No 102</b>   | 175 mm               |
|  | <b>No 108</b>   | 150 x 6; 175 x 6 mm  |
|  | <b>No 109</b>   | size 6; 100 x 3.4 mm |

## TCS 102-108/11

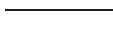


TCS



175 x 350 x 33 mm, 11 pieces

| Code               | g    |
|--------------------|------|
| <b>96 83 87 54</b> | 1665 |

|                                                                                    |               |                                                              |
|------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------|
|  | <b>No 102</b> | 150; 200; 250 mm                                             |
|  | <b>No 105</b> | 120 x 10; 120 x 12 mm                                        |
|  | <b>No 108</b> | 150 x 2.5; 150 x 3; 150 x 4; 150 x 5;<br>150 x 6; 150 x 8 mm |

## TCS 102-108/10957/10960 MF



TCS



530 x 350 x 40 mm, 12 pieces

| Code                                                                              |          | g                                                 |
|-----------------------------------------------------------------------------------|----------|---------------------------------------------------|
| 96830355                                                                          |          | 3343                                              |
|  | No 102   | 200 mm                                            |
|  | No 103   | 150 mm                                            |
|  | No 105   | 120 x 10 mm                                       |
|  | No 108   | 150 x 3; 150 x 4; 150 x 5; 150 x 6;<br>150 x 8 mm |
|  | No 10957 | Ø 40 mm                                           |
|  | No 10960 | 500; 800 g                                        |
|  | No 12718 |                                                   |

## TCS 102-108/10957/12718/13



TCS



530 x 350 x 40 mm, 13 pieces

| Code                                                                                                |  |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                                     | g                                                                                     |
| <b>96 83 02 26</b>                                                                                  | 3730                                                                                  |
|  <b>No 102</b>   | 200 mm                                                                                |
|  <b>No 103</b>   | 150 mm                                                                                |
|  <b>No 105</b>   | 120 x 10 mm                                                                           |
|  <b>No 108</b>   | 150 x 3; 150 x 4; 150 x 5; 150 x 6;<br>150 x 8; 200 x 8 mm                            |
|  <b>No 10957</b> | Ø 40 mm                                                                               |
|  <b>No 10960</b> | 500; 800 g                                                                            |
|  <b>No 12718</b> |                                                                                       |

## TCS 102-108/10960/10



TCS



175 x 350 x 40 mm, 10 pieces

| Code                                                                                                | <br>g |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>96830361</b>                                                                                     | 1569                                                                                       |
|  <b>No 102</b>   | 200 mm                                                                                     |
|  <b>No 105</b>   | 120 x 12 mm                                                                                |
|  <b>No 108</b>   | 115 x 2; 150 x 3; 150 x 4; 150 x 5;<br>150 x 6; 175 x 4; 200 x 8 mm                        |
|  <b>No 10960</b> | 500 g                                                                                      |

## Pipe cutters, Miscellaneous tools

### TCS 102-108/10957/10960/13



TCS



530 x 350 x 60 mm, 13 pieces

| Code                                                                                              | g                                              |  |
|---------------------------------------------------------------------------------------------------|------------------------------------------------|--|
| <b>96830177</b>                                                                                   | 5540                                           |  |
|  <b>No 102</b>   | 200; 300 mm                                    |  |
|  <b>No 103</b>   | 175 mm                                         |  |
|  <b>No 105</b>   | 120 x 12 mm                                    |  |
|  <b>No 108</b>   | 150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm |  |
|  <b>No 10957</b> | Ø 50 mm                                        |  |
|  <b>No 10960</b> | 500; 800; 1000 g                               |  |

### TCS 102-108/10957/10960/16



TCS



530 x 350 x 45 mm, 16 pieces

| Code                                                                                                      | g                                              |  |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------|--|
| <b>96830609</b>                                                                                           | 3715                                           |  |
|  <b>No 102</b>         | 200 mm                                         |  |
|  <b>No 103</b>         | 150 mm                                         |  |
|  <b>No 105</b>         | 120 x 10 mm                                    |  |
|  <b>No 108</b>         | 150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm |  |
|  <b>No 10957</b>       | Ø 40 mm                                        |  |
|  <b>No 10960</b>       | 500 g                                          |  |
|  <b>No 12373</b>       |                                                |  |
|  <b>No 12600</b>       | 500 g                                          |  |
|  <b>No 12718</b>       |                                                |  |
|  <b>No 12935/3</b>     | 3 m                                            |  |
|  <b>No 65 64 2 250</b> |                                                |  |
|  <b>No 39 Pkw</b>      | 400 mm                                         |  |

 Made in Germany

### TCS 102-108/10956/10960/18



TCS



530 x 350 x 55 mm, 18 pieces

| Code                                                                                                 | g                                                         |  |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--|
| <b>96830620</b>                                                                                      | 3653                                                      |  |
|  <b>No 102</b>      | 150 mm                                                    |  |
|  <b>No 103</b>      | 150 mm                                                    |  |
|  <b>No 105</b>      | 120 x 10 mm                                               |  |
|  <b>No 108</b>      | 150 x 2.5; 150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm |  |
|  <b>No 10956</b>    | Ø 50 mm                                                   |  |
|  <b>No 10960</b>    | 300; 500 g                                                |  |
|  <b>No 10356</b>    |                                                           |  |
|  <b>No 10670</b>    | 285 mm                                                    |  |
|  <b>No 10672</b>    | 20 x 315 mm                                               |  |
|  <b>No 12374</b>    |                                                           |  |
|  <b>No 12900N</b>   |                                                           |  |
|  <b>No 12965N</b> |                                                           |  |

#### 10669 Fine scraper

- three-sided hollow-profile scraper with black plastic protective cap
- black plastic handle



| Code            | L mm | Blade mm | g  | Box |
|-----------------|------|----------|----|-----|
| <b>72060100</b> | 147  | 25 x 8   | 28 | 1   |

#### 10670 Three square engineers scrapers

special steel.



| Code            | L mm       | g   | Box |
|-----------------|------------|-----|-----|
| <b>72063101</b> | <b>210</b> | 106 | 5   |
| <b>72063103</b> | <b>260</b> | 124 | 5   |
| <b>72063104</b> | <b>285</b> | 140 | 5   |
| <b>72063105</b> | <b>310</b> | 152 | 5   |

#### 10672 Flat engineers scrapers

special steel.



| Code            | mm              | g   | Box |
|-----------------|-----------------|-----|-----|
| <b>72053104</b> | <b>20 x 315</b> | 227 | 5   |
| <b>72053105</b> | <b>25 x 365</b> | 367 | 5   |

#### 10676 Three square engineers bearing scraper

special steel.



| Code            | mm            | g   | Box |
|-----------------|---------------|-----|-----|
| <b>72083103</b> | 85 x 12 x 315 | 160 | 5   |

## 12025 Engineers file, round

DIN 8349, cut 2



| Code               | L<br>mm | g   |   |
|--------------------|---------|-----|---|
| <b>72 12 31 00</b> | 210     | 118 | 5 |

## 12030 Engineers file, half round

DIN 8349, cut 2



| Code               | L<br>mm | g   |   |
|--------------------|---------|-----|---|
| <b>72 13 31 00</b> | 260     | 317 | 5 |

## 12035 Engineers file, three-square

DIN 8349, cut 2



| Code               | L<br>mm | g   |   |
|--------------------|---------|-----|---|
| <b>72 14 31 00</b> | 210     | 201 | 5 |

## 12036 Engineers file, hand

DIN 8349, cut 2



| Code               | L<br>mm | g   |   |
|--------------------|---------|-----|---|
| <b>72 17 31 02</b> | 260     | 339 | 5 |

## 12800 Set warding files

6 pieces, in textile bag, DIN 7283,  
Content:  
1 file each, hand, flat, half round,  
three square, square, round.



| Code               | L<br>mm | g   |   |
|--------------------|---------|-----|---|
| <b>72 23 00 01</b> | 100     | 111 | 5 |

## 13100 Set of needle files

6 pieces, in textile bag,  
Content:  
1 file each, round, half round,  
three square, square, hand, flat.



| Code               | L<br>mm | g  |   |
|--------------------|---------|----|---|
| <b>96 72 28 01</b> | 140     | 50 | 1 |

## 12200 Hand vice

forged C 35,  
width of jaws 48 mm.



| Code               | L<br>mm | g   |   |
|--------------------|---------|-----|---|
| <b>71 20 00 00</b> | 145     | 673 | 1 |

## 12050 Tubular hacksaw

with blade size 300 mm/12".



| Code               | L<br>mm | g   |   |
|--------------------|---------|-----|---|
| <b>72 21 00 00</b> | 465     | 490 | 1 |

## 12050R Spare hacksaw blades for No 12050

10 pieces, H.S. Steel, 24 teeth per inch.

| Code               | L<br>mm | g   |   |
|--------------------|---------|-----|---|
| <b>79 18 00 01</b> | 300     | 174 | 1 |

## 12053 Hacksaw frame



| Code               | L<br>mm | g   |   |
|--------------------|---------|-----|---|
| <b>72 21 00 02</b> | 252     | 159 | 1 |

## 12053R Spare hacksaw blades for No 12053

6 pieces, Chrome Alloy Tool Steel, 32 teeth per inch.

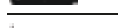
| Code               | L<br>mm | g  |   |
|--------------------|---------|----|---|
| <b>79 18 00 02</b> | 158     | 23 | 1 |

## ES 10670-13110/11



530 x 350 x 35 mm, 11 pieces

| Code               | g    |
|--------------------|------|
| <b>96 83 81 73</b> | 2120 |

|                                                                                     |                   |        |
|-------------------------------------------------------------------------------------|-------------------|--------|
|  | <b>No 10670</b>   | 265 mm |
|  | <b>No 12025</b>   | 210 mm |
|  | <b>No 12030</b>   | 260 mm |
|  | <b>No 12035</b>   | 210 mm |
|  | <b>No 12036</b>   | 260 mm |
|  | <b>No 12050</b>   | 465 mm |
|  | <b>No 12320</b>   |        |
|  | <b>No 12321</b>   |        |
|  | <b>No 12377</b>   |        |
|  | <b>No 12935/3</b> | 3 m    |
|  | <b>No 13110</b>   | 300 mm |
| <b>83 81 20 88</b>                                                                  | Empty tray        | 301    |

## Pipe cutters, Miscellaneous tools

### TCS 10356-12965/5



TCS



175 x 350 x 40 mm, 5 pieces

| Code                                                                                                                  | ΔΔ<br>g           |
|-----------------------------------------------------------------------------------------------------------------------|-------------------|
| <b>96 83 87 90</b>                                                                                                    | 595               |
|  <b>No 12053</b>                     | 158 mm            |
|  <b>No 10356</b><br><b>No 10356R</b> | 40 mm<br>10 Stück |
|  <b>No 12320</b>                     |                   |
|  <b>No 12965</b>                     |                   |

### TCS 11095-13110/8



TCS



175 x 350 x 40 mm, 8 pieces

| Code                                                                                                   | ΔΔ<br>g        |
|--------------------------------------------------------------------------------------------------------|----------------|
| <b>96 83 87 89</b>                                                                                     | 700            |
|  <b>No 12000</b>    | ISO            |
|  <b>No 11095/20</b> | 0.05 - 1.00 mm |
|  <b>No 12935/3</b>  | 3 m            |
|  <b>No 12321</b>    |                |
|  <b>No 12322</b>    |                |
|  <b>No 12665/52</b> | 0.25 - 6 mm    |
|  <b>No 12900</b>    |                |
|  <b>No 13110</b>    | 300 mm         |

### 12000 Universal thread restorers

suitable for inside and outside threads.



| Code               | size       | L<br>mm | ΔΔ<br>g | box |
|--------------------|------------|---------|---------|-----|
| <b>72 10 00 04</b> | <b>ISO</b> | 230     | 119     | 10  |
| <b>72 10 00 03</b> | <b>SAE</b> | 230     | 118     | 10  |
| <b>72 10 00 02</b> | <b>WW</b>  | 230     | 122     | 10  |

| Pitch<br>mm | metr.<br>thread | threads<br>per inch | Whitworth<br>thread | SAE/US<br>threads<br>per inch |
|-------------|-----------------|---------------------|---------------------|-------------------------------|
| 0.80        | 5               | 24                  | 3/16 + 7/32         | 24                            |
| 1.00        | 6 + 7           | 20                  | 1/4                 | 20                            |
| 1.25        | 8 + 9           | 18                  | 5/16                | 18                            |
| 1.50        | 10 + 11         | 16                  | 3/8                 | 16                            |
| 1.75        | 12              | 14                  | 7/16                | 14                            |
| 2.00        | 14 + 16         | 12                  | 1/2 + 9/16          | 13                            |
| 2.50        | 18, 20, 22      | 11                  | 5/8 + 11/16         | 12                            |
| 3.00        | 24 + 27         | 10                  | 3/4 + 13/16         | 11                            |

### TCS 12025-13110/11



TCS



530 x 350 x 35 mm, 11 pieces

| Code                                                                                                 | ΔΔ<br>g |
|------------------------------------------------------------------------------------------------------|---------|
| <b>96 83 87 59</b>                                                                                   | 2070    |
|  <b>No 12025</b>    | 210 mm  |
|  <b>No 12030</b>    | 260 mm  |
|  <b>No 12035</b>    | 210 mm  |
|  <b>No 12036</b>    | 260 mm  |
|  <b>No 12050</b>    | 300 mm  |
|  <b>No 12320</b>    |         |
|  <b>No 12321</b>    |         |
|  <b>No 12718</b>    |         |
|  <b>No 12935/3</b>  | 3 m     |
|  <b>No 12965N</b> |         |
|  <b>No 13110</b>  | 300 mm  |

### 905/25 Stud remover set

M 5-M 16, 3/16"-5/8", 25 pieces, in green plastic box.

Content:

- 5 HSS twist drills sizes (3.2; 4.8; 6.4; 8; 8.7 mm)
- 5 Fluted Removal Pins sizes 1-5 for threads M5-M16
- 5 Splined Nuts, sizes 1-5
- 10 Drill Guides, sizes 1-10



| Code               | ΔΔ<br>g | box |
|--------------------|---------|-----|
| <b>96 71 30 25</b> | 555     | 1   |

### 906 Spare parts

Removal pins and splined nuts, in pairs in plastic bags.

| Code               | size     | for<br>threads    | ΔΔ<br>g | box |
|--------------------|----------|-------------------|---------|-----|
| <b>71 31 00 01</b> | <b>1</b> | M5-M6 3/16-1/4"   | 14      | 1   |
| <b>71 31 00 02</b> | <b>2</b> | M7-M8 1/4-5/16"   | 20      | 1   |
| <b>71 31 00 03</b> | <b>3</b> | M10 3/8"          | 33      | 1   |
| <b>71 31 00 04</b> | <b>4</b> | M12 7/16"         | 46      | 1   |
| <b>71 31 00 05</b> | <b>5</b> | M14-M16 1/2-9/16" | 645     | 1   |

## 900/6T Screw EXTRACTOR set

in textile bag.



| Code            | Content                |       |   |
|-----------------|------------------------|-------|---|
| <b>96710101</b> | 1 each No 900 size 1-6 | 190 g | 5 |

## 900 Screw EXTRACTOR



| Code            | size     | for bolts         | mm  | "     | L mm | recommend. Drill |     |    |
|-----------------|----------|-------------------|-----|-------|------|------------------|-----|----|
| <b>71010001</b> | <b>1</b> | M3-M4 1/8-5/32"   | 3   | 1/8   | 49   | 2 mm 5/64"       | 3   | 10 |
| <b>71010002</b> | <b>2</b> | M5-M7 3/16-1/4"   | 3.4 | 9/64  | 54   | 3 mm 7/64"       | 6   | 10 |
| <b>71010003</b> | <b>3</b> | M8 5/16"          | 4.9 | 3/16  | 59   | 5 mm 3/16"       | 12  | 10 |
| <b>71010004</b> | <b>4</b> | M10-M12 3/8-7/16" | 7   | 9/32  | 65   | 6.4 mm 1/4"      | 25  | 5  |
| <b>71010005</b> | <b>5</b> | M14-M16 1/2-9/16" | 9   | 23/64 | 88   | 8 mm 5/16"       | 50  | 5  |
| <b>71010006</b> | <b>6</b> | M18-M22 5/8-3/4"  | 12  | 31/64 | 95   | 12 mm 15/32"     | 103 | 5  |

## 901/5T Set of screw extractors

for extracting sheared screws, bolts & stud screws from threaded holes, suitable for right-hand and left-hand threads, in textile bag



| Code            | size       |       |   |
|-----------------|------------|-------|---|
| <b>96710505</b> | <b>1-5</b> | 246 g | 1 |

## 901 Screw EXTRACTOR

with centre punch tip, double-edged.



| Code            | size     | for bolts         | mm   | "   | L mm | recommend Drill |     |    |
|-----------------|----------|-------------------|------|-----|------|-----------------|-----|----|
| <b>71050001</b> | <b>1</b> | M5-M6 3/16-1/4"   | 6.35 | 1/4 | 60   | 3.2 mm 1/8"     | 6   | 10 |
| <b>71050002</b> | <b>2</b> | M8-M10 5/16-3/8"  | 9.5  | 3/8 | 67   | 4.8 mm 3/16"    | 16  | 10 |
| <b>71050003</b> | <b>3</b> | M10-M12 7/16-1/2" | 12.7 | 1/2 | 75   | 6.4 mm 1/4"     | 30  | 10 |
| <b>71050004</b> | <b>4</b> | M12-M16 1/2-9/16" | 15.9 | 5/8 | 90   | 9.5 mm 3/8"     | 60  | 10 |
| <b>71050005</b> | <b>5</b> | M16-M20 5/8-3/4"  | 19   | 3/4 | 90   | 11.1 mm 7/16"   | 100 | 10 |

## 904 Stud remover

- Suitable for all sizes of studs from 6-12 mm.
  - Also suitable for percussion screwdriver use.
  - Will cope with rusted or scale-coated screws with a minimum of 3 mm protruding.
- Chuck: size 36 mm  
Clamping screw: size 24 mm



| Code            |     |       |   |
|-----------------|-----|-------|---|
| <b>71340000</b> | 3/8 | 346 g | 1 |

## 12615 Nut splitters

zinc plated, mechanical, for splitting seized or overtightened nuts up to class 8.

Does not damage the threaded pin. As the spindle is tightened, the nutsplitter body has to be locked with an open-jaw spanner to prevent it turning. Cutting chisel made of high-grade alloy tool steel.



| Code            | size     | for nuts SW mm | Max. torque N·m |       |   |
|-----------------|----------|----------------|-----------------|-------|---|
| <b>71250011</b> | <b>1</b> | 10-18          | 40              | 193 g | 1 |
| <b>71250012</b> | <b>2</b> | 19-27          | 60              | 386 g | 1 |

## 12665 Screw pitch gauge

0.25 to 6 mm and 4 to 62 t.p.i. (metric/Whitworth threads).



| Code            | size      |      |    |
|-----------------|-----------|------|----|
| <b>77270003</b> | <b>52</b> | 79 g | 10 |

## 12900N Vernier calliper

as per DIN 862, vernier readings 1/20 mm and 1/128", stainless steel, in plastic pouch.



| Code            | measuring range mm/" |       |   |
|-----------------|----------------------|-------|---|
| <b>77371001</b> | 150/6                | 185 g | 1 |

## 12900/1N Vernier calliper

- with metal housing cover and metal buttons
- with data output (mini USB)
- mechanical system made of stainless, hardened steel
- with or without thumb wheel (included in delivery for customer to fit if required)
- large LCD display with clear read-offs, figures 9 mm high
- display accuracy 0.01 mm/ 0.0005"
- measuring tips ground fine and lapped
- ON/OFF button
- with depth gauge
- unit of measure in mm or imperial, zeroing possible at any position
- incl. 2 x 3 V battery (Type CR2032) packaged in accordance with UN 3091, Class 9
- in plastic case



| Code            | measuring range mm/" |       |   |
|-----------------|----------------------|-------|---|
| <b>77371002</b> | 150/6                | 312 g | 1 |

## Pipe cutters, Miscellaneous tools

### 12900/3 Tyre tread Vernier calliper

- sturdy brass construction
- smooth ground surface



| Code       | measuring range<br>mm |  | g |  |
|------------|-----------------------|-----------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------|
| 77 37 1004 | 30                    | 41                                                                                | 1 |                                                                                   |

### 12900/4 Electronic tyre tread Vernier calliper

- large LCD display with clear read-offs, figures 9.5 mm high
- display accuracy 0.01 mm/0.0005"
- ON/OFF push button
- unit of measure switchable mm/inch
- zeroing possible in any position
- incl. 1 x 3 V battery (Type CR2032) packaged in accordance with UN 3091, Class 9



| Code       | measuring range<br>mm/" |  | g |  |
|------------|-------------------------|-----------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------|
| 77 37 1005 | 25/1                    | 64                                                                                | 1 |                                                                                   |

### 12935 Tape measure

with tape lock. Metric-Inch scales.



| Code        | size | L<br>m |  | g  |  |
|-------------|------|--------|-------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|
| 77 04 00 10 | 3    | 3      | 92                                                                                  | 10 |                                                                                     |
| 77 04 00 11 | 5    | 5      | 164                                                                                 | 10 |                                                                                     |

### 13110 Steel rule

Metric-Inch scales, length 300 mm.



| Code        | Divisions<br>Top Edge " | Divisions<br>Lower Edge mm |  | g |  |
|-------------|-------------------------|----------------------------|-------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------|
| 77 46 00 01 | 1/16, 1/32, 1/64        | 0.5; 1                     | 26                                                                                  | 5 |                                                                                     |

### 12915 Ratchet tap holders

steel, chrome plated.



| Code        | size | Capacity<br>mm | DIN <sup>1)</sup> | ISO <sup>2)</sup> | L<br>mm |  | g |  |
|-------------|------|----------------|-------------------|-------------------|---------|-------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------|
| 77 39 00 01 | 1    | 2.0-5.0        | M3-8              | M1-6              | 85      | 180                                                                                 | 1 |                                                                                     |
| 77 39 00 02 | 2    | 4.6-8          | M5-12             | M6-12             | 110     | 305                                                                                 | 1 |                                                                                     |

<sup>1)</sup> for taps DIN

<sup>2)</sup> for taps ISO

### 12932 Padlock



| Code        |  | g |  |
|-------------|-------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------|
| 77 21 00 02 | 85                                                                                  | 1 |                                                                                     |

### 12250 Force feed oil can

metal container, brass pump.  
Content:  
500 ccm



| Code        |  | g |  |
|-------------|-------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------|
| 77 01 00 01 | 270                                                                                 | 1 |                                                                                     |

### 12251 Plastic oil can

made of plastic.  
Content:  
250 ccm



| Code        |  | g |  |
|-------------|---------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------|
| 77 11 00 02 | 80                                                                                    | 5 |                                                                                       |

### 12320 Electricians cable knife

with stainless blade.



| Code        | Blade<br>mm |  | g  |  |
|-------------|-------------|---------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------|
| 77 02 00 00 | 90          | 81                                                                                    | 10 |                                                                                       |

### 12321 Scribing iron

with knurled centre-section.  
1 straight and 1 offset blade;  
blades gunmetal finished.



| Code        | L<br>mm |  | g  |  |
|-------------|---------|---------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------|
| 77 10 00 00 | 250     | 31                                                                                    | 10 |                                                                                       |

## 12322 Tungsten carbide scribing iron

straight type; sturdy shank with tungsten carbide tip.  
Can be reground. Holder and clip.



| Code              | L<br>mm | ΔΔ<br>g |    |
|-------------------|---------|---------|----|
| <b>77 10 0001</b> | 150     | 40      | 10 |

## 12374 Wire brush

wood, steel wire dia. 0.35 mm.



| Code              | L<br>mm | Rows | ΔΔ<br>g |    |
|-------------------|---------|------|---------|----|
| <b>77 09 0000</b> | 290     | 4    | 129     | 10 |

## 12377 Wire brush

with brass coated steel bristles.



| Code               | L<br>mm | ΔΔ<br>g |    |
|--------------------|---------|---------|----|
| <b>77 09 00 10</b> | 270     | 140     | 24 |

## 12378 File brush



| Code              | L<br>mm | ΔΔ<br>g |   |
|-------------------|---------|---------|---|
| <b>77 25 0000</b> | 260     | 74      | 5 |

## 13115 Brass wire brush

for use on light alloys.



| Code              | L<br>mm | Rows | ΔΔ<br>g |   |
|-------------------|---------|------|---------|---|
| <b>77 47 0001</b> | 280     | 4    | 134     | 1 |

## 12481 Scraper



| Code              | L<br>mm | b<br>mm | ΔΔ<br>g |    |
|-------------------|---------|---------|---------|----|
| <b>77 07 0000</b> | 212     | 60      | 65      | 10 |

## 12600 Magnetic lifters

Loss of adhesion above 80°C.



| Code               | lifting power<br>g       | ∅<br>mm | L<br>mm | ΔΔ<br>g |   |
|--------------------|--------------------------|---------|---------|---------|---|
| <b>77 26 00 27</b> | <b>270</b> <sup>1)</sup> | 5       | 500     | 30      | 1 |
| <b>77 26 00 25</b> | <b>500</b>               | 8       | 460     | 70      | 1 |
| <b>77 26 00 60</b> | <b>1800</b>              | 15      | 525     | 232     | 1 |
| <b>77 26 02 00</b> | <b>3000</b>              | 19      | 535     | 297     | 1 |

<sup>1)</sup> Miniature magnetic lifter with tiny head, very powerful

## 12910 Adjustable hook spanners

for slotted nuts as per DIN 1810, adjustable.



| Code               | size     | ∅<br>mm | ΔΔ<br>g |   |
|--------------------|----------|---------|---------|---|
| <b>44 01 00 01</b> | <b>1</b> | 20-42   | 90      | 5 |
| <b>44 01 00 02</b> | <b>2</b> | 45-90   | 245     | 5 |
| <b>44 01 00 03</b> | <b>3</b> | 95-165  | 686     | 5 |

## 12921M Telescopic stainless steel mirror

**FOD**

- Unbreakable mirrors made of stainless steel (FOD)
- No bolted joints (FOD)
- Rust-proof stainless steel telescopic arm
- Universal joint (180° action), self-tensioning
- Special plastic handle ensures a firm grip and safe working, resistant to chemicals



| Code               | size                              | mm        | L<br>mm | ΔΔ<br>g |   |
|--------------------|-----------------------------------|-----------|---------|---------|---|
| <b>77 40 10 32</b> | <b>1 1/4"/32 mm</b>               | ∅ 32      | 171-699 | 56      | 1 |
| <b>77 40 10 45</b> | <b>1 3/4" x 2 3/4"/45 x 70 mm</b> | □ 45 x 70 | 178-927 | 76      | 1 |
| <b>77 40 10 57</b> | <b>2 1/4"/57 mm</b>               | ∅ 57      | 178-921 | 70      | 1 |

## 12920N Telescopic mirror

with non-twisting, oval-section telescopic rod.



| Code               | mm      | L<br>mm | ΔΔ<br>g |   |
|--------------------|---------|---------|---------|---|
| <b>77 40 10 01</b> | 65 x 43 | 310-750 | 65      | 1 |

## Pipe cutters, Miscellaneous tools

### 12920NR-1 Replacement mirror for No 12920N

| Code        |  |  |
|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 79 40 10 01 | 43 g                                                                              | 1                                                                                 |

### 12920NR-2 Stainless steel replacement mirror for No 12920N

| Code        |  |  |
|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 79 40 10 02 | 43 g                                                                              | 1                                                                                 |

### 12921N Telescopic mirrors



| Code        | Ø mm | L mm    |  |  |
|-------------|------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 77 40 10 30 | 30   | 265-705 | 108 g                                                                             | 1                                                                                 |
| 77 40 10 40 | 40   | 275-715 | 115 g                                                                             | 1                                                                                 |
| 77 40 10 50 | 50   | 285-725 | 110 g                                                                             | 1                                                                                 |
| 77 40 10 60 | 60   | 295-735 | 130 g                                                                             | 1                                                                                 |

### 12921NR Replacement mirror for 12921N

| Code        | Ø mm |  |  |
|-------------|------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 79 40 10 30 | 30   | 10 g                                                                              | 1                                                                                  |
| 79 40 10 40 | 40   | 15 g                                                                              | 1                                                                                  |
| 79 40 10 50 | 50   | 20 g                                                                              | 1                                                                                  |
| 79 40 10 60 | 60   | 27 g                                                                              | 1                                                                                  |

### 13120N Telescopic mirror

Illuminated (LED) and with batteries (approx. 150 hours of light), for inspecting numerous kinds of joints. The LED light source can be detached and used as a separate penlight. The concave mirror provides 5-times magnification. With non-twisting, oval-section telescopic rod.



| Code        | Ø mm | L mm    |  |  |
|-------------|------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 77 48 00 02 | 55   | 310-750 | 235 g                                                                               | 1                                                                                   |

### 13120R Replacement concave mirror for No 13120N, No 13120-1

| Code        |  |  |
|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 79 40 10 55 | 22 g                                                                                | 1                                                                                   |

### 12922E Claw lifter

with ergonomic handle.



| Code        | Ø mm | L mm |  |  |
|-------------|------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 77 40 11 03 | 6    | 540  | 113 g                                                                               | 1                                                                                   |
| 77 40 72 03 | 8    | 540  | 148 g                                                                               | 1                                                                                   |

### 12941N Soldering gun

230 V, 50-60 Hz, 100 W.



| Code        |  |  |
|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 96 77 42 00 | 839 g                                                                               | 1                                                                                   |

### 12941R/4 Replacement tip for soldering gun No 12941N

| Code        |  |  |
|-------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 79 14 00 06 | 9 g                                                                                  | 1                                                                                     |

### 12943N Soldering iron

230 V, 50-60 Hz.



| Code        | W  |  |  |
|-------------|----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 77 42 00 30 | 30 | 224 g                                                                                 | 1                                                                                     |
| 77 42 00 60 | 60 | 276 g                                                                                 | 1                                                                                     |

### 12943R Replacement tips for No 12943N

| Code        | size |  |  |
|-------------|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 79 14 00 30 | 30   | 7 g                                                                                   | 1                                                                                     |
| 79 14 00 60 | 60   | 31 g                                                                                  | 1                                                                                     |

### 12965N Safety knife

- Blade adjustable by means of slider
- Spare blades can be stored inside the handle
- Blade changes without tools
- With hanging hole
- Ideally suited for cutting card, rubber, leather, wood etc.
- Tool body made of cast zinc.



| Code        | L mm |  |  |
|-------------|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 77 62 10 01 | 174  | 200 g                                                                                 | 1                                                                                     |

## 12965-1 Self-retracting cutter

- With automatic blade retraction
- Spare blades can be stored inside the handle
- Blade changes without tools
- With hanging hole
- Ideally suited for cutting card, rubber, leather, wood etc.
- Tool body made of cast zinc.



| Code              | L<br>mm |     |   |
|-------------------|---------|-----|---|
| <b>77 62 1002</b> | 174     | 197 | 1 |

## 12965R Spare blades

5 pieces,  
for No 12965N, 12965-1.



| Code              |    |    |
|-------------------|----|----|
| <b>79 25 0001</b> | 25 | 20 |

## 12965-2 Snap-off blade cutter 9 mm

- With three 9 mm snap-off blades (one blade fitted, two in the magazine)
- Slider with blade-locking function
- Includes blade snap-off tool and protective cap
- With stainless steel blade guide
- Ideally suited for cutting card, rubber, leather, wood etc.
- Tool body made of cast zinc.



| Code              | L<br>mm |    |   |
|-------------------|---------|----|---|
| <b>77 62 1003</b> | 145     | 60 | 1 |

## 12965-2R Spare blades 9 mm

10 pieces, für No 12965-2.



| Code              |    |   |
|-------------------|----|---|
| <b>79 25 1003</b> | 26 | 1 |

## 12965-3 Snap-off blade cutter 18 mm

- With three 18 mm snap-off blades (one blade fitted, two in the magazine)
- Slider with blade-locking function
- Automatic blade reloading
- Ergonomic design with synthetic caoutchouc inlay
- With stainless steel blade guide and hanging hole
- Ideally suited for cutting card, rubber, leather, wood etc.
- Tool body made of cast zinc.



| Code              | L<br>mm |     |   |
|-------------------|---------|-----|---|
| <b>77 62 1004</b> | 168     | 249 | 1 |

## 12965-3R Spare blades 18 mm

10 pieces, for No 12965-3.



| Code              |    |   |
|-------------------|----|---|
| <b>79 25 1004</b> | 75 | 1 |

## 12967 Wire stripping knife with hooked blade



for cutting round the outer cable insulation and longitudinal cuts.

- accurate, fast and safe stripping of all popular round cables from 4-28 mm Ø.
- no damage to the inner conductors thanks to infinitely variable adjustment of the cutting depth.



| Code               |    |   |
|--------------------|----|---|
| <b>77 62 00 10</b> | 80 | 1 |

## 12967R Spare blade for No 12967



| Code               |   |   |
|--------------------|---|---|
| <b>79 25 00 10</b> | 2 | 1 |

## 13126-1 LED torch

**Ex**

- Ex-rated for zone 1
- Certifications: SEV 08 ATEX 0164, II 2G Ex e ib IIC T4, II 2D Ex e ibD 21 T98°C.
- Powerful, extremely durable 2 watt LEDs
- Robust, electrically non-conducting, corrosion-proof housing made of ABS/polycarbonate
- High impact resistance and reduced glare thanks to rubber sheathed bezel
- Consistently bright beam throughout 80% of the lifetime of the alkaline batteries due to eLED circuitry
- Zoom with a twist of the bezel
- Rubberised front pushbutton for continuous or momentary action
- Waterproof to IP 68 down to 3 m depth of water
- Hydrogen scrubber catalyst, polarised battery contacts and 0-psi vent minimize explosive risk from leaking batteries
- Battery compartment designed to facilitate rapid battery change
- Brightness: 77 lumen
- Range: 100 m
- Burn time: 5 hrs.
- Batteries: 4 AA/LR06, alkaline, 1.5 V (not supplied).



| Code               | dimensions       |    |   |
|--------------------|------------------|----|---|
| <b>77 49 00 11</b> | 170 x 40 x 35 mm | 79 | 1 |

## Pipe cutters, Miscellaneous tools

### 13126-2 LED penlight

**Ex**

- Ex-rated for zone 1
- Certifications: II 2G Ex e ib IIB T4 Gb, II 2D Ex ib IIIC T60°C IP6X Db.
- Three times brighter than conventional pen torches thanks to powerful LEDs
- Robust, electrically non-conducting, corrosion-proof housing made of ABS/polycarbonate
- High impact resistance and reduced glare thanks to rubber sheathed bezel
- Consistently bright beam throughout 80% of the lifetime of the alkaline batteries due to eLED circuitry
- Rubberised rear pushbutton for continuous or momentary action
- Easy storage due to integrated clip holder close to bezel
- Waterproof to IP 68 down to 3 m depth of water
- Brightness: 35 lumen
- Range: 64 m
- Burn time: 3 hrs.
- Batteries: 2 AAA/LR03, alkaline, 1.5 V (not supplied).



| Code               | dimensions       |  g |  |
|--------------------|------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>77 49 00 12</b> | 132 x 24 x 22 mm | 32                                                                                  | 1                                                                                 |

### 13126-3 LED headlamp

**Ex**

- Ex-rated for zone 1
- Certifications: SEV 08 ATEX 0163X, II 2G Ex ib IIC T4, II 2D Ex ibD 21 T55°C.
- Waterproof construction for use in all weather conditions
- Three beam modes - white spot, white diffused and red diffused
- High and low power settings
- Large-format ON/OFF button can be easily operated even when wearing heavy gloves
- LED torch module can be removed from housing and used as stand-alone portable working torch
- Beam adjustable using twist knob - no breakable hinges
- With adjustable, elasticated textile strap
- Durable, high-impact construction made of ABS/polycarbonate
- Waterproof to IP 68 down to 10 m depth of water
- Brightness: 65 lumen
- Range: 60 m
- Burn time: 13 hrs.
- Batteries: 3 AAA/LR03, alkaline, 1.5 V (not supplied).



Torch module

| Code               | dimensions      |  g |  |
|--------------------|-----------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>77 49 00 13</b> | 76 x 38 x 45 mm | 81                                                                                    | 1                                                                                   |

### 13128 LED torch

- High-end power LED.
- Fast adjustment of light beam thanks to single-handed zoom action.
- Switch with textured profile for 2-stage steady light or flash-light function.
- Designed to facilitate rapid battery change.
- Convenient belt-mounted holder with Velcro fastener.
- Brightness: 320 lumen.
- Range: 260 m.
- Burn time: 50 hrs.
- Batteries: 4 batteries, AAA/LR03, 1.5 V.



| Code               | dimensions       |  g |  |
|--------------------|------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>77 49 00 04</b> | 130 x 37 x 37 mm | 250                                                                                   | 1                                                                                   |

### 13130 Tweezers

straight, blunt,  
finely milled inside,  
stainless steel.



| Code               | L<br>mm |  g |  |
|--------------------|---------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>77 50 00 01</b> | 160     | 26                                                                                     | 5                                                                                    |

### 13131 Tweezers

bent, blunt,  
finely milled inside,  
stainless steel.



| Code               | L<br>mm |  g |  |
|--------------------|---------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>77 51 00 01</b> | 155     | 21                                                                                      | 5                                                                                     |

### 13148 Wire cutter

- for cutting cables, brass, copper, aluminium
- strain-free working thanks to comfy-fit 2-component handle with finger rest
- cutting edges made of stainless steel (INOX HRC 56)
- one wavy/saw edge



| Code               | L<br>mm |  g |  |
|--------------------|---------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>75 27 00 02</b> | 150     | 93                                                                                      | 1                                                                                     |

