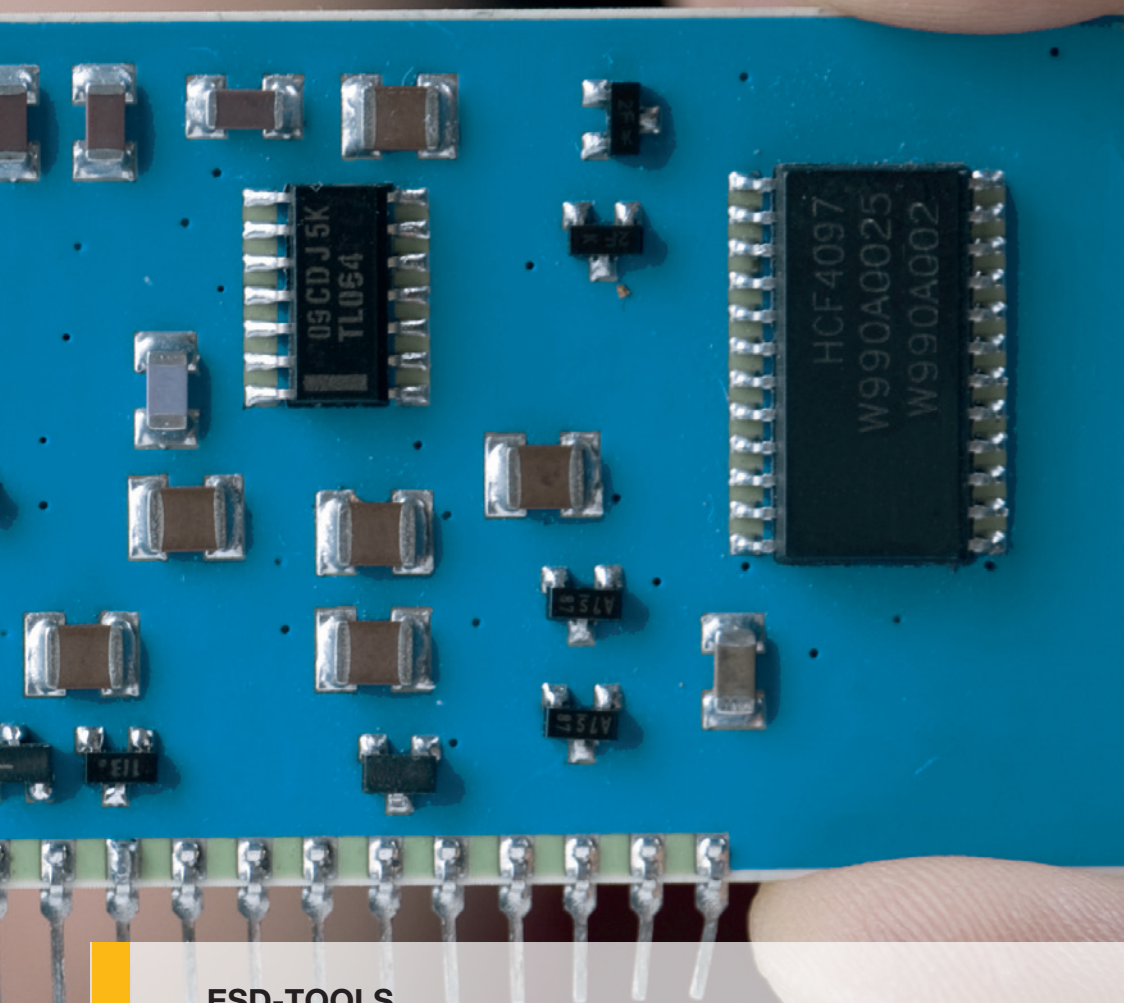


# 07

## ELECTRICIANS- AND FINE MECHANICS TOOLS



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07

ESD stands for Electro Static Discharge. This means a brief, high discharge of electrical current, which results from large potential differences in an electrically insulating material. Often, the cause of this potential difference is the result of charging owing to static electricity that is not noticed by a human. Even the smallest charges can result in lasting damage to electronic components.

A complex set of measures contributes to countering this danger. For example, an EPA (Electrostatic Protected Area) workstation always aims at getting the electrostatic charge discharged to earth potential in a controlled manner.



# ESD

Dissipative working clothes, the typical ESD armband with a spiral cable and electrostatically safe tools are standard components of such a workplace. These tools are marked accordingly.

**Note:**

ESD-tools from ELORA are not suitable for working on electrically live parts!

ESD tools from ELORA conform to the ESD-standard DIN IEC 61340-5-1. They are fitted with handles of special conductive material, whose surface resistance is in the range 10<sup>6</sup> to 10<sup>9</sup> Ohm. The handle size provides the required contact surface to the hand of the user to ensure that the discharging takes place in a “soft” manner that is gentle on the materials – sensitive components and assemblies remain fully functional despite the mechanical intervention of humans.

# ELORA-ESD SPECIAL PLIERS. WELL THOUGHT-OUT TO THE SMALLEST DETAIL.



The comprehensive ELORA range of pliers meets the requirements of professional users. The antistatic, ergonomic and slip-resistant two-component handles facilitate safe guidance of the pliers and optimum transmission of force. ELORA ESD pliers are available with the most varied range of heads or jaws.

### Production specification

The plier blanks are hot-forged in separate high-precision special dies within narrow tolerances. The result is a material quality which, because of its molecular structure, is far superior to punched or cold-formed blanks. We align the individual choice of materials according to the different demands of gripping or cutting pliers. Gripping pliers are subject to torsional and bending forces as well as a greater stress on the surfaces and edges. Through the use of carbon steel C45, we achieve the optimum hardness value of 45 HRC.

Cutting pliers are highly stressed especially in the area of the cutting edges, apart from the torsional and bending forces.

In order to ensure sufficient cutting edge hardness with high flexibility and load-bearing capacity, we use high-alloy steels between carbon steel C 60 and chrome-vanadium. The maximum cutting edge hardness is 65 HRC.

For the superior processing of extremely hard or tough materials, we equip a part of our side cutter and diagonal cutter range with carbide cutting edges. These are ideally suitable for cutting through piano wire, nickel wire or diode wire as well as for glass fibre, which are being increasingly used in the electronics and aviation industry.

We achieve perfection of form and no-compromise cutting edge sharpness in the traditional hand-grinding process – an impressive finished look through the subsequent surface treatment or surface finishing. Piece by piece.



anti-slip surface optimizes contact with hand

double leaf spring suspension

box joint giving long and lasting cutting performance without the risk of getting loose

glare-free by gun metal and mirror finish

antistatic derivating, ergonomic handle



**The VDE GS symbol**

This symbol indicates that the tools so marked have been tested for safety regarding potential hazards from electricity, physical danger, heat, radiation and other hazards. The symbol is equivalent to the German VDE requirements and comparable with harmonised standards in the EU and around the world and confirms that the defined tolerance limits have been adhered to.



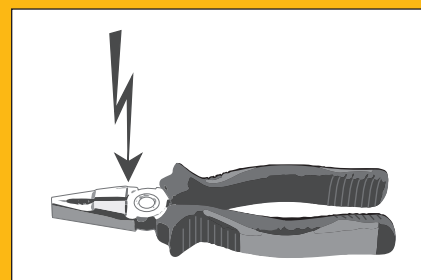
**Double triangle and voltage range**

Markings for insulated tools consisting of the double triangle show their suitability for work on electrical systems that are still “live”. The voltage or voltage range given shows the maximum safe load in volts.

**Safety checks to IEC standards using a pair of ELORA pliers as an example**

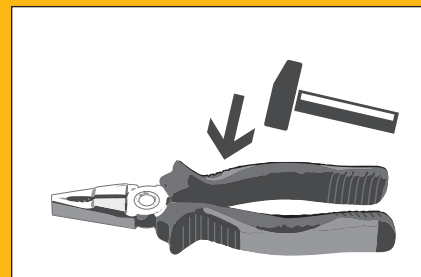
**1. Voltage test**

ELORA VDE tools are individually tested to 10,000 V AC and are approved for work in systems carrying a live voltage of up to 1,000 V AC or 1,500 V DC.



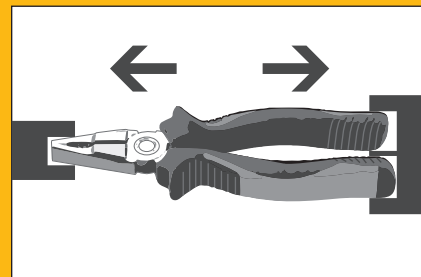
**2. Impact test**

The insulating material of ELORA VDE tools is subjected to an impact test. At an ambient temperature of +23 °C and after storage for 2 hours at -25 °C, an impact test is performed to see whether the insulation material can withstand jolts and impacts after being subjected to these fluctuations in temperature. The test must not cause any of the insulation to crack, rupture or peel off.



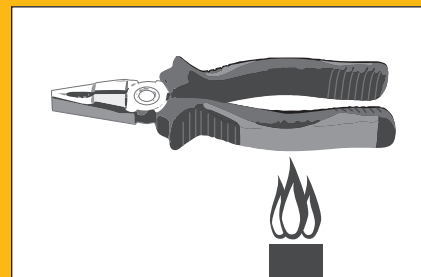
**3. Adhesion test**

Even under high loads, the insulation material must remain firmly bonded to the tool. First, the tool is stored for 168 hours at a temperature of 70 °C. Then the adhesive strength of the insulation material is subjected to a tensile force of 500 N.



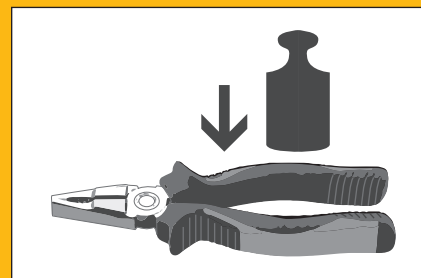
**4. Testing resistance to fire**

A test flame is aimed at the tool for a duration of 10 seconds. Once the flame is removed, the flame emitted by the insulation must not exceed 120 mm for a period of 20 seconds.



**5. Pressure test**

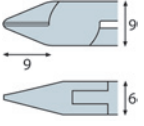

After being stored for 2 hours at 70 °C, the insulation material of the ELORA VDE tools is subjected to a compressive force of 20 N and a testing voltage of 5,000 V AC for three minutes. During this time, there must be no disruptive discharge or arcing on the surface or in the air.



07

**4510**  
**ELECTRONIC SIDE CUTTER ESD**

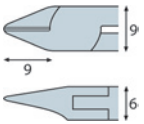

- for cutting in places difficult to access, for work with endangered electronic components
- pointed, narrow head, small version with fine bevel, maximum stability under load of the cutting edges by additional inductive hardening and box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6-10^9$  Ohm
- cutting edge hardness 61-63 HRC
- ELORA-high grade tool steel C60 / 1.0601
- DIN ISO 9654, ESD: DIN IEC 614340-5-1

Code	Number	Medium mm / AWG	Soft mm / AWG	l/mm	Pieces	Weight/g
4510010001000	4510-F E 2K	0,8 / 20	1,5 / 15	120	1	62

**4520-...**  
**ELECTRONIC SIDE CUTTER ESD**

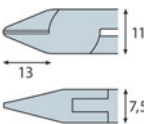

- for all work with electrostatic endangered components
- pointed head, maximum stability under load by additional inductive hardening and box joint, with double opening leaf spring, polished and high gloss gunmetal-finished, with 2-C ESD handles, surface resistance  $10^6-10^9$  Ohm
- F= with fine bevel
- O= without bevel
- cutting edge hardness 61-63 HRC
- ELORA-high grade tool steel C60 / 1.0601
- DIN ISO 9654, ESD: DIN IEC 614340-5-1

Code	Number	Medium mm / AWG	Soft mm / AWG	l/mm	Pieces	Weight/g
4520010001000	4520-F E 2K	0,8 / 20	1,5 / 15	120	1	63
4520030001000	4520-O E 2K	0,6 / 22	1,5 / 15	120	1	63

**4550-...**  
**ELECTRONIC SIDE CUTTER ESD**

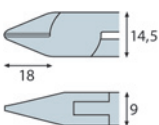

- for all work with electrostatic endangered components
- pointed head, maximum stability under load by additional inductive hardening and box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6-10^9$  Ohm
- M= with bevel
- F= with fine bevel
- O= without bevel
- cutting edge hardness 61-63 HRC
- ELORA-high grade tool steel C60 / 1.0601
- DIN ISO 9654, ESD: DIN IEC 614340-5-1

Code	Number	Hard mm / AWG	Medium mm / AWG	Soft mm / AWG	l/mm	Pieces	Weight/g
4550020001000	4550-M E 2K	0,3 / 28	1,0 / 18	1,5 / 15	125	1	70
4550010001000	4550-F E 2K	-	1,0 / 18	1,5 / 15	125	1	70
4550030001000	4550-O E 2K	-	0,8 / 20	1,5 / 15	125	1	70

**4760**  
**ELECTRONIC SIDE CUTTER ESD**

- for all work with electrostatic endangered components
- pointed head, maximum stability under load by additional inductive hardening and box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^9-10^9$
- cutting edge hardness 61-63 HRC
- ELORA -high grade tool steel C60 / 1.0601
- DIN ISO 9654, ESD: DIN IEC 614340-5-1

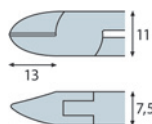
Code	Number	Medium mm / AWG	Soft mm / AWG	l/mm	Pieces	Weight/g
4760010001000	4760-F E 2K	1,5 / 15	2,0 / 12	135	1	105

07

### 4530-...

#### ELECTRONIC SIDE CUTTER ESD

- for all work with electrostatic endangered components
- oval head, maximum stability under load by additional inductive hardening and box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6$ - $10^9$  Ohm
- M= with bevel
- F= with fine bevel
- O= without bevel
- cutting edge hardness 61-63 HRC
- ELORA-high grade tool steel C60 / 1.0601
- DIN ISO 9654, ESD: DIN IEC 614340-5-1

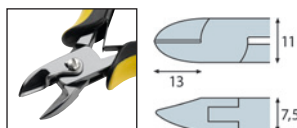


Code	Number	Hard mm / AWG	Medium mm / AWG	Soft mm / AWG	l/mm	Pieces	Weight/g
4530020001000	4530-M E 2K	0,4 / 26	1,0 / 18	1,5 / 15	125	1	70
4530010001000	4530-F E 2K	-	1,0 / 18	1,5 / 15	125	1	70
4530030001000	4530-O E 2K	-	0,8 / 20	1,5 / 15	125	1	70

### 4540

#### ELECTRONIC SIDE CUTTER WITH WIRE TRAPPING SPRING ESD

- with trapping wire to cut off wire, for all work with electrostatic endangered components
- oval head with wire trapping spring, with bevel, maximum stability under load by additional inductive hardening and box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6$ - $10^9$  Ohm
- cutting edge hardness 61-63 HRC
- ELORA-high grade tool steel C60 / 1.0601
- DIN ISO 9654, ESD: DIN IEC 614340-5-1

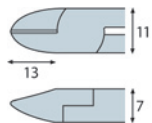


Code	Number	Hard mm / AWG	Medium mm / AWG	Soft mm / AWG	l/mm	Pieces	Weight/g
4540020001000	4540-M E 2K	0,4 / 26	1,0 / 18	1,5 / 15	125	1	68

### 4730

#### ELECTRONIC SIDE CUTTER ESD

- for all work with electrostatic endangered components
- oval head, with bevel, maximum stability under load by additional inductive hardening and box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6$ - $10^9$  Ohm
- cutting edge hardness 61-63 HRC
- ELORA-high grade tool steel C60 / 1.0601
- DIN ISO 9654, ESD: DIN IEC 614340-5-1

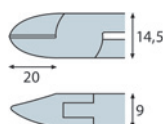


Code	Number	Hard mm / AWG	Medium mm / AWG	Soft mm / AWG	l/mm	Pieces	Weight/g
4730020001000	4730-M E 2K	0,4 / 26	1,0 / 18	1,5 / 15	120	1	80

### 4560

#### ELECTRONIC SIDE CUTTER ESD

- for all work with electrostatic endangered components
- oval head, with bevel, maximum stability under load by additional inductive hardening and box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6$ - $10^9$  Ohm
- cutting edge hardness 61-63 HRC
- ELORA-high grade tool steel C60 / 1.0601
- DIN ISO 9654, ESD: DIN IEC 614340-5-1

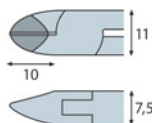


Code	Number	Hard mm / AWG	Medium mm / AWG	Soft mm / AWG	l/mm	Pieces	Weight/g
4560020001000	4560-M E 2K	0,7 / 21	1,5 / 15	2,0 / 12	135	1	110

### 4620

#### ELECTRONIC TUNGSTEN CARBIDE SIDE CUTTER ESD

- ▶ for cutting very hard materials with coincident maximum stability under load, for all work with electrostatic endangered components
- ▶ oval head, with bevel, maximum stability under load due to carbide inlay and box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6$ - $10^9$  Ohm
- ▶ cutting edge hardness 84-86 HRA
- ▶ ELORA-Chrome-Vanadium 80 CrV2 / 1.2235 and special carbide metal
- ▶ DIN ISO 9654, ESD: DIN IEC 614340-5-1

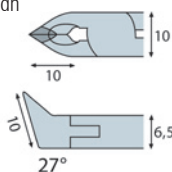


Code	Number	Piano mm / AWG	Hard mm / AWG	Medium mm / AWG	l/mm	Pieces	Weight/g
4620020001000	4620-M E 2K	0,6 / 22	1,0 / 18	2,0 / 12	125	1	73

### 4640

#### ELECTRONIC TUNGSTEN CARBIDE OBLIQUE CUTTER ESD

- ▶ for frontal virtually flush cutting of very hard wires, can be used horizontally and vertically for work with electrostatic endangered components
- ▶ straight, compact, solid head, maximum stability under load by carbide inlay and box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6$ - $10^9$  Ohm
- ▶ cutting edge hardness 84-86 HRA
- ▶ ELORA-Chrome-Vanadium 80 CrV2 / 1.2235 and special carbide metal
- ▶ DIN ISO 9654, ESD: DIN IEC 614340-5-1

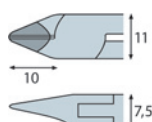


Code	Number	Piano mm / AWG	Hard mm / AWG	Medium mm / AWG	l/mm	Pieces	Weight/g
4640010001000	4640-F E 2K	0,6 / 22	1,0 / 18	2,0 / 12	120	1	66

### 4630

#### ELECTRONIC TUNGSTEN CARBIDE SIDE CUTTER ESD

- ▶ for cutting very hard wires which are difficult to access, for all work with electrostatic endangered components
- ▶ pointed, narrow head with groove and fine bevel, small version, maximum stability under load by carbide inlay and box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6$ - $10^9$  Ohm
- ▶ cutting edge hardness 84-86 HRA
- ▶ ELORA-Chrome-Vanadium 80 CrV2 / 1.2235 and special carbide metal
- ▶ DIN ISO 9654, ESD: DIN IEC 614340-5-1

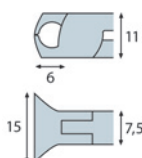


Code	Number	Piano mm / AWG	Hard mm / AWG	Soft mm / AWG	l/mm	Pieces	Weight/g
4630010001000	4630-F E 2K	0,4 / 26	0,8 / 20	1,8 / 13	125	1	70

### 4600

#### ELECTRONIC TOP CUTTER ESD

- ▶ for frontal virtually flush cutting of wires, for work with electrostatic endangered components
- ▶ wide head, long cutting edges, with fine bevel, maximum stability under load by additional inductive hardening and box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6$ - $10^9$  Ohm
- ▶ cutting edge hardness 61-63 HRC
- ▶ ELORA-high grade tool steel C60 / 1.0601
- ▶ DIN ISO 9654, ESD: DIN IEC 614340-5-1



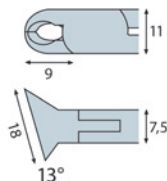
Code	Number	Hard mm / AWG	Medium mm / AWG	Soft mm / AWG	l/mm	Pieces	Weight/g
4600010001000	4600-F E 2K	0,5 / 24	1,2 / 16	1,6 / 14	125	1	80



### 4590

#### ELECTRONIC OBLIQUE CUTTER ESD

- for frontal virtually flush cutting of wires, can be used horizontally and vertically for work with electrostatic endangered components
- wide head, long cutting edges, with fine bevel, maximum stability under load by additional inductive hardening and box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6$ - $10^9$  Ohm
- cutting edge hardness 61-63 HRC
- ELORA-high grade tool steel C60 / 1.0601
- DIN ISO 9654, ESD: DIN IEC 614340-5-1

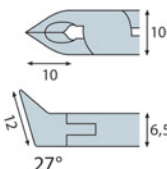


Code	Number	Hard mm / AWG	Medium mm / AWG	Soft mm / AWG	l/mm	Pieces	Weight/g
4590010001000	4590-F E 2K	0,5 / 24	1,2 / 16	1,6 / 14	125	1	87

### 4580-...

#### ELECTRONIC OBLIQUE CUTTER ESD

- for frontal virtually flush cutting of wires, can be used horizontally and vertically for work with electrostatic endangered components
- straight, compact, solid head, maximum stability under load by additional inductive hardening and box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6$ - $10^9$  Ohm
- F= with fine bevel
- O= without bevel
- cutting edge hardness 61-63 HRC
- ELORA-high grade tool steel C60 / 1.0601
- DIN ISO 9654, ESD: DIN IEC 614340-5-1

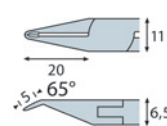


Code	Number	Hard mm / AWG	Medium mm / AWG	Soft mm / AWG	l/mm	Pieces	Weight/g
4580010001000	4580-F E 2K	0,4 / 26	1,0 / 18	1,2 / 16	120	1	65
4580030001000	4580-O E 2K	-	0,8 / 20	1,0 / 18	120	1	65

### 4570

#### ELECTRONIC OBLIQUE TIP CUTTER ESD

- for virtually flush cutting of thin, soft wires in places difficult to access, for work with electrostatic endangered components
- extra narrow head, fine bevel, maximum stability under load by additional inductive hardening and box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6$ - $10^9$  Ohm
- cutting edge hardness 61-63 HRC
- ELORA-Chrome-Vanadium 80CrV2 / 1.2235
- DIN ISO 9654, ESD: DIN IEC 614340-5-1

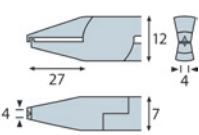


Code	Number	Medium mm / AWG	Soft mm / AWG	l/mm	Pieces	Weight/g
4570010001000	4570-F E 2K	0,6 / 22	0,8 / 20	130	1	72

### 4770

#### ELECTRONIC WIRE STRIPPING PLIER ESD

- for wire stripping of PVC, Teflon etc., for work with electrostatic endangered components
- brass adjustment screw inside jaws, inlaid joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6$ - $10^9$  Ohm
- ELORA-high grade tool steel C45 / 1.0503
- ESD: DIN IEC 61340-5-1

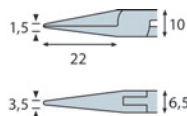


Code	Number	Ø mm	l/mm	Pieces	Weight/g
4770000001000	4770-1 E 2K	0,1 - 0,8	150	1	86

### 4710-...

#### ELECTRONIC FLAT NOSE PLIER ESD

- for fine precision gripping and bending work, for work with electrostatic endangered components
- straight, short jaws, flat tips, box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6$ - $10^9$  Ohm
- OH= smooth gripping surface, without cut
- MH= serrated gripping surface, with cut
- ELORA-high grade tool steel C45 / 1.0503
- DIN ISO 9655, ESD: DIN IEC 61340-5-1

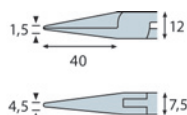


Code	Number	serrated	smooth	l/mm	Pieces	Weight/g
4710050001000	4710-OH E 2K	-	x	130	1	68
4710040001000	4710-MH E 2K	x	-	130	1	68

### 4740

#### ELECTRONIC FLAT NOSE PLIER ESD

- for fine precision gripping and bending work, for work with electrostatic endangered components
- straight, long jaws, flat tips, box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6$ - $10^9$  Ohm
- smooth gripping surface
- ELORA-high grade tool steel C45 / 1.0503
- DIN ISO 9655, ESD: DIN IEC 61340-5-1

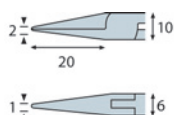


Code	Number	smooth	l/mm	Pieces	Weight/g
4740050001000	4740-OH E 2K	x	150	1	86

### 4720

#### ELECTRONIC ROUND NOSE PLIER ESD

- for fine precision gripping and bending work, for work with electrostatic endangered components
- short jaws, round tips, box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6$ - $10^9$  Ohm
- smooth gripping surface
- ELORA-high grade tool steel C45 / 1.0503
- DIN ISO 9655, ESD: DIN IEC 61340-5-1

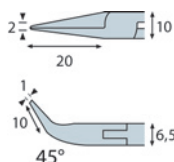


Code	Number	smooth	l/mm	Pieces	Weight/g
4720050001000	4720-OH E 2K	x	130	1	64

### 4670

#### ELECTRONIC SNIPE NOSE PLIER ESD

- for fine precision gripping and bending work, for work with electrostatic endangered components
- angled, short jaws, half round tips, box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6$ - $10^9$  Ohm
- smooth gripping surface
- ELORA-high grade tool steel C45 / 1.0503
- DIN ISO 9655, ESD: DIN IEC 61340-5-1

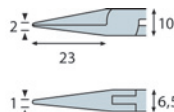


Code	Number	smooth	l/mm	Pieces	Weight/g
4670050001000	4670-OH E 2K	x	130	1	68

### 4660-...

#### ELECTRONIC SNIPE NOSE PLIER ESD

- for fine precision gripping and bending work, for work with electrostatic endangered components
- short, straight jaws, half round tips, box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6-10^9$  Ohm
- OH: smooth gripping surface
- MH: serrated gripping surface
- ELORA-high grade tool steel C45 / 1.0503
- DIN ISO 9655, ESD: DIN IEC 61340-5-1

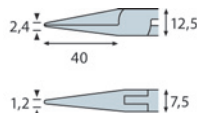


Code	Number	serrated	smooth	l/mm	Pieces	Weight/g
4660050001000	4660-OH E 2K	-	x	130	1	70
4660040001000	4660-MH E 2K	x	-	130	1	70

### 4680

#### ELECTRONIC SNIPE NOSE PLIER ESD

- for fine precision gripping and bending work, for work with electrostatic endangered components
- long, straight jaws, half round tips, box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6-10^9$  Ohm
- serrated gripping surface
- ELORA-high grade tool steel C45 / 1.0503
- DIN ISO 9655, ESD: DIN IEC 61340-5-1

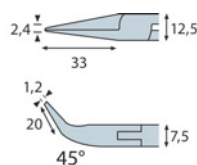


Code	Number	serrated	l/mm	Pieces	Weight/g
4680040001000	4680-MH E 2K	x	155	1	91

### 4690

#### ELECTRONIC SNIPE NOSE PLIER ESD

- for fine precision gripping and bending work, for work with electrostatic endangered components
- angled, straight long jaws, half round tips, box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6-10^9$  Ohm
- serrated gripping surface
- ELORA-high grade tool steel C45 / 1.0503
- DIN ISO 9655, ESD: DIN IEC 61340-5-1

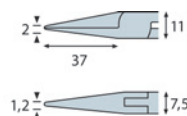


Code	Number	serrated	l/mm	Pieces	Weight/g
4690040001000	4690-MH E 2K	x	155	1	90

### 4700

#### ELECTRONIC SNIPE NOSE PLIER ESD

- for fine precision gripping and bending work, for work with electrostatic endangered components
- very fine, slim, long, straight jaws, half round tips, box joint, with double opening leaf spring, polished and high gloss gunmetal-finish, with 2-C ESD handles, surface resistance  $10^6-10^9$  Ohm
- smooth gripping surface
- ELORA-high grade tool steel C45 / 1.0503
- DIN ISO 9655, ESD: DIN IEC 61340-5-1



Code	Number	smooth	l/mm	Pieces	Weight/g
4700050001000	4700-OH E 2K	x	150	1	83

You will find more Electronic Side Cutters on page no. 289







**600-IS...ESD**

**ELECTRONIC SCREWDRIVER ESD**

- for plain slotted screws
- for work with electrostatic endangered components
- blade through hardened and chrome-plated, tip gunmetal-finish
- ESD precision handle with rotating cap, surface resistance  $10^6-10^9$  Ohm
- blade made of high quality ELORA-Chrome-Vanadium-Molybdenum steel
- DIN 91953, DIN EN 100-015/1
- ESD: DIN IEC 61340-5-1







Code	Number	Edge mm	 mm	 mm	Pieces 	Weight/g 
0600086002000	600-IS 0,8x60 ESD	0,2 x 0,8	60	157	6	16
0600126002000	600-IS 1,2x60 ESD	0,2 x 1,2	60	157	6	16
0600156002000	600-IS 1,5x60 ESD	0,25 x 1,5	60	157	6	16
0600186002000	600-IS 1,8x60 ESD	0,3 x 1,8	60	157	6	16
0600256002000	600-IS 2,5x60 ESD	0,4 x 2,5	60	157	6	16
0600257502000	600-IS 2,5x75 ESD	0,4 x 2,5	75	172	6	20
0600301002000	600-IS 3,0x100 ESD	0,5 x 3,0	100	197	6	20
0600301502000	600-IS 3,0x150 ESD	0,5 x 3,0	150	247	6	23
0600302402000	600-IS 3,0x240 ESD	0,5 x 3,0	240	337	6	30
0600401002000	600-IS 4,0x100 ESD	0,8 x 4,0	100	197	6	25
0600401502000	600-IS 4,0x150 ESD	0,8 x 4,0	150	247	6	30
0600452502000	600-IS 4,5x250 ESD	0,8 x 4,5	250	347	6	33

**610-PH...ESD**

**ELECTRONIC SCREWDRIVER ESD**

- for cross slotted screws
- for work with electrostatic endangered components
- blade through hardened and chrome-plated, tip gunmetal-finish
- ESD precision handle with rotating cap, surface resistance  $10^6-10^9$  Ohm
- blade made of high quality ELORA-Chrome-Vanadium-Molybdenum steel
- DIN 91953, DIN EN 100-015/1
- ESD: DIN IEC 61340-5-1







Code	Number	 mm	 mm	Pieces 	Weight/g 
0610000002002	610-PH 000 ESD	60	157	6	12
0610000002001	610-PH 00 ESD	60	157	6	12
0610000002000	610-PH 0 ESD	60	157	6	13
0610000012000	610-PH 1 ESD	60	157	6	23
0610000012001	610-PH 1x185 ESD	185	282	6	45
0610000012002	610-PH 1x285 ESD	285	382	6	60

**625-...ESD**

**ELECTRONIC SCREWDRIVER ESD**

- for inside hexagon screws
- for work with electrostatic endangered components
- blade through hardened and chrome-plated, tip gunmetal-finish
- ESD precision handle with rotating cap, surface resistance  $10^6-10^9$  Ohm
- blade made of high quality ELORA-Chrome-Vanadium-Molybdenum steel
- DIN 91953, DIN EN 100-015/1
- ESD: DIN IEC 61340-5-1







Code	Number	 mm	 mm	Pieces 	Weight/g 
0625000072000	625-0,7 ESD	50	147	6	14
0625000092000	625-0,9 ESD	50	147	6	14
0625000132000	625-1,3 ESD	50	147	6	14
0625000152000	625-1,5 ESD	50	147	6	14
0625000202000	625-2,0 ESD	50	147	6	14
0625000252000	625-2,5 ESD	60	157	6	16
0625000302000	625-3,0 ESD	60	157	6	16
0625000352000	625-3,5 ESD	60	157	6	17
0625000402000	625-4,0 ESD	60	157	6	19

## 625-KU...ESD

### ELECTRONIC BALL END SCREWDRIVER ESD

- for inside hexagon screws
- for work with electrostatic endangered components
- blade through hardened and chrome-plated, tip gunmetal-finish
- ESD precision handle with rotating cap, surface resistance  $10^6$ – $10^9$  Ohm
- blade made of high quality ELORA-Chrome-Vanadium-Molybdenum steel
- DIN 91953, DIN EN 100-015/1
- ESD: DIN IEC 61340-5-1







Code	Number	 mm	 mm	Pieces 	Weight/g 
0625000151000	625-KU 1,5 ESD	50	147	6	14
0625000201000	625-KU 2,0 ESD	50	147	6	14
0625000251000	625-KU 2,5 ESD	60	157	6	14
0625000301000	625-KU 3,0 ESD	60	157	6	14

## 630-...ESD

### ELECTRONIC SOCKET SPANNER ESD

- for outside hexagon screws
- for work with electrostatic endangered components
- blade through hardened and chrome-plated, tip gunmetal-finish
- ESD precision handle with rotating cap, surface resistance  $10^6$ – $10^9$  Ohm
- blade made of high quality ELORA-Chrome-Vanadium-Molybdenum steel
- DIN 91953, DIN EN 100-015/1
- ESD: DIN IEC 61340-5-1








Code	Number	 mm	 mm	Pieces 	Weight/g 
0630000252000	630-2,5 ESD	60	157	6	21
0630000302000	630-3,0 ESD	60	157	6	22
0630000322000	630-3,2 ESD	60	157	6	22
0630000352000	630-3,5 ESD	60	157	6	23
0630000402000	630-4,0 ESD	60	157	6	24
0630000452000	630-4,5 ESD	60	157	6	25
0630000502000	630-5,0 ESD	60	157	6	26
0630000552000	630-5,5 ESD	60	157	6	27

## 620-TTX...ESD

### ELECTRONIC SCREWDRIVER ESD

- suitable for smallest inside TORX® screws with locking pin, for work with electrostatic endangered components
- blade through hardened and chrome-plated, tip gunmetal-finish
- ESD precision handle with rotating cap, surface resistance  $10^6$ – $10^9$  Ohm
- blade made of high quality ELORA-Chrome-Vanadium-Molybdenum steel
- DIN 91953, DIN EN 100-015/1
- ESD: DIN IEC 61340-5-1
- TORX® = reg. trade mark of Acument Intellectual Properties, LLC. USA







Code	Number	 mm	 mm	 mm	Pieces 	Weight/g 
0620000073000	620-TTX 7 ESD	1,99	50	147	6	13
0620000083000	620-TTX 8 ESD	2,31	60	157	6	13
0620000093000	620-TTX 9 ESD	2,50	60	157	6	13
0620000103000	620-TTX10 ESD	2,74	80	177	6	13
0620000153000	620-TTX15 ESD	3,27	80	177	6	13

## 620-TX...ESD

### ELECTRONIC SCREWDRIVER ESD

- for smallest inside TORX® screws
- for work with electrostatic endangered components
- blade through hardened and chrome-plated, tip gunmetal-finish
- ESD precision handle with rotating cap, surface resistance  $10^6$ – $10^9$  Ohm
- blade made of high quality ELORA-Chrome-Vanadium-Molybdenum steel
- DIN 91953, DIN EN 100-015/1
- ESD: DIN IEC 61340-5-1
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Code	Number	★ mm	 mm	 mm	Pieces 	Weight/g 
0620000012000	620-TX 1 ESD	0,84	50	147	6	13
0620000022000	620-TX 2 ESD	0,94	50	147	6	13
0620000032000	620-TX 3 ESD	1,12	50	147	6	13
0620000042000	620-TX 4 ESD	1,30	50	147	6	13
0620000052000	620-TX 5 ESD	1,42	50	147	6	13
0620000062000	620-TX 6 ESD	1,67	50	147	6	13
0620000072000	620-TX 7 ESD	1,99	50	147	6	13
0620000082000	620-TX 8 ESD	2,31	60	157	6	13
0620000092000	620-TX 9 ESD	2,50	60	157	6	13
0620000102000	620-TX 10 ESD	2,74	80	177	6	13
0620000152000	620-TX 15 ESD	3,27	80	177	6	15
0620000202000	620-TX 20 ESD	3,86	100	197	6	15

You will find more electronic screwdrivers  
on page no. 290



**5170-STE, 5180-STE, 5190-STE**

**POSITIONING TWEEZERS ESD**

- for holding, positioning and unsoldering of vertical and horizontal cylindrical devices
- anti-glare black finish, grooved gripping surfaces, surface resistance 10<sup>6</sup>-10<sup>9</sup> Ohm
- stainless, antimagnetic, acid-proof
- ELORA-Special-Chrome-Nickel-steel
- ESD: DIN IEC 61340-5-1



Code	Number	Points	l/mm	Pieces	Weight/g
5170000007000	5170-STE	Ø 0,8 mm, oval	120	6	14
5180000007000	5180-STE	Ø 1,5 mm, oval	120	6	14
5190000007000	5190-STE	Ø 1,5 mm oblique, half round	120	6	14

**5210-STE**

**POSITIONING TWEEZERS ESD**

- for all fine gripping and assembly work
- anti-glare black finish, inside vertical concave, until Ø 2mm, grooved gripping surfaces, surface resistance 10<sup>6</sup>-10<sup>9</sup> Ohm
- stainless, antimagnetic, acid-proof
- ELORA-Special-Chrome-Nickel-steel
- ESD: DIN IEC 61340-5-1



Code	Number	l/mm	Pieces	Weight/g
5210000007000	5210-STE	120	6	14

**5160-STE, 5240-STE**

**ELECTRONIC TWEEZERS ESD**

- for all fine gripping and assembly work
- anti-glare black finish, smooth gripping and grab surfaces, extremely fine, straight tips, surface resistance 10<sup>6</sup>-10<sup>9</sup> Ohm
- stainless, antimagnetic, acid-proof
- ELORA-Special-Chrome-Nickel-steel
- ESD: DIN IEC 61340-5-1



Code	Number	l/mm	Pieces	Weight/g
5160000007000	5160-STE	120	6	14
5240000007000	5240-STE	140	6	20

**5260-STE, 5270-STE, 5280-STE**

**ELECTRONIC TWEEZERS ESD**

- for all fine gripping and assembly work
- anti-glare black finish, smooth gripping and grab surfaces, surface resistance 10<sup>6</sup>-10<sup>9</sup> Ohm
- stainless, antimagnetic, acid-proof
- ELORA-Special-Chrome-Nickel-steel
- ESD: DIN IEC 61340-5-1



Code	Number	Points	l/mm	Pieces	Weight/g
5260000007000	5260-STE	curved, extremely fine	122	6	20
5270000007000	5270-STE	curved and bent, extremely fine	122	6	20
5280000007000	5280-STE	double curved and bent, extremely fine	122	6	20

## 5330-STE, 5340-STE

### ELECTRONIC TWEEZERS ESD

- ▶ for all fine gripping and assembly work
- ▶ satin antiglare black finish, smooth gripping surfaces, surface resistance  $10^6$ - $10^9$  Ohm, antimagnetic, acid-proof, stainless
- ▶ ELORA-Special-Chrome-Nickel-steel
- ▶ ESD: DIN IEC 61340-5-1



Code	Number	Points	l/mm	Pieces	Weight/g
5330000007000	5330-STE	gebogen, extrem fein	108	6	12
5340000007000	5340-STE	gerade, extrem fein	108	6	12

## 5350-STE

### ELECTRONIC TWEEZER ESD

- ▶ for all fine gripping and assembly work
- ▶ anti-glare black finish, smooth gripping and grab surfaces, flat, extremely long, fine tips, surface resistance  $10^6$ - $10^9$  Ohm
- ▶ stainless, antimagnetic, acid-proof
- ▶ ELORA-Special-Chrome-Nickel-steel
- ▶ ESD: DIN IEC 61340-5-1



Code	Nummer	l/mm	Stück	Gewicht/g
5350000007000	5350-STE	130	6	20

## 5200-STE

### IC TWEEZERS ESD

- ▶ for all fine gripping and assembly work
- ▶ anti-glare black finish, grooved gripping and grab surfaces, with IC-tip, surface resistance  $10^6$ - $10^9$  Ohm
- ▶ stainless, antimagnetic, acid-proof
- ▶ ELORA-Special-Chrome-Nickel-steel
- ▶ ESD: DIN IEC 61340-5-1



Code	Nummer	l/mm	Stück	Gewicht/g
5200000007000	5200-STE IC	120	6	14

## 600-S15

### ESD-SET

- ▶ 15 pcs.
- ▶ in black plastic box with 2-colour foam material
- ▶ TORX® = reg. trade mark of Acument Intellectual Properties, LLC. USA




Code	Nummer	Inhalt	Gewicht/g
0600500151000	600-S15	Elektronik Seitenschneider, ESD 4560-ME 2K, 4530-OE 2K Elektronik Flachzange, ESD 4710-OH E 2K Elektronik Spitzzange, ESD 4660-OH E 2K Elektronik Schlitzschraubendreher, ESD 600-IS 0,8x60, 1,5x60, 2,5x60 Elektronik Kreuzschlitzschraubendreher, ESD 610-PH 000x60, 00x60, 0x60 Elektronik-Schraubendreher für TORX®-Schrauben, ESD 620-TX 5, 6, 7 Elektronikpinzette, ESD 5330-STE, 5340-STE	2100



**432**  
ELECTRONIC SIDE CUTTER


- oval head, lap joint, with double leaf spring
- with dip insulated PVC handles
- gunmetal-finish, polished head
- ELORA-high grade tool steel C60 / 1.0601



Code	Number	Art.-Indication	l/mm	Pieces	Weight/g
0432000000000	432	with bevel edge	110	1	64

**435**  
ELECTRONIC SIDE CUTTER


- pointed head, lap joint, with double leaf spring
- with dip insulated PVC handles
- gunmetal-finish, polished head
- ELORA-high grade tool steel C60 / 1.0601



Code	Number	Art.-Indication	l/mm	Pieces	Weight/g
0435000000000	435	with bevel edge	110	1	62

07

**You will find ESD-pliers and -side cutters on page no. 278-283**






**600-IS...**

**ELECTRONIC SCREWDRIVER**

- for plain slotted screws
- dull chrome plated blade with additionally coated blade tip
- 2 component grip, revolving end-cap, non-slip micro-surface
- blade made of ELORA-Chrome-Vanadium-Molybdenum steel 73MoV5 / 1.2381





Code	Number	Edge mm			Pieces	Weight/g
0600012601000	600-IS 1,2x60	0,25 x 1,2	60	153	6	11
0600015601000	600-IS 1,5x60	0,23 x 1,5	60	153	6	11
0600018601000	600-IS 1,8x60	0,3 x 1,8	60	153	6	11
0600020601000	600-IS 2,0x60	0,4 x 2,0	60	153	6	11
0600025751000	600-IS 2,5x75	0,4 x 2,5	75	168	6	11
0600030101000	600-IS 3,0x100	0,5 x 3,0	100	193	6	16
0600030151000	600-IS 3,0x150	0,5 x 3,0	150	243	6	19
0600035101000	600-IS 3,5x100	0,6 x 3,5	100	193	6	20
0600040101000	600-IS 4,0x100	0,8 x 4,0	100	193	6	24
0600040151000	600-IS 4,0x150	0,8 x 4,0	150	243	6	31

**610-PH...**

**ELECTRONIC SCREWDRIVER**

- for cross slotted screws
- dull chrome plated blade with grey tip
- 2-C handle with revolving end-cap, non-slip resistant micro-surface
- blade made of ELORA-Chrome-Vanadium-Molybdenum steel 75MoV5 / 1.2381





Code	Number			Pieces	Weight/g
0610000001003	610-PH 000	60	153	6	12
0610000001002	610-PH 00	60	153	6	12
0610000001000	610-PH 0	60	153	6	13
0610000011000	610-PH 1	80	173	6	23

**612-PZ...**

**ELECTRONIC SCREWDRIVER**

- for cross slotted screws
- dull chrome plated blade with additionally coated blade tip
- 2 component grip, revolving end-cap, non-slip micro-surface
- blade made of ELORA-Chrome-Vanadium-Molybdenum steel 73MoV5 / 1.2381






Code	Number			Pieces	Weight/g
0612000001000	612-PZ 0	60	153	6	13
0612000011000	612-PZ 1	80	173	6	23

**620-TX...**

**ELECTRONIC SCREWDRIVER**

- for inside TORX® screws
- dull chrome plated blade with additionally coated blade tip
- 2 component grip, revolving end-cap, non-slip micro-surface
- blade made of Chrome-Vanadium-Molybdenum steel 73MoV5 / 1.2381
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Code	Number				Pieces	Weight/g
0620000051000	620-TX 5	1,42	60	153	6	13
0620000061000	620-TX 6	1,67	60	153	6	13
0620000071000	620-TX 7	1,99	60	153	6	13
0620000081000	620-TX 8	2,31	60	153	6	13
0620000091000	620-TX 9	2,5	60	153	6	13
0620000101000	620-TX 10	2,74	60	153	6	13
0620000151000	620-TX 15	3,27	60	153	6	15
0620000201000	620-TX 20	3,86	80	173	6	22

07

### 616-S6

#### ELECTRONIC SCREWDRIVER SET

- 6 pcs.
- in plastic box
- dull chrome plated blade with additionally coated blade tip
- 2 component grip, revolving end-cap, non-slip micro-surface
- blade made of ELORA-Chrome-Vanadium-Molybdenum steel 73MoV5 / 1.2381



Code	Number	Contents	Pieces	Weight/g
0616500601000	616-S6	Electronic Screwdriver 600-IS 1,5x60, 1,8x60, 2,5x75, 3,0x100 610-PH 0x60, 00x60	1	240

### 617-S6

#### ELECTRONIC SCREWDRIVER SET

- 6 pcs.
- in plastic box
- dull chrome plated blade with additionally coated blade tip
- 2 component grip, revolving end-cap, non-slip micro-surface
- blade made of ELORA-Chrome-Vanadium-Molybdenum steel 73MoV5 / 1.2381

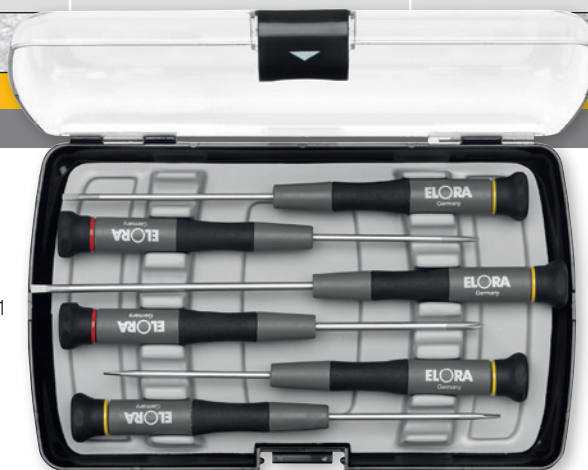


Code	Number	Contents	Pieces	Weight/g
0617500601000	617-S6	Electronic Screwdriver 600-IS 2,5x75, 3,0x100, 4,0x100 610-PH 0x60, 00x60, 1x80	1	240

### 618-S6

#### ELECTRONIC SCREWDRIVER SET

- 6 pcs.
- in plastic box
- dull chrome plated blade with additionally coated blade tip
- 2 component grip, revolving end-cap, non-slip micro-surface
- blade made of ELORA-Chrome-Vanadium-Molybdenum steel 73MoV5 / 1.2381
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Code	Number	Contents	Pieces	Weight/g
0618500601000	618-S6	Electronic Screwdriver 620-TX 6x60, 7x60, 8x60, 9x60, 10x60, 15x60	1	240

You will find the fitting (De-)Magnetizer on page no. 263



You will find ESD-electronic-screwdrivers on page no. 284-286



**635-...**  
ELECTRONIC PLASTIC TRIMMER

- for adjusting electronic components
- precision handle with centring button
- anti-magnetic and anti-static
- PT= with plastic tip
- BT= with brass tip
- grip made of polypropylene plastic
- plastic blade made of Polycarbonate + ABS-Blend 1.2242



Code	Number	Edge mm			Pieces	Weight/g
0635000121000	635-PT 1,2x65	0,5 x 1,2	65	150	6	8
0635000151000	635-PT 1,5x65	0,5 x 1,5	65	150	6	8
0635000241000	635-PT 2,5x65	0,7 x 2,4	65	150	6	8
0635000102000	635-BT 1,0x65	0,5 x 1,0	65	150	6	8
0635000152000	635-BT 1,5x65	0,7 x 1,5	65	150	6	8
0635000202000	635-BT 2,0x65	0,5 x 2,0	65	150	6	8
0635000252000	635-BT 2,5x65	0,7 x 2,5	65	150	6	8

**642-IS...**  
ELECTRONIC CERAMIC TRIMMER

- for plain slotted screws
- suitable for slotted screws, especially for adjusting high frequency devices, suitable for clean rooms
- precision handle with centring button
- anti-magnetic, anti-static, anti-adhesive, resistant to oxidation, corrosion, thermal shock stress, acid and aging, more resistant than steel
- blade made of high class fine ceramics (ultrapure Zirconium-Oxide-Ceramic)



Code	Number	Edge mm			Pieces	Weight/g
0642000092000	642-IS 0,9	0,4 x 0,9	15	100	6	7
0642000132000	642-IS 1,3	0,4 x 1,3	15	100	6	7
0642000182000	642-IS 1,8	0,4 x 1,8	15	100	6	7
0642000262000	642-IS 2,6	0,4 x 2,6	15	100	6	7

**642-PH...**  
ELECTRONIC CERAMIC TRIMMER

- for cross slotted screws
- PH0 Special: with flat-topped tip
- especially for adjusting high frequency devices, suitable for clean rooms
- precision handle with centring button
- anti-magnetic, anti-static, anti-adhesive, resistant to oxidation, corrosion, thermal shock stress, acid and aging, more resistant than steel
- blade made of high class fine ceramics (ultrapure Zirconium-Oxide-Ceramic)



Code	Number			Pieces	Weight/g
0642000001000	642-PH0	15	100	6	7
0642000001001	642-PH0 spec.	15	100	6	7

**641-...**  
ELECTRONIC CERAMIC TRIMMER 4 IN 1

- suitable for slotted screws and cross-recessed head screws PH
- PH 1,7 Special: with flat-topped tip
- especially for adjusting high frequency devices, suitable for clean rooms
- with 4 blades made of high class fine ceramics which can be universally plugged-in to the holder
- anti-magnetic, anti-static, anti-adhesive, resistant to oxidation, corrosion, thermal shock stress, acid and aging, more resistant than steel
- blade made of high class fine ceramics (ultrapure Zirconium-Oxide-Ceramic)



Code	Number					Pieces	Weight/g
0641000011000	641-1	0,9, 1,8	1,7 special, 0	15	110	6	14
0641000021000	641-2	0,9, 1,8, 2,6	1,7 special	15	110	6	14

07

**5170-ST, 5180-ST, 5190-ST**

**ELECTRONIC POSITIONING TWEEZERS**

- for holding, positioning and unsoldering of vertical and horizontal cylindrical devices
- anti-glare satin finish, grooved gripping surfaces
- stainless, anti-magnetic, acid-proof
- ELORA-Special-Chrome-Nickel-steel



Code	Number	Points	l/mm	Pieces	Weight/g
5170000001000	5170-ST	Ø 0,8 mm, oval	120	6	14
5180000001000	5180-ST	Ø 1,5 mm, oval	120	6	14
5190000001000	5190-ST	Ø 1,5 mm oblique, half round	120	6	14

**5110-ST, 5130-ST**

**ELECTRONIC POSITIONING TWEEZERS**

- for holding, positioning and unsoldering of vertical and horizontal cylindrical devices
- anti-glare satin finish, grooved gripping surfaces
- stainless, anti-magnetic, acid-proof
- ELORA-Special-Chrome-Nickel-steel



Code	Number	Points	l/mm	Pieces	Weight/g
5110000001000	5110-ST	Ø 5 mm, inside round	145	6	28
5130000001000	5130-ST	Ø 5 mm oblique, half round	145	6	28

**5210-ST**

**ELECTRONIC POSITIONING TWEEZERS**

- for all fine gripping and assembly work
- anti-glare satin finish, inside vertical concave, until Ø 2mm, grooved gripping surfaces
- stainless, antimagnetic, acid-proof
- ELORA-Special-Chrome-Nickel-steel



Code	Number	l/mm	Pieces	Weight/g
5210000001000	5210-ST	120	6	24

**5120-ST**

**ELECTRONIC POSITIONING TWEEZERS**

- for all fine gripping and assembly work
- for holding, positioning and unsoldering of vertical and horizontal cylindrical devices
- anti-glare satin finish, tips angled 90°, grooved gripping surfaces
- stainless, anti-magnetic, acid-proof
- ELORA-Special-Chrome-Nickel-steel



Code	Number	l/mm	Pieces	Weight/g
5120000001000	5120-ST	145	6	28

**5160-ST, 5240-ST**

**ELECTRONIC POSITIONING TWEEZER**

- for all fine gripping and assembly work
- anti-glare satin finish, extremely fine, straight tips, grooved gripping and grab surfaces
- stainless, antimagnetic, acid-proof
- ELORA-Special-Chrome-Nickel-steel



Code	Number	l/mm	Pieces	Weight/g
5160000001000	5160-ST	120	6	16
5240000001000	5240-ST	140	6	20

## 5260-ST, 5270-ST, 5280-ST

### ELECTRONIC TWEEZERS

- for all fine gripping and assembly work
- anti-glare satin finish, grooved gripping surfaces
- stainless, antimagnetic, acid-proof
- ELORA-Special-Chrome-Nickel-steel



Code	Number	Points	l/mm	Pieces	Weight/g
5260000001000	5260-ST	curved, extremely fine	122	6	20
5270000001000	5270-ST	curved and bent, extremely fine	122	6	20
5280000001000	5280-ST	curved and bent, extremely fine	122	6	20

## 5330-ST, 5340-ST

### ELECTRONIC TWEEZER

- for all fine gripping and assembly work
- anti-glare satin finish, grooved gripping surfaces
- stainless, antimagnetic, acid-proof
- ELORA-Special-Chrome-Nickel-steel



Code	Number	Points	l/mm	Pieces	Weight/g
5330000001000	5330-ST	curved, extremely fine	108	6	12
5340000001000	5340-ST	straight, extremely fine	108	6	12

## 5350-ST

### ELECTRONIC TWEEZER

- for all fine gripping and assembly work
- anti-glare satin finish, smooth gripping surfaces, flat, extreme fine, long tips
- stainless, antimagnetic, acid-proof
- ELORA-Special-Chrome-Nickel-steel



Code	Number	l/mm	Pieces	Weight/g
5350000001000	5350-ST	130	6	20

## 5250

### ELECTRONIC TWEEZERS

- for all fine gripping and assembly work
- anti-glare satin finish, rectangular, smooth gripping and grab surfaces, 2 mm width
- stainless, antimagnetic, acid-proof
- ELORA-Special-Chrome-Nickel-steel



Code	Number	l/mm	Pieces	Weight/g
5250000000000	5250	122	6	14

## 5200-ST

### ELECTRONIC IC-TWEEZERS

- for all fine gripping and assembly work
- anti-glare satin finish, grooved gripping surfaces, with IC-tip
- stainless, antimagnetic, acid-proof
- ELORA-Special-Chrome-Nickel-Stainless steel



Code	Number	l/mm	Pieces	Weight/g
5200000001000	5200-ST	120	6	14

## 5220-ST, 5290-ST, 5300-ST

### ELECTRONIC GRIPPING TWEEZERS

- for all fine gripping and assembly work
- anti-glare satin finish, grooved gripping surfaces
- stainless, antimagnetic, acid-proof
- Special-Chrome-Nickel-steel



Code	Number	Surfaces	l/mm	Pieces	Weight/g
5220000001000	5220-ST	rectangular, smooth reaching, 5 mm wide points	120	6	14
5290000001000	5290-ST	rectangular, smooth reaching, 5 mm wide points	145	6	28
5300000001000	5300-ST	rectangular, smooth reaching, 5 mm wide points, red PVC coated	145	6	28

## 5370-ST

### ELECTRONIC SMD REVERSE ACTION TWEEZERS

- for handling of SMD's on PCB's, SOT packages and monolithic chips
- anti-glare satin finish, smooth gripping surfaces
- stainless, antimagnetic, acid-proof
- ELORA-Special-Chrome-Nickel-Stainless steel



Code	Number	l/mm	Pieces	Weight/g
5370000000000	5370-ST	115	6	12

## 5380-ST

### ELECTRONIC SMD TWEEZERS

- assembling of components up to 1 mm width and SOT packages
- anti-glare satin finish, smooth gripping and grab surfaces
- serrated grab surfaces, stainless, antimagnetic, acid-proof
- ELORA-Special-Chrome-Nickel-steel



Code	Number	l/mm	Pieces	Weight/g
5380000000000	5380-ST	115	6	14

## 5140-ST, 5150-ST, 5360-ST

### UNIVERSAL TWEEZERS

- for all fine gripping and assembly work
- anti-glare satin finish, grooved gripping surface, serrated reaching surface
- serrated grab surfaces, stainless, antimagnetic, acid-proof
- ELORA-Special-Chrome-Nickel-steel



Code	Number	Points	l/mm	Pieces	Weight/g
5140000001000	5140-ST	straight, serrated inside, rounded, 3 mm wide	120	6	14
5150000001000	5150-ST	straight, serrated inside, rounded, 3 mm wide	145	6	24
5360000001000	5360-ST	small and round 2,5 mm, inside serrated, long handle	140	6	20

## 5310-ST, 5320-ST

### UNIVERSAL TWEezer

- for all fine gripping and assembly work
- anti-glare satin finish, grooved gripping surfaces, serrated reaching surface
- stainless, antimagnetic, acid-proof
- Special-Chrome-Nickel-steel



Code	Number	Points	l/mm	Pieces	Weight/g
5310000001000	5310-ST	point end, bent, fine serrated inside, with guide pin	155	6	18
5320000001000	5320-ST	point end, straight, fine serrated inside, with guide pin	155	6	18

You will find the fitting (De-)Magnetizer on page no. 263



You will find ESD-tweezers on page no. 287-288



**1095**  
**WIRE STRIPPER**

- for wire cross section 0,5-6,0 mm<sup>2</sup>
- for automatic stripping of inner conductors
- with scale for stripping length from 5-12 mm
- integrated side cutter
- blades made of hardened special steel
- black plastic handles



Code	Number	l/mm	Pieces	Weight/g
1095000000000	1095	150	1	112

**1094**  
**AUTOMATIC WIRE STRIPPER**


- for wire diameter 0,2-6,0 mm<sup>2</sup>
- automatic adjustment to wire diameter
- with length stop for stripping length from 5-12 mm
- integrated side cutter for wire up to Ø 2,0 mm
- blades made of hardened special steel
- black plastic handles



Code	Number	l/mm	Pieces	Weight/g
1094000000000	1094	200	1	126

**1080, 1081, 1082**  
**UNIVERSAL CABLE KNIFE**

- 1080-1081: for wire of 4-28 mm Ø
- 1082: for wire of 8-28 mm Ø
- for precise, quick and safe stripping of all kind of round wires, round and length cut in one operation
- blade with transparent plastic safety cover
- hardened special purpose steel blade, black plastic handle



Code	Number	Blade	l/mm	Pieces	Weight/g
1080000000000	1080	dual blade, straight and hook pattern	170	1	80
1081000000000	1081	single blade, straight	170	1	80
1082000000000	1082	inside blade	130	1	70

**You will find more wire stripping pliers on page no. 305-319**




**You will find ESD-electronic-wire stripping pliers on page no. 281**






### 1083

#### ROUND WIRE STRIPPER

- for round wire of 8-13 mm Ø (e.g. NYM 3 x 1,5 mm<sup>2</sup> up to 5x2,5 mm<sup>2</sup>)
- for flush cutting-off even in difficult to access areas like for example distribution boxes
- automatic adjustment of the cutting depth
- hardened special purpose steel blades, black plastic handle



Code	Number	l/mm	Pieces	Weight/g
1083000000000	1083	128	1	44

### 281-KZ

#### CABLE KNIFE

- two-parts, with blade and awl, retractable
- blade 65 mm, awl 70 mm
- blade hardness 54-56 HRC
- with wooden handle
- spring steel C67 / 1.0603



Code	Number	l/mm	Pieces	Weight/g
0281000021000	281-KZ	165	6	83

### 281

#### CABLE KNIFE

- folding blade
- blade length 90 mm
- blade hardness 54-56 HRC
- with wooden handle
- spring steel C67 / 1.0603



Code	Number	l/mm	Pieces	Weight/g
0281000000000	281	200	6	74

You will find VDE-electronic-wire stripping pliers on page no. 309



### 496

#### WIRE SNIP

- ▶ for copper-, steel-, and aluminium wire
- ▶ maximum wire cross section 16 mm<sup>2</sup>
- ▶ polished head
- ▶ black dip insulated handles
- ▶ ELORA-Chrome-Vanadium special purpose steel



Code	Number	l/mm ┌──┐	l/Inch ┌──┐	Pieces ☞	Weight/g ⚖
0496000003000	496	210	8,5	1	350

### 498-7

#### WIRE SNIP

- ▶ for wires up to 10 mm Ø
- ▶ self-opening, one hand locking function
- ▶ with red, impact resistant plastic handles
- ▶ stainless steel



Code	Number	l/mm ┌──┐	l/Inch ┌──┐	Pieces ☞	Weight/g ⚖
0498000076000	498-7	160	6,25	1	120

07

You will find VDE-snips  
on page no. 309



## 467-...

### CRIMPING PLIER

- for Western plugs
- for cutting and stripping of flat, unshielded cables by one operation
- high crimping quality due to integrated locking (self-releasing mechanism)
- additional stripping function for round wires
- hardened, gunmetal-finish, yellow plastic handles
- ELORA-Chrome-Vanadium special purpose steel



Code	Number	Art.-Indication	l/mm	Pieces	Weight/g
0467000012000	467-1	for crimping 8P8C/RJ-45, 6P6C/RJ-12, 6P4C/RJ-11, 6P2C/RJ-11	190	1	290
0467000022000	467-2	for crimping 8P8C/RJ-45, 6P6C/RJ-12, 6P4C/RJ-11, 4P4C & 4P2C	190	1	280
0467000017000	467-E1	Spare blade for 467-1	15	1	1
0467000027000	467-E2	Spare blade for 467-2	15	1	1

## 466A-...

### CABLE END SLEEVE PLIER

- for pressing of end-sleeves according to DIN 46228 part 1 and 4
- with side cutter and wire stripping mechanism for soft wire
- red handles, PVC dip insulated
- ELORA-high grade steel C45 / 1.0503



Code	Number	for cable terminals Ø mm	l/mm	Pieces	Weight/g
0466000255100	466A-2,5	0,25-2,5	155	1	170
0466001605100	466A-16,0	0,50-16,0	220	1	285

## 466I-...

### CABLE END SLEEVES

- tin-plated pattern
- deoxidized copper, (SF-Cu) according to DIN 1787
- DIN 46228, part 1
- sales unit 1000 pcs.



Code	Number	Section mm <sup>2</sup>	l/mm	Pieces
0466010051000	466I-0,5	0,5	6	1
0466010071000	466I-0,75	0,75	6	1
0466010101000	466I-1,0	1,0	6	1
0466010151000	466I-1,5	1,5	7	1
0466010251000	466I-2,5	2,5	7	1

## 466IH-...

### CABLE END SLEEVES

- tin-plated pattern, insulated by plastic collar
- heat resistant up to 110 C°
- copper (E-Cu) according to DIN 1787
- DIN 46228, part 4
- sales unit 500 pcs.



Code	Number	Section mm <sup>2</sup>	l/mm	Pieces
0466020051000	466IH-0,5	0,5	8	1
0466020071000	466IH-0,75	0,75	8	1
0466020101000	466IH-1,0	1,0	8	1
0466020151000	466IH-1,5	1,5	8	1
0466020251000	466IH-2,5	2,5	8	1

## 466S-...

### CABLE END SLEEVES ASSORTMENT

- in transparent plastic box
- according to DIN 46228



Code	Number	Contents	Pieces	Weight/g
0466500105100	466S-1	Cable End Sleeves 500x 466I-0,25 500x 466I-0,34 500x 466I-0,5 500x 466I-0,75 500x 466I-1,0	1	135
0466500255100	466S-2,5	Cable End Sleeves 500x 466I-0,5 500x 466I-0,75 400x 466I-1,0 300x 466I-1,5 200x 466I-2,5	1	140
0466500405100	466S-4,0	Cable End Sleeves 400x 466I-0,75 300x 466I-1,0 200x 466I-1,5 150x 466I-2,5 100x 466I-4,0	1	113
0466501605100	466S-16,0	Cable End Sleeves 150x 466I-4,0 75x 466I-6,0 75x 466I-10,0 50x 466I-16,0	1	140
0466510255100	466SH-2,5	Cable End Sleeves insulated 50x 466IH-0,5 100x 466IH-0,75 100x 466IH-1,0 100x 466IH-1,5 50x 466IH-2,5	1	96
0466511605100	466SH-16,0	Cable End Sleeves insulated 50x 466IH-4,0 20x 466IH-6,0 20x 466IH-10,0 10x 466IH-16,0	1	88

## 466S 210, 466S 309

### CABLE END SLEEVES ASSORTMENT

- in transparent plastic box
- for pressing of end-sleeves according to DIN 46228 part 1 and 4
- with side cutter and wire stripping mechanism for soft wire
- red handles, PVC dip insulated
- ELORA-high grade steel C45 / 1.0503



Code	Number	Contents	Pieces	Weight/g
0466502105100	466S 210	Crimping Plier 466A-2,5 VDE-Screwdriver 900IS-100 Cable end sleeves 30 pcs. each 466I-0,25, 0,34, 0,5, 0,75, 1,0, 1,5, 2,5	1	442
0466503095100	466S 309	Crimping Plier 466A-16,0 VDE-Screwdriver 900IS-100 Cable end sleeves 50 pcs. each 466I-0,5, 0,75, 1,0, 1,5 40x 466I-2,5 25x 466I-4,0 20x 466I-6,0 12 pcs. each 466I-10,0, 16,0	1	578

**564N**

**VDE-VOLTAGE TESTER, TWO-POLE**

- to detect AC voltage between 6V-1000V and DC voltage between 6V-1400V
- optical, audible and vibration alert if life-threatening voltage occurs starting from 35V
- polarity phase indication at DC
- automatic selection of measurement range, 1 pole single phase detection, two-pole 3 phase control
- continuity test 0-50 kOhm (optical and audible)
- Diode test
- FI/RCD-control test (30mA) via two feelers
- white LED metering monitor light
- easily operated click system to adjust the power socket size
- optimum one-hand operation
- special tips also fit to WAGO-clamps
- unscrewable 4 mm test tip adapter and GS 38 test attachments
- non-volatile test tip covers
- black rubber grips
- dust- and water-jet-proof
- CAT IV 1000V according to IEC/EN 61243-3:2011-02 (DIN VDE 0682-401)
- WAGO= reg. Trademark of company WAGO Kontakttechnik GmbH & Co. KG, Minden / Germany



Code	Number	l/mm	Pieces	Weight/g
0564000102100	564N	152	1	290

**566-...**

**VDE VOLTAGE TESTER**

- for 125-250V AC
- contact sensor for activating test function
- with plastic clip and pin hole
- nickel-plated blade
- according to DIN VDE 0680 Teil 6 1977-02



Code	Number	l/mm	Pieces	Weight/g
0566001500000	566-150	150	6	30
0566001900000	566-190	190	6	40

**561**

**VOLTAGE TESTER**

- for 120-230V AC
- contact sensor in plastic head for activating test function
- transparent plastic handle with lens and red plastic head
- nickel-plated blade and plastic sheathed



Code	Number	Edge mm	l/mm	Pieces	Weight/g
0561000000000	561	0,3x3	65	6	15

**563**

**VOLTAGE TESTER**

- for 120-230V AC
- contact sensor in brass head for activating test function
- transparent plastic handle with lens and brass head
- nickel-plated blade and plastic sheathed



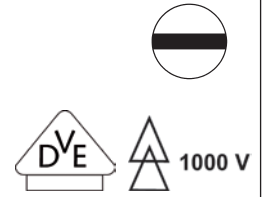
Code	Number	Edge mm	l/mm	Pieces	Weight/g
0563000000000	563	0,5x3,5	100	6	34





07

**900IS-...**

**VDE SCREWDRIVER**

- for plain slotted screws
- blade gunmetal-finish
- impact resistant handle with suspension hole
- up to ELORA-No. 900IS-100 ELORA-Chrome-Vanadium 73MoV52 / 1.2381 else ELORA-Chrome-Vanadium 59CrV4 / 1.2242
- VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004, fully insulated blade
- blade according to DIN ISO 2380-1

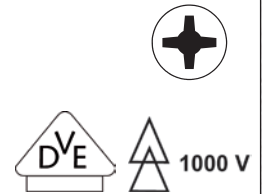






Code	Number	Edge mm	 mm	 mm	Pieces 	Weight/g 
0900004252100	900IS-75	0,4 x 2,5	75	150	6	31
0900005302100	900IS-100	0,5x 3,0	100	175	6	37
0900008552100	900IS-12508	0,8 x 5,5	125	220	6	84
0900006352100	900IS-106	0,6 x 3,5	100	175	6	38
0900008402100	900IS-108	0,8 x 4,0	100	175	6	42
0900006282100	900IS-7506	0,6 x 2,8	75	150	6	32
0900010552100	900IS-12510	1,0 x 5,5	125	210	6	84
0900012652100	900IS-150	1,2 x 6,5	150	245	6	104
0900012802100	900IS-175	1,2 x 8,0	175	280	6	160
0900016102100	900IS-200	1,6 x 10,0	200	325	6	270

**910PH-...**

**VDE SCREWDRIVER**

- for cross slotted screws
- blade gunmetal-finish
- impact resistant handle with suspension hole
- up to ELORA-No. 910PH-0 ELORA-Chrome-Vanadium 73MoV52 / 1.2381, otherwise ELORA-Chrome-Vanadium 59CrV4 / 1.2242
- VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004, fully insulated blade
- tip according to DIN ISO 8764-1 PH

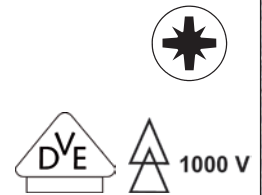






Code	Number	Number	 mm	 mm	Pieces 	Weight/g 
0910000002100	910PH-0	PH-0	60	140	6	32
0910000012100	910PH-1	PH-1	80	170	6	52
0910000022100	910PH-2	PH-2	100	200	6	86
0910000032100	910PH-3	PH-3	140	255	6	150
0910000042100	910PH-4	PH-4	200	325	6	275

**912PZ-...**

**VDE SCREWDRIVER**

- for cross slotted screws
- blade gunmetal-finish
- impact resistant handle with suspension hole
- ELORA-Chrome-Vanadium 73MoV52 / 1.2381
- VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004, fully insulated blade
- tip according to DIN ISO 8764-1 PZ



Code	Number	 mm	 mm	Pieces 	Weight/g 
0912000002100	912PZ-0	60	140	6	32
0912000012100	912PZ-1	80	170	6	52
0912000022100	912PZ-2	100	200	6	86
0912000032100	912PZ-3	140	255	6	150
0912000042100	912PZ-4	200	325	6	275

07

## 959-L...

### HEXAGON KEY

- for inside hexagon screws
- nickel-plated
- ELORA-Chrome-Vanadium steel
- DIN ISO 2936
- 2-color-multilayer insulation (yellow, red) for easy identification of insulation damages
- insulated, tested according to EN/IEC 60900:2004, individually tested with 10.000V and approved for 1.000V



Code	Number	mm	l/mm	Pieces	Weight/g
0959010032100	959-L3	3	130	6	20
0959010042100	959-L4	4	140	6	30
0959010052100	959-L5	5	160	6	50
0959010062100	959-L6	6	180	6	80
0959010082100	959-L8	8	200	6	140
0959010102100	959-L10	10	225	6	230
0959010122100	959-L12	12	250	6	245

## 956-...

### HEXAGON KEY WITH T-HANDLE

- for inside hexagon screws
- nickel-plated
- ELORA-Chrome-Vanadium steel
- DIN ISO 2936
- insulated, tested according to EN/IEC 60900:2004, individually tested with 10.000V and approved for 1.000V



Code	Number	mm	l/mm	Pieces	Weight/g
0956000042100	956-4	4	200	6	87
0956000052100	956-5	5	200	6	93
0956000062100	956-6	6	200	6	110
0956000082100	956-8	8	200	6	128

## 979S-5K

### VDE SCREWDRIVER SET

- 5 pcs.
- in an environmentally friendly carton package



Code	Number	Contents	Pieces	Weight/g
0979500509000	979 S-5K	VDE-Screwdrivers for plain 900-IS 75, 106, 12508 Cross slotted VDE-Screwdrivers 910-PH 1, PH 2	1	350

You will find the fitting (De-)Magnetizer on page no. 263



You will find the fitting module VDE-screwdrivers on page no. 52, 59

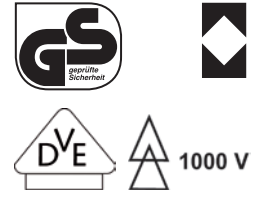




**970-160**

**VDE WIRE STRIPPER WITH HANDLE INSULATION**

- self-opening by spring
- V-shaped jaws for stripping of plastic insulation from single and multi-wire conductors
- adjustment of opening position to required diameter by adjustable screw with locknut
- for wires from Ø 0,8 - 6,0 mm
- chrome-plated, polished, with nonslip QUATROLIT®-2C-handles
- handles VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004
- ELORA-high grade tool steel C45 / 1.0503

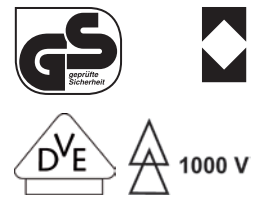


Code	Number	l/mm	Pieces	Weight/g
0970021602100	970-160	160	1	160

**980-165**

**VDE WIRE STRIPPER WITH HANDLE INSULATION**

- self-adjusting blades in respect of diameter to be stripped
- for wires from 0,5-5,0 mm
- for stripping of single or multi-wire conductors
- chrome-plated, polished, with QUATROLIT®-2C-handles
- handles VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004
- ELORA-high grade tool steel C45 / 1.0503



Code	Number	l/mm	Pieces	Weight/g
0980021652100	980-165	165	1	190

**950-...**

**VDE UNIVERSAL SIDE CUTTER WITH HANDLE INSULATION**

- high cutting performance with minimal effort
- maximum stability under load by additional inductive hardening
- cutting edge hardness: 63-65 HRC
- for hardened steel wire, piano wire (tensile strength 2300 N/mm<sup>2</sup>)
- chrome-plated, polished, with nonslip QUATROLIT®-2C-handles
- handles VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004
- ELORA-high grade tool steel C45 / 1.0503



Code	Number	Ø mm	Ø mm	l/mm	Pieces	Weight/g
0950021452100	950-145	2,5	1,8	145	1	180
0950021602100	950-160	2,8	2,0	160	1	220
0950021802100	950-180	3,0	2,5	180	1	290

**955-...**

**VDE HEAVY DUTY SIDE CUTTER WITH HANDLE INSULATION**

- high cutting performance with minimal effort
- maximum stability under load by additional inductive hardening
- cutting edge hardness: 63-65 HRC
- for hardened steel wire, piano wire (tensile strength 2300 N/mm<sup>2</sup>)
- chrome-plated, polished, with nonslip QUATROLIT®-2C-handles
- handles VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004
- ELORA-high grade tool steel C45 / 1.0503



Code	Number	Ø mm	Ø mm	l/mm	Pieces	Weight/g
0955021652100	955-165	2,5	2,0	160	1	260
0955022002100	955-200	3,0	2,5	200	1	320

07

## 960-...

### VDE COMBINATION PLIER WITH HANDLE INSULATION

- German pattern
- strong edition for tough conditions
- lay on cutter box for better cutting
- maximum stability of the blades under load by inductive hardening
- cutting edge hardness: 63-64 HRC
- for medium hard wire, steel wire (tensile strength 1600 N/mm<sup>2</sup>)
- serrated gripping surface and burner hole
- chrome plated, polished, with nonslip QUATROLIT®-2C-handles
- Plier acc. to DIN ISO 5746
- handles VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004
- ELORA-high grade tool steel C45 / 1.0503



Code	Number	○ Ø mm	◐ Ø mm	l/mm	Pieces ☞	Weight/g ⚖
0960021652100	960-165	2,5	1,8	165	1	200
0960021852100	960-185	2,8	2,0	185	1	260
0960022052100	960-205	3,0	2,5	205	1	320

## 930-...

### VDE SNIPE NOSE PLIER WITH HANDLE INSULATION

- serrated gripping surface, burner hole and side cutter
- maximum stability under load of the blades by inductive hardening
- chrome plated, polished, with nonslip QUATROLIT®-2C-handles
- Plier acc. to DIN ISO 5745
- handles VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004
- ELORA-high grade tool steel C45 / 1.0503



Code	Number	l/mm	Pieces ☞	Weight/g ⚖
0930021652100	930-165	165	1	150
0930022052100	930-205	205	1	210

## 935-45...

### VDE SNIPE NOSE PLIER WITH HANDLE INSULATION

- 45° bent, serrated gripping surface, burner hole and side cutter
- maximum stability under load of the blades by inductive hardening
- chrome plated, polished, with nonslip QUATROLIT®-2C-handles
- acc. to DIN ISO 5745
- handles VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004
- ELORA-high grade tool steel C45 / 1.0503



Code	Number	l/mm	Pieces ☞	Weight/g ⚖
0935201652100	935-45 165	165	1	150
0935202052100	935-45 205	205	1	210

## 935-90 205

### VDE SNIPE NOSE PLIER WITH HANDLE INSULATION

- 90° bent, serrated gripping surface, burner hole and side cutter
- maximum stability under load of the blades by inductive hardening
- chrome plated, polished, with nonslip QUATROLIT®-2C-handles
- Plier similar to DIN ISO 5745
- handles VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004
- ELORA-high grade tool steel C45 / 1.0503



Code	Number	l/mm	Pieces ☞	Weight/g ⚖
0935292052100	935-90 205	205	1	210

## 920-165

### VDE FLAT NOSE PLIER WITH HANDLE INSULATION

- for holding and bending
- short jaws, serrated gripping surface
- chrome plated, polished, with nonslip QUATROLIT®-2C-handles
- Plier acc. to DIN ISO 5745
- handles VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004
- ELORA-high grade tool steel C45 / 1.0503



Code	Number	l/mm	Pieces	Weight/g
0920021652100	920-165	165	1	180

## 940-165

### VDE ROUND NOSE PLIER WITH HANDLE INSULATION

- with short jaws, serrated gripping surface
- chrome plated, polished, with nonslip QUATROLIT®-2C-handles
- Plier acc. to DIN ISO 5745
- handles VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004
- ELORA-high grade tool steel C45 / 1.0503



Code	Number	l/mm	Pieces	Weight/g
0940021652100	940-165	165	1	170

## 135-5 VDE

### WATERPUMP PLIER WITH DIP INSULATION

- continuously variable to any diameter
- self-locking due to gripping surfaces staggered in reverse order and burner hole
- box joint, trap protection
- dull chrome-plated
- handles tested according to EN/IEC 60900:2004, individually tested with 10.000V and approved for 1.000V
- similar to DIN ISO 8976
- ELORA-Chrome-Vanadium 31CrV3 / 1.2208



Code	Number	l/mm	Pieces	Weight/g
0135000052100	135-5 VDE	260	1	475

### 904-S3

#### VDE PLIER SET

- 3 pcs.
- carton box packed
- handles VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004



Code	Number	Contents	Pieces	Weight/g
0904500301000	904-S3	VDE Snipe Nose Plier with handle insulation 930-205 VDE Combination Plier with handle insulation 960-185 VDE Iniversal Side Cutter with handle insulation 950-160	1	720



### 904-S10

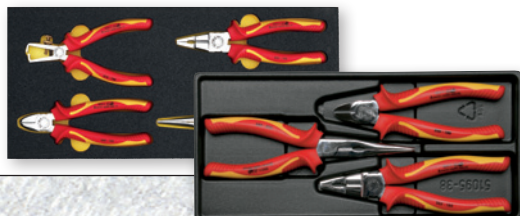
#### VDE SET

- 10 pcs.
- in red plastic box with 2-colour plastic inlay
- VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004



Code	Number	Contents	Pieces	Weight/g
0904501001000	904-S10	VDE Voltage Tester 566-150 VDE Snipe Nose Plier with handle insulation 930-205 VDE Universal Side Cutter with handle insulation 950-160 VDE Combination Plier with handle insulation 960-185 VDE Wire stripper with handle insulation 970-160 VDE Screwdriver, plain slotted 900IS-75, 900IS-106, 900IS-12508 VDE Screwdriver, cross slotted 910PH-1 and 2	1	2120

You will find the fitting module VDE-pliers on page no. 53, 59



You will find more cable snips on page no. 298



**985**  
**VDE CABLE SNIP WITH DIP INSULATION**

- maximum stability under load of the blades by inductive hardening
- cutting edge hardness: 65 HRC
- for copper and aluminium wire
- gunmetal-finish
- 2-colour-multilayer safety handles isolation (yellow, red) for easy identification of insulation damages
- VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004
- ELORA-high grade tool steel C60 / 1.0601

GS geprüfte Sicherheit  
DVE 1000 V

Code	Number	for Wire up to Ø mm	l/mm	Pieces	Weight/g
0985002052100	985	20	205	1	360

**977**  
**VDE CABLE KNIFE**

- with straight blade, hardened
- with blade protector cap and pin hole
- blade made of stainless steel, with red, impact resistant insulated handle
- VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004

GS geprüfte Sicherheit  
DVE 1000 V

Code	Number	l/mm	Pieces	Weight/g
0977000000000	977	185	6	66

**977H**  
**VDE CABLE KNIFE**

- with hook blade, hardened
- with blade protector cap and pin hole
- blade made of stainless steel, with red, impact resistant insulated handle
- VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004

GS geprüfte Sicherheit  
DVE 1000 V

Code	Number	l/mm	Pieces	Weight/g
0977000100000	977H	185	6	64

**977A**  
**VDE CABLE KNIFE**

- blade with blunt end to protect inner conductors, hardened
- with blade protector cap and pin hole
- blade made of stainless steel, with red, impact resistant insulated handle
- VDE insulated up to 1.000V, according to EN 60900/IEC 60900:2004

GS geprüfte Sicherheit  
DVE 1000 V

Code	Number	l/mm	Pieces	Weight/g
0977000200000	977A	180	6	73

**989-...**  
**METAL SAW**

- for pinned saw blades 150 mm
- tested according to EN/IEC 60900:2004, individually tested with 10.000V and approved for 1.000 V
- 989-E = Spare blade

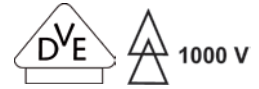
1000 V

Code	Number	l/mm	Pieces	Weight/g
0989000001000	989	265	6	180
0989000001001	989-E	150	6	30

**988-...**

**VDE SINGLE END RING SPANNER, DEEP CRANKED**

- 2-colour-multilayer isolation (yellow, red) for easy identification of insulation damages
- VDE insulation up to 1.000V, according to EN 60900/IEC 60900:2004
- tested according to EN/IEC 60900:2004, individually tested with 10.000V and approved for 1.000V
- ELORA Chrome-Vanadium 31CrV3 / 1.2208



Code	Number	Ø/mm	1000 V	VDE	GS	l/mm	Pieces	Weight/g
0988000102100	988-10	10	x	x	x	165	6	80
0988000112100	988-11	11	x	x	x	175	6	100
0988000122100	988-12	12	x	x	x	185	6	110
0988000132100	988-13	13	x	x	x	195	6	120
0988000142100	988-14	14	x	x	x	200	6	150
0988000152100	988-15	15	x	x	x	205	6	155
0988000172100	988-17	17	x	x	x	210	6	180
0988000192100	988-19	19	x	x	x	230	6	245
0988000222100	988-22	22	x	x	x	250	6	353
0988000242100	988-24	24	x	x	x	260	6	357
0988000272100	988-27	27	x	-	-	280	6	438
0988000302100	988-30	30	x	-	-	280	6	454
0988000322100	988-32	32	x	-	-	300	6	580

**987-...**

**VDE SINGLE OPEN-ENDED SPANNER**

- jaw set at 15°
- 2-colour-multilayer insulation (yellow, red) for easy identification of insulation damages
- VDE insulation up to 1.000V, according to EN 60900/IEC 60900:2004
- tested according to EN/IEC 60900:2004, individually tested with 10.000V and approved for 1.000V
- ELORA-Chrome-Vanadium 31CrV3 / 1.2208



Code	Number	Ø/mm	1000 V	VDE	GS	l/mm	Pieces	Weight/g
0987000102100	987-10	10	x	x	x	105	6	42
0987000112100	987-11	11	x	x	x	115	6	48
0987000122100	987-12	12	x	x	x	125	6	58
0987000132100	987-13	13	x	x	x	135	6	68
0987000142100	987-14	14	x	x	x	145	6	84
0987000152100	987-15	15	x	x	x	155	6	88
0987000172100	987-17	17	x	x	x	160	6	120
0987000192100	987-19	19	x	x	x	175	6	160
0987000222100	987-22	22	x	x	x	200	6	237
0987000242100	987-24	24	x	x	x	225	6	300
0987000272100	987-27	27	x	x	x	250	6	380
0987000302100	987-30	30	x	x	x	275	6	485
0987000322100	987-32	32	x	x	x	290	6	590

## 961-...

### ADJUSTABLE WRENCH

- jaw set at 15°
- 2-colour-multilayer insulation (yellow, red) for easy identification of insulation damages
- chrome plated
- handle insulated, tested according to EN/IEC 60900:2004, individually tested with 10.000V and approved for 1.000V
- ELORA-Chrome-Vanadium 31CrV3 / 1.2208



Code	Number	Span Width mm	1000 V	VDE	GS	l/mm	Pieces	Weight/g
0961000082100	961-8	26	x	-	-	200	6	300
0961000102100	961-10	30	x	-	-	250	6	500
0961000122100	961-12	35	x	-	-	300	6	800

## 905-...

### VDE SCREWDRIVER

- for external hexagon screws
- gunmetal-finish blade
- impact resistant QUATROLIT-2C-handle with pin hole
- ELORA-Chrome-Vanadium 31CrV3 / 1.2208
- VDE insulation up to 1.000V, according to EN 60900/IEC 60900:2004, fully insulated blade
- according to DIN3125, ISO2725-1



Code	Number	mm	mm	mm	Pieces	Weight/g
0905000052100	905-5,5	5,5	125	220	6	72
0905000062100	905-6,0	6,0	125	220	6	75
0905000072100	905-7,0	7,0	125	230	6	106
0905000082100	905-8,0	8,0	125	230	6	108
0905000092100	905-9,0	9,0	125	230	6	110
0905000102100	905-10,0	10,0	125	230	6	115
0905000112100	905-11,0	11,0	125	240	6	165
0905000122100	905-12,0	12,0	125	240	6	165
0905000132100	905-13,0	13,0	125	240	6	170

**966**  
**REVERSIBLE RATCHET 3/8"**

- gear-wheel with safety locking mechanism and quick release button
- 2-colour-multilayer insulation (yellow, red) for easy identification of insulation damages
- insulated, tested according to EN/IEC 60900:2004, individually tested with 10.000V and approved for 1.000V
- ELORA-Chrome-Vanadium 31CrV3 / 1.2208
- square drive according to DIN 3120-A 10 ISO1174, with ball locking device



10


3/8"



Code	Number	l/mm	Pieces	Weight/g
0966000002100	966	200	1	356


**969-...**  
**SOCKET 3/8"**

- square drive according to DIN 3120-C 10 ISO1174, with ball retaining groove
- chrome-plated
- 2-colour-multilayer insulation (yellow, red) for easy identification of insulation damages
- tested according to EN/IEC 60900:2004, individually tested with 10.000V and approved for 1.000V
- ELORA Chrome-Vanadium 31CrV3 / 1.2208



10

3/8"



Code	Number	Ø/mm	l/mm	Pieces	Weight/g
0969000092100	969-9	9	28	6	31
0969000102100	969-10	10	28	6	31
0969000112100	969-11	11	28	6	33
0969000122100	969-12	12	28	6	33
0969000132100	969-13	13	28	6	34
0969000142100	969-14	14	30	6	36
0969000152100	969-15	15	30	6	44
0969000162100	969-16	16	30	6	50
0969000172100	969-17	17	30	6	54
0969000182100	969-18	18	30	6	58
0969000192100	969-19	19	30	6	70
0969000202100	969-20	20	30	6	72
0969000212100	969-21	21	30	6	77
0969000222100	969-22	22	32	6	94

**967-...**  
**EXTENSION BAR 3/8"**

- with safety lock screw
- chrome-plated
- 2-colour-multilayer insulation (yellow, red) for easy identification of insulation damages
- ELORA-Chrome-Vanadium 31CrV3 / 1.2208
- tested according to EN/IEC 60900:2004, individually tested with 10.000V and approved for 1.000V



10

3/8"



Code	Number	l/mm	Pieces	Weight/g
0967001252100	967-125	125	6	154
0967002502100	967-250	250	6	280

**968**  
**T-HANDLE 3/8"**

- with safety screw lock
- chrome-plated
- 2-colour-multilayer insulation (yellow, red) for easy identification of insulation damages
- ELORA-Chrome-Vanadium 31CrV3 / 1.2208
- tested according to EN/IEC 60900:2004, individually tested with 10.000V and approved for 1.000V



10

3/8"



Code	Number	l/mm	Pieces	Weight/g
0968002002100	968	200	6	450

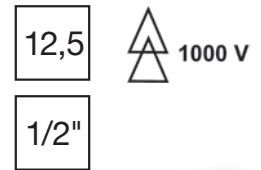
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**990**

**TORQUE WRENCH 1/2"**

- with noticeable and audible „click“ mechanism
- manually adjustable, double scale unit with Nm and ft.lb.
- 2-colour-multilayer insulation (yellow, red) for easy identification of insulation damages
- accuracy + -4% of set value
- square drive according to DIN 3120-A 12,5, ISO1174, with locking device
- tested according to EN/IEC 60900:2004, individually tested with 10.000V and approved for 1.000V

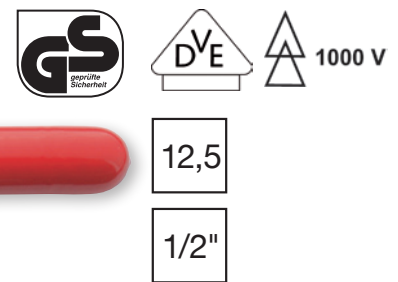


Code	Number	Measuring range ft.lb.	Measuring range Nm	l/mm	Pieces	Weight/g
0990000001000	990	5-35	5-50	370	1	1110

**972**

**VDE REVERSIBLE RATCHET 1/2"**

- gear-wheel with safety locking mechanism and quick release button
- 2-colour-multilayer insulation (yellow, red) for easy identification of insulation damages
- VDE insulated up to 1.000V, according to EN60900/IEC 60900:2004
- ELORA-Chrome-Vanadium 31CrV3/1.2208
- square drive according to DIN 3120-A 12,5, ISO1174, with ball locking device

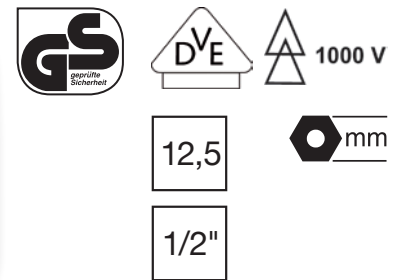


Code	Number	l/mm	Pieces	Weight/g
0972000002100	972	260	1	668

**971-...**

**VDE SOCKET 1/2"**

- female square according to DIN 3120-C 12,5, ISO1174, with ball retaining groove
- chrome-plated
- 2-colour-multilayer insulation (yellow, red) for easy identification of insulation damages
- VDE insulated up to 1.000V, according to EN60900/IEC 60900:2004
- tested according to EN/IEC 60900:2004, individually tested with 10.000V and approved for 1.000V
- ELORA-Chrome-Vanadium 31CrV3 / 1.2208



Code	Number	mm	Length without insulation mm	Pieces	Weight/g
0971000092100	971-9	9	40	6	58
0971000102100	971-10	10	40	6	60
0971000112100	971-11	11	40	6	63
0971000122100	971-12	12	40	6	64
0971000132100	971-13	13	40	6	64
0971000142100	971-14	14	40	6	63
0971000152100	971-15	15	40	6	67
0971000172100	971-17	17	40	6	74
0971000182100	971-18	18	40	6	91
0971000192100	971-19	19	40	6	83
0971000212100	971-21	21	40	6	107
0971000222100	971-22	22	40	6	114
0971000242100	971-24	24	40	6	117
0971000272100	971-27	27	43	6	181
0971000302100	971-30	30	45	6	195
0971000322100	971-32	32	45	6	200

## 971-IN...

### VDE SCREWDRIVER SOCKET 1/2"

- only to use with ELORA-No. 972, 973 and 974-125
- chrome-plated
- female square according to DIN 3120-C 12,5, ISO1174, with ball retaining groove
- VDE insulated up to 1.000V, according to EN60900/IEC 60900:2004
- ELORA-Chrome-Vanadium 31CrV3 / 1.2208



12,5



1/2"

Code	Number	mm	Length without insulation mm	Pieces	Weight/g
0971000045100	971-IN4	M5	70	6	86
0971000055100	971-IN5	M6	70	6	87
0971000065100	971-IN6	M8	70	6	107
0971000085100	971-IN8	M10	70	6	108
0971000105100	971-IN10	M12	70	6	109

## 973

### VDE-T-BAR 1/2"

- with safety screw lock
- chrome plated
- 2-colour-multilayer insulation (yellow, red) for easy identification of insulation damages
- VDE insulated up to 1.000V, according to EN60900/IEC 60900:2004
- ELORA-Chrome-Vanadium 31CrV3 / 1.2208



12,5

1/2"

Code	Number	l/mm	Width mm	Pieces	Weight/g
0973002052100	973	210	145	1	453

## 974-...

### EXTENSION BAR

- with safety screw lock
- chrome-plated
- 2-colour-multilayer insulation (yellow, red) for easy identification of insulation damages
- tested according to EN/IEC 60900:2004, individually tested with 10.000V and approved for 1.000V
- ELORA-Chrome-Vanadium 31CrV3 / 1.2208



12,5

1/2"

Code	Number	l/mm	Pieces	Weight/g
0974001252100	974-125	125	1	206
0974002502100	974-250	250	1	410

## 971-S13

### VDE SCREWDRIVER SOCKET SET 1/2"

- 13 pcs.
- in red plastic box with 2-colour-plastic inlay
- 2-colour-multilayer insulation (yellow, red) for easy identification of insulation damages
- ELORA-Chrome-Vanadium 31CrV3 / 1.2208



12,5

1/2"



Code	Number	Contents	Pieces	Weight/g
0971500131000	971-S13	VDE Sockets 971-10, 12, 13, 14, 17, 19, 22, 24 mm VDE Reversible Ratchet 972 Extension Bar 974-125, 250 T-Handle 973 VDE-Screwdriver 900-IS 12508	1	3240

07