



Electronic-Tools

Made in Germany





BERNSTEIN Electronic-Tools

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We reserve the right to make technical modifications without prior notice for all articles of this catalogue.

ESD PROFI-SET **TRENDY** 2280 AND 2285

The professional kit for ESD-Specialists for local and mobile use



2280 **BERNSTEIN** ESD Profi-Set **TRENDY**
with tool set including ESD handling set

2285 **BERNSTEIN** ESD Profi-Set **TRENDY**
with tool set

Description:

Selected ESD-tools in handy plastic case made from conductive material. The tools are clearly arranged in accurate-sized cutouts in conductive hardfoam. For individual accessories are one resp. two cutouts available.

Outside dimensions: 350 x 310 x 65 mm (when closed)

Tool set:



Weight : approx.1.650 / 1.500 kg

No.	Description of individual tools
2-620	PLCC extractor
3-133-13	Side cutters , 120 mm, with conductive black hand-guard
3-651-15	Mini side cutters EUROline-Conductive , 120 mm, without sideface, for soft wire up to 0.6 mm Ø, copper wire up to 1.2 mm Ø, box joint, double leaf spring, fine polished and bright burnished, conductive bicoloured hand-guard
3-682-15	Flat nose pliers EUROline-Conductive , 130 mm, as above
3-683-15	Snipe nose pliers EUROline-Conductive , 130 mm, short jaws, as above
4-601	Screwdriver 50 x 0.8 mm , with conductive handle, blade from chrome vanadium, chrome-plated, with black tip
4-603	Screwdriver 50 x 1.5 mm , with conductive handle, blade from chrome vanadium, chrome-plated, with black tip
4-605	Screwdriver 60 x 2.0 mm , with conductive handle, blade from chrome vanadium, chrome-plated, with black tip
4-621	Cross-recess screwdriver size 000 , with conductive handle, blade from chrome vanadium, chrome-plated, with black tip
4-622	Cross-recess screwdriver size 00 , with conductive handle, blade from chrome vanadium, chrome-plated, with black tip

No.	Description of individual tools
4-623	Cross-recess screwdriver size 0 , with conductive handle, blade from chrome vanadium, chrome-plated, with black tip
5-049-13	SMD-tweezers , 110 mm, straight, very sharply pointed, ESD-coating
5-055-13	SMD-tweezers , 120 mm, sickle-shaped, very sharply pointed, as above
5-059-13	SMD-tweezers , 120 mm, flat, rounded tips, 2.0 mm width, as above
6-661	TORX screwdriver T 5 , with conductive handle, blade made from chrome vanadium, chrome-plated, with black tip
6-662	TORX screwdriver T 6 , with conductive handle, blade made from chrome vanadium, chrome-plated, with black tip
6-663 L	TORX screwdriver T 7 , with bore-hole in the tip, with conductive handle, blade made from chrome vanadium, chrome-plated, with black tip
7-422	ESD brush , bristles width 20 mm
9-354	ESD handling set (only in set 2280), consisting of: foldable, green workbench pad (surface resistance according to DIN 53482: approx. 10 ⁸ ohm), 500 x 400 x 0.35 mm, contact bracelet with spiral cord, earth wire 2500 mm long with 1 Mohm safety resistor including crocodile clip

ANTISTATIC 2200 ELECTRONIC-SERVICE-SET

The tool set for mobile use at electrostatically endangered components



2200

2200 **BERNSTEIN** SERVICE-SET **ANTISTATIC** with tool set

2201 Case with zip fastener, without tools

2220 **BERNSTEIN** SERVICE-SET **ANTISTATIC**
with tool set in **conductive** case

2221 Conductive case with zip fastener, without tools

Description:

Elegant, black zipper case, with wine red lining and transparent pockets for 12 tools and a foldable antistatic workbench pad with accessories. Art. 2220 complete made from conductive black imitation leather.

Outside dimensions: 320 x 250 x 50 mm (when closed)



2220

Weight with tools: approx. 0.950 kg

Tool set:

No.	Description of individual tools
2-620	PLCC extractor
3-601-13	Side cutters , 120 mm, for hard wire up to 0.4 mm Ø , for soft wire up to 1.0 mm Ø , bright steel-polished, box joint, double leaf spring, with conductive black hand-guard
3-632-13	Flat nose pliers , 120 mm, bright steel-polished, box joint, double leaf spring, with conductive black hand-guard
3-633-13	Snipe nose pliers , 120 mm, bright steel-polished, box joint, double leaf spring, with conductive black hand-guard
4-601	Screwdriver 50 x 0.8 mm , with conductive handle, blade from chrome vanadium, chrome-plated, with black tip
4-605	Screwdriver 60 x 2.0 mm , with conductive handle, blade from chrome vanadium, chrome-plated, with black tip
4-606	Screwdriver 60 x 2.5 mm , with conductive handle, blade from chrome vanadium, chrome-plated, with black tip
4-621	Cross-recess screwdriver size 000 , with conductive handle, blade from chrome vanadium, chrome-plated, with black tip

No.	Description of individual tools
4-622	Cross-recess screwdriver size 00 , with conductive handle, blade from chrome vanadium, chrome-plated, with black tip
4-623	Cross-recess screwdriver size 0 , with conductive handle, blade from chrome vanadium, chrome-plated, with black tip
5-191	Tweezers , 120 mm, made from conductive plastic material, reinforced with glassfibre, with straight, rounded tips
5-192	Tweezers , 120 mm, made from conductive plastic material, reinforced with glassfibre, with straight, 3 mm flat-hand tips
9-354	ESD handling set , consisting of: foldable, green workbench pad (surface resistance according to DIN 53482: approx. 10 ⁸ ohm), 500 x 400 x 0.35 mm, contact bracelet 9-342, earth wire 2500 mm long with 1 Mohm safety resistor

ESD 2300 SERVICE SET

Special tool set for repair and maintenance of electrostatically endangered components



2300 **BERNSTEIN** ESD Service set with tools

Description:

The foldable green portfolio at the same time serves as an electrically **conductive** workbench pad of 680 x 680 x 0.35 mm. The surface resistance according to DIN 53482 is approx. 10^9 ohm.

The workbench pad has 3 press-stud receptacles for connecting the contact bracelet and the earth wire. With 2 additional press-buttons the pad may be closed as a tool bag.

The 2 patch pockets carry the contact bracelet and the earth wire. Furthermore 16 conductive tools are placed in pockets, ready to hand.

Outside dimensions: 330 x 240 x 20 mm (when closed)

Weight with tools: approx. 0.850 kg

Tool set:

No.	Description of individual tools	No.	Description of individual tools
2-166	Glass fibre contact cleaner , with rotary mechanism, plastic casing	5-191	Tweezers , 120 mm, made from conductive, black plastic material, reinforced with glass fibre, with rounded tips
2-620	PLCC-extractor	5-194	Tweezers , 120 mm, made from conductive, black plastic material, reinforced with glass fibre, with bent, pointed tips
3-601-13	Side cutters , 120 mm, for hard wire up to 0.4 mm Ø, for soft wire up to 1.0 mm Ø, bright steel-polished, box joint, double leaf spring, with conductive black hand-guard	6-616	Socket wrench with conductive handle, blade made from chrome vanadium, nickel-plated, A/F 3.5 mm
3-633-13	Snipe nose pliers , 120 mm, bright steel-polished, box joint, double leaf spring, with conductive black hand-guard	6-661	TORX screwdriver T 5 , with conductive handle, blade made from chrome vanadium, chrome-plated, with black tip
4-601	Screwdriver 50 x 0.8 mm , with conductive handle, blade made from chrome vanadium, chrome-plated, with black tip	6-664 L	TORX screwdriver T 8 , with bore-hole in the tip, with conductive handle, blade made from chrome vanadium, chrome-plated, with black tip
4-605	Screwdriver 60 x 2.0 mm , with conductive handle, blade made from chrome vanadium, chrome-plated, with black tip	6-666 L	TORX screwdriver T 10 , with bore-hole in the tip, with conductive handle, blade made from chrome vanadium, chrome-plated, with black tip
4-606	Screwdriver 60 x 2.5 mm , with conductive handle, blade made from chrome vanadium, chrome-plated, with black tip		
4-621	Cross-recess screwdriver size 000 , with conductive handle, blade made from chrome vanadium, chrome-plated, with black tip	9-342	Contact bracelet cloth armet, allergy-free, edges and surface insulating, spiral cord, 1 Mohm safety resistor, combined press-stud and terminal connection, to DIN EN 100 015/1
4-622	Cross-recess screwdriver size 00 , with conductive handle, blade made from chrome vanadium, chrome-plated, with black tip		
4-623	Cross-recess screwdriver size 0 , with conductive handle, blade made from chrome vanadium, chrome-plated, with black tip	9-346	Earth wire with 1 Mohm safety resistor, 2500 mm long, with terminal connection resp. press-stud, for connecting workbench pad and floor cover and connection to an earth potential

ELECTRONIC-SERVICE TOOL SETS

Special service sets for the maintenance and repairing of mobile phones and other high sensitive IT-Instruments

The tools are clearly arranged in cases made from **conductive** black imitation leather, with zip fastener.

2251 Case with zip fastener, without tools

Outside dimensions: 190 x 135 x 35 mm (when closed)

2250 **BERNSTEIN** CARAT with tool set

9-piece set **conductive** tools from the series EUROLi-ne-Conductive to meet highest quality standards.



Tool set:

No.	Description of individual tools	Weight: approx. 0.360 kg
3-672-15	End cutters EUROLi-ne-Conductive , 130 mm, for copper wire up to 0.6 mm Ø, cutting edge 20° angular, box joint, double leaf spring, fine polished and bright burnished, conductive bicoloured hand-guard	
3-683-15	Snipe nose pliers EUROLi-ne-Conductive , 130 mm, plain jaws, box joint, double leaf spring, fine polished and bright burnished, conductive bicoloured hand-guard	
4-601	Screwdriver with conductive handle, blade from chrome vanadium, chrome-plated, with black tip, 50 x 0.8 mm	
4-603	Screwdriver with conductive handle, blade from chrome vanadium, chrome-plated, with black tip, 50 x 1.5 mm	
4-621	Cross-recess screwdriver size 000, with conductive handle, blade from chrome vanadium, chrome-plated, with black tip	
4-623	Cross-recess screwdriver size 0, with conductive handle, blade from chrome vanadium, chrome-plated, with black tip	
5-191	Tweezers , made from conductive and acid-resistant black plastic material, reinforced with glassfibre, 120 mm, with straight, rounded tips	
6-661	TORX-screwdriver T 5, with conductive handle, blade from chrome vanadium, chrome-plated, with black tip	
6-663 L	TORX-screwdriver T 7, with bore-hole in the tip, with conductive handle, blade from chrome vanadium, chrome-plated, with black tip	

2270 **BERNSTEIN** ACCENT with tool set

9-piece set **conductive** tools with bright steel polished pliers

Tool set:

No.	Description of individual tools	Weight: approx. 0.360 kg
3-601-13	Side cutters , 120 mm, for hard wire up to 0.4 mm Ø, for soft wire up to 1.0 mm Ø, bright steel-polished, box joint, double leaf spring, with conductive black hand-guard	
3-633-13	Snipe nose pliers , 120 mm, plain jaws, bright steel-polished, box joint, double leaf spring, with conductive black hand-guard	
4-601	Screwdriver with conductive handle, blade from chrome vanadium, chrome-plated, with black tip, 50 x 0.8 mm	
4-603	Screwdriver with conductive handle, blade from chrome vanadium, chrome-plated, with black tip, 50 x 1.5 mm	
4-621	Cross-recess screwdriver size 000, with conductive handle, blade from chrome vanadium, chrome-plated, with black tip	
4-623	Cross-recess screwdriver size 0, with conductive handle, blade from chrome vanadium, chrome-plated, with black tip	
5-191	Tweezers , made from conductive and acid-resistant black plastic material, reinforced with glassfibre, 120 mm, with straight, rounded tips	
6-661	TORX-screwdriver T 5, with conductive handle, blade from chrome vanadium, chrome-plated, with black tip	
6-663 L	TORX-screwdriver T 7, with bore-hole in the tip, with conductive handle, blade from chrome vanadium, chrome-plated, with black tip	



3-680 **BERNSTEIN** EUROLi-ne-Conductive set of pliers

4-piece set **conductive** pliers from the series EUROLi-ne-Conductive to meet highest quality standards

Tool set:

No.	Description of individual tools	Weight: approx. 0.390 kg
3-651-15	Mini side cutters EUROLi-ne-Conductive , 120 mm, without sideface, for soft wire up to 0.6 mm Ø, copper wire up to 1.2 mm Ø, box joint, double leaf spring, fine polished and bright burnished, conductive bicoloured hand-guard	
3-672-15	End cutters EUROLi-ne-Conductive , 130 mm, for copper wire up to 0.6 mm Ø, cutting edge 20° angular, box joint, double leaf spring, fine polished and bright burnished, conductive bicoloured hand-guard	
3-682-15	Flat nose pliers EUROLi-ne-Conductive , 130 mm, plain jaws, finish as before	
3-683-15	Snipe nose pliers EUROLi-ne-Conductive , 130 mm, plain jaws, finish as before	

EPA ELECTRONIC SERVICE CASE

The service case made from **conductive material** for maintenance and installation tasks in **ESD protected areas** with a full assortment of special ESD-tools. For use at electrostatically endangered components and plants.

6900 **BERNSTEIN** EPA with tool set

6915 **BERNSTEIN** EPA without tool set



Description:

The body of the case, the tool trays as well as the bottom tray with adjustable partitions are made from conductive material according to **DIN EN IEC Norm 10 00 15 part 5**. The tools of this set have been tested with good results by several testing laboratories adequate to **DIN EN 61340-5-1, 61340-2-1, 61340-2-3** for work in ESD protected areas. The sturdy shells are pressed with the stable double aluminium frame.

32 tools are clearly arranged on two tool trays, one of it on both sides. The lid of the case has a pocket for documentations etc. The bottom tray allows with its partitions a clear arrangement of additional tools and instruments.

The case has two locks.

Outside dimensions: 460 x 310 x 165 mm

Weight without tools: approx. 5.400 kg

Weight with tools: approx. 6.280 kg

Tool set:

No.	Description of individual tools	No.	Description of individual tools
2-101	Tin knife with ceramic blade, 115 mm	4-632	Screwdriver with conductive special-square pattern handle, blade from chrome vanadium, chrome-plated, with black tip, 100 x 4.0 mm
2-265	2 Test prods , red and black, extremely slim, pointed and flexible, blade made from 1 mm steel wire	4-633	Screwdriver with conductive special-square pattern handle, blade from chrome vanadium, chrome-plated, with black tip, 125 x 5.5 mm
2-620	PLCC extractor	4-662	Cross-recess screwdriver Pozidriv size 1, with conductive special-square pattern handle, blade from chrome vanadium, chrome-plated, with black tip, blade length 80 mm
3-654-15	Side cutters EUROline-Conductive , 125 mm, for hard wire up to 0.4 mm Ø, for copper wire up to 1.5 mm Ø, slim rounded head, box joint, double leaf spring, fine polished and bright burnished, conductive bicoloured hand-guard	4-663	Cross-recess screwdriver Pozidriv size 2, with conductive special-square pattern handle, blade from chrome vanadium, chrome-plated, with black tip, blade length 100 mm
3-671-15	End cutters EUROline-Conductive , 130 mm, for copper wire up to 0.6 mm Ø, extremely slim, straight, box joint, double leaf spring, fine polished and bright burnished, conductive bicoloured hand-guard	5-191	Tweezers , made from conductive and acid-resistant black plastic material, reinforced with glass fibre, 120 mm, with straight, rounded tips
3-682-15	Flat nose pliers EUROline-Conductive , 130 mm, extremely slim, box joint, double leaf spring, fine polished and bright burnished, conductive bicoloured hand-guard	5-192	Tweezers , made from conductive and acid-resistant black plastic material, reinforced with glass fibre, 120 mm, with straight, 3 mm flat-hand tips
3-133-13	Side cutters , 145 mm, for hard wire up to 1.25 mm Ø, for soft wire up to 2.5 mm Ø, chrome-plated, conductive black hand-guard	5-194	Tweezers , made from conductive and acid-resistant black plastic material, reinforced with glass fibre, 120 mm, with bent, pointed tips
3-245-13	Telephone pliers , 200 mm, snipe nose, with cutting edge for hard wire, chrome-plated, conductive black hand-guard	6-612	Socket wrench with conductive handle, blade from chrome vanadium, nickel-plated, A/F 2.0 mm
3-732-13	Combination pliers , 165 mm, chrome-plated, conductive black hand-guard	6-617	Socket wrench with conductive handle, blade from chrome vanadium, nickel-plated, A/F 4.0 mm
4-603	Screwdriver with conductive handle, blade from chrome vanadium, chrome-plated, with black tip, 50 x 1.5 mm	6-621	Socket wrench with conductive handle, blade from chrome vanadium, nickel-plated, A/F 5.5 mm
4-605	Screwdriver with conductive handle, blade from chrome vanadium, chrome-plated, with black tip, 60 x 2.0 mm	6-659	TORX-screwdriver T 4, with conductive handle, blade from chrome vanadium, chrome-plated, with black tip
4-606	Screwdriver with conductive handle, blade from chrome vanadium, chrome-plated, with black tip, 60 x 2.5 mm	6-661	TORX-screwdriver T 5, with conductive handle, blade from chrome vanadium, chrome-plated, with black tip
4-621	Cross-recess screwdriver size 000, with conductive handle, blade from chrome vanadium, chrome-plated, with black tip	6-662	TORX-screwdriver T 6, with conductive handle, blade from chrome vanadium, chrome-plated, with black tip
4-622	Cross-recess screwdriver size 00, with conductive handle, blade from chrome vanadium, chrome-plated, with black tip	6-663 L	TORX-screwdriver T 7 with hole, with conductive handle, blade from chrome vanadium, chrome-plated, with black tip
4-623	Cross-recess screwdriver size 0, with conductive handle, blade from chrome vanadium, chrome-plated, with black tip	6-665 L	TORX-screwdriver T 9 with hole, with conductive handle, blade from chrome vanadium, chrome-plated, with black tip
		7-422	ESD brush , bristles width 20 mm

To complete the set we recommend:

9-316/5	5 Chip-Container , conductive box with lid, black, internal dimensions: 118 x 32 x 14 mm	6-675 L	Extra long TORX-screwdriver T 10 with hole, with conductive special-square pattern handle, blade from chrome vanadium, chrome-plated, with black tip, blade length 300 mm
9-356	ESD-Handling-Set , foldable, with contact bracelet and earth wire	6-676 L	Extra long TORX-screwdriver T 15 with hole, with conductive special-square pattern handle, blade from chrome vanadium, chrome-plated, with black tip, blade length 300 mm
4-643	Extra long screwdriver with conductive special-square pattern handle, blade from chrome vanadium, chrome-plated, with black tip, 300 x 5.5 mm	6-677 L	Extra long TORX-screwdriver T 20 with hole, with conductive special-square pattern handle, blade from chrome vanadium, chrome-plated, with black tip, blade length 300 mm
4-656	Extra long cross-recess screwdriver PH size 1, with conductive special-square pattern handle, blade from chrome vanadium, chrome-plated, with black tip, blade length 300 mm		
4-657	Extra long cross-recess screwdriver PH size 2, with conductive special-square pattern handle, blade from chrome vanadium, chrome-plated, with black tip, blade length 300 mm		

EPA 6900 ELECTRONIC SERVICE CASE

The service case for maintenance and installation tasks in ESD protected areas



EUROline 2600 SERVICE SET

The high quality service equipment for the electronics engineer



2600 **BERNSTEIN** EUROline with tool set

2601 Case with zip fastener, without tools

Description:

Black imitation leather case with zip fastener and velvet grey lining.

22 tools are clearly arranged in pockets made from black imitation leather. For taking CD-ROM, or documents an elastic loop is fixed.

The selected electronics pliers and screwdrivers are from the BERNSTEIN „EUROline“-range.

The CD in the above picture is not included.

Outside dimensions: 320 x 250 x 50 mm (when closed)

Weight with tools: approx. 0.900 kg

Tool set:

No.	Description of individual tools
1-735	Adjusting screwdriver handle , double-ended, for blades with 3 mm Ø
1-738	Special hard plastic bit , blade Ø 3 mm, tip 1.5 x 0.5 mm
1-739	Special hard plastic bit , blade Ø 3 mm, tip 3.0 x 0.5 mm
2-127	Tin knife with plastic handle, 115 mm
2-166	Glass fibre contact cleaner
2-265	2 test prods , red and black, extremely slim, pointed and flexible, blade made from 1 mm steel wire
2-620	PLCC extractor
3-655-14	EUROline side cutters , 120 mm, with slim, rounded head, without side face, box joint, double leaf spring, fine-polished and bright-burnished, bicolour insulation
3-672-14	EUROline end cutters , 130 mm, 20° angular without side face, box joint, double leaf spring, fine-polished and bright-burnished, bicolour insulation
3-683-14	EUROline snipe nose pliers , 130 mm, plain jaws, box joint, double leaf spring, fine-polished and bright-burnished, bicolour insulation

No.	Description of individual tools
4-162	Electronics screwdriver with special handle and swivel top, blade made from chrome vanadium, chrome-plated, with black tip, 40 x 1.5 mm
4-165	Electronics screwdriver as above, 50 x 3.0 mm
4-281	Electronics cross-recess screwdriver as above, size 000
4-282	Electronics cross-recess screwdriver as above, size 00
4-283	Electronics cross-recess screwdriver as above, size 0
5-006	Component tweezers , with insulated jaws, 140 mm
5-051	SMD tweezers , anti-magnetic, non-reflective, straight, pointed, 115 mm
5-052	SMD tweezers , anti-magnetic, non-reflective, bent, very sharply pointed, 110 mm
5-062	SMD tweezers , anti-magnetic, non-reflective, bent, flat tips, with gripping cavity, 115 mm
6-681	TORX screwdriver with special handle and swivel top, blade made from chrome vanadium, chrome-plated, with black tip, size T 5
6-683 L	TORX screwdriver with special handle and swivel top, blade made from chrome vanadium, chrome-plated, with black tip, size T 7 with bore-hole in the tip

NETWORK 2700 SERVICE SET

The set with all essential tools for the assembly and maintenance of networks



2700 **BERNSTEIN** NETWORK with tool set

2701 Case with zip fastener, without tools

Description:

In an elegant black nylon case with zip fastener and velvet grey lining 23 special tools are clearly arranged in pockets.

Outside dimensions: 320 x 250 x 100 mm (when closed)

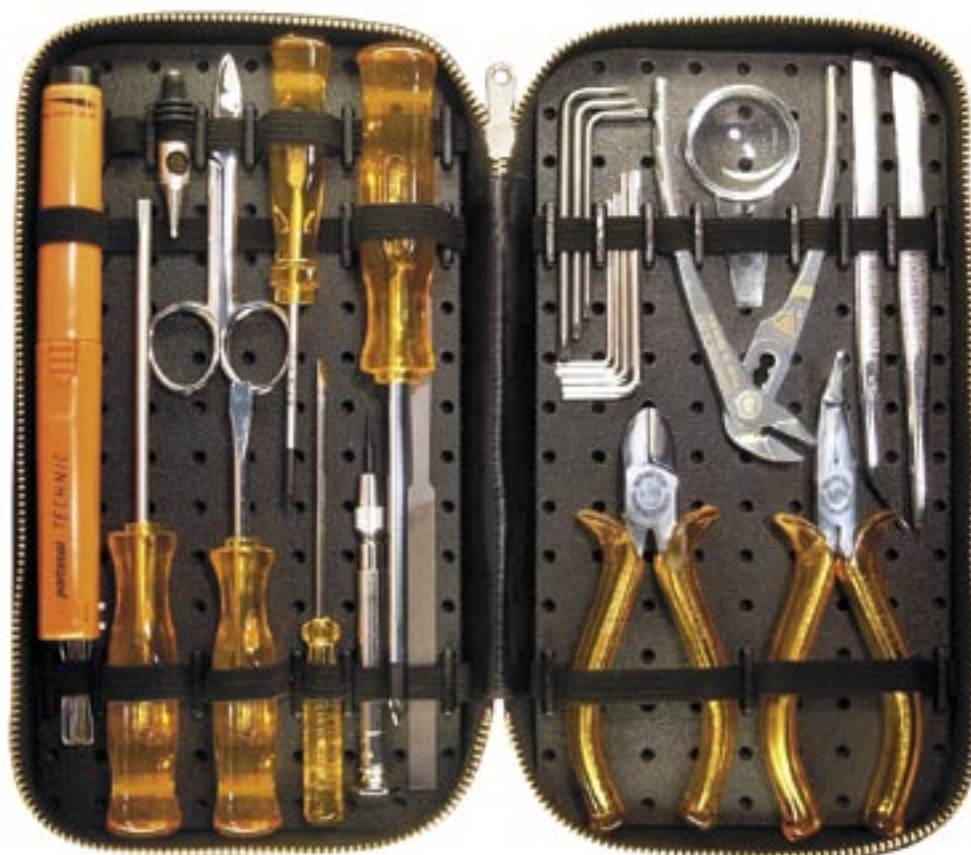
Weight with tools: 2.750 kg

Tool set:

No.	Description of individual tools	No.	Description of individual tools
2-601	IC-tweezers, nickel-plated , 125 mm, for gripping, inserting and removing IC's	4-775	Plastic sprung handle for socket wrenches
3-125-1	Micro side cutters , 110 mm, for soft wire up to 0.8 mm and hard wire up to 0.3 mm, chrome-plated, with BERNSTEINIT-insulation	5-161	Clamping scissors , 130 mm, stainless, with serrated gripping jaws
3-235-1	Telephon pliers , 160 mm, chrome-plated, with BERNSTEINIT-insulation	5-0601	Rotary coaxial cable stripper for cable types RG 58, RG 59 and RG 62
3-815-1	Wire strippers , 155 mm, with adjusting screw for all wire thicknesses, chrome-plated, with BERNSTEINIT-insulation	6-203	Socket wrench , 6.0 mm, chrome vanadium, nickel plated, without handle
3-0605	Combination-crimping pliers for connector types, 6P/6C, 6P/4C, 6P/2C, 8P/8C	6-205	Socket wrench , 8.0 mm, chrome vanadium, nickel plated, without handle
3-0611	Crimping pliers for BNC- and TNC-coaxial connectors	6-207	Socket wrench , 10.0 mm, chrome vanadium, nickel plated, without handle
4-141	Screwdriver with special square BERNSTEIN handle, blade made from chrome vanadium, 75 x 3.5 mm, chrome-plated, with black tip	6-772	Adjustable wrench , chrome vanadium, 150 mm, jaw opening 0 - 18 mm
4-143	Screwdriver as above, 125 x 5.5 mm, chrome-plated, with black tip	6-965 L	TORX-Screwdriver , size T 10, with bore-hole in the tip, with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, black tip
4-255	Cross-recess screwdriver size 0, with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, with black tip, blade length 60 mm	6-966 L	TORX-Screwdriver , size T 15, as above, with bore-hole in the tip
4-256	Cross-recess screwdriver size 1, as above, blade length 80 mm	6-967 L	TORX-Screwdriver , size T 20, as above, with bore-hole in the tip
4-257	Cross-recess screwdriver size 2, as above, blade length 100 mm	8-390	Desoldering pump , 195 mm long, 20 mm Ø
		8-396	Gas-soldering-iron Portasol , 10 - 60 W, maximum temperature up to 450° C

MASTER 3000 SERVICE CASE

The indispensable pouch-style service case for the discerning engineer



3015



3000 **BERNSTEIN** MASTER with tool set

3010 **BERNSTEIN** MASTER with tool set, without gas solder

3015 **BERNSTEIN** MASTER without tool set

Description:

Elegant black grained leather case with all-round zip fastener, inside equipped with black perforated plates.

22 BERNSTEIN tools are clearly arranged on these plates fixed by clips and elastic ribbons.

In the empty case No. 3015 elastic ribbon and clips as well as a clip fastening device are attached for individual arrangement.

Outside dimensions: 245 x 130 x 60 mm (when closed)

Weight with tools: approx. 1.100 kg

Tool set:

No.	Description of individual tools
2-291	Plastic magnifying glass , 30 mm Ø; 5 x magnification
3-131-1	Side cutters , 120 mm, for hard wire up to 0.8 mm, for soft wire up to 1.5 mm, chrome-plated, with BERNSTEINIT insulation
3-482-1	Snipe nose pliers , 140 mm, angular, with long jaws, slim model, with compression spring, chrome-plated, with BERNSTEINIT insulation
3-565	Water pump pliers , 130 mm, chrome-plated
4-142	Screwdriver to DIN 5265, with special square pattern BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, with black tip, 100 x 4 mm
4-271	Cross-recess screwdriver , Supadriv/Pozidriv, size 0, with special square pattern BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, with black tip, blade length 60 mm
4-273	Cross-recess screwdriver , Supadriv/Pozidriv, size 2, with special square pattern BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, with black tip, blade length 100 mm
4-311	Screwdriver for grub screws with plastic handle, blade made from chrome vanadium, nickel-plated, 80 x 2.8 mm

No.	Description of individual tools
4-331	Assembly screwdriver with plastic handle, nickel-plated blade, 45 x 6 mm, with special square pattern BERNSTEIN handle
4-391	Watchmaker's screwdriver , nickel-plated, with 4 interchangeable blades 1.5, 2.0, 2.5 and 3.0 mm
5-107	Steel tweezers , with bent tips, 150 mm, nickel-plated
5-117	Steel tweezers , straight, flat and wide, 145 mm, nickel-plated
5-261	Contact file , 150 mm
5-301	Special sheet-metal scissors , serrated, extremely slim, 110 mm, nickel-plated
6-814	Wrench key , 2.0 A/F mm, angle-shaped, special steel, nickel-plated
6-815	Wrench key , 2.5 A/F mm, as above
6-816	Wrench key , 3.0 A/F mm, as above
6-817	Wrench key , 3.5 A/F mm, as above
6-995-10	Torx-wrench key , T 10, with bore hole, chrome vanadium, burnished
6-995-15	Torx-wrench key , T 15, as above
6-995-20	Torx-wrench key , T 20, as above
8-396	Gas-soldering-iron Portasol , 10 - 60 W, maximum temperature up to 450° C

SPRINTER 3100 SERVICE CASE

The handy tool case for service-inspection of the electronics engineer



3100 **BERNSTEIN SPRINTER** with tool set

3110 **BERNSTEIN SPRINTER** with tool set but without gas solder

3115 **BERNSTEIN SPRINTER** without tool set

Description:

Elegant black grained leather case with all-round zip fastener and red plastic lining. The set comprises 19 BERNSTEIN tools for service work. The BERNSTEIN Sprinter has a handy size for the pocket of the smock.

Outside dimensions: 205 x 120 x 50 mm (when closed)

Weight with tools: approx. 0.750 kg

Tool set:

No.	Description of individual tools
1-151	Adjusting screwdriver , blade 40 x 3 mm
1-305	Adjusting screwdriver , blade 80 x 2.4 mm with bronze insert 1.1 x 0.5 mm
1-307	Adjusting screwdriver , blade 80 x 2.4 mm, with bronze tip 2.0 x 0.5 mm
2-127	Tin knife with plastic handle, 115 mm
2-166	Contact-cleaner , made from glass fibre
2-265-1	Test prod , red, especially thin, pointed and flexible, blade made from 1 mm steel wire
2-265-2	Test prod , black, especially thin, pointed and flexible, blade made from 1 mm steel wire
2-275	Repair mirror , 21 mm Ø
3-127-2	"Slimline" side cutters , 115 mm, for soft wire up to 1.0 mm, extremely slim head, box joint, compression spring, chrome-plated, with transparent insulation
3-455-2	Micro snipe-nose pliers , 120 mm, extremely light and slim, box joint, chrome-plated, with transparent insulation

No.	Description of individual tools
4-141	Screwdriver , with special square pattern BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, with black tip, 75 x 3.5 mm
4-271	Cross-recess screwdriver , Supadriv/Pozidriv, size 0 with special square pattern BERNSTEIN handle, blade made from chrome vanadium, nickel-plated, with black tip
4-311	Screwdriver for headless screws , with plastic handle, blade made from chrome vanadium, nickel-plated, 80 x 2.8 mm
4-393	Watchmaker's screwdriver , with 5 interchangeable blades 1.5, 2.0, 2.5, cross-recess blades size 00 and 000
4-406	Screw holder , nickel-plated, blade 80 x 4 mm
5-049	Watchmaker's tweezers , 110 mm, stainless, sharply-pointed
5-107	Steel tweezers , with bent tips, 150 mm, nickel-plated
6-771	Adjustable wrench , jaw opening 0-12 mm, total length 100 mm
8-396	Gas-soldering-iron Portasol , 10 - 60 W, maximum temperature up to 450° C

ELECTRONICA 2000 SERVICE SET

The practical service case for the electronics engineer



2000 **BERNSTEIN** ELECTRONICA with tool set

2001 Case with zip fastener, without tools

Description:

Elegant case with zip fastener made from black imitation leather with pockets for tools and notes. The case, which contains 18 clearly arranged special tools, can also carry a soldering iron. In addition to writing materials, the writing case side has room in its 3 compartments for a writing block, leaflets and technical documents. There is also a transparent window for visiting cards or calendars and a pocket for small parts.

Outside dimensions: 330 x 235 x 50 mm (when closed)

Weight with tools: approx. 1.050 kg

Tool set:

No.	Description of individual tools	No.	Description of individual tools
1-303	Adjusting screwdriver , blade 155 x 2.8 mm, with bronze insert 2.5 x 0.5 mm	3-445-2	Micro flat nose pliers , 120 mm, box joint, extremely light and slim, chrome-plated, with transparent insulation
1-304	Adjusting screwdriver , blade 155 x 2.8 mm, with bronze insert 1.7 x 0.7 mm	3-455-2	Micro pointed pliers , 120 mm, snipe nose, box joint, extremely light and slim, chrome-plated, with transparent insulation
1-305	Adjusting screwdriver , blade 80 x 2.5 mm, with bronze insert 1.1 x 0.5 mm	4-141	Engineer's screwdriver with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, 75 x 3.5 mm, with black tip
1-971	Adjusting screwdriver , blade 80 x 2.0 mm, blade made from hard special plastic	4-301	Miniature screwdriver with plastic handle, blade nickel-plated, 40 x 1.8 mm
2-126	Desoldering bar , slotted at one end, nickel-plated, insulated, with plastic handle	4-311	Screwdriver for grub screws , with plastic handle, blade made from chrome vanadium, nickel-plated, 80 x 2.8 mm
2-127	Tin knife with pointed, sharp blade, high quality steel, for cutting circuit paths and for burring	5-006	Transistor tweezers , nickel-plated, with insulated jaws; for easy removal and insertion of plug-in transistors of various sizes, 140 mm
2-165	Contact cleaner , brush-shaped, with wire bristles	5-107	Steel tweezers with bent tips, 150 mm, nickel-plated
3-125-2	Micro side cutters , 110 mm, for soft wire up to 0.8 mm, slim, pointed head, box joint, compression spring, chrome-plated, with transparent insulation	5-115	Heat dissipating tweezers , made from steel, the flat, wide points of the tweezers are narrow and provided with copper jaws, for use when soldering transistors, gold-bonded diodes etc., 165 mm, nickel-plated
3-165-2	End cutters for electronics , 160 mm, with angular tip and cutting edge for soft wire up to 1.0 mm, box joint, chrome-plated, with transparent insulation		
3-435-2	Micro round nose pliers , 120 mm, box joint, extremely light and slim, chrome-plated, with transparent insulation		

LAPTOP 3200 ELECTRONIC SERVICE CASE

The professional combination of Laptop Bag and Tool Case



3200 **BERNSTEIN** Laptop with tool tray, with tool set

3215 **BERNSTEIN** Laptop with tool tray, without tool set

3255 **BERNSTEIN** Laptop without tool tray, without tool set

Description:

Elegant Laptop and Tool Case made from black nylon, with inside pad and reinforced frame. The bag is divided in 2 zip-fastener bags and has loops on both sides for attaching the shoulder strap.

The tray in the upper zip-fastener bag is prepared for the arrangement of a Laptop, together with the necessary accessories, e.g. connector cable, power supply and mouse. The lid of this bag is provided with several pockets for CDs, USB-sticks, writing utensils and documentations.

The design 3200 additionally is equipped with a tool tray accurately arranged with 28 special tools. This removable tray is fastened in the case as a swivel-tool-tray with hook-and-loop tape.

The bottom zip-fastener bag, with 3 partitions, is mainly provided for documents and literatures.

Outside dimensions: 480 x 380 x 140 mm (when closed)

Weight with tools: approx. 3.550 kg

Tool set:

No.	Description of individual tools
1-552	Adjusting screwdriver , 2 x 0.4 x 120 mm
2-126	Desoldering bar , slotted at one end, nickel-plated, insulated, with plastic handle
2-127	Tin knife with pointed, sharp blade, high quality steel, for cutting circuit paths and for burring
2-166	Glass fibre contact cleaner brush with rotary mechanism, plastic casing
2-265	2 Test prods , red and black, extremely slim, pointed and flexible, blade made from 1 mm steel wire
2-275	Repair mirror , 21 mm Ø, with handle, 180 mm long
2-601	IC tweezers , nickel-plated, 125 mm, for gripping, inserting and removing IC's
2-620	PLCC extractor for easy removal of plug-in PLCC's
3-109-2	Side cutters , 120 mm, with wide, rounded head, without side face, chrome-plated, with transparent insulation
3-127-2	Slimline side cutters , 115 mm, for soft wire up to 1 mm, extremely slim head, box joint, compression spring, chrome-plated, with transparent insulation
3-445-2	Micro flat nose pliers , 120 mm, extremely slim, box joint, chrome-plated, with transparent insulation
3-481-2	Snipe nose pliers , 120 mm, angular, box joint, compression spring, chrome-plated, with transparent insulation

No.	Description of individual tools
3-565	Water pump pliers , 130 mm, chrome-plated
4-142	Screwdriver to DIN 5265, with special square pattern BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, with black tip, 100 x 4 mm
4-406	Retaining screwdriver , 80 x 4 mm, vernickelt
4-901	Interchangeable screwdriver set
4-905	ESD handle with brass clamping sleeve
4-906	Hexagon blade widths 1.5 / 3.0 mm, matt chrome-plated, black tip
4-907	Hexagon blade as above, widths 2.0 / 3.5 mm
4-911	Hexagon blade as above, widths 2.5 / 4.0 mm
4-912	Hexagon blade as above, cross-recess PH 000 / PH 00
4-921	Hexagon blade as above, cross-recess PH 0 / PH 1
4-922 L	Hexagon blade as above, TORX T 5 / T 6
4-923 L	Hexagon blade as above, TORX T 7 / T 8, with bore hole
5-051	Hexagon blade as above, TORX T 9 / T 10, with bore hole
5-107	SMD-tweezers , 115 mm, straight, pointed, anti-magnetic, stainless, matt finish, acid-resisting
5-301	Steel tweezers with bent tips, 150 mm, nickel-plated
	Special scissors for cutting sheet-metal and wires, with serration, extremely slim, 110 mm, nickel-plated

PRAXIS 1750 ELECTRONIC SERVICE CASE

Flat tool case with special styling



1750 **BERNSTEIN** PRAXIS with tool set

1755 **BERNSTEIN** PRAXIS without tool set

Description:

Elegant briefcase in impact-resistant, double-walled grained black plastic. The tools are clearly arranged in 2 pivoting tool trays. A document compartment is provided on the back of one tool tray. The bottom of the case has a deep-drawn tray, 30 mm high, with dividers of differing sizes. The case has 2 locks.

Outside dimensions: 435 x 325 x 85 mm

Weight without tools: approx. 3.000 kg

Weight with tools: approx. 4.200 kg

Tool set:

No.	Description of individual tools
1-151	Adjusting screwdriver , blade 40 x 3 mm
2-126	Desoldering lever , slotted at one end, with plastic handle
2-132	Spring hook , nickel-plated and insulated, 175 mm
2-265	2 Test prods , red and black, extremely slim, pointed and flexible, blade made from 1 mm steel wire
3-127-2	Slimline side cutters , 115 mm, for soft wire up to 1 mm, extremely slim head, box joint, compression spring, chrome-plated, with transparent insulation
3-131-1	Side cutters , 120 mm, for hard wire up to 0.8 mm, for soft wire up to 1.5 mm, chrome-plated, with BERNSTEINIT insulation
3-445-2	Micro flat-nose pliers , 120 mm, box joint, chrome-plated, with transparent insulation
3-455-2	Micro snipe-nose pliers , 120 mm, oval-pointed design, box joint, chrome-plated, with transparent insulation
3-565	Miniature water-pump pliers , 120 mm, chrome-plated
4-141	Screwdriver to DIN 5265, with special square pattern BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, with black tip, 75 x 3.5 mm
4-142	Screwdriver as above, blade 100 x 4 mm
4-143	Screwdriver as above, blade 125 x 5.5 mm
4-271	Cross-recess screwdriver , Supadriv/Pozidriv, size 0, with special square pattern BERNSTEIN handle, blade made from chrome vanadium, nickel-plated, with black tip
4-272	Cross-recess screwdriver , Supadriv/Pozidriv, as above, size 1
4-301	Miniature screwdriver , with plastic handle, blade nickel-plated, 40 x 1.8 mm
4-311	Screwdriver for headless screws , with plastic handle, blade made from chrome vanadium, nickel-plated, 80 x 2.8 mm

To complete the set we recommend:

9-325	Plastic box with hinged lid and adjustable compartments, 200 x 130 x 30 mm
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No.	Description of individual tools
4-343 VDE	Voltage tester , blade 60 x 3 mm
4-351	Offset screwdriver , chrome vanadium, nickel-plated, 100 x 5 mm
4-366	Cross-recess watchmaker's screwdriver , size 00
4-391	Watchmaker's screwdriver , nickel-plated, with 4 interchangeable blades, 1.5, 2.0, 2.5, 3.0 mm
4-407	Screw holder , 110 x 4 mm
4-775	Plastic handle , 6 mm, for socket-spanner
5-006	Component tweezers , nickel-plated, with insulated jaws, for easy insertion and removal of plug-in transistors of various sizes
5-107	Engineer's tweezers , made from steel, with bent tips, 150 mm, nickel-plated
5-115	Heat dissipating tweezers , 165 mm, nickel-plated, for use when soldering transistors, gold-bonded diodes etc.
5-117	Engineer's tweezers , made from steel, straight-flat-wide, 145 mm, nickel-plated
5-201/6	Needle files , set of 6 pieces
5-301	Special scissors for cutting sheet-metal and wires, with serration, extremely slim, 110 mm, nickel-plated
5-501	Cable knife
6-202	Socket spanner , without handle, 5.5 mm, made from chrome vanadium, nickel-plated
6-204	Socket spanner as above, 7.0 mm
6-820	Set of allen hex sockets , 8 pieces, in plastic wallet, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 5.5, 6.0 mm
7-425	Dust brush
7-505	Roller tape measure , 1 m

HANDY 1500 ELECTRONIC SERVICE CASE

The small and very handy service case with big space inside



1500 **BERNSTEIN** HANDY with tool set

1515 **BERNSTEIN** HANDY without tool set

Description:

Case-body made from deep-drawn, impact-resistant, grained black plastic shells, pressed on a stable alu-frame, dustproof and rainproof, acid- and scratch-resistant. It has loops at the sides for attaching a shoulder strap.

Fixed by stretch-ribbons, 41 special tools are clearly arranged on two swivel-tool-trays. A special pocket in the case-lid offers a lot of space for documents, pencils etc.. The bottom contains a stable plastic insert of 75 mm depth for spare parts, measuring instruments and soldering irons. 4 adjustable partitions allow a flexible division. For security purposes the case is equipped with 2 key-locks.

Outside dimensions: 340 x 360 x 180 mm

Weight without tools: approx. 3.300 kg

Weight with tools: approx. 4.300 kg

Tool set:

No.	Description of individual tools
1-152	Adjusting screwdriver , blade 40 x 4 mm
2-126	Desoldering lever , slotted at one end, with plastic handle
2-127	Tin knife , with plastic handle, 115 mm
2-132	Spring hook , nickel-plated and insulated, 175 mm
2-166	Contact cleaner , made from glass fibre
2-265	2 Test prods , red and black, extremely slim, pointed and flexible, blade made from 1 mm steel wire
2-275	Repair mirror , 21 mm Ø
2-601	IC tweezers , nickel-plated, 125 mm, for gripping, inserting and removing IC's
2-620	PLCC extractor , for easy removal of plug-in PLCC's
3-127-2	„Slimline“ side cutters , 115 mm, for soft wire up to 1.0 mm, extremely slim head, box joint, compression spring, chrome-plated, with transparent insulation
3-131-1	Side cutters , 120 mm, chrome-plated, for hard wire up to 0.8 mm, for soft wire up to 1.5 mm, with BERNSTEINIT insulation
3-445-2	Micro flat nose pliers , 120 mm, extremely slim, box joint, chrome-plated, with transparent insulation
3-481-2	Snipe nose pliers , 120 mm, angular, box joint, compression spring, chrome-plated, with transparent insulation
4-142	Screwdriver , with special square pattern BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, with black tip, 100 x 4 mm
4-271	Cross-recess screwdriver , Supadriv/Pozidriv, size 0, with special square pattern BERNSTEIN handle, blade made from chrome vanadium, nickel-plated, with black tip
4-272	Cross-recess screwdriver , Supadriv/Pozidriv, size 1, with special square pattern BERNSTEIN handle, blade made from chrome vanadium, nickel-plated, with black tip

No.	Description of individual tools
4-301	Miniature screwdriver , with plastic handle, blade nickel-plated 40 x 1.8 mm
4-311	Screwdriver for headless screws , with plastic handle, blade made from chrome vanadium, nickel-plated, 80 x 2.8 mm
4-343 VDE	Voltage tester , blade 60 x 3 mm
4-366	Cross-recess watchmaker's screwdriver , size 00
4-391	Watchmaker's screwdriver , nickel-plated, with 4 interchangeable blades, 1.5, 2.0, 2.5 and 3.0 mm
4-407	Retaining screwdriver , 110 x 4 mm
4-775	Plastic handle , 6 mm, for socket wrenches
5-006	Component tweezers , nickel-plated, with insulated jaws, for easy insertion and removal of plug-in transistors of various sizes
5-107	Engineer's tweezers made from steel, with bent tips, 150 mm, nickel-plated
5-181	Wire scraper , for wires 0.6 mm Ø, interchangeable cutter
5-301	Special scissors , for cutting sheet-metal and wires, with serrations, extremely slim, 110 mm, nickel-plated
5-515	Universal blade knife , with adjustable blade
6-202	Socket wrench , C.V. nickel-plated, 5.5 mm A/F, without handle
6-204	Socket wrench , C.V. nickel-plated, 7.0 mm A/F, without handle
6-771	Adjustable wrench , jaws opening 0 - 12 mm, total length 100 mm
6-820	Set of wrench keys , 8 pieces, in plastic wallet, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 5.5 and 6.0 mm
7-425	Dust brush

ELECTRONIC SERVICE CASE DATA

The handy tool case for quick service in data systems engineering



6300 **BERNSTEIN DATA** with tool set

6315 **BERNSTEIN DATA** without tool set

Description:

Case made from deep-drawn, grained plastic, with a black aluminium frame, rainproof, impact-, acid- and scratch-resistant. The 34 tools are placed at hand on a pivoting tool tray. The lid of the case has a pocket for documents. In the bottom is a plastic-tray with adjustable partitions for measuring instruments, soldering tools and components to the height of 60 mm. The case has 2 locks.

Outside dimensions: 460 x 310 x 120 mm

Weight without tools: approx. 3.800 kg

Weight with tools: approx. 4.700 kg

Tool set:

No.	Description of individual tools
1-909	Engineer's mirror , with handle, made entirely from BERNSTEINIT
2-127	Tin knife , with plastic handle, 115 mm
2-132	Spring hook , nickel-plated and insulated, 175 mm
2-166	Contact cleaner , made from glass fibre, 115 mm
2-265-1	Test prod , black, especially thin, pointed and flexible, blade made from 1 mm steel wire, 155 mm
2-265-2	Test prod , black, especially thin, pointed and flexible, blade made from 1 mm steel wire, 155 mm
2-291	Plastic magnifying glass
2-601	IC tweezers , nickel-plated, 125 mm, for gripping, inserting and removing IC's
3-127-2	"Slimline" side cutters , 115 mm, for soft wire up to 1.0 mm, extremely slim head, box joint, compression spring, chrome-plated, with transparent insulation
3-131-1	Side cutters , 120 mm, chrome-plated, for hard wire up to 0.8 mm, for soft wire up to 1.5 mm, with BERNSTEINIT insulation
3-455-2	Micro pointed pliers , 120 mm, extremely light and slim, box joint, chrome-plated, with transparent insulation
4-141	Screwdriver to DIN 5265, with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, with black tip, 75 x 3.5 mm
4-271	Cross-recess screwdriver , Supadriv/Pozidriv, size 0 with special square pattern BERNSTEIN handle, blade made from chrome vanadium, nickel-plated, with black tip
4-272	Cross-recess screwdriver , Supadriv/Pozidriv, size 1, with special square pattern BERNSTEIN handle, blade made from chrome vanadium, nickel-plated, with black tip
4-311	Screwdriver for headless screws , with plastic handle, blade made from chrome vanadium, nickel-plated, 80 x 2.8 mm

No.	Description of individual tools
4-343 VDE	Voltage tester , blade 60 x 3 mm
4-366	Cross-recess watchmaker's screwdriver , size 00
4-391	Watchmaker's screwdriver , nickel-plated, with 4 interchangeable blades, 1.5, 2.0, 2.5, 3.0 mm
14-603 VDE	Screwdriver , with VDE safety insulation, blade made from chrome vanadium, 100 x 4.0 mm
5-107	Engineer's tweezers , made from steel, with bent tips, 150 mm, nickel-plated
5-117	Engineer's tweezers , made from steel, straight-flat-wide, 145 mm, nickel-plated
5-121	Engineer's tweezers , made from steel, straight, with narrow pointed tips, 120 mm, nickel-plated
5-301	Special scissors for cutting sheet-metal and wires, with serration, extremely slim, 110 mm, nickel-plated
6-771	Adjustable wrench , jaw opening 0-12 mm, total length 100 mm
6-820	Set of allen hex sockets , 8 pieces, in plastic wallet, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 5.5, 6.0, mm
7-505	Roller tape measure , 1 m
7-512	Miniature caliper square , stainless, measuring range 75 mm

To complete the set we recommend:

9-325	Plastic box with hinged lid and adjustable compartments, 200 x 130 x 30 mm
8-390	Desoldering pump , length 195 mm, 20 mm Ø
8-135	ERSA "Multitip" soldering iron , 15 W, 220 V

ELECTRONIC SERVICE—CASE SECURITY 6750

A case with the basic equipment of special tools for the installation and maintenance of complex protective devices and alarm systems



6750 **BERNSTEIN SECURITY** with tool set

6755 **BERNSTEIN SECURITY** without tool set

Description:

Case made from deep-drawn, impact-resistant, grained black plastic, with sturdy aluminium frame, dustproof and rainproof, acid- and scratch-resistant. 64 tools are clearly arranged on two removable tool trays, one of it on both sides, and in the bottom tray with adjustable partitions. Further tools or accessories can be lodged in the tray until 60 mm height. The basic equipment for special operations at protective devices and alarm systems may efficiently be completed by special tools additionally recommended. The case has 2 locks.

Outside dimensions: 470 x 340 x 170 mm

Weight without tools: ca. 4.600 kg

Weight with tools: ca. 8.400 kg

Tool set:

No.	Description of individual tools
2-265	2 Test prods , red and black, extremely slim, pointed and flexible, blade made from 1 mm steel wire
2-701	Insertion tool with sensor for connecting the wires and simultaneously cutting of the residual wire
2-705	Contactless voltage detector VOLTtester
3-112-2	Side cutters , 120 mm, for soft wire up to 1.0 mm Ø; with rounded head, without side face, double leaf spring, chrome-plated, with dip insulation
3-0611	Crimping pliers , for BNC- and TNC-coaxial connectors
13-906 VDE	VDE Side cutters , 160 mm, for steel wire up to 1.6 mm Ø; chrome-plated, VDE safety insulation
13-915 VDE	Telephone pliers , 160 mm, chrome-plated, VDE safety insulation
13-927 VDE	Flat nose pliers , 160 mm, with long jaws, chrome-plated, VDE safety insulation
13-936 VDE	Combination pliers , 160 mm, chrome-plated, VDE safety insulation
4-431	Retaining screwdriver , for inserting and tightening slotted screws, blade made for CV, burnished, insulated, blade 100 x 3.0 mm
4-437	Retaining screwdriver , for inserting and tightening cross-recess screws size 1, blade made for CV, burnished, insulated
14-651 VDE	Screwdriver , with VDE insulation, blade 75 x 2.5 mm
14-652 VDE	Screwdriver , with VDE insulation, blade 100 x 3.5 mm
14-653 VDE	Screwdriver , with VDE insulation, blade 100 x 4.0 mm
14-681 VDE	Cross-recess screwdriver , size 0, VDE, blade length 60 mm
14-682 VDE	Cross-recess screwdriver , size 1, VDE, blade length 80 mm
14-683 VDE	Cross-recess screwdriver , size 2, VDE, blade length 100 mm
14-684 VDE	Cross-recess screwdriver , size 3, VDE, blade length 150 mm
5-505	Insulation stripping tool , with hook blade, for cable Ø 4 - 28 mm
5-515	Universal blade knife
5-531	Automatic wire stripper Super , for all common stranded and solid conductors of 0.2 - 6.0 mm ² , adjustable length stop of 5 - 12 mm, built-in side cutters for max. Ø 2 mm

No.	Description of individual tools
5-535	Coax cable stripper for Coax cable Ø 4.8 - 7.5 mm
6-103	Socket wrench , with special BERNSTEIN square handle, blade made from CV, chrome-plated, SW 4.5 mm
6-104	Socket wrench , as above, AF 5.0 mm
6-105	Socket wrench , as above, AF 5.5 mm
6-600	Combination ring- and open-ended wrench , 7-piece set, CV, chrome-plated, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 13.0 mm
6-880	Hexagon wrench keys , 8-piece set in a wallet, 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"
6-950	Ballpoint wrench keys , hexagon, 8-piece set in a wallet, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0 mm
6-995	TORX screwdrivers with bore-hole in the tip , 8-piece set in a box, T 9, T 10, T 15, T 20, T 25, T 27, T 30, T 40
7-116	Engineer's hammer to DIN 1041, 300 g
7-425	Dust brush
7-506	Roller tape measure , 2 m
7-535	Spirit level , 225 mm long
7-616	Pocket hack saw PUK , with adjustable handle in a wallet
8-375	ERSA gas soldering iron , Independent 75
8-385	ERSA desoldering pump OVAC X

To complete the set we recommend:

2270	Service Set ACCENT , 9-piece set with ESD tools
4-222	Screwdriver , blade 260 x 3.0 mm
4-227	Cross-recess screwdriver , size 1, blade length 300 mm
4-228	Cross-recess screwdriver , size 2, blade length 300 mm
4-920	Interchangeable screwdriver set with ESD-handle, 9-piece, Slot 1.5/3.0 mm, 2.0/3.5 mm und 2.5/4.0 mm, KS Gr. 000/00, 0/1, TORX T 5/T 6, T 7L/T 8L, T 9L/T 10L, ("L" with bore hole)

PC-CONTACT ELECTRONIC SERVICE CASE

The clearly arranged tool case for the prompt and efficient servicing of computers

6100 **BERNSTEIN** PC-CONTACT with tool set

6115 **BERNSTEIN** PC-CONTACT without tool set

Description:

Elegant, hard-wearing case made from deep-drawn, impact-resistant, grained dark brown plastic with a continuous bronze anodised aluminium frame, dustproof and rainproof, acid-resistant, scratch-resistant and non-slip.

65 tools are clearly arranged in pockets on one swiveling and one removable tray. The back of the panel has elastic loops to take documents, pcb's, cd's, etc. The lid of the case is padded with foam rubber. The split plastic tray in the bottom of the case, which is intended to take spare parts, measuring instruments and soldering equipment, is 60 mm high.

The case has a lock strip with 2 locks and is centrally lockable. It has loops at the sides for attaching a carrying strap.

Outside dimensions: 460 x 350 x 170 mm

Weight without tools: approx. 3.700 kg

Weight with tools: approx. 5.400 kg

Tool set:

No.	Description of individual tools	No.	Description of individual tools
2-127	Tin knife , with plastic handle, 115 mm	4-272	Cross-recess screwdriver , Supadriv/Pozidriv as above, size 1
2-132	Spring hook , nickel-plated and insulated, 175 mm	4-281	Electronics cross-recess screwdriver with special black handle and swivel top, size 000, blade chrome vanadium, chrome-plated, with black tip
2-161	Magnetic bar with double ball- and socket joint, slewable, 215 mm	4-282	Electronics cross-recess screwdriver as above, size 00
2-166	Contact cleaner , made from glass fibre, 115 mm	4-283	Electronics cross-recess screwdriver as above, size 0
2-265	2 Test prods , red and black, extremely slim, pointed and flexible, blade made from 1 mm steel wire, 155 mm	4-284	Electronics cross-recess screwdriver as above, size 1
2-275	Repair mirror , 21 mm Ø, with handle, 180 mm long	4-331	Assembly screwdriver with plastic handle, nickel-plated blade, 45 x 6 mm, with special square pattern BERNSTEIN handle
2-601	IC tweezers , nickel-plated, 125 mm, for gripping, inserting and removing IC's	4-343 VDE	Voltage tester , blade 60 x 3 mm
2-620	PLCC extractor for easy removal of plug-in PLCC's	4-407	Retaining screwdriver , 110 x 4 mm
3-901-12	Side cutters , 120 mm, for hard wire up to 0.4 mm, for soft wire up to 1.0 mm, burnished, with orange insulation	5-107	Engineer's tweezers , made from steel, with bent tips, 150 mm
3-906-12	End cutters , 120 mm, for soft wire up to 0.8 mm, burnished, with orange insulation	5-117	Engineer's tweezers , straight-flat-wide, 145 mm, nickel-plated
3-932-12	Flat nose pliers , 120 mm, burnished, with orange insulation	5-210	Needle files , 6-piece set
3-933-12	Snipe nose pliers , 120 mm, burnished, with orange insulation	5-305	Combination scissors , stainless, serrated, compression spring, plastic handles, 140 mm
3-945-12	Snipe nose pliers , 145 mm, angular long jaws, burnished with orange insulation	6-200	Socket spanner set , 8 pieces, in plastic case, 1 plastic handle, 7 socket spanners 4.0, 5.5, 6.0, 7.0, 8.0, 9.0 and 10.0 mm
4-141	Screwdriver , with special square pattern BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, with black tip, 75 x 3.5 mm	6-750	Special open-end wrenches , 6-piece set, nickel-plated, 3 x 3.5, 4 x 4.5, 5 x 5.5, 6 x 6.5, 7 x 8, 9 x 10 mm, material thickness 1.5 resp. 2.0 mm
4-142	Screwdriver as above, blade 100 x 4 mm	6-771	Adjustable wrench , jaw opening 0 - 12 mm, total length 100 mm
4-161	Electronics screwdriver with special handle and swivel top, blade chrome vanadium, chrome-plated, with black tip, blade 40 x 1.0 mm	6-880	Set of wrench keys , 8 pieces in plastic case, 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"
4-162	Electronics screwdriver as above, blade 40 x 1.5 mm	6-964 L	TORX screwdriver with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, black tip, size T 9 with hole
4-163	Electronics screwdriver as above, blade 40 x 2.0 mm	6-965 L	TORX screwdriver as above, size T 10 with hole
4-165	Electronics screwdriver as above, blade 50 x 3.0 mm	6-966 L	TORX screwdriver as above, size T 15 with hole
4-271	Cross-recess screwdriver , Supadriv/Pozidriv, Size 0, with special square pattern BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, with black tip	7-425	Dust brush

To complete the set we recommend:

8-135	ERSA "Multitip" soldering iron , 15 W, 220 V
8-390	Desoldering pump , length 195 mm, 20 mm Ø
9-325	Plastic box , with hinged lid and adjustable compartments, 200 x 130 x 30 mm

PC-CONTACT 6100 ELECTRONIC SERVICE CASE

Elegant, modern tool case for the most exacting standards



The service case

for the computer technology
with the current tool assortment

TECHNIK ELECTRONIC SERVICE CASE

Service case with a comprehensive tool kit for data systems engineering

6400 **BERNSTEIN** **TECHNIK** with tool set

6415 **BERNSTEIN** **TECHNIK** without tool set

6400 Z **BERNSTEIN** **TECHNIK** with central safety code and tool set

6415 Z **BERNSTEIN** **TECHNIK** with central safety code without tool set

Description:

Case made from deep-drawn, impact-resistant, grained plastic, with a sturdy aluminium frame, dustproof and rainproof, acid- and scratch-resistant. Three removable plastic tray, 60 mm high, with adjustable partitions for measuring instruments, soldering iron and various accessories. The case has 2 locks.

Outside dimensions: 470 x 360 x 180 mm

Weight without tools: approx. 4.700 kg

Weight with tools: approx. 7.600 kg

Tool set:

No.	Description of individual tools	No.	Description of individual tools
1-909	Engineer's mirror , with handle, made entirely from BERNSTEINIT	14-654 VDE	Screwdriver , as above, blade 125 x 5.5 mm
2-126	Desoldering lever , slotted at one end, with plastic handle	14-691 VDE	Cross-recess screwdriver , Pozidriv, size 0, with VDE safety insulation, blade chrome vanadium, 60 mm long
2-127	Tin knife , with plastic handle, 115 mm	14-692 VDE	Cross-recess screwdriver , Pozidriv, as above, size 1, 80 mm long
2-128	Tin scraper , with plastic handle, 115 mm	5-006	Component tweezers , nickel-plated, with insulated jaws, for easy insertion and removal of plug-in transistors of various sizes
2-132	Spring hook , nickel-plated and insulated, 175 mm	5-049	Watchmaker's tweezers , 110 mm, stainless, sharply-pointed
2-145	Screwdriver with guide sleeve for slotted axles up to 3.2 mm Ø	5-107	Engineer's tweezers , made from steel, with bent tips, 150 mm, nickel-plated
2-161	Magnetic bar with double ball- and socket joint, slewable, 215 mm	5-115	Heat dissipating tweezers , 165 mm, nickel-plated, for use when soldering transistors, gold-bonded diodes etc.
2-265	2 Test prods , red and black, extremely slim, pointed and flexible, blade made from 1 mm steel wire	5-117	Engineer's tweezers , straight-flat-wide, 145 mm, nickel-plated
2-601	IC tweezers , nickel-plated, 125 mm, for gripping, inserting and removing IC's	5-161	Clamping scissors , 130 mm, stainless
3-127-2	"Slimline" side cutters , 115 mm, for soft wire only up to 1.0 mm, extremely slim head, box joint, compression spring, chrome-plated, with transparent insulation	5-181	Wire scraper , for wires 0.6 mm Ø, interchangeable cutters
3-131-1	Side cutters , 120 mm, chrome-plated, for hard wire up to 0.8 mm, for soft wire up to 1.5 mm, with BERNSTEINIT insulation	5-210	Needle files , 6-piece set
3-461-2	Round nose pliers , 130 mm, slim, box joint, compression spring, chrome-plated, with transparent insulation	5-301	Special scissors for cutting sheet-metal and wires, with serration, extremely slim, 110 mm, nickel-plated
3-462-2	Flat nose pliers , 130 mm, slim, box joint, compression spring, chrome-plated, with transparent insulation	5-501	Cable knife
3-481-2	Snipe nose pliers , 120 mm, angular, box joint, compression spring, chrome-plated, with transparent insulation	6-200	Socket spanner set , chrome vanadium, nickel-plated, 1 plastic handle, 7 socket spanners, 4.0, 5.5, 6.0, 7.0, 8.0, 9.0, 10.0 mm
3-565	Miniature water pump pliers , 130 mm, chrome-plated	6-750	Special open-end wrenches , 6-piece set, nickel-plated, material thickness 1.5 or 2 mm, 3 x 3.5, 4 x 4.5, 5 x 5.5, 6 x 6.5, 7 x 8, 9 x 10 mm
3-732-1	Combination pliers , 160 mm, chrome-plated, with BERNSTEINIT insulation	6-820	Set of allen hex sockets , 8 pieces, in plastic wallet, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 5.5, 6.0, mm
3-761-10	Special assembly pliers for clamping rings, 1.5 mm – 2.8 mm, 140 mm, burnished, with adjusting screw	6-860	Electronic socket spanner set , in transparent box, 6 pieces, 3.0, 3.5, 4.0, 4.5, 5.0 mm
3-835-2	Wire strippers , 165 mm, narrow and slim, with adjusting screw and compression spring, chrome-plated, with transparent insulation	7-425	Dust brush
4-261	Cross-recess screwdriver , size 01, with plastic handle, blade made from chrome vanadium, nickel-plated, 25 mm long	7-428	Duster
4-301	Miniature screwdriver , with plastic handle, blade nickel-plated, 40 x 1.8 mm	7-435	Plastic-oiler , with screwcap made from brass
4-311	Screwdriver for headless screws , with plastic handle, blade made from chrome vanadium, nickel-plated, 80 x 2.8 mm	7-508	Steel tape measure , 30 cm, stainless
4-321	Chubby screwdriver , with plastik handle, blade made from chrome vanadium, nickel-plated, 25 x 4.0 mm	7-511	Digital caliper square , stainless, measuring range 150 mm, LCD-display mm/inches, depth-gauge, cross-points, in a wallet
4-343 VDE	Voltage tester , insulated blade, made from chrome vanadium, 60 x 3 mm	7-616	Pocket saw , in a wallet
4-351	Offset screwdriver , chrome vanadium, nickel-plated, 100 x 5 mm		
4-366	Cross-recess watchmaker's screwdriver , size 00		
4-391	Watchmaker's screwdriver , nickel-plated, with 4 interchangeable blades, 1.5, 2.0, 2.5, 3.0 mm		
4-407	Retaining screwdriver , 110 x 4 mm		
14-651 VDE	Screwdriver , with VDE safety insulation, blade made from chrome vanadium, 75 x 2.5 mm		
14-653 VDE	Screwdriver , as above, blade 100 x 4.0 mm		

To complete the set we recommend:

- 9-325 **Plastic box** with hinged lid and adjustable compartments, 200 x 130 x 30 mm
- 8-390 **Desoldering pump**, length 195 mm, 20 mm Ø
- 8-135 **ERSA "Multitip" soldering iron**, 15 W, 220 V

TECHNIK 6400 ELECTRONIC SERVICE CASE

A toolcase as a bordcase for the travelling engineer



The service case

- for the computer technology
- with special tool assortment
- for the professional



Service case **Technik 6400 Z**
with central safety code



BOSS ELECTRONIC SERVICE CASE

The actual multi-purpose tool case with the vast assortment

6500 **BERNSTEIN** BOSS with tool set

6515 **BERNSTEIN** BOSS without tool set

Description:

Body of case made from deep-drawn, impact-resistant, grained black plastic, with a sturdy aluminium frame, dustproof and rainproof, acid- and scratch-resistant.

The 106-piece tool set comprises all required conventional and special tools for the servicing of electronic equipment, also for difficult repairs.

The tools are clearly arranged in partitions on tool trays which are removable and folding and the swiveling parts are securable:

A variable tool chest in case-size!

A stable plastic tray, 90 mm high, with 6 partition walls for a variable arrangement of the divisions offers a lot of space to carry spare parts, measuring instruments and soldering irons. The lid of the case has a pocket for documents. The case has 2 locks.

Outside dimensions: 490 x 410 x 190 mm

Weight without tools: approx. 6.500 kg

Weight with tools: approx. 10.600 kg

Tool set:

No.	Description of individual tools	No.	Description of individual tools
1-151	Adjusting screwdriver , blade 40 x 3 mm	4-343 VDE	Voltage tester , blade 60 x 3 mm
1-153	Adjusting screwdriver , blade 130 x 2 mm	4-351	Offset screwdriver , chrome vanadium, nickel-plated, 100 x 5 mm
1-155	Adjusting screwdriver , blade 130 x 3.5 mm	4-391	Watchmaker's screwdriver , nickel-plated, with 4 interchangeable blades, 1.5, 2.0, 2.5, 3.0 mm
1-909	Engineer's mirror , with handle, made entirely from BERNSTEINIT	4-407	Retaining screwdriver , 110 x 4 mm
2-126	Desoldering lever , slotted at one end, with plastic handle	5-006	Component tweezers , nickel-plated, with insulated jaws, for easy insertion and removal of plug-in transistors of various sizes
2-127	Tin knife with plastic handle, 115 mm	5-049	Watchmaker's tweezers , 110 mm, stainless, sharply-pointed
2-128	Tin scraper with plastic handle, 115 mm	5-107	Engineer's tweezers made from steel, with bent tips, 150 mm, nickel-plated
2-132	Spring hook , nickel-plated and insulated, 175 mm	5-107-6	Engineer's tweezers , as above, strong PVC-insulated
2-152	Tool holder , nickel-plated brass, with collets at both ends for holding tools from 0 to 3 mm Ø	5-115	Heat dissipating tweezers , 165 mm, nickel-plated, for use when soldering transistors, gold-bonded diodes etc.
2-155	Claw-type gripper , nickel-plated, with 3 wire claws, opening max. 12 mm, with clip	5-117	Engineer's tweezers , straight-flat-wide, 145 mm, nickel-plated
2-161	Magnetic bar with double ball- and socket joint, slewable, 215 mm	5-161	Clamping scissors , 130 mm, stainless
2-166	Contact cleaner , made from glass fibre	5-181	Wire scraper , for wires 0.6 mm Ø, interchangeable cutter
2-265	2 Test prods , red and black, extremely slim, pointed and flexible, blade made from 1 mm steel wire	5-191	ESD tweezers , 120 mm, conductive, with straight, rounded tips
2-295	Hand magnifier with light	5-194	ESD tweezers , 120 mm, conductive, with bent, pointed tips
2-601	IC tweezers , nickel-plated, 125 mm, for gripping, inserting and removing IC's	5-210	Needle files , 6-piece set
2-620	PLCC extractor , for easy removal of plug-in PLCC'S	5-301	Special scissors , for cutting sheet-metal and wires, with serration, extremely slim, 110 mm, nickel-plated
3-127-2	"Slimline" side cutters , 115 mm, for soft wire up to 1.0 mm, extremely slim head, box joint, compression spring, chrome-plated, with transparent insulation	5-305	Combination scissors , stainless, serrated, compression spring, plastic handles, 140 mm
3-132-1	Side cutters , 130 mm, for hard wire, chrome-plated, with BERNSTEINIT-insulation	5-501	Electrician knife
3-235-1	Telephone pliers with wire cutters, 160 mm, chrome-plated with BERNSTEINIT-insulation	6-200	Socket spanner set , chrome vanadium, nickel-plated, 8-piece set, 1 plastic handle, 7 socket spanners, 4.0, 5.5, 6.0, 7.0, 8.0, 9.0, 10.0 mm
3-462-2	Flat nose pliers , 130 mm, slim, box joint, compression spring, chrome-plated, with transparent insulation	6-750	Special open-end wrench , 6-piece set, nickel-plated, 3 x 3.5, 4 x 4.5, 5 x 5.5, 6 x 6.5, 7 x 8, 9 x 10 mm, material thickness 1.5 or 2.0 mm,
3-463-2	Snipe nose pliers , 130 mm, slim, box joint, compression spring, chrome-plated, with transparent insulation	6-771	Adjustable wrench , jaw opening 0 - 12 mm, total length 100 mm
3-482-2	Snipe nose pliers , 140 mm, angular, slim, box joint, compression spring, chrome-plated, with transparent insulation	6-830	Set of wrench keys , 11 pieces in plastic case, 1 handle, 10 wrench keys 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 4.0, 4.5, 5.0 and 6.0 mm
3-565	Water pump pliers , 130 mm, chrome-plated	6-880	Set of wrench keys , 8 pieces in plastic wallet, 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"
3-732-1	Combination pliers , 165 mm, chrome-plated, with BERNSTEINIT-insulation	6-964 L	TORX screwdriver , with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, black tip, size T 9 with hole
3-761-10	Special assembly pliers for clamping rings, 1.5 mm - 2.8 mm, 140 mm, burnished, with adjusting screw	6-965 L	TORX screwdriver as above, size T 10 with bore-hole
3-815-1	Wire strippers , 155 mm, chrome-plated, with BERNSTEINIT-insulation	6-966 L	TORX screwdriver as above, size T 15 with bore-hole
3-871-6	Pressing pliers for multicore cable and for sleeves from 0.25 - 2.5 mm ²	7-425	Dust brush
3-0856	Crimp tool for insulated and uninsulated terminals, 230 mm	7-428	Duster
4-142	Screwdriver to DIN 5265, special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, with black tip, 100 x 4.0 mm	7-438	Drip oiler for dropet oiling
4-143	Screwdriver as above, blade 125 x 5.5 mm	7-506	Roller tape measure 2 m
4-161	Electronics screwdriver with special handle and swivel top, blade chrome vanadium, chrome-plated, with black tip, blade 40 x 1.0 mm	7-508	Steel measure , 30 mm, stainless
4-162	Electronics screwdriver as above, blade 40 x 1.5 mm	7-511	Digital caliper square , stainless, measuring range 150 mm, LCD-display mm/inches, depth-gauge, cross-points, in a wallet
4-164	Electronics screwdriver as above, blade 50 x 2.5 mm	7-616	Pocket hack saw "Puk" with adjustable wooden handle, in a wallet
4-165	Electronics screwdriver as above, blade 50 x 3.0 mm		
4-272	Crosspoint-screwdriver , Pozidriv, size 1, with special square pattern BERNSTEIN handle, blade made from chrome vanadium, nickel-plated, with black tip		
4-281	Electronics cross-recess screwdriver with special grey handle and swivel top, blade chrome vanadium, chrome-plated, with black tip, 40 x 2.0 mm, size 000		
4-282	Electronics cross-recess screwdriver as above size 00		
4-283	Electronics cross-recess screwdriver as above, blade 50 x 3.0 mm, size 0		

To complete the set we recommend:

- 8-135 **ERSA "Multitip" soldering iron**, 15 W/230 V
- 8-390 **Desoldering pump**, length 195 mm, 20 mm Ø
- 9-325 **Plastic box**, with hinged lid and adjustable compartments, 200 x 130 x 30 mm

BOSS 6500 ELECTRONIC SERVICE CASE

A variable tool chest in case size



TELECOM ELECTRONIC SERVICE CASE

The actual case with special tools and testing instruments for the installation and maintenance of complex telecommunication systems

6600 **BERNSTEIN TELECOM** with tool set

6615 **BERNSTEIN TELECOM** without tool set

Description:

Case made from deep-drawn, impact-resistant, grained black plastic, with a sturdy aluminium frame, dustproof and rainproof, acid- and scratch-resistant. With 116 tools the case contains a complete equipment of tools especially for the electrical and electronical connecting and maintenance operations at distribution boards in the telecommunication technique.

The tools are clearly arranged in the case on 3 removable tool trays and in a stable plastic tray in the bottom of the case that grants by adjustable partitions additional place for further instruments.

The case has 2 locks.

Outside dimensions: 490 x 410 x 190 mm

Weight without tools: approx. 5.800 kg

Weight with tools: approx. 12.900 kg

Tool set

No.	Description of individual tools	No.	Description of individual tools
2-265	2 test prods , red and black, extremely slim, pointed and flexible, blade made from 1 mm steel wire	14-651 VDE	Screwdriver , with VDE-insulation, blade 75 x 2.5 mm
2-275	Repair mirror , stainless, magnifying, concave mirror 21 mm Ø, with BERNSTEINIT handle	14-652 VDE	Screwdriver , with VDE-insulation, blade 100 x 3.5 mm
2-601	IC-tweezers , nickel-plated, 125 mm, for gripping, inserting and removing IC's	14-682 VDE	Cross-recess screwdriver , size 1, with VDE-insulation, blade length 80 mm
2-620	PLCC-extractor	14-683 VDE	Cross-recess screwdriver , size 2, with VDE-insulation, blade length 100 mm
2-655	Pocket inspection lamp , watertight, with pre-focused reflector	5-107	Engineer's tweezers , made from steel, with bent tips, 150 mm, nickel-plated
2-701	Insertion tool with sensor , for connecting the wires and simultaneously cutting off the residual wire	5-117	Engineer's tweezers , made from steel, straight-flat-wide, 145 mm, nickel-plated
2-702	Insertion tool for system HVt 71 , for connecting the cable conductors and jumper wires	5-122	Engineer's tweezers , made from steel, straight, with narrow pointed tips, 155 mm, nickel-plated
2-751	Test headphones , 1 x 600 ohm, switchable from 600 to 10.000 ohm, with fine control including test prods, maximum load 2 W	5-240	Warding files , 6-piece set, with wooden handles, in plastic wallet
3-112-2	Side cutters , 120 mm, for soft wire up to 1.0 mm, with rounded head, double leaf spring, chrome-plated, with transparent insulation	5-505	Insulation stripping tool , with hookblade, for cable 4 - 28 mm Ø
3-134 VDE	Side cutters , 160 mm, for steel wire up to 1.6 mm Ø, chrome-plated, with VDE safety insulation	6-103	Socket wrench , 4.5 mm, chrome vanadium, chrome-plated, with square handle
3-235-1	Telephon pliers , 160 mm, chrome-plated, with BERNSTEINIT-insulation	6-104	Socket wrench , 5.0 mm, chrome vanadium, chrome-plated, with square handle
3-532-1	Flat nose pliers , 160 mm, with long jaws, chrome-plated, with BERNSTEINIT-insulation	6-105	Socket wrench , 5.5 mm, chrome vanadium, chrome-plated, with square handle
3-574-1	Water pump pliers , 175 mm, made from chrome vanadium, with BERNSTEINIT-insulation	6-320	Socket wrench-set , 1/4" square drive, chrome vanadium, chrome-plated, 16-piece set in a metal case, 11 sockets from 4.0 - 13.0 mm, holder, sliding tee bar, universal joint, reversible ratchet, rigid extension
3-732-1	Combination pliers , 165 mm, chrome-plated, with BERNSTEINIT-insulation	6-500-12	Double open-ended wrench , 12 x 13 mm, chrome vanadium, chrome-plated
3-0605	Combination crimping pliers , 200 mm, for connector types 6P/6C, 6P/4C, 6P/2C, 8P/8C	6-500-18	Double open-ended wrench , 18 x 19 mm, chrome-vanadium, chrome-plated
4-141	Screwdriver , with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, 75 x 3.5 mm, with black tip	6-600	Combination ring-and open-ended wrench , 7-piece set, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 13.0 mm, chrome vanadium, chrome-plated
4-142	Screwdriver , with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, 100 x 4.0 mm, with black tip	6-600-12	Combination ring-and open-ended wrench , 12 mm, chrome vanadium, chrome-plated
4-143	Screwdriver , with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, 125 x 5.5 mm, with black tip	6-600-17	Combination ring-and open-ended wrench , 17 mm, chrome vanadium, chrome plated
4-222	Screwdriver , with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, 260 x 3.0 mm, with black tip	6-600-19	Combination ring-and open-ended wrench , 19 mm, chrome vanadium, chrome-plated
4-227	Cross-recess screwdriver , size 1, with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, blade length 300 mm, with black tip	6-880	Hexagon wrench keys , 8-piece set, in a wallet, 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"
4-228	Cross-recess screwdriver , size 2, as above, blade length 300 mm, with black tip	6-950	Ballpoint wrench keys, hexagon , 8-piece set, in a wallet, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0 mm
4-255	Cross-recess screwdriver , size 0, as above, blade length 60 mm, with black tip	6-995	TORX-screwdrivers with bore hole in the tip , 8-piece set, in a box, T 9, T 10, T 15, T 20, T 25, T 27, T 30, T 40
4-256	Cross-recess screwdriver , size 1, as above, blade length 80 mm, with black tip	7-114	Engineer's hammer , 200 g
4-257	Cross-recess screwdriver , size 2, as above, blade length 100 mm, with black tip	7-425	Duster
4-258	Cross-recess screwdriver , size 3, as above, blade length 150 mm, with black tip	7-429	Insulating tape
4-370	Watchmaker's screwdrivers from metal , 6-piece set, in metal box, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5 mm	7-506	Roller tape , 2 m
4-407	Retaining screwdriver , for inserting slotted screws, nickel-plated, blade 110 x 4.0 mm	7-616	Pocket saw , with adjustable wooden handle, in a wallet
4-437	Retaining screwdriver , for inserting and tightening cross-recess screws size 1, nickel-plated, insulated, blade length 150 mm	8-110	ERSA-fine soldering iron , Tip 260 BN/230 V/16 W
		8-385	ERSA OVAC desoldering pump
		8-407	Solder wire spool , 250 g, 0.8 mm Ø
		9-316/5	5 Chip-Container , conductive box with lid, black, internal dimensions: 118 x 32 x 14 mm

TELECOM 6600 ELECTRONIC SERVICE CASE

The professional toolcase for the telecommunication



TELEDATA ELECTRONIC SERVICE CASE

The case with a basic equipment of special tools for the installation and maintenance of complex telecommunication systems and data networks.

6700 **BERNSTEIN** TELEDATA with tool set

6715 **BERNSTEIN** TELEDATA without tool set

Description:

Case made from deep-drawn, impact-resistant, grained black plastic, with sturdy aluminium frame, dustproof and rainproof, acid- and scratch-resistant. 80 tools are clearly arranged on two removable tool trays, one of it on both sides, and in the plastic tray with adjustable partitions in the bottom of the case. The basic equipment for special operations at telecommunication systems and data networks may efficiently be completed by special tools additionally recommended.

The case has 2 locks.

Outside dimensions: 470 x 340 x 170 mm

Weight without tools: approx. 4.600 kg

Weight with tools: approx. 8.700 kg

Tool set

No.	Description of individual tools	No.	Description of individual tools
2-265	2 test prods , red and black, extremely slim, pointed and flexible, blade made from 1 mm steel wire	5-107	Engineer's tweezers , with bent tips, 150 mm, made from steel, nickel-plated
2-601	IC-tweezers , nickel-plated, 125 mm, for gripping, inserting and removing IC's	5-117	Engineer's tweezers , straight-flat-wide, 145 mm, made from steel, nickel-plated
2-620	PLCC-extractor	5-240	Warding files , 6-piece set, with wooden handles, in plastic wallet
2-701	Insertion tool with sensor , for connecting the wires and simultaneously cutting off the residual wire	5-505	Insulation stripping tool , with hook blade, for cable diameter of 4 up to 28 mm
3-112-2	Side cutters , 120 mm, for soft wire up to 1.0 mm, with rounded head, double leaf spring, chrome-plated, with transparent insulation	6-103	Socket wrench , 4.5 mm, chrome vanadium, chrome-plated, with square handle
3-134 VDE	Side cutters , 160 mm, for steel wire up to 1.6 mm Ø, chrome-plated, with VDE safety insulation	6-104	Socket wrench , 5.0 mm, chrome vanadium, chrome-plated, with square handle
3-235-1	Telephon pliers , 160 mm, chrome-plated, with BERNSTEINIT-insulation	6-105	Socket wrench , 5.5 mm, chrome-vanadium, chrome-plated, with square handle
3-532-1	Flat nose pliers , 160 mm, with long jaws, chrome-plated, with BERNSTEINIT-insulation	6-500-12	Double open-ended wrench , 12 x 13 mm, chrome vanadium, chrome-plated
3-574-1	Water pump pliers , 175 mm, made from chrome vanadium, chrome-plated, with BERNSTEINIT-insulation	6-500-18	Double open-ended wrench , 18 x 19 mm, chrome vanadium, chrome-plated
3-732-1	Combination pliers , 165 mm, chrome-plated, with BERNSTEINIT-insulation	6-600	Combination ring- and open-ended wrench , 7-piece set, chrome vanadium, chrome-plated, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 13.0 mm
3-0605	Combination crimping pliers , 200 mm, for connector types 6P/6C, 6P/4C, 6P/2C, 8P/8C	6-600-12	Combination ring- and open-ended wrench , 12 mm, chrome vanadium, chrome-plated
4-222	Screwdriver , with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, 260 x 3.0 mm, with black tip	6-600-17	Combination ring- and open-ended wrench , 17 mm, chrome vanadium, chrome-plated
4-227	Crosspoint-screwdriver , size 1, with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, 300 mm, with black tip	6-600-19	Combination ring- and open-ended wrench , 19 mm, chrome vanadium, chrome-plated
4-228	Crosspoint-screwdriver , size 2, with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, 300 mm, with black tip	6-880	Hexagon wrench keys , 8-piece set in a wallet, 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"
4-431	Retaining screwdrivers , for inserting and tightening slotted screws, blade made from chrome vanadium, nickel-plated, insulated, blade 100 x 3.0 mm,	6-950	Ballpoint wrench keys , hexagon, 8-piece set in a wallet, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0 mm
4-437	Retaining screwdriver , for inserting and tightening cross-recess screws size 1, blade made from chrome vanadium, nickel-plated, insulated	6-995	Torx screwdrivers with bore-hole in the tip , 8-piece set in a box, T 9, T 10, T 15, T 20, T 25, T 27, T 30, T 40
14-651 VDE	Screwdriver , blade 75 x 2.5 mm, with VDE-insulation	7-425	Duster
14-652 VDE	Screwdriver , blade 100 x 3.5 mm, with VDE-insulation	7-506	Roller tape measure , 2 m
14-653 VDE	Screwdriver , blade 100 x 4.0 mm, with VDE-insulation	7-616	Pocket saw , with adjustable wooden handle, in a wallet
14-681 VDE	Cross-recess screwdriver , size 0, with VDE-insulation, blade length 60 mm	9-316/5	5 Chip-Container , conductive box with lid, black, internal dimensions: 118 x 32 x 14 mm
14-682 VDE	Cross-recess screwdriver , size 1, with VDE-insulation, blade length 80 mm		
14-683 VDE	Cross-recess screwdriver , size 2, with VDE-insulation, blade length 100 mm		
14-684 VDE	Cross-recess screwdriver , size 3, with VDE-insulation, blade length 150 mm		

To complete the set we recommend:

2-751	Test headphones , 1 x 600 ohm, switchable from 600 to 10.000 ohm, with fine control including test prods, maximum load 2 W
2-702	Insertion tool for systems HVt 71 , for connecting the cable conductors and jumper wires
8-110	ERSA fine soldering iron , Tip 260 BN/230 V/16 W
8-385	ERSA OVAC X desoldering pump

TELEDATA 6700 ELECTRONIC SERVICE CASE

The service case for the ambitious Telecommunication engineer



COMPACT-MOBIL ELECTRONIC SERVICE CASE

The trolley case with special tools for the assembly and maintenance of electronic devices

7000 **BERNSTEIN COMPACT-MOBIL** with tool assortment 7010, 7020 and 7030

7015 **BERNSTEIN COMPACT-MOBIL** without tools

7100 **BERNSTEIN COMPACT-MOBIL** with tool assortment 7010, 7020 and 7060

Description:

Elegant case made from deep-drawn, impact-resistant, grained dark brown plastic with a continuous bronze anodised aluminium frame, dustproof and rainproof, acid-resistant, scratch-resistant and non-slip. For energy saving transport stable rolls are installed and a telescopic handle is mounted.

The arrangement of the rolls results in a vibration absorbing locomotion. The tools are held in their partitions.

The case has 3 removable tool trays: No. 7010, 7020 and 7030. The trays contain 63 tools. On request the tray No. 7030 may be exchanged for No. 7060 (VDE-tools). The lid of the case has a pocket for documents etc.

The plastic tray with adjustable partitions in the bottom allows a clear arrangement of a soldering iron, measuring instruments and accessories of various sizes.

The case has two locks.

Outside dimensions: 500 x 400 x 200 mm

Weight without tools: approx. 8.000 kg

Weight with tools 7000: approx. 10.600 kg

Weight with tools 7100: approx. 10.700 kg

Tool set:

No.	Description of individual tools	No.	Description of individual tools
	Tool tray No. 7010		
2-155	Claw-type gripper with 3 wire claws and clip	2-295	Hand magnifier with light
2-601	IC-tweezers , nickel-plated, 125 mm, for gripping, inserting and removing IC's	3-565	Water pump pliers , 130 mm, chrome-plated
2-620	PLCC-extractor	3-715-1	Combination pliers , 115 mm, chrome-plated, BERNSTEINIT-insulation
2-655	Pocket inspection lite with fibre optic adaptor for close inspection of small, tight, hard-to-see areas	4-141	Screwdriver , with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, 75 x 3.5 mm, with black tips
3-654-14	EUROline-side-cutters , 120 mm, for hard wire up to 0.4 mm Ø, for copper wire up to 1.5 mm Ø, with slim rounded head, box joint, double leaf spring, bright burnished, with bicoloured hand-guard	4-142	Screwdriver , as above, 100 x 4.0 mm
3-672-14	EUROline-end-cutters , 130 mm, for copper wire up to 0.6 mm Ø, cutting edge 20° angular, box joint, double leaf spring, bright burnished, with bicoloured hand-guard	4-271	Cross-recess screwdriver , Pozidriv, size 0, with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, with black tips
3-682-14	EUROline-flat nose pliers , 130 mm, extremely slim, box joint, double leaf spring, bright burnished, with bicoloured hand-guard	4-272	Cross-recess screwdriver , Pozidriv, size 1, as above
3-683-14	EUROline-snip nose pliers , 130 mm, extremely slim, box joint, double leaf spring, bright burnished, with bicoloured hand-guard	4-351	Offset screwdriver , 100 x 5 mm, nickel-plated, chrome vanadium
4-161	Electronics screwdriver with special handle and swivel top, blade chrome vanadium, chrome-plated, with black tip, 40 x 1.0 mm	4-407	Retaining screwdriver , 110 x 4 mm
4-162	Electronics screwdriver as above, 40 x 1.5 mm	5-161	Clamping scissors , 130 mm, stainless
4-163	Electronics screwdriver as above, 40 x 2.0 mm	5-301	Special scissors , with serration, 110 mm, nickel-plated
4-164	Electronics screwdriver as above, 50 x 2.5 mm	6-771	Adjustable wrench , jaws opening 0 - 12 mm, total length 100 mm
4-165	Electronics screwdriver as above, 50 x 3.0 mm	6-964 L	TORX-Screwdriver , size T 9, with hole, with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, with black tip
4-281	Electronics cross-recess screwdriver as above, size 000	6-965 L	TORX-Screwdriver , size T 10, with hole, as above
4-282	Electronics cross-recess screwdriver as above, size 00	6-966 L	TORX-Screwdriver , size T 15, with hole, as above
4-283	Electronics cross-recess screwdriver as above, size 0	7-425	Dust brush
4-284	Electronics cross-recess screwdriver as above, size 1		
5-006	Component tweezers , 140 mm, with insulated jaws, for easy insertion and removal of plug-in transistors of various sizes, nickel-plated		Tool tray No. 7030
5-049	Watchmaker's tweezers , sharply-pointed, 110 mm, stainless	3-133-1	Side cutters , 145 mm, for hard wire up to 1.25 mm Ø, for soft wire up to 2.5 mm Ø, chrome-plated, with BERNSTEINIT-insulation
5-107	Engineer's tweezers , made from steel, with bent tips, 150 mm, nickel-plated	3-235-1	Telephone pliers , 160 mm, chrome-plated, with BERNSTEINIT-insulation
5-115	Heat dissipating tweezers , for use when soldering transistors, gold-bonded diodes etc., 165 mm, nickel-plated	3-732-1	Combination pliers , 165 mm, chrome-plated, with BERNSTEINIT-insulation
5-117	Engineer's tweezers , straight-flat-wide, 145 mm, nickel-plated	4-143	Screwdriver , to DIN 5265, special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, with black tip 125 x 5.5 mm
5-191	ESD tweezers , 120 mm, conductive, rounded tips	4-144	Screwdriver , as above, blade 150 x 6.5 mm
5-194	ESD tweezers , 120 mm, conductive, bent pointed tips	4-145	Screwdriver , as above, blade 150 x 8.0 mm
	Tool tray No. 7020	4-256	Cross-recess screwdriver , as above, size 1, with black tip
1-735	Adjusting screwdriver handle , double-ended	4-257	Cross-recess screwdriver , as above, size 2, with black tip
1-738	Special hard plastic bit , 1.5 x 0.5 mm	4-344 VDE	Voltage tester , for 220 - 250 V, blade 100 x 3.5 mm
1-739	Special hard plastic bit , 3.0 x 0.5 mm	5-0605	Universal stripping tool
1-909	Engineer's mirror with handle, made entirely from BERNSTEINIT	6-105	Socket wrench , with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, 5.5 mm A/F
2-126	Desoldering bar , slotted at one end, with plastic handle	6-107	Socket wrench , as above, 7.0 mm A/F
2-127	Tin knife with plastic handle, 115 mm		
2-132	Spring hook , nickel-plated and insulated, 175 mm		To complete the set we recommend for the bottom of the case:
2-161	Magnetic bar with double ball- and socket joint, 215 mm	5-240	Warding file set , 6 pieces, with wooden handles, in a wallet
2-166	Glass fibre contact cleaner	6-820	Set of allen hex sockets , 8 pieces, 1.5 - 6.0 mm
2-265	2 test prods , red and black, extremely slim, pointed and flexible, blade made from 1 mm steel wire	7-512	Miniature caliper square , measuring range 75 mm, stainless
		8-135	ERSA Multitip soldering iron , 15 W/230 V
		8-390	Desoldering pump , length 195 mm, 20 mm Ø
		9-325	Plastic box , with hinged lid and adjustable compartments, 200 x 130 x 30 mm

COMPACT-MOBIL 70000 ELECTRONIC SERVICE CASE

The trolley case as bordcase for world-wide service



The service-case

- with high quality tools for electronics
- with telescopic handle, length up to 950 mm
- mobile on installed stable rolls



COMPACT-MOBIL ELECTRICIAN'S SERVICE CASE

The multi-purpose trolley case for the assembly and maintenance of electric devices

7200 **BERNSTEIN COMPACT-MOBIL** with tool assortment 7030, 7040 and 7050

7215 **BERNSTEIN COMPACT-MOBIL** without tools

7300 **BERNSTEIN COMPACT-MOBIL** with tool assortment 7040, 7050 and 7060

Description:

as service case 7000

This tool case is also equipped with 3 removable tool trays: No. 7030, 7040 and 7050.

The trays contain all together 32 tools.

On request the tray No. 7030 may be exchanged for No. 7060 (VDE-tools).

Outside dimensions: 500 x 400 x 200 mm

Weight without tools: approx. 7.900 kg

Weight with tools 7200: approx. 11.500 kg

Weight with tools 7300: approx. 11.600 kg

Tool set:

No. Description of individual tools

Tool tray No. 7030

- 3-133-1 **Side cutters**, 145 mm, for hard wire up to 1.25 mm Ø, for soft wire up to 2.5 mm Ø, chrome-plated, BERNSTEINIT-insulation
- 3-235-1 **Telephone pliers**, 160 mm, chrome-plated, with BERNSTEINIT-insulation
- 3-732-1 **Combination pliers**, 165 mm, chrome-plated, with BERNSTEINIT-insulation
- 4-143 **Screwdriver**, to DIN 5265, special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, black tip, 125 x 5.5 mm
- 4-144 **Screwdriver**, as above, blade 150 x 6.5 mm
- 4-145 **Screwdriver**, as above, blade 150 x 8.0 mm
- 4-256 **Cross-recess screwdriver**, as above, size 1, with black tip
- 4-257 **Cross-recess screwdriver**, as above, size 2, with black tip
- 4-344 VDE **Voltage tester**, for 220 - 250 V, blade 100 x 3.5 mm
- 5-0605 **Universal stripping tool**
- 6-105 **Socket wrench**, with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, 5.5 mm A/F
- 6-107 **Socket wrench**, as above, 7.0 mm A/F

Tool tray No. 7040

- 3-575-6 **Water pump pliers**, 240 mm, chrome-plated, with insulation
- 3-815-1 **Wire strippers**, 155 mm, chrome-plated, with BERNSTEINIT insulation
- 4-272 **Cross-recess screwdriver** Pozidriv, size 1, blade made from chrome vanadium, chrome-plated, with special square BERNSTEIN handle
- 4-273 **Cross-recess screwdriver**, Pozidriv, as above, size 2
- 5-304 **Combination cutters**, 190 mm, stainless
- 5-309 **Cable stripping shears**, 190 mm, stainless, with plastic handles
- 5-501 **Cable knife**
- 7-410 **Slicker trowel** with round shank, blade width 16 mm
- 7-535 **Spirit level**, length 220 mm, with 3 levels: horizontal, vertical and 45° angle

To complete the set we recommend for the bottom of the case:

- 5-240 **Warding file set**, 6 pieces, with wooden handles, in a wallet
- 6-810 **Set of allen hex sockets** on a ring, 8 pieces
- 7-405 **Trowel**, 50 mm
- 7-415 **Rubber beaker** for plaster
- 8-145 **ERSA soldering iron** 30 S/330 KD/30 W/230 V

No. Description of individual tools

Tool tray No. 7050

- 5-107-6 **Steel tweezers**, bent, nickel-plated, safety-insulated, 150 mm
- 5-117-6 **Steel tweezers**, straight-flat-wide, safety-insulated, 145 mm
- 5-505 **Insulation stripping tool**, with hook blade, for cable 4 - 28 mm Ø
- 7-114 **Engineer's hammer**, 200 g
- 7-202 **Firmer chisel**, blade width 16 mm
- 7-235 **Flat chisel**, 200 x 16 x 22 mm, chrome vanadium
- 7-255 **Electrician's chisel**, 200 x 8 x 10 mm, chrome vanadium
- 7-315 **Drill rasp**, bore-Ø 4 mm, length of blade 175 mm, with plastic handle
- 7-316 **Punch**, 6 mm Ø, with plastic handle
- 7-502 **Folding rule**, 2 m
- 7-616 **Pocket saw „PUK“** with adjustable wooden handle, in a wallet

Tool tray No. 7060 (VDE), alternatively to 7030

- 3-134 VDE **Side cutters**, 160 mm, for steel wire up to 1.6 mm Ø, chrome-plated, with VDE safety insulation
- 3-244 VDE **Telephone pliers**, 165 mm, snipe nose, long straight jaws, with cutting edge for hard wire, chrome-plated, with VDE safety insulation
- 3-732 VDE **Combination pliers**, 165 mm, with wire cutter, for hard wire up to 1.6 mm Ø, chrome-plated, with VDE safety insulation
- 4-344 VDE **Voltage tester**, 220 - 250 V, blade 100 x 3.5 mm
- 14-652 VDE **Screwdriver**, with VDE safety insulation, blade 100 x 3.5 mm
- 14-654 VDE **Screwdriver**, with VDE safety insulation, blade 125 x 5.5 mm
- 14-656 VDE **Screwdriver**, with VDE safety insulation, blade 150 x 6.5 mm
- 14-682 VDE **Cross-recess screwdriver**, size 1, with VDE insulation, blade length 80 mm
- 14-683 VDE **Cross-recess screwdriver**, size 2, with VDE insulation, blade length 100 mm
- 15-522 VDE **Cable stripping knife**, with blade protection, blade length 35 mm
- 16-302 VDE **Socket wrench**, with VDE insulation, 5.5 mm A/F
- 16-304 VDE **Socket wrench**, with VDE insulation, 7.0 mm A/F

COMPACT-MOBIL 7200 ELECTRICIAN'S SERVICE CASE

The trolley case as bordcase for world-wide service



alternative with
VDE-tools
7060



MULTI 5600 ELECTRICIAN'S CASE

The handy, spacious electrician's tool case



5600 **BERNSTEIN** MULTI with tool set

5615 **BERNSTEIN** MULTI without tool set

Description:

Stable case made from best, black, grained cowhide. The handle is slotted through the flap, thereby distributing the load over the entire area of the cover. When opening, the side flaps are held by bands. This enables the user to survey all the tools easily. 42 tools are held by compartments. In the bottom of the case is a metal tray which may carry additional tools. The case edges are especially reinforced by aluminium profiles. On both sides are loops for fasten a carrying strap. The case has 2 locks.

Outside dimensions: 435 x 340 x 210 mm

Weight without tools: approx. 4.300 kg

Weight with tools: approx. 8.350 kg

Tool set:

No.	Description of individual tools
3-133-1	Side cutters , 145 mm, for hard wire, chrome-plated with BERNSTEINIT insulation
3-235-1	Telephone pliers , 160 mm, chrome-plated, with BERNSTEINIT insulation
3-575-6	Water pump pliers , 240 mm, nickel-plated, with insulation
3-732-1	Combination pliers , 165 mm, chrome-plated, with BERNSTEINIT insulation
3-815-1	Wire strippers , 155 mm, chrome-plated, with BERNSTEINIT insulation
4-143	Screwdriver , with special square BERNSTEIN handle, chrome vanadium blade, chrome-plated, black tip, 125 x 5.5 mm
4-145	Screwdriver as above, blade 150 x 8.0 mm
4-311	Screwdriver for grub screws with plastic handle, blade made from chrome vanadium, nickel-plated, 80 x 2.8 mm
4-344 VDE	Voltage tester , blade 100 x 3.5 mm
14-653 VDE	Safety insulated screwdriver , blade 100 x 4.0 mm, chrome vanadium, bicoloured multicomponent safety insulation
14-654 VDE	Safety insulated screwdriver as above, blade 125 x 5.5 mm
14-656 VDE	Safety insulated screwdriver as above, blade 150 x 6.5 mm
14-682 VDE	Safety insulated cross-recess screwdriver , as above, size 1
14-683 VDE	Safety insulated cross-recess screwdriver as above, size 2
5-107-6	Steel tweezers with fine, bent tips, 150 mm, nickel-plated, strong PVC-insulated
5-117-6	Steel tweezers , straight, flat and wide, 145 mm, nickel-plated, strong PVC-insulated

No.	Description of individual tools
5-271	Workshop file , 200 mm, flat and blunt, with wooden handle
5-274	Workshop file , 200 mm, half-round, with wooden handle
5-309	Cable-stripping scissors , 190 mm, stainless, with plastic handles
5-501	Cable knife
5-505	Wire-stripping knife , with hookblade, for cable 4 - 28 mm Ø
6-820	8-pieces set offset hexagon key wrenches , 1.5 to 6 mm A/F, in plastic case
7-116	Engineer's hammer , 300 g
7-202	Firmer chisel , blade width 16 mm
7-235	Flat chisel , chrome vanadium, 200 x 16 x 20 mm
7-255	Electrician's chisel , chrome vanadium, 200 x 8 x 10 mm
7-303	Twist gimlet , 3 mm Ø
7-306	Twist gimlet , 6 mm Ø
7-316	Punch , with plastic handle, 6 mm Ø
7-405	Trowel , with wooden handle, blade width 50 mm
7-410	Slicker trowel , with round shank, blade width 16 mm
7-415	Rubber beaker for plaster , round
7-502	Folding rule , 2 m
7-535	Spirit level , 220 mm, with 3 levels: horizontal, vertical and 45° angle
7-616	Pocket hack saw "Puk" with adjustable wooden handle, saw blade and plastic wallet

VDE-ELEKTRO SERVICE-CASE PROTECTION 8200

A case with the basic equipment of common safety tools



8200 **BERNSTEIN** PROTECTION with tool set

8215 **BERNSTEIN** PROTECTION without tool set

Description:

Case made from deep-drawn, impact-resistant, grained red plastic, with sturdy aluminium frame, dustproof and rainproof, acid- and scratch-resistant. 23 tools, 15 of them piece-checked according to insulating specifications, are clearly arranged on two tool trays and in the bottom tray. If necessary the adjustable partitions in the 60 mm high bottom tray can be organized for taking further tools and accessories. On the back side of the removable upper tool tray there are free pouches for individual tools and documents. BERNSTEIN safety tools are insulated in accordance with the specification EN 60.900, the guarantee for optimal safety.

Outside dimensions: 480 x 350 x 170 mm

Weight with tools: approx. 4.000 kg

Weight without tools: approx. 7.150 kg

Tool set:

No.	Description of individual tools
5-505	Insulation stripping tool , with hook blade, for cable Ø 4 - 28 mm
7-116	Engineer's hammer to DIN 1041, 300 g
7-235	Flat chisel , 200 x 27 mm
7-255	Electrician's chisel chrome vanadium, 200 x 10 mm
7-405	Trowel , with conical forged blade and wooden handle, 50 mm width
7-410	Slicker trowel , polished with round shank, 16 mm width
7-415	Rubber beaker for plaster , Ø 130 mm
7-426	wide brush , 40 mm, with wooden handle
13-908 VDE	VDE Side cutters , 180 mm, for steel wire up to 2.0 mm Ø; chrome-plated, VDE safty insulation
13-917 VDE	Telephon pliers , 200 mm, long straight jaws, with cutting edge for hard wire, chrome-plated, with VDE safty insulation
13-937 VDE	Combination pliers , 185 mm, with wire cutter for hard wire, chrome-plated, with VDE safty insulation
14-651 VDE	Screwdriver , blade 75 x 2.5 mm, bicoloured multicomponent insulation, VDE-tested
14-653 VDE	Screwdriver , blade 100 x 4.0 mm, bicoloured multicomponent insulation, VDE-tested

No.	Description of individual tools
14-654 VDE	Screwdriver , blade 125 x 5.5 mm, bicoloured multicomponent insulation, VDE-tested
14-656 VDE	Screwdriver , blade 150 x 6.5 mm, bicoloured multicomponent insulation, VDE-tested
14-682 VDE	Cross-recess screwdriver , size 1, blade 80 mm bicoloured multicomponent insulation, VDE-tested
14-683 VDE	Cross-recess screwdriver , size 2, blade 100 mm bicoloured multicomponent insulation, VDE-tested
14-692 VDE	Cross-recess screwdriver , size 1 PZ, blade 80 mm bicoloured multicomponent insulation, VDE-tested
14-693 VDE	Cross-recess screwdriver , size 2 PZ, blade 100 mm bicoloured multicomponent insulation, VDE-tested
15-521 VDE	Cable knife with blade protection, blade length 50 mm
15-531 VDE	Automatic wire stripper Super , for work under voltage, for all common stranded and solid conductors of 0.2 - 6.0 mm², adjustable length stop of 5 - 12 mm, built-in side cutters for max. 2 mm Ø
17-523 VDE	Plastic clip , 170 mm, with internal spiral spring
17-541 VDE	Pocket hack saw , insulated to IEC 60.900:2004, frame out of metal die cast, 150 mm saw blade

SAFETY 8100 VDE TOOL CASE

A case full of safety for working under voltage up to 1000 V



8100 **BERNSTEIN** SAFETY with tool set

8115 **BERNSTEIN** SAFETY without tool set

Description:

Extremely stable case made from cowhide, red safety-colour. The hinged front plate allows to grip easily the 35 tools placed in partitions and in the tray in the bottom. Behind the tool set there is a partition for protective gloves, security grip etc.. Furthermore there is a separate pocket for connection diagrams and other documents. The case has two locks. At the side it has loops for attaching a carrying strap.

BERNSTEIN safety tools are produced in accordance with specification EN 60.900 of the Association of German Electrical Engineers (VDE) - the guarantee of optimal safety. The two-colour multilayered insulation (outside red - inside yellow) allows a simple safety-control, practicable at any time: damages of the external red insulation immediately become visible by the yellow layer below.

Outside dimensions: 440 x 175 x 310 mm

Weight without tools: approx. 3.000 kg

Weight with tools: approx. 7.500 kg

Tool set:

No.	Description of individual tools	No.	Description of individual tools
4-344 VDE	Voltage tester , blade 100 x 3.5 mm	16-444 VDE	Socket , as above, 13 mm A/F
13-106 VDE	Side cutter , 165 mm, for piano wire up to 1.6 mm Ø, chrome-plated, with two-colour multilayered insulation	16-445 VDE	Socket , as above, 14 mm A/F
13-207 VDE	Telephone pliers , straight, 205 mm, chrome-plated, with wire cutter, two-colour multilayered insulation	16-447 VDE	Socket , as above, 17 mm A/F
13-208 VDE	Telephone pliers , bent, 205 mm, chrome-plated, with wire cutter, two-colour multilayered insulation	16-448 VDE	Socket , as above, 19 mm A/F
13-707 VDE	Combination pliers , 190 mm, chrome-plated, with wire cutter, two-colour multilayered insulation	16-449 VDE	Socket , as above, 22 mm A/F
13-806 VDE	Wire strippers , 165 mm, chrome-plated, with adjusting screw, two-colour multilayered insulation	16-451 VDE	Socket , as above, 24 mm A/F
14-652 VDE	Screwdriver , blade 100 x 3.5 mm, safety insulated	16-471 VDE	Reversible ratchet , 260 mm long, with two-colour multilayered insulation
14-653 VDE	Screwdriver , blade 100 x 4.0 mm, safety insulated	16-476 VDE	Rigid extension with locking device, length 125 mm, with two-colour multilayered insulation
14-654 VDE	Screwdriver , blade 125 x 5.5 mm, safety insulated	16-503 VDE	Single-ended open-jaw wrench , 8 mm A/F, chrome vanadium with two-colour multilayered insulation
14-656 VDE	Screwdriver , blade 150 x 6.5 mm, safety insulated	16-504 VDE	Single-ended open-jaw wrench , as above, 9 mm A/F
14-658 VDE	Screwdriver , blade 175 x 8.0 mm, safety insulated	16-505 VDE	Single-ended open-jaw wrench , as above, 10 mm A/F
14-682 VDE	Cross-recess screwdriver , size 1, safety insulated	16-506 VDE	Single-ended open-jaw wrench , as above, 11 mm A/F
14-683 VDE	Cross-recess screwdriver , size 2, safety insulated	16-507 VDE	Single-ended open-jaw wrench , as above, 12 mm A/F
15-522 VDE	Cable stripping knife with blade-protection, blade 35 mm	16-508 VDE	Single-ended open-jaw wrench , as above, 13 mm A/F
16-441 VDE	Socket , 10 mm A/F, with 1/2" square drive, chrome vanadium, two-colour multilayered insulation	16-509 VDE	Single-ended open-jaw wrench , as above, 14 mm A/F
16-442 VDE	Socket , as above, 11 mm A/F	17-501 VDE	Electrician's protective gloves , size 10
16-443 VDE	Socket , as above, 12 mm A/F	17-521 VDE	Plug-in grip with leather gauntlet for NH-fuses
		17-523 VDE	Plastic clip , 170 mm long, with internal spiral spring

VDE TOOL SETS 8150 AND 8160

Safety tools at hand in a plastic case

Description:

Black plastic case made from polypropylen with elegant styled stable locks. The full length hinge ensures a very high sturdiness of the case. One case half is totally covered and secured by a firm installed rotatable middle plate with two slide locks. All VDE-tools are clearly arranged in hard foam punches individually shaped for each tool.

Outside dimensions: 350 x 310 x 110 mm

BERNSTEIN safety tools are produced in accordance with specification EN 60.900 of the Association of German Electrical Engineers (VDE) - the guarantee of optimal safety. The two-colour multilayered insulation, outside red - inside yellow, allows a simple safety control, practicable at any time: damages of the external red insulation immediately become visible by the yellow layer below.

8150 **BERNSTEIN** 24-piece VDE tool set

Weight with tools: 3.900 kg

No.	Description of individual tools
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13-106 VDE	Side cutters for piano wire , 165 mm, chrome-plated, with two-colour multilayered insulation
13-708 VDE	Combination pliers , 205 mm, chrome-plated, with two-colour multilayered insulation
14-651 VDE	Screwdriver , insulated, blade 75 x 2.5 mm
14-656 VDE	Screwdriver , insulated, blade 150 x 6.5 mm
14-682 VDE	Cross-recess screwdriver , insulated, size 1
14-683 VDE	Cross-recess screwdriver , insulated, size 2
15-521 VDE	Cable knife with blade protection, blade length 50 mm
15-522 VDE	Cable stripping knife with blade protection, blade length 35 mm
16-441 VDE	Socket , 10 mm A/F, chrome vanadium, two-colour multilayered insulation, with 1/2" square drive
16-442 VDE	Socket , as above, 11 mm A/F
16-443 VDE	Socket , as above, 12 mm A/F
16-444 VDE	Socket , as above, 13 mm A/F
16-445 VDE	Socket , as above, 14 mm A/F
16-447 VDE	Socket , as above, 17 mm A/F
16-448 VDE	Socket , as above, 19 mm A/F
16-475 VDE	T-bar , 1/2" square drive, 200 mm, with two-colour multilayered insulation
16-505 VDE	Single-ended open-jaw wrench , 10 mm A/F, chrome vanadium with two-colour multilayered insulation
16-506 VDE	Single-ended open-jaw wrench , as above, 11 mm A/F
16-507 VDE	Single-ended open-jaw wrench , as above, 12 mm A/F
16-508 VDE	Single-ended open-jaw wrench , as above, 13 mm A/F
16-509 VDE	Single-ended open-jaw wrench , as above, 14 mm A/F
16-512 VDE	Single-ended open-jaw wrench , as above, 17 mm A/F
16-513 VDE	Single-ended open-jaw wrench , as above, 19 mm A/F
17-531 VDE	Voltage tester 'Steinel Volt Check 3'

8160 **BERNSTEIN** 12-piece VDE tool set

Weight with tools: 2.800 kg

No.	Description of individual tools
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13-106 VDE	Side cutters for piano wire , 165 mm, chrome-plated, with two-colour multilayered insulation
13-207 VDE	Telephone pliers , straight, 210 mm, chrome-plated, with two-colour multilayered insulation
13-707 VDE	Combination pliers , 185 mm, chrome-plated, with two-colour multilayered insulation
13-806 VDE	Wire strippers , 165 mm, chrome-plated, with two-colour multilayered insulation
14-651 VDE	Screwdriver , insulated, blade 75 x 2.5 mm
14-652 VDE	Screwdriver , insulated, blade 100 x 3.5 mm
14-654 VDE	Screwdriver , insulated, blade 125 x 5.5 mm
14-656 VDE	Screwdriver , insulated, blade 150 x 6.5 mm
14-682 VDE	Cross-recess screwdriver , insulated, size 1
14-683 VDE	Cross-recess screwdriver , insulated, size 2
15-521 VDE	Cable knife with blade protection, blade length 50 mm
15-522 VDE	Cable stripping knife with blade protection, blade length 35 mm



SERVICE CASE 5115

A service case for an individual tool assortment

Description:

Case made from deep-drawn, impact-resistant, grained black plastic with sturdy aluminium frame, dustproof and rainproof, acid- and scratch-resistant. In the upper removable tray tools can be arranged on both sides in 15 pockets on the front side and 6 pockets on the back side including a partition for documents. 6 further pockets, e.g. for pliers with different sizes, are part of the firm installed rotatable middle tray. The bottom tray with variable partitions allows the storage of more tools, measuring instruments and other individual equipment.
Height of the plastic tray: 55 mm
The case has 2 locks.

Outside dimensions: 470 x 340 x 170 mm

Weight: ca. 4.000 kg



ZIPPER CASE 2701

for an individual tool assortment

Description:

Zipper case made from black nylon with velvet grey lining. The case has 22 pockets made from black imitation leather and one flexible strap. So 23 tools can be arranged ready to hand on 3 tool plates.

Outside dimensions: 320 x 250 x 100 mm (when closed), **Weight:** 0.780 kg

TOOL CASE 5815

A case for an individual tool assortment

Description:

Tool case made from black grained imitation leather. The edges are reinforced with riveted ALU-profiles. The front side is variable closed with lateral press locks and can be turned off when the cover plate is opened. The bottom of the case is strengthened by an metal-profile. The metal front ledge protect the bottom tools when the front side is opened. In front and back side are totally 17 pouches for arranging a tool assortment e. g. with pliers and screwdrivers. On both sides each one strap is riveted. The case is suitable for small individual tool sets e. g. for apprentices in mechanic professionals. The case has 2 locks.

Outside dimensions: 435 x 300 x 175 mm

Weight: ca. 2.750 kg



SERVICE TOOL ROLL 2401

The tool roll is made from a durable cotton canvas, with separations for 24 tools

Weight : approx. 0.350 kg



2400 **BERNSTEIN** TV Service tool roll with 24 piece tool set

Weight with tools: approx. 1.700 kg

No.	Description of individual tools
1-459	Adjusting screwdriver , 200 mm long, blade widths 3.5 and 5.0 mm
2-234	High voltage mains tester , 190 mm long
2-236	Tapping hammer
3-132-1	Side cutter , 130 mm, for hard wire, chrome-plated, insulated
3-205-1	Engineer's flat pliers , 185 mm, box joint, chrome-plated, insulated
3-215-1	Engineer's pliers , 180 mm, bent snipe nose, chrome-plated, insulated
3-225-1	Engineer's precision pliers , 135 mm, snipe nose, chrome-plated, insulated
3-335-1	Adjusting pliers , 135 mm, straight, flat, wide, chrome-plated, insulated
3-565	Water pump pliers , 120 mm, chrome-plated
4-142	Engineer's screwdriver to DIN 5265 , with special square BERNSTEIN handle, blade made from chrome vanadium, chrome-plated, 100 x 4 mm
4-143	Engineer's screwdriver as above, blade 125 x 5.5 mm

No.	Description of individual tools
4-144	Engineer's screwdriver as above, blade 150 x 6.5 mm
4-222	Screwdriver extra long , blade 260 x 3 mm
4-311	Screwdriver for grub screws , blade C.V., 80 x 2.8 mm
4-408	Screw holder , nickel-plated, blade 200 x 4 mm
5-107-1	Steel tweezers with bent tips, 150 mm, nickel-plated
5-231	Flat file with handle
5-261	Contact file
5-301	Special sheet-metal scissors , serrated, extremely slim, 110 mm
6-105	Socket wrench , blade C.V., chrome-plated, 140 x 5.5 mm A/F
6-107	Socket wrench as above, blade 140 x 7 mm A/F
7-425	Dust brush
8-145	Soldering iron , 30 W, 220 V
8-401	Carded solder , approx. 1 m

ADJUSTING AND SETTING IN ELECTRONICS

A large number of electrical and electronic appliances or assemblies must be adjusted and set after the production process. Even when servicing, when fitting new components or when electrical values have altered owing to age, adjustment is usually necessary in order to restore the optimum functioning of the appliance. Although this should be reduced to a minimum by design measures and technological processes, in order to save costs and to attain a high degree of reliability, adjustment cannot be eliminated completely.



BERNSTEIN use a high-quality, fully insulated plastic material with the trademark "BERNSTEINIT", which is hard and flexible, for adjusting screwdrivers and keys. A material made from hard special plastic is available to satisfy the stringent requirements with regard to torsional strength. BERNSTEIN supply adjusting screwdrivers and keys with inserts made from resilient hard bronze for cores which are especially difficult to remove. This material is true to size even with the smallest dimensions. Since it is only used as small cutting tips in conjunction with BERNSTEINIT material, detuning by the resilient hard bronze is virtually eliminated.

For the industrial adjustment and the work with electrostatically endangered components, BERNSTEIN manufacture a variety of high-grade ceramic bits as well as tweezers with ceramic tips. These ceramic bits made from zirconium oxide (ZrO_2) meet highest standards due to their excellent mechanical, thermic and electrical features. The hardness and breaking strength of the material allows the fabrication and use even in smallest dimensions with greatest possible resistance to wear.

BERNSTEIN ceramic bits are extremely resistant and merely show a low thermal conductivity. The blades are non-magnetic, anti-static and electrically insulating, the electric resistance is approx. $10^{10} \Omega/\text{cm}$.

In addition to the types indicated in the catalogue, on request BERNSTEIN also manufacture special wanted dimensions or forms also in smaller quantities.

TRIMMING WITH CERAMIC

Antistatic – antimagnetic – electrically insulating

1-750 **BERNSTEIN** Ceramic adjusting screwdrivers set 13-pieces in a box with hinged lid

Contents: double-ended handle 1-735 and 12 ceramic bits

Weight: 90 g

Measurements of the ceramic bits in box 1-750

No.	Blade length mm		Blade tip mm	Weight g
1-751	32	■	0.90 x 0.30	1
1-752	32	■	1.30 x 0.30	1
1-753	32	■	1.50 x 0.30	1
1-754	32	■	1.80 x 0.30	1
1-755	32	■	1.95 x 0.35	1
1-756	32	■	2.50 x 0.70	1
1-757	32	■	3.00 x 0.30	1
1-761	32	●	1.95 AF	1
1-762	32	●	2.45 AF	1
1-765	32	⊕	size 00	1
1-766	32	⊕	size 0	1
1-767	32	⊕	2.40 x 0.80	1

Measurements of further ceramic bits

1-758	32	■	3.00 x 0.70	1
1-763	32	●	2.60 AF	1
1-764	32	⊕	size 000	1
1-773	32	■	0.70 x 1.40	1
1-774	32	■	3.00 x 1.00	1
1-775	32	■	1.20 x 1.20	1
1-776	32	■	1.30 x 0.40	1

Interchangeable blades made from special hard plastic

1-738	32	■	1.5 x 0.5	1
1-739	32	■	3.0 x 0.5	1

1-725 **Adjusting screwdriver handle** for interchangeable blades, made from BERNSTEINIT with swivel top, for 3 mm Ø blades 5

1-735 **Adjusting screwdriver handle** for interchangeable blades, double-ended, for 3 mm Ø blades 6

ADJUSTING SCREWDRIVERS

with blades from ceramic and conductive handle, non insulating, with centre top

No.	Overall length mm		Blade tip mm	Weight g
1-851	110	■	0.90 x 0.30	10
1-852	110	■	1.30 x 0.30	10
1-853	110	■	1.50 x 0.30	10
1-854	110	■	1.80 x 0.30	10
1-855	110	■	1.95 x 0.35	10
1-856	110	■	2.50 x 0.70	10
1-857	110	■	3.00 x 0.30	10
1-858	110	■	3.00 x 0.70	10
1-861	110	●	1.95 AF	10
1-862	110	●	2.45 AF	10
1-863	110	●	2.60 AF	10
1-864	110	⊕	size 000	10
1-865	110	⊕	size 00	10
1-866	110	⊕	size 0	10
1-867	110	⊕	2.40 x 0.80	10
1-873	110	■	0.70 x 1.40	10
1-874	110	■	3.00 x 1.00	10
1-875	110	■	1.20 x 1.20	10
1-876	110	■	1.30 x 0.40	10



ADJUSTING SCREWDRIVERS

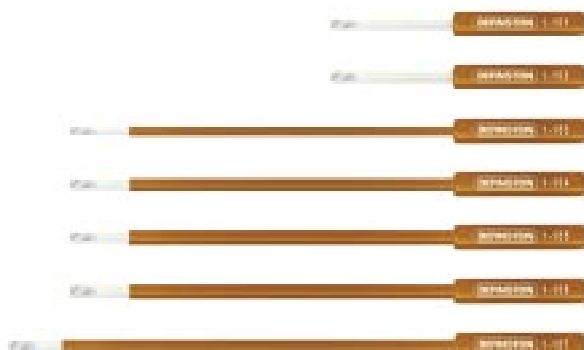
For all adjusting work which requires a ground blade

Adjusting screwdrivers with blade-tip made from special hard plastic

Material:

BERNSTEINIT with insert made from special plastic (German Federal Registered Pattern)

The BERNSTEINIT blade makes the screwdriver flexible, and the hard special plastic insert at the tip gives the blade exceptional torsional strength.



No.	overall length mm	blade length mm	blade Ø mm	blade width mm	weight g
1-151	85	40	3.0	3.0	3
1-152	85	40	4.0	4.0	3
1-153	175	130	3.0	2.0	4
1-154	175	130	4.0	3.0	5
1-155	175	130	5.0	3.5	6
1-156	175	130	5.0	4.0	6
1-157	225	180	4.0	3.0	6



1-150 **BERNSTEIN** Adjusting screwdrivers

7-piece set, as described above, clearly arranged in a plastic case
Weight: 75 g

Adjusting screwdrivers with metal inserts made from resilient hard bronze

For extremely firm cores or extremely small dimensions

Material: Handle made from BERNSTEINIT, blades made from special plastic with bronze tips



No.	overall length mm	blade length mm	blade Ø mm	bronze insert mm	weight g
1-301	200	155	2.7	1.4 x 0.5	4
1-302	200	155	2.7	2.0 x 0.5	4
1-303	200	155	2.7	2.5 x 0.5	4
1-304	200	155	2.7	1.7 x 0.7	4
1-305	125	80	2.4	1.1 x 0.5	3
1-306	125	80	2.4	1.7 x 0.7	3
1-307	125	80	2.4	2.0 x 0.5	3



1-300 **BERNSTEIN** Adjusting screwdrivers,

7-piece set, as described above, clearly arranged in a plastic case
Weight: 70 g

1-180 **BERNSTEIN** Adjusting tools

7-piece set in a plastic case
Weight: 70 g



No.	Description of individual tools		
	Adjusting screwdrivers made from BERNSTEINIT with hard special plastic insert		
1-151	Overall length85 mm,	blade	40 x 3.0 mm
1-152	Overall length85 mm,	blade	40 x 4.0 mm
1-153	Overall length175 mm,	blade	130 x 2.0 mm
1-155	Overall length175 mm,	blade	130 x 3.5 mm
1-181	Double-ended adjusting key made from BERNSTEINIT with hard special plastic inserts, overall length 180 mm, one end hexagonal 1.85 mm A/F, other end square 1.5 mm A/F		
1-182	Double-ended adjusting key made from BERNSTEINIT with hard special plastic inserts, overall length 180 mm, one end hexagonal 2.6 mm A/F, other end square 3.0 mm A/F		
1-306	Adjusting screwdriver made from special plastic, overall length 125 mm, blade 80 x 2.4 mm, with bronze insert 1.7 x 0.7 mm		

ADJUSTING TOOL SETS

1-250 **BERNSTEIN** Special tools and adjusting tools 15-piece set in a leather case Weight: 175 g

No.	Description of individual tools
1-151	Adjusting screwdriver made from BERNSTEINIT, with blade made from hard special plastic, overall length 85 mm, blade 40 x 3.0 mm
1-153	Adjusting screwdriver made from BERNSTEINIT, with hard special plastic insert, overall length 175 mm, blade 130 x 2.0 mm
1-154	Adjusting screwdriver made from BERNSTEINIT, with hard special plastic insert, overall length 175 mm, blade 130 x 3.0 mm
1-181	Double-ended adjusting key made from BERNSTEINIT, with hard special plastic inserts, overall length 180 mm, one end hexagonal 1.85 mm A/F, other end square 1.5 mm A/F
1-182	Double-ended adjusting key made from BERNSTEINIT, with hard special plastic inserts, overall length 180 mm, one end hexagonal 2.6 mm A/F, other end square 3.0 mm A/F
1-305	Adjusting screwdriver made from special plastic, overall length 125 mm, blade 80 x 2.5 mm, with bronze insert 1.1 x 0.5 mm
1-307	Adjusting screwdriver as above, with bronze insert 2.0 x 0.5 mm
1-978	Engineer's mirror with extension handle, made entirely from BERNSTEINIT, handle ground as 6 mm screwdriver
2-126	Desoldering lever, slotted at one end, nickel-plated and insulated, with plastic handle
2-135	Core remover, for easy removal of damaged cores
2-265	Pair of test prods, red and black, extremely slim, pointed and flexible, 155 mm, blade made from 1 mm steel wire, with banana plug connection, fully insulated
4-301	Miniature screwdriver, overall length 85 mm, blade 40 x 1.8 mm
4-311	Screwdriver for grub screws, overall length 140 mm



1-200 **BERNSTEIN** Special tools and adjusting tools 12-piece set in an imitation leather case Weight: 160 g

No.	Description of individual tools
1-153	Adjusting screwdriver made from BERNSTEINIT, with hard special plastic insert, overall length 175 mm, blade 130 x 2.0 mm
1-181	Double-ended adjusting key made from BERNSTEINIT, with hard special plastic inserts, overall length 180 mm, one end hexagonal 1.85 mm A/F, other end square 1.5 mm A/F
1-182	Double-ended adjusting key made from BERNSTEINIT, with hard special plastic inserts, overall length 180 mm, one end hexagonal 2.6 mm A/F, other end square 3.0 mm A/F
1-301	Adjusting screwdriver made from special plastic, overall length 200 mm, blade 155 x 2.7 mm, with bronze insert 1.4 x 0.5 mm
1-304	Adjusting screwdriver as above, bronze insert 1.7 x 0.7 mm
1-505	Slotted key made from special plastic, 120 x 3 mm Ø, 1 mm slot at both ends
1-978	Engineer's mirror with extension handle, made entirely from BERNSTEINIT, handle ground as screwdriver
2-265	Pair of test prods, red and black, extremely slim, pointed and flexible, 155 mm, blade made from 1 mm steel wire, with banana plug connection, fully insulated
4-301	Miniature screwdriver, overall length 85 mm, blade 40 x 1.8 mm
5-107	Steel tweezers with bent tips, 150 mm long
5-301	Special sheet-metal scissors, serrated, 110 mm long



SPECIAL TOOLS



No.	Description	Length	Weight
2-265	Test prods , extremely slim, pointed and flexible, blade made from 1 mm steel wire, with banana plug connection, fully insulated, available in red (2-265-1) and black (2-265-2)	155 mm	9 g
2-125	Desoldering lever for lifting fixed components when desoldering, ends at different angles (40°/70°), slotted at both ends, nickel-plated, insulated	125 mm	7 g
2-126	Desoldering lever , slotted at one end, nickel-plated, round, insulated shank and hexagonal plastic handle	115 mm	10 g
2-127	Tin knife with pointed, sharp blade, for cutting circuit paths and working printed circuit boards, round, insulated shank and hexagonal plastic handle	115 mm	14 g
2-128	Tin scraper with blade of sharp parting tool shape for scraping off excess solder and solder bridges, round, insulated shank and hexagonal plastic handle	115 mm	14 g
2-101	Tin knife with ceramic blade for working printed circuit boards, handle from conductive black plastic	105 mm	9 g
2-135	Core remover for easy removal of damaged cores in coils etc., flexible metal tip 1.5 x 0.5 x 30 mm, nickel-plated blade, BERNSTEINIT handle	175 mm	8 g
2-145	Screwdriver with guide sleeve for easy and accurate setting of spindle resistors and potentiometers with slotted axles up to 3.2 mm Ø, nickel-plated blade, plastic-handle	140 mm	12 g
2-151	Triangular scraper in brass tool holder, nickel-plated, triangular blade made from hollow ground special steel (80 mm long), insertable at both ends and adjustable in holder	90 mm	26 g
2-152	Tool holder , nickel-plated brass, with collets at both ends for holding tools from 0 to 3 mm Ø	110 mm	32 g
2-155	Claw-type gripper , with 3 hardened wire claws, max. 12 mm opening, with clip	120 mm	49 g
2-157	Flexible claw-type grip with 4 sprung claws, to reach inaccessible areas with free play, nickel-plated, long version	600 mm	75 g
2-161	Magnetic bar with double ball-and-socket joint, slewable into any position, diameter of bar 8 mm	215 mm	34 g
2-163	Brass contact cleaner brush , Ø 4 mm, with rotary mechanism, plastic casing	120 mm	10 g
2-164	Replacement brass brush for 2-163	40 mm	1 g
2-165	Contact cleaner , brush-type, with wire bristles, nickel-plated	35 mm	2 g
2-166	Glass fibre contact cleaner brush with rotary mechanism, plastic casing	115 mm	10 g
2-167/10	Replacement glass fibre for 2-166, 10 pieces	40 mm	12 g
2-168	Glass fibre contact cleaner brush , Ø 2 mm	135 mm	9 g
2-169	Replacement glass fibre for 2-168	110 mm	1 g

SPECIAL TOOLS

No.	Description	Length	Weight
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1-909	Engineer's mirror , magnifying, concave mirror 23 mm Ø, with extension handle, made entirely from BERNSTEINIT, fully insulated version	145/260 mm	9 g
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1-978	Engineer's mirror as above, but extension handle with ground 6 mm screwdriver blade, made from BERNSTEINIT	145/260 mm	9 g
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2-275	Repair mirror , stainless, magnifying, concave mirror 21 mm Ø, with BERNSTEINIT handle	180 mm	7 g
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2-281	Double-jointed mirror , slewable into any position, nickel-plated, with insulated handle and clip, mirror 30 mm Ø	195 mm	33 g
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2-282	Telescopic mirror with double joint, slewable into any position, nickel-plated, pocket clip, mirror 23 mm Ø	150-460 mm	21 g
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2-285	Inspection mirror with illuminated mirror area and double joint, slewable into any position, nickel-plated, pocket clip, for 2 batteries type Mignon 1.5 V	200 mm	43 g
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2-291	Plastic magnifying glass with biconvex lens, 5 x magnification, 30 mm Ø, short, practical shape	70 mm	6 g
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2-293	Hand magnifier , biconvex PMX-light-weight lens with antistatic coating, 65 mm Ø, 3.0 x magnification	180 mm	52 g
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2-295	Hand magnifier, illuminated with aspherical PMX-light-weight lens, 35 mm Ø, 7x magnification, 28.0 Dpt., with 2 batteries type Mignon 1.5 V	125 mm	80 g
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2-297	Magnifying glasses Max Detail for easy and precise viewing, 2 x magnification (galilean system), large field of view: about Ø 15 cm, with 40 cm distance, large working distance: 40 cm, magnifying glasses with +/- 3 diopter adjustment, independently adjustable	52 g
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2-655	Pocket inspection lamp MITILITE LASER SPOT with bent fibre optic adaptor for close inspection of small, tight, hard-to-see areas. The most powerful pocket lite with pre-focused reflector, clip and magnet, handy, watertight and unbreakable incl. 2 Alkaline-batteries ea. 1.5 V	125 mm	52 g
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2-655-80	Pocket inspection lamp as discribed above, with additional straight fibre optic adapter, 80 mm long		
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SPECIAL TOOLS

No.	Description	Length	Weight
2-130	Set of spring hooks , 6-piece, nickel-plated, for gripping and straightening, inserting and removing tension and compression springs of various kinds, hook screwing onto handle, in a plastic case	hook with handle 205 mm	42 g
2-131	Spring hook , nickel-plated and insulated, for inserting and removing tension and compression springs	205 mm	10 g
2-132	Spring hook , nickel-plated and insulated, for inserting and removing tension springs	175 mm	8 g
2-133	Spring hook with ring , nickel-plated, for inserting and removing strong tension springs	195 mm	13 g
2-306	Extractor with self-centring extractor hook to remove small bearings and similar parts. Span 60 mm, grip depth 50 mm	105 mm	205 g
2-601	IC tweezers for gripping, inserting and removing, especially suitable for narrow components, nickel-plated	125 mm	20 g
2-601-13	IC-tweezers with ESD-coating description as before	125 mm	22 g
2-605	PLCC-puller for lifting out plug-in PLCC's	135 mm	6 g
2-620	PLCC extractor for easy removal of plug-in PLCC's	100 mm	22 g



DEMAGNETIZING THROTTLES

Indispensable for the service

2-305 **BERNSTEIN** Demagnetizing throttle

complete with 2 m connecting cable and Euro-flat plug

The device removes unwanted magnetism from sound heads, which can cause disturbing extraneous noise and losses of high-frequency sound.

Also suitable for erasing magnetic tapes.

Technical data: Dimensions: 105 mm x 40 mm Ø
Voltage: 220 V = 50 Hz
Low voltage on request

Weight: 340 g



2-505 **BERNSTEIN** Demagnetizing throttle

for **colour televisions**
and **colour monitors**
complete with 4 m connecting cable and Euro-flat plug

When servicing colour televisions, the most important requirement for setting the purity of colour and convergence accurately is the demagnetisation of the colour television tube.

There are colour televisions and colour monitors which are so strongly magnetized that the intern demagnetisation is not successful enough. For these cases the demagnetizing throttle 2-505 is used, which neutralizes even the strongest magnetic fields. An installed thermo-element interrupts as protection of overheating after approx. 1.5 min.

Technical data: Diameter: 350 mm
Voltage: 220 V
Current consumption: approx. 2 A
Thermo-element

Weight: approx. 1.000 g



INSERTION TOOLS

2-701 **Krone Insertion tool with sensor**, wire connection, without soldering, screwing and stripping, cutting the remaining length, all in one operation

185 mm 63 g



2-702 **Insertion tool** for system 71 to connect cable and switch wire

165 mm 40 g



Test headphone

2-751 **Test headphone**

Usable for

- the check of switching circuitry
- the connection to the line without drawing loop current (monitor)
- verification the presence of DC current and permission to follow a tone on different pairs

Technical data:

1 x 600 ohm, changeable from 600 up to 10.000 ohm, with fine adjuster, cable length including test prods 1450 mm, maximum load 2 W

Weight: 240 g



BERNSTEIN-Pliers are made from specially selected top-quality special steels. The blanks are drop-forged and are then further processed in accordance with the latest production techniques.

BERNSTEIN pliers are oil-hardened and all cutting pliers additionally undergo subsequent induction hardening. All pliers are carefully produced for the cutting capacities indicated, either with a side face for cutting hard and soft wire or without a side face for flush cutting soft wire only. The cutting capacities of all electronic pliers are indicated on the handles.

All BERNSTEIN pliers are guaranteed tools. Defective pliers will be replaced if they contain material or production defects.

Special design features

Most BERNSTEIN pliers for electronic engineers are produced with a **box joint**.

As a result of this expensive design, optimum parallel guiding edges is obtained and the service lives are long.

The production of a **lap joint**

or a **lay-on joint**

is made according to the type of pliers and the use.



Cutting shape and capacity

with side face (Semi Flush)

suitable for hard and soft steel wire as well as soft materials, e.g. copper wire. The result of the final cut is a pyramidal tip at the end of the wire

without side face (Flush)

nearly flush cut with finest cutting edges, only for soft steel wires and copper wires; cut slightly shock-resistant, the cut leaves a minimal rise at the end of the wire

fully without side face (Ultra Flush)

cut is absolutely flush due to extremely sharp cutting edges, only for soft steel and copper wires, being the ultimate in conformance to tough soldering and mechanical shock specification

special side face

for cutting glass fibre, e.g. Kevlar etc..



The lifetime of the cutting edges depends on the sharpness of the tips. The stronger the tips (fully without side face) the faster the wear. So far no flush and shock-resistant cut is required, it is better to take pliers with side face.

Finishes

BERNSTEIN-pliers are supplied as standard in the following finishes:

Bright-polished chrome-plated
Fine-polished and bright-burnished
Bright steel-polished
Nickel-plated
Burnished
Stainless, fine polished

Additional insulation or other types of finish are indicated by a suffix after the article number

Finish	No.suffix
chrome-plated, polished	without
with transparent hand-guard (=BERNSTEINIT-insulation)	-1
with transparent or coloured insulation	-2
with conductive black hand-guard	-13
nickel-plated	
with transparent hand-guard (=BERNSTEINIT-insulation)	-4
with coloured insulation	-6
steel-polished	
with conductive black hand-guard	-13
burnished	-10
with conductive black hand-guard	-7
with coloured insulation	-12
bright-burnished, and fine-polished	
with yellow-grey hand-guard	-14
with conductive black-yellow hand-guard	-15
Safety insulation	
VDE-safety insulation	-VDE
two-colour multilayered safety insulation	-VDE
ESD-insulations	
conductive black coating	-7
conductive black hand-guard	-13
conductive black-yellow hand-guard	-15

Only the finishes indicated in the descriptions of the pliers are available from stock, all other finishes are available on request.

Packing

All pliers are supplied in skin packs as standard. Packing in plastic bags can also be selected if required. Both are for recycling. Quantities of 10 pairs of pliers per type are packed in a 3-coloured covered box and are clearly labelled.





SPECIAL ELECTRONIC PLIERS EUROline-Conductive

Box joint



Double leaf spring

High quality steel

Fine polished and bright burnished, for dazzle free working

Ergonomically formed bicoloured hand-guard from

conductive anti-slide material

The pliers of this program have been tested with good results by several testing laboratories adequate to DIN EN 61340-5-1, 61340-2-1, 61340-2-3 for work in ESD protected areas

CUTTING PLIERS

No.	Length		Finish	cutting capacity mm Ø			Weight g
	mm	inches		Copper-wire	Soft wire	Hard wire	

Mini side cutters EUROline-Conductive

with very slim, rounded head for finest operations

3-651-15	120	4 3/4	without side face	1.2	0.6	-	65
3-651-15 DR	120	4 3/4	without side face, with retaining spring	1.2	0.6	-	65

Mini side cutters EUROline-Conductive

with very slim, pointed head for finest operations

3-652-15	120	4 3/4	without side face	1.0	0.6	-	60
3-653-15	120	4 3/4	without side face, with special flat cutting edge	1.0	0.6	-	60

Side cutters EUROline-Conductive

with slim, rounded head,

3-654-15	125	5	with side face	1.5	1.0	0.4	70
3-655-15	125	5	without side face	1.5	1.0	-	70

Side cutters EUROline-Conductive

with slim, pointed head,

3-656-15	125	5	with side face	1.2	1.0	0.4	70
3-657-15	125	5	without side face	1.2	1.0	-	70

End cutters EUROline-Conductive

extremely slim, without side face, for precision work at points difficult to reach

3-671-15	130	5 1/8	straight	0.6	-	-	65
3-672-15	130	5 1/8	cutting edge 20° angular	0.6	-	-	70

Top cutters EUROline-Conductive

extremely slim, without side face, head 45° angular, for flush cutting directly in front of and behind the components.

3-673-15	130	5 1/8	cutting edge inside	0.6	-	-	60
3-674-15	130	5 1/8	cutting edge outside	0.6	-	-	60

Oblique top cutters EUROline-Conductive

cutting plane 29° angular, flush cutting for horizontal and vertical use

3-675-15	115	4 1/2	without side face	1.2	1.0	0.4	65
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SPECIAL ELECTRONIC PLIERS EUROline-Conductive

CUTTING PLIERS



No.	Length		Finish	cutting capacity mm Ø			Weight g
	mm	inches		Medium hard wire	Hard wire	Piano- wire	

Carbide mini side cutters EUROline-Conductive

for continuous heavy work, **with inserted carbide cutting edges**,
only for tough nickel and electrode wires

3-661-15	120	4 3/4	with side face very slim rounded head	1.2	1.0	0.6	70
3-663-15	120	4 3/4	with side face very slim pointed head with special flat cutting edge	0.6	0.5	-	65

Carbide oblique top cutters EUROline-Conductive

for continuous heavy work, **with inserted carbide cutting edges**,
cutting plane 29° angular, for horizontal and vertical use,
only for tough nickel and electrode wires

3-667-15	115	4 1/2	without side face	0.6	0.5	0.3	65
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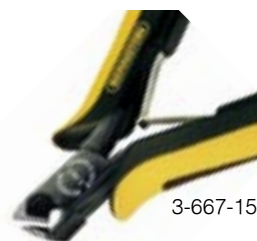
Glas fibre mini side cutters EUROline-Conductive

for continuous heavy work, **with inserted carbide cutting edges**,
with special side face, **for cutting glass fibre only**, max. Ø 2.0 mm

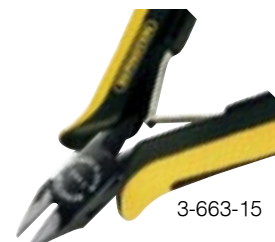
3-665-15	120	4 3/4	very slim rounded head				70
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3-661-15



3-667-15



3-663-15



3-665-15

ROUND, FLAT, SNIPE NOSE PLIERS

No.	Length		Finish	Weight g
	mm	inches		

Round nose pliers EUROline-Conductive

extremely slim

3-681-15	130	5 1/8	short plain jaws	60
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Flat nose pliers EUROline-Conductive

extremely slim

3-682-15	130	5 1/8	short plain jaws	70
3-688-15	130	5 1/8	short, ultra slim plain jaws	60

Snipe nose pliers EUROline-Conductive

extremely slim

3-683-15	130	5 1/8	short plain jaws	70
3-685-15	140	5 1/2	long plain jaws	70
3-686-15	140	5 1/2	long serrated jaws	70
3-687-15	130	5 1/8	short plain jaws, ultra slim pointed for precise handling of tiny components	70



3-682-15



3-681-15



3-683-15



3-688-15



3-687-15



3-685-15



SPECIAL ESD ELECTRONIC PLIERS

Box joint



Double leaf spring

Bright **steel**-polished

With **conductive** black hand-guard

CUTTING PLIERS

No.	Length		Finish	Cutting capacity mm Ø		Weight g
	mm	inches		Soft wire	Hard wire	

Side cutters

with slim, rounded head, available with or without side face

3-601-13	120	4 3/4	with side face	1.0	0.4	70
3-602-13	120	4 3/4	without side face	1.0	-	70

Side cutters

with slim, pointed head, available with or without side face

3-603-13	120	4 3/4	with side face	0.8	-	65
3-604-13	120	4 3/4	without side face	0.8	-	65

End cutters

with angular tips and oblique cutting edge,
for flush cutting, for soft wire only

3-606-13	120	4 3/4	without side face	0.4	-	55
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ROUND, FLAT AND SNIPE NOSE PLIERS

No.	article	Length		Finish	Weight g
		mm	inches		
3-631-13	Round nose pliers	120	4 3/4	plain jaws	55
3-632-13	Flat nose pliers	120	4 3/4	plain jaws	60
3-633-13	Snipe nose pliers	120	4 3/4	plain jaws	60
3-634-13	Snipe nose pliers, angular	120	4 3/4	plain jaws	60

SETS OF ELECTRONIC PLIERS

3-650 **BERNSTEIN** Set of conductive pliers, 5 pieces

in a practical table support from antistatic material

Tool set:

Weight: 350 g

No.	Description of individual tools
3-601-13	Side cutters , 120 mm, for hard wire up to 0.4 mm, for soft wire up to 1.0 mm
3-631-13	Round nose pliers , 120 mm, plain jaws
3-632-13	Flat nose pliers , 120 mm, plain jaws
3-633-13	Snipe nose pliers , 120 mm, plain jaws
3-634-13	Snipe nose pliers , angular, 120 mm, plain jaws

3-630 **BERNSTEIN** Set of conductive pliers, 3 pieces

in a wallet of recycable nylon

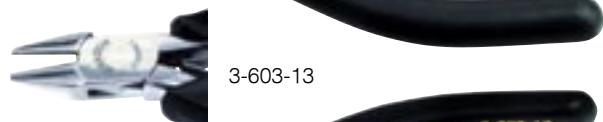
Tool set:

Weight: 250 g

No.	Description of individual tools
3-601-13	Side cutters , 120 mm, for hard wire up to 0.4 mm, for soft wire up to 1.0 mm
3-632-13	Flat nose pliers , 120 mm, plain jaws
3-633-13	Snipe nose pliers , 120 mm, plain jaws



3-601-13



3-603-13



3-606-13



3-631-13



3-632-13




3-633-13

3-634-13



SPECIAL ESD ELECTRONIC PLIERS

Lap joint 
Double leaf spring
Bright polished - **chrome**-plated
With **conductive** black handguard

CUTTING PLIERS

No.	Length		Finish	Cutting capacity mm Ø		Weight g
	mm	inches		Soft wire	Hard wire	

Side cutters

with slim, rounded head

3-901-13	125	5	with side face	1.0	0.4	75
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Side cutters

with slim, pointed head and special flat cutting edge, for soft wire only

3-902-13	125	5	without side face	0.8	-	75
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Top cutters

with 3 mm wide cutting edge, jaw length 20 mm, for flush cutting, for soft wire only

3-905-13	135	5 1/2	without side face	0.8	-	85
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End cutters

with angular tips and oblique cutting edge, for flush cutting, for soft wire only

3-906-13	135	5 1/2	without side face	0.8		85
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ROUND, FLAT AND SNIPE NOSE PLIERS

Round nose pliers

3-931-13	130	5 1/8	plain jaws			80
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Flat nose pliers

3-932-13	130	5 1/8	plain jaws			70
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Snipe nose pliers

3-933-13	130	5 1/8	plain jaws			70
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SIDE CUTTERS, TELEPHONE AND COMBINATION PLIERS

Lap joint, bright polished – chrome-plated
With **conductive** black handguard

Side cutters

swedish design

3-133-13	145	5 3/4	spezial-steel	2.5	1.25	155
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Telephone pliers snipe nose, long straight jaws, with cutting edges for hard wire

3-245-13	200	8	serrated jaws			180
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Combination pliers

with wire cutter, for hard wire

3-732-13	165	6 1/2	serrated jaws			185
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3-901-13



3-902-13



3-905-13



3-906-13



3-931-13



3-932-13



3-933-13



3-133-13



3-245-13



3-732-13



3-901-7

SPECIAL ESD ELECTRONIC PLIERS

Lap joint



Black burnished, double leaf spring
With **conductive** black handguard



3-902-7

CUTTING PLIERS

No.	Length		Finish	Cutting capacity mm Ø		Weight g
	mm	inches		Soft wire	Hard wire	

Side cutters

with slim, rounded head

3-901-7	120	4 3/4	with side face	1.0	0.4	65
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Side cutters

with slim, pointed head, special flat cutting edge,
for soft wire only

3-902-7	120	4 3/4	without side face	0.8	-	65
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Top cutters

with 3 mm wide cutting edge, jaw length 20 mm,
for flush cutting, for soft wire only

3-905-7	125	5	without side face	0.8	-	75
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End cutters

with angular tips and oblique cutting edge,
for flush cutting, for soft wire only

3-906-7	125	5	without side face	0.8	-	75
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3-905-7



3-906-7



3-931-7



3-932-7

FLAT-SNIPE NOSE PLIERS

No.	Length		Finish	Weight g
	mm	inches		

Round nose pliers with short jaws

3-931-7	120	4 3/4	plain jaws	70
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Flat nose pliers with short jaws

3-932-7	120	4 3/4	plain jaws	60
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Snipe nose pliers with short jaws

3-933-7	125	5	plain jaws	60
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Snipe nose pliers with long jaws

angular, slim model

3-945-7	145	5 3/4	serrated jaws	85
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3-945-7

SPECIAL ELECTRONIC PLIERS

Lap joint



Black burnished, Double leaf spring
with orange coloured insulation

CUTTING PLIERS

No.	Length		Finish	Cutting capacity mm Ø		Weight g
	mm	inches		Soft wire	Hard wire	

Side cutters

with slim, rounded head

3-901-12	120	4 3/4	with side face	1.0	0.4	70
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Side cutters

with slim, pointed head,
special flat cutting edge,
for soft wire only

3-902-12	120	4 3/4	with side face	0.8	-	65
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Top cutters

with 3 mm wide cutting edge,
jaw length 20 mm, for flush
cutting, for soft wire only

3-905-12	125	5	without side face	0.8	-	75
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End cutters

with angular tips and oblique
cutting edge, for flush cutting,
for soft wire only

3-906-12	125	5	without side face	0.8	-	75
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ROUND-FLAT-SNIPE NOSE PLIERS

No.	Length		Finish	Weight g
	mm	inches		

Round nose pliers with short jaws

3-931-12	120	4 3/4	plain jaws	70
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Flat nose pliers with short jaws

3-932-12	120	4 3/4	plain jaws	60
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Flat nose pliers slim model, with long jaws

3-942-12	145	5 3/4	serrated jaws	90
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Snipe nose pliers with short jaws

3-933-12	125	5	serrated jaws	60
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Snipe nose pliers slim model, with long jaws

3-943-12	145	5 3/4	serrated jaws	80
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Snipe nose pliers angular, slim model, with long jaws

3-945-12	145	5 3/4	serrated jaws	80
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3-901-12



3-902-12



3-905-12



3-906-12



3-931-12



3-932-12



3-942-12



3-943-12



3-945-12

SETS OF ELECTRONICS PLIERS

3-680 **BERNSTEIN** EUROline-Conductive set of pliers



4-piece set **conductive** pliers from the series EUROline-Conductive with **conductive** handguard in cases made from **conductive** black imitation leather, with zip fastener

No.	Description of individual tools	Weight: 400 g
3-651-15	Mini side cutters EUROline-Conductive , 120 mm, without sideface, for soft wire up to 0.6 mm Ø, copper wire up to 1.2 mm Ø, box joint, double leaf spring, fine polished and bright burnished, conductive bicoloured hand-guard	
3-672-15	End cutters EUROline-Conductive , 130 mm, for copper wire up to 0.6 mm Ø, cutting edge 20° angular, box joint, double leaf spring, fine polished and bright burnished, conductive bicoloured hand-guard	
3-682-15	Flat nose pliers EUROline-Conductive , 130 mm, plain jaws, finish as before	
3-683-15	Snipe nose pliers EUROline-Conductive , 130 mm, plain jaws, finish as before	



3-680

3-630 **BERNSTEIN** Set of conductive pliers



3-piece set bright steel-polished pliers with **conductive** handguard in a wallet of nylon

No.	Description of individual tools	Weight: 250 g
3-601-13	Side cutters , 120 mm, for hard wire up to 0.4 mm, for soft wire up to 1.0 mm	
3-632-13	Flat nose pliers , 120 mm, plain jaws	
3-633-13	Snipe nose pliers , 120 mm, plain jaws	



3-630

3-960 **BERNSTEIN** Set of conductive pliers



4-piece set black burnished pliers with **conductive** handguard in a wallet of nylon

No.	Description of individual tools	Weight: 350 g
3-901-7	Side cutters , 120 mm, for soft wire bis 1.0 mm, for hard wire up to 0.4 mm Ø	
3-906-7	End cutters , 125 mm, with angular tips and oblique cutting edge, without side face, for flush cutting, for soft wire only	
3-932-7	Flat nose pliers , 120 mm	
3-933-7	Snipe nose pliers , 125 mm	



3-960

3-940 **BERNSTEIN** Set of pliers

4-piece set black burnished pliers with orange insulation in a wallet of nylon

No.	Description of individual tools	Weight: 350 g
3-901-12	Side cutters , 120 mm, for soft wire up to 1.0 mm, for hard wire up to 0.4 mm Ø	
3-906-12	End cutters , 125 mm, with angular tips and oblique cutting edge, without side face, for flush cutting, for soft wire only up to 0.8 mm Ø	
3-932-12	Flat nose pliers , 120 mm	
3-933-12	Snipe nose pliers , 125 mm	



3-940

3-930 **BERNSTEIN** Set of pliers

3-piece set black burnished pliers with orange insulation in a wallet of nylon

No.	Description of individual tools	Weight: 275 g
3-901-12	Side cutters , 120 mm, for soft wire up to 1.0 mm, for hard wire up to 0.4 mm Ø	
3-932-12	Flat nose pliers , 120 mm	
3-933-12	Snipe nose pliers , 125 mm	

SPECIAL ELECTRONIC PLIERS EUROline

Box joint, Double leaf spring, High quality steel
Fine polished and bright burnished
For dazzle-free working, high corrosion protection
Ergonomically formed bicoloured hand-guard
from anti-slide material

CUTTING PLIERS

No.	Length		Finish	Cutting capacity mm Ø			Weight g
	mm	inches		Copper- wire	Soft wire	Hard wire	

EUROline mini side cutters

with very slim, rounded head,
for finest operations

3-651-14	120	4 3/4	without side face	1.2	0.6	-	55
3-651-14 DR	120	4 3/4	without side face with wire retaining spring	1.2	0.6	-	60

EUROline mini side cutters

with very slim, pointed head,
for finest operations

3-652-14	120	4 3/4	without side face	1.0	0.6	-	60
3-653-14	120	4 3/4	without side face, with special flat cutting edge	1.0	0.6	-	60

EUROline side cutters

with slim rounded head

3-654-14	125	5	with side face	1.5	1.0	0.4	70
3-655-14	125	5	without side face	1.5	1.0	-	70

EUROline side cutters

with slim, pointed head

3-656-14	125	5	with side face	1.2	1.0	0.4	65
3-657-14	125	5	without side face	1.2	1.0	-	65

EUROline end cutters

extremely slim, cutting edge 20° angular,
for precision work at points difficult to reach

3-672-14	130	5 1/8	without side face	0.6	-	-	65
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ROUND-FLAT-SNIPE NOSE PLIERS

EUROline round nose pliers

extremely slim, with short jaws

3-681-14	130	5 1/8	plain jaws				65
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EUROline flat nose pliers

extremely slim, with short jaws

3-682-14	130	5 1/8	plain jaws				65
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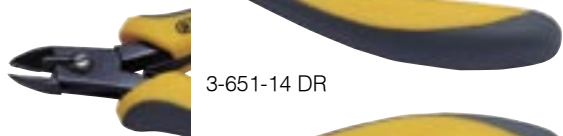
EUROline snipe nose pliers

extremely slim, with short jaws

3-683-14	130	5 1/8	plain jaws				65
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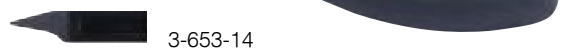
3-651-14



3-651-14 DR



3-652-14



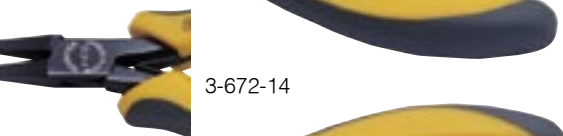
3-653-14



3-654-14



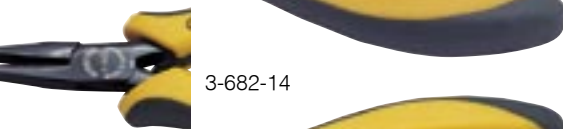
3-656-14



3-672-14



3-681-14



3-682-14



3-683-14

SPECIAL ELECTRONIC PLIERS

Box joint



Compression spring, Special steel, chrome-plated bright polished, especially light and slim
With transparent insulation (-2)

CUTTING PLIERS

No.	Length		Finish	Cutting capacity mm Ø		Weight g
	mm	inches		Soft wire	Hard wire	

Electronics side cutters

for continuous heavy work, with inserted carbid cutting edges, **only** for tough nickel and electrode wires

3-067-2	125	5	with side face	-	1.0	70
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Mini side cutters

with extremely narrow, pointed head, without side face, for flush cutting, for precision work, for soft wire only

3-068-2	110	4 3/8	without side face	0.6	-	40
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Mini side cutters

with extremely narrow, rounded head, without side face, for flush cutting, for precision work, for soft wire only

3-069-2	110	4 3/8	without side face	0.8	-	40
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Oblique cutters

with recess in the cutting edge, for gripping components not to be worked on, cutting area 4.0 mm wide, without side face, for flush cutting, for soft wire only

3-052-2	120	4 3/4	without side face	1.0	-	70
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COMPONENT PLIERS

For bending, cutting and squeezing connecting wires on components

No.	Length		Finish	Weight g
	mm	inches		

Crimping and bending pliers

crimp the wire in one operation without changing the parallelism of the ends of the wire

3-172-2	130	5 1/8	especially slim model	70
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Cutting and squeezing pliers

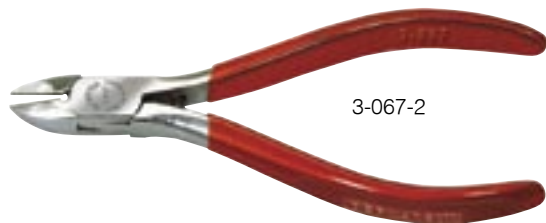
cut and squeeze soft wire up to 1.2 mm Ø in one operation, wire ends are shortened up to 1.5 mm and squeezed flat

3-175-2	125	5	cutting edge width 4.0 mm	70
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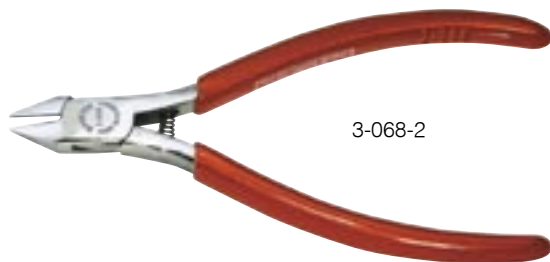
Cutting and bending pliers

cut and bend soft wire up to 0.8 mm Ø in one operation, wire ends are shortened to 1.5 mm and bent through 45°, cutting edge width 2.0 mm

3-056-2	125	5	especially slim model	70
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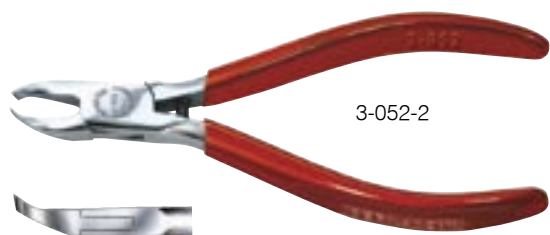
3-067-2



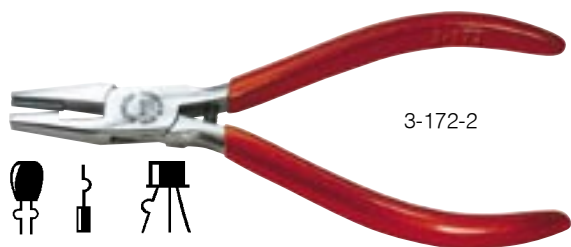
3-068-2



3-069-2



3-052-2



3-172-2



3-175-2



3-056-2

SPECIAL ELECTRONIC PLIERS

Box joint



Compression spring, Special steel, chrome-plated
bright polished, especially light and slim

With transparent insulation (-2)

CUTTING PLIERS

No.	Length		Finish	Cutting capacity mm Ø		Weight g
	mm	inches		Soft wire	Hard wire	

Micro side cutters

with slim, pointed head

3-125-2	115	4 1/2	fine side face	0.8	0.3	60
3-125-1	115	4 1/2	with BERNSTEINIT-ins.	0.8	0.3	70

Slimline side cutters

with slim, rounded head

3-127-2	115	4 1/2	fine side face	1.0	0.4	60
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Slimline side cutters

with slim, rounded head,

with wire retaining spring (to hold the wire clippings)

3-127-2 DR	115	4 1/2	fine side face	1.0	0.4	60
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Slimline oblique top cutters

with slim head, for flush cutting,
for soft wire only

3-128-2	120	4 3/4	without side face	0.8	0.3	70
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IC top cutters

for cutting IC connections only

3-130-2	120	4 3/4	without side face	-	-	70
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Special side cutters

slim, pointed head, box joint, for flush cutting,
for soft wire only

3-138-2	130	5 1/8	without side face	1.25	-	90
3-138	130	5 1/8	without insulation	1.25	-	85

Slimline end cutters

with angular tip and oblique cutting edge,
for flush cutting, for precision work,
at points difficult to reach, for soft wire only

3-164-2	140	5 1/2	without side face	0.8	-	70
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End cutters

with angular tip and cutting edge, for soft wire only,
without compression spring

3-165-2	165	6 1/2	fine side face	1.0	-	115
3-165-1	165	6 1/2	with BERNSTEINIT-ins.	1.0	-	130



3-125-2



3-127-2



3-127-2 DR



3-128-2



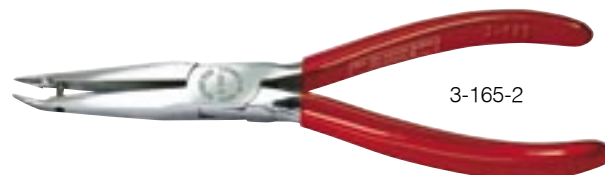
3-130-2



3-138-2



3-164-2



3-165-2

SPECIAL ELECTRONIC PLIERS

Box joint, Special steel



Chrome-plated, bright polished

Especially light and slim

With transparent insulation



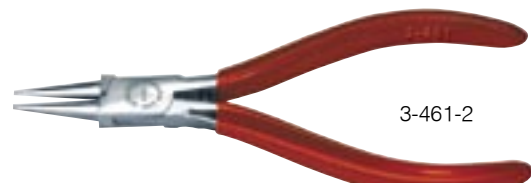
3-435-2



3-445-2



3-455-2



3-461-2



3-472-2



3-473-2



3-482-2



3-161-2



3-162-2

No.	Length		Finish	Weight
	mm	inches		g

Micro round nose pliers

extremely light and slim

3-435-2	120	4 3/4	plain jaws	45
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Micro flat nose pliers

extremely light and slim

3-445-2	120	4 3/4	plain jaws	50
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Micro snipe nose pliers

extremely light and slim

3-455-2	120	4 3/4	plain jaws	50
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Round nose pliers

slim model, with compression spring and plain jaws

3-461-2	130	5 1/8	short jaws	70
3-471-2	145	5 3/4	long jaws	75

Flat nose pliers

slim model, with compression spring and plain jaws

3-462-2	130	5 1/8	short jaws	80
3-472-2	145	5 3/4	long jaws	75

Snipe nose pliers

slim model, with compression spring and plain jaws

3-463-2	130	5 1/8	short jaws	75
3-473-2	145	5 3/4	long jaws	85

Snipe nose pliers

angular, slim model, with compression spring and plain jaws

3-481-2	130	5 1/8	short jaws	50
3-482-2	140	5 1/2	long jaws	90
3-482-1	145	5 3/4	with BERNSTEINIT-ins.	100

Snipe nose pliers

with wire cutter for soft wire up to 0.6 mm Ø, particularly slim, pointed model, with compression spring


3-161-2	145	5 3/4	fine serrated jaws	75
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Telephone pliers

with wire cutter for soft wire up to 0.8 mm Ø, especially slim, pointed model, with compression spring

3-162-2	150	6	fine serrated jaws	80
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ENGINEER'S PLIERS

Box joint  Special steel
Fine, slim design, chrome-plated, polished
With BERNSTEINIT-handguard (-1)

No.	Length		Finish	Weight g
	mm	inches		

Long nose pliers flat, slim

3-205-1	185	7 1/2	fine serrated jaws	140
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Snipe long nose pliers oval-pointed, bent

3-215-1	185	7 1/2	fine serrated jaws	145
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Snipe nose pliers oval-pointed

3-225-1	130	5 1/8	fine serrated jaws	95
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TELEPHONE PLIERS

Lap joint, Special steel 
Chrome-plated, polished with wire cutters
With BERNSTEINIT-handguard (-1)

Telephone pliers snipe nose,
short jaws, with cutting edge for hard wire

3-235-1	160	6 1/4	with serrated jaws	145
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Telephone pliers snipe nose, long
straight jaws, with cutting edge for hard wire

3-245-1	200	8	with serrated jaws	190
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Telephone pliers snipe nose,
long bent jaws, with cutting edge for hard wire

3-255-1	200	8	with serrated jaws	180
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FLAT AND ROUND NOSE PLIERS

Lap joint, Special steel 
Chrome-plated, polished
With BERNSTEINIT-handguard (-1)

Flat nose pliers with short jaws

3-511-1	120	4 3/4	with serrated jaws	70
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Round nose pliers with long jaws

3-522-1	140	5 1/2	with serrated jaws	130
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Flat nose pliers with long jaws

3-531-1	140	5 1/2	with serrated jaws	100
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3-532-1	160	6 1/4	with serrated jaws	125
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3-205-1



3-215-1



3-225-1



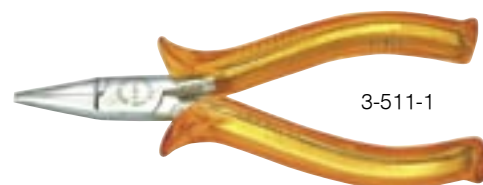
3-235-1



3-245-1



3-255-1



3-511-1



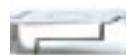
3-522-1



3-531-1

SPECIAL ELECTRONIC PLIERS

Lap joint



Special steel

Chrome-plated, bright polished

With transparent insulation

CUTTING PLIERS

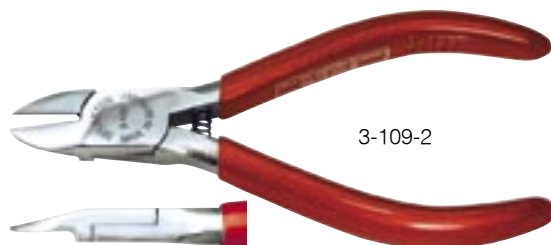


3-108-2

Side cutters

with wide, pointed head,
special flat cutting edge,
compression spring,
for flush cutting, for soft wire only

No.	Length mm	Inches	Finish	Cutting capacity mm Ø Soft wire	Hard wire	Weight g
3-108-2	120	4 3/4	without side face	1.5	-	90



3-109-2

Side cutters

with wide, rounded head,
special flat cutting edge,
compression spring,
for flush cutting, for soft wire only

3-109-2	120	4 3/4	without side face	1.5	-	90
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3-111-2

Side cutters

with slim, pointed head,
special flat cutting edge,
double leaf spring,
for flush cutting, for soft wire only

3-111-2	120	4 3/4	without side face	0.8	-	70
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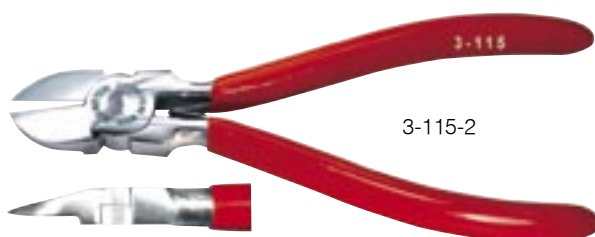


3-112-2

Side cutters

with slim, rounded head,
double leaf spring,
for flush cutting,
for soft wire only

3-112-2	120	4 3/4	without side face	1.0	-	70
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3-115-2

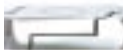
Special side cutters

for plastic, with rounded head,
special flat cutting edge,
double leaf spring, for flush cutting
of plastic sprues, circuit boards etc.

3-115-2	145	5 3/4	without side face	-	-	130
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CUTTING PLIERS, COMBINATON PLIERS, ADJUSTING PLIERS

Special steel, Chrome-plated, bright polished
With BERNSTEINIT-handguard (-1)

No.	Length		Finish	Cutting capacity mm Ø		Weight g
	mm	inches		Soft wire	Hard wire	
Side cutters			lap joint			
swedish design						
3-131	120	4 3/4	chrome-plated, polished	1.5	0.8	90
3-131-1	120	4 3/4	with BERNSTEINIT-ins.	1.5	0.8	110
3-132	130	5 1/8	chrome-plated, polished	2.0	1.0	110
3-132-1	130	5 1/8	with BERNSTEINIT-ins.	2.0	1.0	130
3-133	145	5 3/4	chrome-plated, polished	2.5	1.25	120
3-133-1	145	5 3/4	with BERNSTEINIT-ins.	2.5	1.25	160



3-132-1

Power side cutters lay-on joint
powerful, handy model,
with excellent cutting capacity
for steel wire, special steel

3-141	145	5 3/4	chrome-plated, polished	2.5	1.25	150
3-141-1	145	5 3/4	with BERNSTEINIT-ins.	2.5	1.25	170
3-142	160	6 1/4	chrome-plated, polished	3.0	1.5	210
3-142-1	160	6 1/4	with BERNSTEINIT-ins.	3.0	1.5	240



3-141-1

Combination pliers lap joint
with wire cutter, for hard wire

No.	Length		Finish	Weight g
	mm	inches		
3-715	115	4 1/2	chrome-plated, polished	70
3-715-1	115	4 1/2	with BERNSTEINIT-insulation	80
3-731	140	5 1/2	chrome-plated, polished	135
3-731-1	140	5 1/2	with BERNSTEINIT-insulation	140
3-732	165	6 1/2	chrome-plated, polished	190
3-732-1	165	6 1/2	with BERNSTEINIT-insulation	200
3-733	180	7	chrome-plated, polished	225
3-733-1	180	7	with BERNSTEINIT-insulation	240



3-732-1

Adjusting pliers lap joint
straight, flat and wide

3-335	135	5 1/2	chrome-plated, polished,	70
3-335-1	135	5 1/2	with BERNSTEINIT-insulation	90



3-335-1

Adjusting pliers lap joint
straight, pointed nose

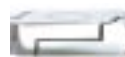
3-345	135	5 1/2	chrome-plated, polished,	70
3-345-1	135	5 1/2	with BERNSTEINIT-insulation	90



3-345-1

WIRE STRIPPERS

Lap joint
Special steel



No.	Length mm	Length inches	Finish	Weight g
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"Record" wire strippers

Spring system enables safe working with automatic adjustment to the wire size.
Easy to use: insert wire - close pliers - remove insulation

3-805-4	160	6 1/4	for wire thicknesses from 0.5 to 5 mm Ø nickel-plated with BERNSTEINIT-insulation	175
3-806-4	160	6 1/4	for wire thicknesses from 0.3 to 1.2 mm Ø nickel-plated with BERNSTEINIT-insulation	175

Wire strippers with adjusting screw

for all wire thicknesses, with compression spring

3-815-1	155	6 1/8	chrome plated polished with BERNSTEINIT-insulation	165
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Wire strippers for use in electronics

especially narrow and slim, with internal adjusting screw and compression spring

3-835-2	160	6 1/4	chrome-plated, polished with transparent insulation	115
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PRESSING PLIERS

Lay-on joint
Carbon steel



Pressing pliers for multicore cable end

combined with cable cutter and stripping-prism for different cable dimensions for sleeves of 0.25 - 2.5 mm².

3-871-6	155	6	nickel-plated, with red insulation	165
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Pressing pliers for multicore cable end

combined with cable cutter and stripping-prism for different cable dimensions for sleeves of 0.50 - 16.0 mm².

3-875-6	225	9	nickel-plated, with red insulation	285
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WATER PUMP PLIERS

Miniature water pump pliers with 3 adjustments

3-565	130	5 1/8	chrome-plated, polished	60
3-565-1	130	5 1/8	with BERNSTEINIT-insulation	80

Water pump pliers

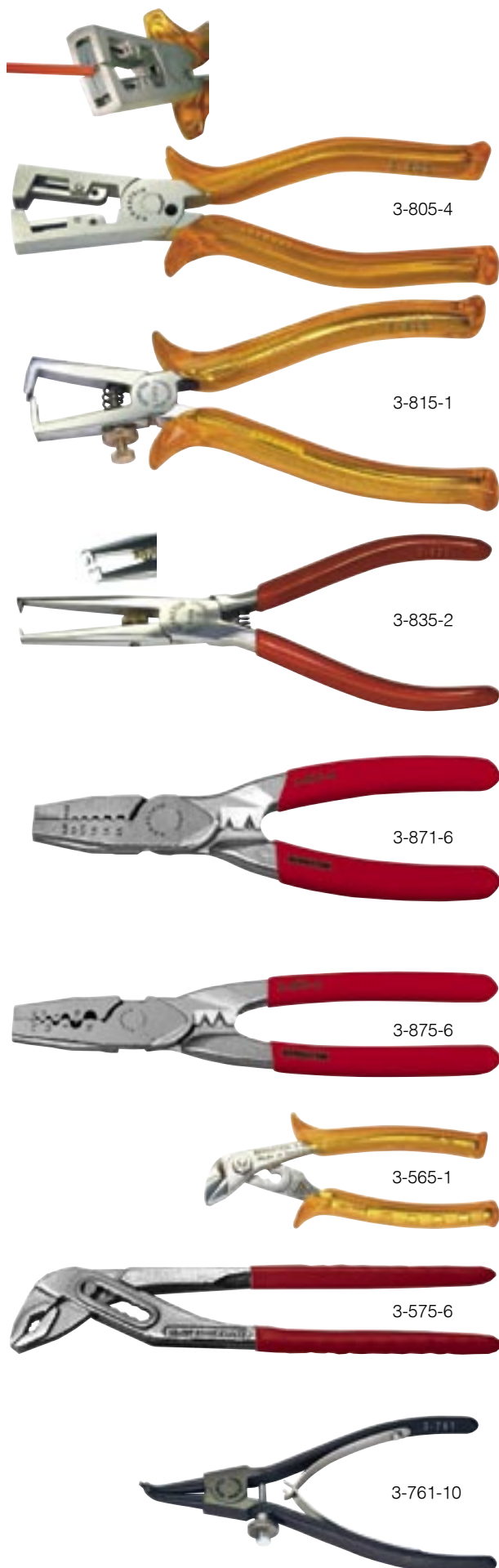
3-574-1	175	6 3/4	matt chrome-plated with BERNSTEINIT-insulation	180
3-575-6	240	9 1/2	nickel-plated, red insulation	380

SPECIAL ASSEMBLY PLIERS

Model with adjusting screw and sprung handles

45° angular, for clamping rings on shafts without grooves 1.5-2.8 mm

3-761-10	140	5 1/2	fine burnished	95
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INOX HIGH-GRADE STEEL PLIERS

For use in cleanrooms (autoclavable)
Antiseptic or in ESD protected areas

Stainless steel, Swaged, Box joint construction 

With screwed stainless double leaf spring
Extremely fine polished, abrasionproof, easy to clean

On request with inserted carbid cutting edges
On request with ESD handguard

The perfect pliers for works in following industries:

Aerospace - chemical - electronic-

Medical and dental technique - food production-

Shipbuilding - oil and gas production

CUTTING PLIERS

No.	Length		Finish	cutting capacity mm Ø			Weight g
	mm	inches		Copper-wire	Soft wire	Hard wire	

Side cutters

with very slim rounded head
for finest operations

33-115	110	4 3/8	without side face	1.1	0.4	-	36
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Side cutters

with very slim rounded head

33-215	115	4 1/2	with side face	1.1	0.6	0.2	53
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TOP CUTTERS

Oblique top cutters

straight head, flush cutting

33-135	110	4 3/8	without side face	0.8	0.6	0.2	40
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Top end cutters

bent, extremely slim, flush cutting

33-235	120	4 3/4	without side face	0.4	0.2	-	43
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SHIPE NOSE AND FLAT PLIERS

Shipe nose pliers

extremely slim, straight, short jaws

33-255	120	4 3/4	with plain jaws				43
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Flat nose pliers

extremely slim, straight, short jaws

33-275	120	4 3/4	with plain jaws				44
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SET OF ELECTRONICS PLIERS

33-100 **BERNSTEIN** Set of INOX steel pliers

3-piece set INOX high grade steel pliers in a wallet of nylon

No.	Description of individual tools	Weight: 220 g
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33-215	Side cutters , 115 mm, with side face	
33-255	Shipe nose pliers , 120 mm, plain jaws	
33-275	Flat nose pliers , 120 mm, plain jaws	



33-115



33-215



33-135



33-235



33-255



33-275





SAFETY INSULATED PLIERS

Produced in accordance with specification EN 60.900 of the Association of German Electrical Engineers (VDE).

Permissible voltage at which the VDE pliers can be used:
1000 V a.c. or 1500 V d.c.

Bicoloured VDE multicomponent safety insulation

No.	mm	Length inches	Finish	Weight g
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Side cutters

for steel wire up to 1.6 mm Ø, swedish design, special steel

3-134 VDE	160	6 1/4	chrome-plated, polished, with VDE safety insulation	220
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Power side cutters

for steel wire up to 1.6 mm Ø, special steel

3-142 VDE	165	6 1/2	chrome-plated, polished, with VDE safety insulation	250
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Telephone pliers

snipe nose, long, straight jaws, with cutting edge for hard wire,
serrated jaws, special steel

3-244 VDE	165	6 1/2	chrome-plated, polished, with VDE safety insulation	150
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3-245 VDE	205	8	chrome-plated, polished, with VDE safety insulation	210
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Telephone pliers

snipe nose, long, bent jaws, with cutting edge for hard wire,
serrated jaws, special steel

3-254 VDE	165	6 1/2	chrome-plated, polished, with VDE safety insulation	150
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3-255 VDE	205	8	chrome-plated, polished, with VDE safety insulation	220
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Round nose pliers

with long, round, serrated jaws

3-541 VDE	165	6 1/2	chrome-plated, polished, with VDE safety insulation	200
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Flat nose pliers

with long, flat, serrated jaws

3-545 VDE	165	6 1/2	chrome-plated, polished, with VDE safety insulation	220
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Combination pliers

with wire cutter, for hard wire up to 1.6 mm Ø

3-732 VDE	165	6 1/2	chrome-plated, polished, with VDE safety insulation	220
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3-733 VDE	185	7 1/4	chrome-plated, polished, with VDE safety insulation	260
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„Record“ wire strippers

with automatic adjusting to the wire size,
for wire thicknesses from 0.5 to 5 mm Ø

3-805 VDE	165	6 1/2	chrome-plated, polished, with VDE safety insulation	200
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Wire strippers

with adjusting screw

3-815 VDE	160	6 1/4	chrome-plated, polished, with VDE safety insulation	190
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SAFETY INSULATED PLIERS

Insulated and piece-checked in accordance with specification EN 60.900 of the Association of German Electrical Engineers (VDE) Permissible voltage at which the VDE pliers can be used: 1000 V a.c. or 1500 V d.c.



EN
60.900

No.	mm	Length Zoll	Finish	Weight g
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Side cutters

Special steel, cutting capacity: 13-906 VDE for steel wire up to 1.6 mm Ø
13-908 VDE for steel wire up to 2.0 mm Ø

13-906 VDE	160	6 1/4	chrome-plated, polished, with safety insulation	210
13-908 VDE	180	7	chrome-plated, polished, with safety insulation	290

Telephon pliers

snipe nose, long, straight jaws, with cutting edge for hard wire up to 1.6 mm Ø, serrated jaws, special steel

13-915 VDE	160	6 1/4	chrome-plated, polished, with safety insulation	155
13-917 VDE	200	8	chrome-plated, polished, with safety insulation	220

Telephon pliers

snipe nose, long, bent jaws, with cutting edge for hard wire up to 1.6 mm Ø, serrated jaws, special steel

13-916 VDE	160	6 1/4	chrome-plated, polished, with safety insulation	150
13-918 VDE	200	8	chrome-plated, polished, with safety insulation	220

Round nose pliers

with long, round, serrated jaws

13-926 VDE	160	6 1/4	chrome-plated, polished, with safety insulation	140
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Flat nose pliers

with long, flat, serrated jaws

13-927 VDE	160	6 1/4	chrome-plated, polished, with safety insulation	180
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Combination pliers

with wire cutter for hard wire up to 1.6 mm Ø

13-936 VDE	160	6 1/4	chrome-plated, polished, with safety insulation	220
13-937 VDE	185	7 1/4	chrome-plated, polished, with safety insulation	280
13-938 VDE	205	8	chrome-plated, polished, with safety insulation	350

Wire strippers

with adjusting screw

13-946 VDE	160	6 1/4	chrome-plated, polished, with safety insulation	190
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SAFETY INSULATED PLIERS

Insulated and piece-checked in accordance with specification EN 60.900 of the Association of German Electrical Engineers (VDE). Permissible voltage at which the safety pliers can be used: 1000 V a.c. or 1500 V d.c.

Two-colour multilayered insulation, outside red - inside yellow. Damages of the external red insulation immediately become visible by the yellow layer below.

The advantage: simple safety control, practical at any time



13-106 VDE

No.	mm	Length inches	Finish	Weight g
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Side cutters

special steel, cutting capacity: 13-106 VDE for steel wire up to 1.6 mm Ø
13-108 VDE for steel wire up to 2.0 mm Ø

13-106 VDE	165	6 1/4	chrome-plated, polished, with VDE safety insulation	200
13-108 VDE	195	7 3/4	chrome-plated, polished, with VDE safety insulation	300



13-207 VDE

Telephone pliers

snipe nose, long, straight jaws, with cutting edge for hard wire up to 1.6 mm Ø, serrated jaws, special steel

13-207 VDE	205	8	chrome-plated, polished, with VDE safety insulation	230
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13-506 VDE

Telephone pliers

snipe nose, long, bent jaws, with cutting edge for hard wire up to 1.6 mm Ø, serrated jaws, special steel

13-208 VDE	205	8	chrome-plated, polished, with VDE safety insulation	230
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13-516 VDE

Round nose pliers

with long, round, serrated jaws

13-506 VDE	165	6 1/2	chrome-plated, polished, with safety insulation	200
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Flat nose pliers

with long, flat, serrated jaws

13-516 VDE	165	6 1/2	chrome-plated, polished, with safety insulation	210
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13-707 VDE

Combination pliers

with wire cutter, for hard wire up to 1.6 mm Ø

13-707 VDE	190	7 1/2	chrome-plated, polished, with VDE safety insulation	210
13-708 VDE	210	8 1/4	chrome-plated, polished, with VDE safety insulation	340



13-806 VDE

Wire strippers

with adjusting screw

13-806 VDE	165	6 1/2	chrome-plated, polished, with VDE safety insulation	210
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CRIMPING PLIERS FOR MODULAR CONNECTORS

No.	Length		for connector types / finish	Weight g
	mm	inches		
Crimping pliers				
solid metal type, with interchangeable blades, spring and closed lock, for cutting, cable stripping and crimping of the most current connector types				
3-0601	190	7 1/2	4P4C, 4P2C	215
3-0602	190	7 1/2	6P6C / RJ-12, 6P4C / RJ-11, 6P2C	220
3-0603	200	8	8P8C / RJ-45	260

Combination crimping pliers

solid metal pliers, with interchangeable blades, spring and closed lock, for cutting, cable stripping and crimping

3-0605	200	8	6P6C, 6P4C, 6P2C, 8P8C	320
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Universal crimping pliers

light execution, ergonomically formed plastic casing, for cutting, cable stripping and crimping

3-0609	200	8	4P4C, 4P2C, 7.65 mm 6P6C / RJ-12, 6P4C / RJ-11, 9.65 mm, 8P8C / RJ-45, 11.68 mm, DEC 6P6C	570
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Replacement blades

4 blades for stripper and 2 blades for cutter

3-0609-00	1 Set blades
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Crimping pliers

for BNC- and TNC-coaxial connectors, with forced locking device and automatic release, for inner contacts and outside sleeves

Pressing range			Crimping length	Inner-Ø
Hexagon for all inner contacts			2.3 mm	.068" 1.72 mm
Small hexagon for RG 58			10.0 mm	.213" 5.41 mm
Medium-sized hexagon for RG 59/62			10.0 mm	.256" 6.50 mm
Large hexagon RG 6			10.0 mm	.319" 8.10 mm
3-0611	220	8 3/4	burnished-insulated	530

Crimp tool

for insulated and uninsulated terminals

3-0856	230	9 1/4	black-insulated	295
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CUTTING TOOLS

No.	Length		Finish	Weight g
	mm	inches		

Cabel cutters

especially for coaxial cable, robust execution with closed lock, for cable up to 10.5 mm Ø

3-0648	160	6 1/4	burnished-insulated	150
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Electronics side cutters

with spring, without side face, for CU-wires up to 1.0 mm Ø

3-0641	130	5 1/8	burnished-insulated	70
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Stripping side cutters

standard-execution, without side face, with spring, for CU-wires up to 0.8 mm Ø

3-0645	125	5	burnished-insulated	60
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3-0602



3-0605



3-0609



3-0611



3-0856



3-0648



3-0641



3-0645



SPECIAL-TWEEZERS FOR THE SMD-TECHNIQUE

high precision tweezers from special steel
stainless – matt finish – anti-magnetic – acid-resisting
- alternative with ESD coating (-13) -



No.	Length		Finish	Weight
	mm	inches		
5-049	110	4 3/8"	straight, very sharply pointed	12 g
5-049-13	110	4 3/8"	as above, with ESD coating	12 g
5-051	115	4 1/2"	straight pointed	15 g
5-051-13	115	4 1/2"	as above, with ESD coating	15 g
5-052	110	4 3/8"	bent, very sharply pointed	13 g
5-052-13	110	4 3/8"	as above, with ESD coating	13 g
5-059	120	4 3/4"	flat, rounded tips, 2.0 mm width	15 g
5-059-13	120	4 3/4"	as above, with ESD coating	15 g
5-078	130	5 1/8"	tapering, chisel, 1.0 mm width	16 g
5-078-13	130	5 1/8"	as above, with ESD coating	16 g
5-053	110	4 3/8"	obliquely angled, very sharply pointed	13 g
5-053-13	110	4 3/8"	as above, with ESD coating	13 g
5-054	120	4 3/4"	sickle-shape-curved, very sharply pointed	16 g
5-054-13	120	4 3/4"	as above, with ESD coating	16 g
5-055	120	4 3/4"	sickle-shaped, very sharply pointed	15 g
5-055-13	120	4 3/4"	as above, with ESD coating	15 g
5-056	120	4 3/4"	slightly bent, very sharply pointed	15 g
5-056-13	120	4 3/4"	as above, with ESD coating	15 g
5-057	120	4 3/4"	self-locking, straight-pointed	13 g
5-058	120	4 3/4"	self-locking, bent, pointed	13 g

SPECIAL-TWEEZERS FOR THE SMD-TECHNIQUE

high precision tweezers from special steel
stainless – matt finish – anti-magnetic – acid-resisting
- alternative with ESD coating (-13) -

No.	Length		Finish	Weight
	mm	inches		
5-061	115	4 1/2"	bent, flat rounded tips	16 g
5-062	115	4 1/2"	35° angled, 2.0 mm width, with gripping cavity Ø 0.8 mm	16 g
5-062-13	115	4 1/2"	as above, with ESD coating	16 g
5-063	115	4 1/2"	35° angled, 3.5 mm width, with gripping cavity Ø 0.8 mm	16 g
5-063-13	115	4 1/2"	as above, with ESD coating	16 g
5-065	120	4 3/4"	straight, 3.0 mm width with gripping cavity Ø 0.8 mm	16 g
5-065-13	120	4 3/4"	as above, with ESD coating	16 g
5-066	120	4 3/4"	30° angled, 2.5 mm width	15 g
5-066-13	120	4 3/4"	as above, with ESD coating	15 g
5-067	120	4 3/4"	tip 45° angled, 2.0 mm width	15 g
5-067-13	120	4 3/4"	as above, with ESD coating	15 g
5-068	120	4 3/4"	tip angled, 1.6 mm width	13 g
5-068-13	120	4 3/4"	as above, with ESD coating	13 g
5-071	85	3 3/8"	thin, straight-pointed	8 g
5-073	140	5 1/2"	long-thin, straight, very sharply pointed	13 g
5-073-13	140	5 1/2"	as above, with ESD coating	13 g
5-075	140	5 1/2"	straight, very sharply pointed, grip surface offset	13 g
5-076	120	4 3/4"	rigid, straight, pointed	19 g
5-076-13	120	4 3/4"	as above, with ESD coating	19 g
5-077	130	5 1/8"	round, tapering, pointed	16 g
5-077-13	130	5 1/8"	as above, with ESD coating	16 g



ELECTRONIC-TWEEZERS

No.	Length		Finish	Weight
	mm	inches		

Component tweezers

made from steel, with insulated jaws, a special tool for easy insertion and removal of plug-in transistors of various sizes

5-006	140	5 1/2"	nickel-plated	23 g
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Component tweezers

made from steel, with semi-circular jaws, 5 mm wide, to facilitate the insertion and removal of horizontally positioned components of various sizes

5-007	140	5 1/2"	nickel-plated	25 g
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Component tweezers

made from steel, with jaws bent inwards at right angles, 5 mm wide, to facilitate the removal of round or cube-shaped components

5-008	140	5 1/2"	nickel-plated	23 g
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Component tweezers

made from steel, with insulated jaws, 5.5 mm wide, for gripping flat components

5-009	140	5 1/2"	nickel-plated	22 g
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Heat dissipating tweezers

made from steel, for use when soldering transistors, gold-bonded diodes etc., the flat, wide points of the tweezers are narrow and provided with copper jaws

5-115	165	6 1/2"	nickel-plated	35 g
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Jewellerie's tweezers

made from steel, fine-rounded tips, with X-serration

5-119	140	5 1/2"	nickel-plated	19 g
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Sheet-metal tweezers

straight, flat and pointed

5-125	110	4 3/8"	nickel-plated	12 g
5-125-1	110	4 3/8"	polished, with antiallergical coating	15 g

Sheet-metal tweezers

with sliding fastener for a firm grip, straight, with narrow pointed tips

5-126	160	6 1/4"	nickel-plated	22 g
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IC-tweezers

for gripping, insertion and removal of IC's

2-601	125	5"	nickel-plated	20 g
2-601-13	125	5"	with ESD coating	20 g

Lightning tweezers

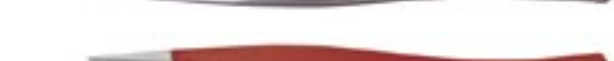
Nickel-plated steel-tweezers with **LED light**

The lightning tweezers is focussing the light to the working area at the tweezers tips enabling optimal visibility e. g. for positioning of smallest components without additional light source.

Power supply: 2 x 3 Voltage Lithium Batteries

when pressing the tweezers jaws the LED light will be switched on

5-171	120	4 3/4"	straight, pointed, finely serrated	39 g
5-172	120	4 3/4"	with fine bent tips	39 g



ELECTRONIC-TWEEZERS

No.	Length		Finish	Weight
	mm	inches		
Engineer's tweezers made from steel, with fine, bent tips, finely serrated				
5-107	150	6"	nickel-plated	20g
5-107-1	150	6"	polished, with antiallergical coating	23 g
5-107-6	150	6"	nickel-plated, strong PVC-insulated	27 g
5-107 VDE	150	6"	with VDE insulation, 1000V	37 g
5-107-9	150	6"	teflon-coated	22 g

Engineer's tweezers made from steel, heavy type, straight, flat and wide, tips with serration				
5-117	145	5 3/4"	nickel-plated	25 g
5-117-1	145	5 3/4"	polished, with antiallergical coating	26 g
5-117-6	145	5 3/4"	nickel-plated, strong PVC insulated	31 g
5-117 VDE	145	5 3/4"	with VDE insulation, 1000V	39 g
5-117-9	145	5 3/4"	teflon-coated	29 g

Engineer's tweezers made from steel, straight, with narrow pointed tips, finely serrated				
5-121	120	4 3/4"	nickel-plated	14 g
5-121-1	120	4 3/4"	polished, with antiallergical coating	14 g
5-121-6	120	4 3/4"	nickel-plated, strong PVC-insulated	17 g
5-121-9	120	4 3/4"	teflon-coated	13 g
5-122	155	6 1/8"	nickel-plated	24 g

Crossed tweezers (self-locking tweezers) made from steel, jaws 5 mm wide, finely serrated				
5-155	160	6 1/4"	polished-nickel-plated	35 g
5-155-1	160	6 1/4"	polished, with antiallergical coating	36 g

Crossed soldering tweezers (self-locking tweezers) made from steel, with bent tips and gripping well hand guard				
5-156	160	6 1/4"	polished-nickel-plated	29 g





SETS OF SPECIAL TWEEZERS in wallets of recycable nylon

5-030 **3-piece set of electronic tweezers from titan**

matt-stainless - super-light - immunity to corrosion - acid-resistant - solder-repellent - antibacterial - especially conductive - non-reflective

Weight: 60 g

No.	Description of individual tools
5-031	Titan-tweezers , sharply pointed, 110 mm
5-036	Titan-tweezers , straight, round, wide, 145 mm, with serration
5-037	Titan-tweezers , fine bent tips, 150 mm



5-110 **3-piece set of Engineer's Tweezers**

made from steel - nickel-plated

Weight: 95 g

No.	Description of individual tools
5-107	Engineer's tweezers , fine, bent tips, finely serrated, 150 mm
5-121	Engineer's tweezers , narrow pointed tips, finely serrated, 120 mm
5-155	Crossed tweezers , (self-locking) jaws 5 mm wide, finely serrated, 160 mm

5-100 **12-piece set special tweezers and tools**

Weight: 360 g

No.	Description of individual tools
2-126	Desoldering lever , slotted at one end, with plastic handle, 115 mm
2-127	Tin knife with plastic handle , 115 mm
2-601	IC-tweezers , nickel-plated, 125 mm, for gripping, inserting and removing of IC,s
5-006	Component tweezers , nickel-plated, with insulated jaws, a special tool for easy insertion and removal of plug-in transistors of various sizes, 140 mm
5-107	Engineer's tweezers , made from steel, with bent tips, nickel-plated, 150 mm
5-107-6	Engineer's tweezers , as above, strong PVC-insulation
5-115	Heat dissipating tweezers , nickel-plated, 165 mm, for soldering transistors, gold-bonded diodes etc.
5-117	Engineer's tweezers , straight, flat, wide, nickel-plated, 145 mm
5-117-6	Engineer's tweezers , as above, strong PVC-insulation
5-121	Engineer's tweezers , straight, with narrow pointed tips, 120 mm, nickel-plated
5-078	Anti-magnetic tweezers , tapering chisel, 1.0 mm width, matt finish, stainless and acid-resistant, 130 mm
5-156	Crossed soldering tweezers , (self-locking tweezers), made from steel, with bent tips and gripping well hand-guard, nickel-plated, 160 mm



SPECIAL – TWEEZERS FOR THE SMD – TECHNIQUE

high precision tweezers from special steel
stainless - matt finish - anti-magnetic - acid-resisting

5-060 6-piece set ESD-Tweezers for the SMD-Technique

with black **ESD-coating**,
in a wallet made from **conductive** material

The tweezers have been tested with good results adequate to DIN EN 61340-5-1, 61340-2-1, 61340-2-3 for work in ESD-protected areas.

Weight: 155 g

No.	Description of individual tools
-----	---------------------------------

- | | |
|----------|---|
| 5-049-13 | SMD-tweezers , straight, very sharply pointed, 110 mm |
| 5-055-13 | SMD-tweezers , sickle-shaped, very sharply pointed, 120 mm |
| 5-059-13 | SMD-tweezers , flat, rounded tips, 2 mm width, 120 mm |
| 5-067-13 | SMD-tweezers , tip 45° angled, 2,0 mm width, 120 mm |
| 5-068-13 | SMD-tweezers , tip angled, 1,6 mm, 120 mm |
| 5-078-13 | SMD-tweezers , tapering, chisel, 1,0 mm width, 130 mm |



5-050 6-piece set of special tweezers for the SMD-technique

matt finish - non-reflective -

Weight: 135 g

No.	Description of individual tools
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- | | |
|-------|--|
| 5-051 | SMD-tweezers , straight pointed, 115 mm |
| 5-052 | SMD-tweezers , bent, very sharply pointed, 110 mm |
| 5-054 | SMD-tweezers , sickle-shaped curved, very sharply pointed, 120 mm |
| 5-058 | SMD-tweezers , crossed, bent, pointed, 120 mm |
| 5-061 | SMD-tweezers , bent, flat tips 2 mm wide, 115 mm |
| 5-062 | SMD-tweezers , bent, flat tips, with gripping cavity, 115 mm |





5-190



ESD TWEEZERS

made from **antistatic**, black plastic material, reinforced with glass fibre, conductive and acid-resistant

No.	mm	Length		Finish	Weight
		mm	inches		
5-191	120		4 3/4"	straight, rounded tips	5 g
5-192	120		4 3/4"	straight, 3 mm flat-hand tips, grip surface offset	4 g
5-193	120		4 3/4"	straight, 6 mm flat, and wide tips	5 g
5-194	120		4 3/4"	bent, pointed tips	5 g
5-195	120		4 3/4"	straight, pointed tips, grip surface offset	4 g

5-190 6-piece set of ESD tweezers

in a practical table support from **conductive** material

Contents: 5 tweezers made from conductive black plastic material, No. 5-191, 5-192, 5-193, 5-194, 5-195
1 tweezers with ceramic tips No. 5-095

Weight: 125 g

5-090 5-piece set of ESD tweezers

in a practical table support from **conductive** material

Contents: 5 tweezers made from conductive black plastic material, No. 5-191, 5-192, 5-193, 5-194, 5-195

Weight: 94 g



TWEEZERS FROM CERAMIC

Ceramic tweezers meet highest standards due to their excellent mechanical, thermic and electrical features, non magnetic, antistatic, acid-resistant and alkaliproof, solder-repellent and heat-resistant.

Ceramic tweezers (each separately in a plastic case)

5-081	130	5 1/8"	straight, pointed	15 g
5-082	130	5 1/8"	straight, microscopic-pointed	16 g

Ceramic-tipped tweezers (each separately in a plastic case)

5-095	130	5 1/8"	especially slim and pointed	6 g
5-096	130	5 1/8"	slim, 2mm flat tips	6 g

TITAN TWEEZERS

Tweezers made from Titan are for highest demands, have a light weight, immunity to corrosion, even to aggressive acids, they are antimagnetic, antibacterial, solder-repellent, and non-reflective.

The melting point is 1677°C.

5-031	110	4 3/8"	matt-stainless, sharply pointed	9 g
5-035	120	4 3/8"	matt-stainless, sharply pointed	9 g
5-036	145	5 3/4"	matt-stainless, straight - round - wide tips with fine serration	15 g
5-037	150	6 "	matt-stainless, fine bent tips	12 g



FILES – SCISSORS

No.	Length		Finish	Weight
	mm	inches		

Needle files without handle

5-201	140	5 1/2"	flat-hand	7 g
5-202	140	5 1/2"	flat-entering	6 g
5-203	140	5 1/2"	round	6 g
5-204	140	5 1/2"	half round	6 g
5-205	140	5 1/2"	three square	6 g
5-206	140	5 1/2"	square	6 g

5-210 6-piece set of needle files

No. 5-201 – 5-206 in plastic wallet 50 g

Warding files with wooden handle

overall length 175 mm – 6 3/4"

5-231	100	4"	flat-hand	17 g
5-232	100	4"	flat-entering	14 g
5-233	100	4"	round	13 g
5-234	100	4"	half round	27 g
5-235	100	4"	three square	18 g
5-236	100	4"	square	15 g

5-240 6-piece set of warding files

No. 5-231 – 5-236 with wooden handle, in plastic wallet 115 g

Contact file

with fine cut

5-261	150	6"	flat-hand	9 g
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Engineer's files with wooden handle

heavy type, fine cut, overall length 320 mm – 13 1/4"

5-271	200	8"	flat-hand	155 g
5-274	200	8"	half round	155 g

Clamping scissors

made from stainless steel, with serrated gripping jaws

5-161	130	5 1/8"	polished	20 g
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Special-scissors for cutting sheet-metal and wires, jaws extremely slim, serrated, for precision work

5-301	110	4 3/8"	nickel-plated	27 g
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Universal cutting shears

for wires and thin sheet materials

5-306	180	7"	black-lacquered polished head	85 g
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Telephone and cable shears

with one serrated blade

5-308	125	5"	nickel-plated	67 g
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Domestic scissors

5-311	180	7"	nickel-plated, polished	80 g
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Ceramic blade scissors for cutting e.g. aramid yarns and fiber optic cables, plastik handles reinforced with glass-fibre

5-353	125	5"	Blade length 45 mm conductive handles	26 g
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SHEARS – SCISSORS – STRIPPING TOOLS

No.	Length mm	Length inches	Finish	Weight
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Ribbon cable cutter

made from steel, with handy plastic handles, for special cutting of ribbon cable, also suitable for cutting of ledges and profiles from plastic, with interchangeable one-way blade and plastic support with straight stop

5-307	220	8 3/4"	chrome-plated	300 g
5-307-1			cutting length 55 mm spare blade	3 g

Cable stripping shears

made from stainless steel, with handy plastic handles, compression spring, self-locking. The sheathing of round, flat and shield cables may be removed easily

5-309	190	7 1/2"	polished	125 g
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Combination cutters (general purpose cutters)

made from stainless steel, with serrated cutting edge, handy plastic handles and compression spring

5-304	190	7 1/2"	polished	120 g
5-305	140	5 1/2"	polished	60 g

Wire scraper tweezers

for stripping varnish or any other material on wires 0.6 mm Ø made from steel, with interchangeable cutters

5-181	130	5 1/8"	burnished	33 g
5-182		cutters (2 pieces)		2 g

Electrician's knife

with steel blade, wire scraper and wooden handle

5-501	200	8"	knife opened	77 g
	110	4 3/8"	knife closed	

Pocket knife

with one blade

5-511	180	7"	knife opened	44 g
	100	4"	knife closed	

Universal blade knife

made from plastic material with adjustable blade

5-515	140	5 1/2"		10 g
5-516		set of blades for 5-515 (10 pieces)		25 g
5-517	150	6"	heavy type	46 g
5-518		set of blades for 5-517 (10 pieces)		73 g

Rotary coaxial cable stripper

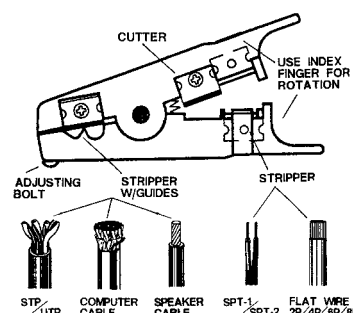
Handy plastic tool with adjustable cutters, for cable types RG 58, RG 59 and RG 62

5-0601	100	4"	black	51 g
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Universal stripping tool

Handy plastic tool with adjustable cutters, very easy to use
Weight: 47 g

5-0605	100	4"		
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STRIPPING TOOLS

No.	Length mm	Length inches	Working range / Finish	Weight
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Stripping and crimping tool

for easy stripping, crimping and cutting only with one tool, the special scanning system adjusts automatically to the wire diameter

5-532	160	6 1/4"	easy stripping from 0.5 to 6.0 mm ² stripping length 5 mm crimping ranges for terminals: 0.5 to 2.5 and 4.0 to 6.0 mm ² cutting capacity of the side cutters max. 6.0 mm ² , solid conductors max. 4.0 mm ²	115 g
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Coax cable stripper

for two-or-three-level stripping of all common coaxial cables (e.g. antenna- and transmission cables) and flexible cables

5-535	110	4 3/8"	coax cable from 4.8 to 7.5 mm outside-Ø for flexible cable 3 x 0.75 mm ² , 10 mm ² and 16 mm ²	30 g
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Round cable stripper

with ergonomical handles

5-536	125	5"	round and continental type cable from 8 to 13 mm Ø e.g. NYM 3 x 1.5 mm ² up to 5 x 2.5 mm ²	45 g
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Swivel-blade cable strippers

for accurate, fast and safe stripping of all common round cables of 4 - 28 mm Ø, cutting depth and adjustment via adjusting screw at end of handle, moving inner blade automatically adjusts itself from circular to longitudinal cuts

5-503	130	5 1/8"	without blade: 8 - 28 mm Ø	70 g
5-504	130	5 1/8"	without blade: 4 - 16 mm Ø	70 g
5-505	170	6 3/4"	hook blade: 4 - 28 mm Ø	80 g
5-506	180	7"	straight blade: 4 - 28 mm Ø	80 g



Automatic wire stripper Super

fully insulated automatic wire stripper for all common stranded and solid conductors of 0.2 - 6.0 mm², adjustable length stop of 5 - 12 mm, removable if required

5-531	200	8"	built-in side cutters for max. 2 mm Ø	105 g
15-531 VDE	200	8"	fibreglass re-enforced polyamide, fully insulated, approved for works on "hot" lines up to 1000 Volt	105 g

TORQUE-SCREWDRIVER EUROLINE-POWER

Ergonomical formed two-coloured-components handle

Handle: impact-resistant, two-coloured plastic, with slip off protection and practical hanging up hole
clear legible micrometer scale for a precise and perfect setting, torque adjusting without setting gauge

Torque mechanism: **wear-resistant** mechanism from hardened special steel, audible and touchable release signal

Lock mechanism: secure locking device by lock mechanism
(lock point = vernier line)

Actuating mechanism: system with changeable blades, left tightening with more or less unlimited removing, right tightening with adjusted torque

Torque screwdrivers can be recalibrated and are in accordance with EN ISO 6789:2003

Torque-Screwdriver

No.	measure range Nm	scale Nm	Fine scale mm	Drive inner hexagon mm	Length mm	Weight
4-561	0.5 - 1.5	0.25	0.05	4	153	137 g
4-562	1.5 - 4.0	0.50	0.10	4	153	137 g

TORQUE CHANGEABLE BLADES

Blade: chrome vanadium, hexagon material, A/F 4 mm, hardened over its full length, matt chrome-plated, black tip

Changeable Blades Slot

No.	Blade width mm	Blade thickness mm	Length mm	Weight
4-571	1.5	0.25	160	10 g
4-572	2.0	0.40	160	10 g
4-573	2.5	0.40	160	10 g
4-574	3.0	0.50	160	10 g

Changeable Blades Cross-recess

PH 

No.	Size	Length mm	Weight
4-582	PH 00	160	10 g
4-583	PH 0	160	10 g
4-584	PH 1	160	10 g

Changeable Blades Cross-recess Pozidriv

PZ 

4-588	PZ 0	160	10 g
4-589	PZ 1	160	10 g

Changeable Blades Torx

TX 

L = with bore-hole in the tip

No.	Size	for metric thread	Length mm	Weight
6-951	T 3	M 1.2 - 1.4	160	10 g
6-952	T 4	M 1.4 - 1.6	160	10 g
6-953	T 5	M 1.6 - 2.0	160	10 g
6-954	T 6	M 2.0	160	10 g
6-955 L	T 7 L	M 2.5	160	10 g
6-956 L	T 8 L	M 2.5	160	10 g

further shapes and sizes on request

ESD INTERCHANGEABLE SCREWDRIVER-SET

for special service

Practical tool rolls made from conductive material are equipped with double-ended screwdriver-blades and ESD handle with brass clamping sleeve, suitable for hexagon blades of A / F 4 mm

Blade: chrome vanadium, hexagon material, A / F 4 x 120 mm, hardened over its full length, matt chrome-plated, black tip

4-920 **BERNSTEIN** 9-piece interchangeable screwdriver set with ESD-handle

Contents: ESD-interchangeable handle
3 blades widths 1.5 / 3.0 mm, 2.0 / 3.5 mm, 2.5 / 4.0 mm
2 cross-recess blades PH 000 / PH 00, PH 0 / PH 1
3 TORX blades T 5 / T 6, T 7 L / T 8 L, T 9 L / T 10 L ("L" with bore hole)

Weight: 170 g

4-960 **BERNSTEIN** 11-piece interchangeable screwdriver set with ESD-handle

Contents: ESD-interchangeable handle
2 blades widths 1.5 / 3.0 mm, 2.0 / 4.0 mm,
2 cross-recess blades PH 000 / PH 00, PH 0 / PH 1
4 TORX blades T 3 / T 4, T 5 / T 6, T 7 L / T 8 L, T 9 L / T 10 L ("L" with bore hole)
2 Tri Wing / Four Wing blades TW 1 / FW 1, TW 2 / FW 2

Weight: 170 g



4-960

ESD SCREWDRIVERS

with special-square pattern handle from impact-resistant, **conductive** black plastic

Blade: chrome vanadium, hardened over its full length, matt chrome-plated, with black tip

Handle: impact-resistant, **conductive**, black plastic, electrostatic discharge according to DIN EN 100015/1

Screwdrivers

No.	Blade length mm	Blade width mm	Blade thickness mm	Handle size mm	Weight
4-632	100	4.0	0.8	92 x 21	40 g
4-633	125	5.5	1.0	100 x 23	65 g
4-643	300	5.5	1.2	100 x 23	100 g

Cross-recess screwdrivers

PH

No.	Size	Blade length mm	Blade Ø mm	Handle size mm	Weight
4-652	1	80	4.5	92 x 21	40 g
4-653	2	100	6.0	100 x 23	75 g

extra long screwdrivers

4-656	1	300	4.5	100 x 23	80 g
4-657	2	300	6.0	100 x 23	115 g

Cross-recess screwdrivers Pozidriv

PZ

4-662	1	80	4.5	92 x 21	40 g
4-663	2	100	6.0	100 x 23	70 g

Tri Wing screwdrivers

TW

6-641	TW 0	70	4.5	92 x 21	42 g
6-642	TW 1	70	4.5	92 x 21	42 g
6-643	TW 2	70	4.5	92 x 21	42 g
6-644	TW 3	70	4.5	92 x 21	42 g
6-645	TW 4	70	6.0	92 x 21	53 g
6-646	TW 5	70	6.0	92 x 21	54 g





ESD ELECTRONICS SCREWDRIVERS

with slim, ergonomically formed handles from black **conductive** plastic. The swivel top guarantees a precise working without exhaustion.

Blade: chrome vanadium, hardened over its full length, chrome-plated, with black tip

Handle: impact-resistant **conductive**, black plastic, electrostatic discharge according to DIN EN 100015/1



4-610



6-630

Screwdrivers

No.	Blade length mm	Blade width mm	Blade thickness mm	Blade Ø mm	Handle length mm	Weight
4-601	50	0.8	0.20	2.5	90	12 g
4-602	50	1.2	0.25	2.5	90	12 g
4-603	50	1.5	0.30	2.5	90	12 g
4-604	50	1.8	0.30	2.5	90	12 g
4-605	60	2.0	0.40	2.5	90	12 g
4-606	60	2.5	0.40	2.5	90	12 g
4-607	60	3.0	0.50	3.0	90	14 g

Cross-recess Screwdrivers

PH

No.	Size	Blade length mm	Blade Ø mm	Handle length mm	Weight
4-621	000	50	2.5	90	12 g
4-622	00	50	2.5	90	12 g
4-623	0	50	3.0	90	14 g

4-610 6-piece screwdriver set

in a practical table support from **conductive** material

Contents: 6 screwdrivers No. 4-601, 4-603, 4-604, 4-605, 4-606, 4-607

Weight: 145 g

4-620 6-piece screwdriver and cross-recess screwdriver set

in a practical table support from **conductive** material

Contents: 3 screwdrivers No. 4-602, 4-605, 4-607
3 cross-recess screwdrivers No. 4-621, 4-622, 4-623

Weight: 145 g

Wrench keys

No.	A/F mm	Blade length mm	Handle length mm	Weight
6-631	0.7	50	90	12 g
6-632	0.9	50	90	12 g
6-633	1.3	50	90	12 g
6-634	1.5	50	90	12 g
6-635	2.0	60	90	12 g
6-636	2.5	60	90	14 g

6-630 6-piece wrench key set

in a practical table support from **conductive** material

Contents: 6 wrench keys No. 6-631, 6-632, 6-633, 6-634, 6-635, 6-636

Weight: 145 g



ESD TORX SCREWDRIVERS AND SOCKET WRENCHES

with slim, ergonomically formed handles from black, **conductive** plastic. The swivel top guarantees a precise working without exhaustion.

Blade: chrome vanadium, hardened over its full length, chrome-plated, black tip, "L" with bore-hole in the tip

Handle: impact-resistant, **conductive** black plastic, electrostatic discharge according to DIN EN 100015/1

TORX-screwdrivers



No.	Size	Blade length mm	for metric thread	Handle length mm	Weight
6-656	T 1	50	M 0.9	90	12 g
6-657	T 2	50	M 1.0-1.2	90	12 g
6-658	T 3	50	M 1.2-1.4	90	12 g
6-659	T 4	50	M 1.4-1.6	90	12 g
6-661	T 5	50	M 1.6-2	90	12 g
6-662	T 6	50	M 2	90	16 g
6-663 L	T 7	50	M 2.5	90	16 g
6-664 L	T 8	60	M 2.5	90	16 g
6-665 L	T 9	60	M 3	90	19 g
6-666 L	T 10	60	M 3-3.5	90	21 g

extra long TORX screwdrivers with conductive special-square pattern handle

6-675 L	T 10	300	M 3-3.5	92 x 21	60 g
6-676 L	T 15	300	M 3.5-4	92 x 21	65 g
6-677 L	T 20	300	M 4-5	100 x 21	75 g



6-660



6-660 6-piece TORX-screwdriver set,

in a practical table support from **conductive** material

Contents: 6 TORX-screwdrivers No. 6-661, 6-662, 6-663, 6-664, 6-665, 6-666

Weight: 163 g

Socket wrenches



No.	A/F mm	Blade length mm	Handle length mm	Weight
6-611	1.5	70	90	15 g
6-612	2.0	70	90	15 g
6-613	2.5	70	90	18 g
6-614	3.0	70	90	18 g
6-615	3.2	70	90	18 g
6-616	3.5	70	90	18 g
6-617	4.0	70	90	18 g
6-618	4.5	70	90	19 g
6-619	5.0	70	90	19 g
6-621	5.5	70	90	20 g



6-610

6-610 6-piece socket wrench set

in a practical table support from **conductive** material

Contents: 6 Socket wrenches No. 6-612, 6-614, 6-617, 6-618, 6-619, 6-621

Weight: 180 g

SCREWDRIVERS

with special square pattern Bernstein handle

Blade: chrome vanadium, hardened over its full length,
chrome-plated, with black tip

Handle: from impact-resistant, transparent, amber coloured plastic

Screwdrivers to DIN 5265

No.	Blade length mm	Blade width mm	Blade thickness mm	Handle size mm	Weight
4-141	75	3.5	0.6	86 x 19	35 g
4-142	100	4.0	0.8	92 x 21	46 g
4-143	125	5.5	1.0	100 x 23	75 g
4-144	150	6.5	1.2	110 x 25	105 g
4-145	150	8.0	1.2	110 x 25	140 g

Very long screwdrivers

4-222	260	3.0	0.5	92 x 21	50 g
4-223	260	4.5	1.0	92 x 21	70 g
4-224	300	5.5	1.2	100 x 23	108 g

Cross-recess screwdrivers

PH ⊕

No.	Size	Blade length mm	Blade-Ø mm	Handle size mm	Weight
4-255	0	60	3.0	86 x 19	25 g
4-256	1	80	4.5	92 x 21	49 g
4-257	2	100	6.0	100 x 23	78 g
4-258	3	150	8.0	110 x 25	140 g

Very long cross-recess screwdrivers

4-227	1	300	4.5	100 x 23	90 g
4-228	2	300	6.0	100 x 23	125 g
4-229	3	300	8.0	110 x 25	195 g

Cross-recess screwdrivers Pozidriv

PZ ⊕

4-271	0	60	3.0	86 x 19	25 g
4-272	1	80	4.5	92 x 21	49 g
4-273	2	100	6.0	100 x 23	78 g
4-274	3	150	8.0	110 x 25	140 g

TORX-screwdrivers

"L" with bore-hole in the tip

⚙️ ⚙️

No.	Size	Blade length mm	for metric thread	Handle size mm	Weight
6-961	T 6	50	M 2	86 x 19	32 g
6-962	T 7	50	M 2.5	86 x 19	32 g
6-963	T 8	60	M 2.5	86 x 19	34 g
6-964 L	T 9	60	M 3	92 x 21	44 g
6-965 L	T 10	80	M 3-3.5	92 x 21	46 g
6-966 L	T 15	80	M 3.5-4	92 x 21	46 g
6-967 L	T 20	100	M 4-5	100 x 23	60 g
6-968 L	T 25	100	M 4.5-5	100 x 23	65 g
6-969 L	T 27	115	M 4.5-5-6	110 x 25	85 g
6-971 L	T 30	115	M 6-7	110 x 25	95 g

Very long TORX-screwdrivers

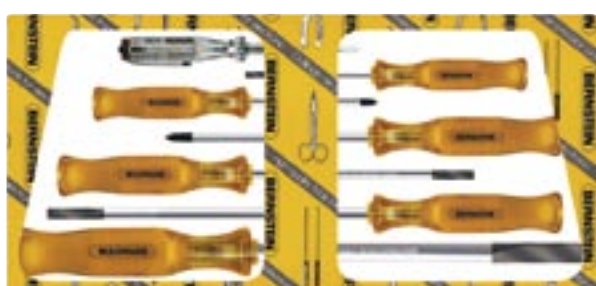
6-974	T 8	100	M 2.5	86 x 19	37 g
6-975 L	T 10	300	M 3-3.5	92 x 21	65 g
6-976 L	T 15	300	M 3.5-4	92 x 21	70 g
6-977 L	T 20	300	M 4-5	100 x 23	80 g

4-850 7-piece screwdriver set

with special square pattern Bernstein handles
visible packed in a carton box

Contents: 4 screwdriver each to DIN 5265
No. 4-141, No. 4-142, No. 4-143, No. 4-144,
2 cross-recess screwdriver pozidriv
No. 4-271, No. 4-272
and 1 voltage tester No. 4-343 VDE

Weight: 470 g



SCREWDRIVERS EUROLINE-POWER

with ergonomic formed 2 component handles (yellow-black)

Blade: chrom vanadium, hardened over its full length, matt chrome-plated, with black tip

Handle: impact-resistant, two-coloured plastic, with slip off protection and practical hanging up hole

Workshop-Screwdrivers

No.	Blade length mm	Blade length mm	Blade-Ø mm	Handle size mm	Weight
4-504	100	5.5	1.0	107 x 27	62 g
4-506	125	6.5	1.2	114 x 32	93 g
4-508	150	8.0	1.2	121 x 35	141 g
4-509	200	10.0	1.6	121 x 35	170 g

Electrician's Screwdrivers

No.	Blade length mm	Blade length mm	Blade-Ø mm	Handle size mm	Weight
4-521	75	2.5	0.4	100 x 21	26 g
4-522	100	3.0	0.5	100 x 21	27 g
4-523	100	4.0	0.8	100 x 21	36 g
4-524	150	5.5	1.0	107 x 27	74 g
4-525	200	5.5	1.0	107 x 27	80 g

Cross-recess screwdrivers

PH

No.	Size	Blade length mm	Blade-Ø mm	Handle size mm	Weight
4-532	0	60	3.0	100 x 21	28 g
4-533	1	80	4.5	107 x 27	55 g
4-534	2	100	6.0	114 x 32	90 g
4-535	3	150	8.0	121 x 35	160 g

Cross-recess screwdrivers Pozidriv

PZ

No.	Size	Blade length mm	Blade-Ø mm	Handle size mm	Weight
4-542	0	60	3.0	100 x 21	28 g
4-543	1	80	4.5	107 x 27	55 g
4-544	2	100	6.0	114 x 32	90 g
4-545	3	150	8.0	121 x 35	162 g

TORX-Screwdrivers

from size T 9 with bore-hole in the tip

☆ ☆

No.	Size	Blade length mm	for metric Thread	Handle size mm	Weight
6-979	T 5	55	M 1.6 - 2	100 x 21	25 g
6-981	T 6	65	M 2	100 x 21	29 g
6-982 L	T 7	65	M 2.5	100 x 21	29 g
6-983 L	T 8	75	M 2.5	100 x 21	29 g
6-984 L	T 9	75	M 3	100 x 21	29 g
6-985 L	T 10	85	M 3-3.5	100 x 21	32 g
6-986 L	T 15	85	M 3.5-4	100 x 21	34 g
6-987 L	T 20	100	M 4-5	100 x 21	35 g
6-988 L	T 25	100	M 4.5-5	107 x 27	57 g
6-989 L	T 27	105	M 4.5-5-6	107 x 27	63 g
6-991 L	T 30	115	M 6-7	114 x 32	90 g

4-530 7-piece screwdriver set

from the series EUROline-Power
visible packed in a carton box

Contents: 2 workshop-screwdriver No. 4-504, No. 4-506
2 electrician's-screwdriver No. 4-523, No. 4-524
2 cross-recess screwdriver PH No. 4-533, No. 4-534
and 1 voltage tester No. 4-343 VDE

Weight: 520 g



ELECTRONICS SCREWDRIVERS

with slim, ergonomically formed handles and swivel top

Blade: chrome vanadium, hardened over its full length, chrome-plated, with black tip

Handle: impact-resistant, grey plastic material, swivel top, amber-coloured

Screwdrivers

No.	Blade length mm	Blade width mm	Blade thickness mm	Blade Ø mm	Handle length mm	Weight
4-161	40	1.0	0.20	2.5	100	11 g
4-162	40	1.5	0.30	2.5	100	11 g
4-163	40	2.0	0.40	2.5	100	11 g
4-164	50	2.5	0.40	2.5	100	11 g
4-165	50	3.0	0.50	3.0	100	13 g
4-166	100	2.0	0.40	2.0	100	11 g
4-167	100	2.5	0.40	2.5	100	13 g
4-169	150	3.0	0.50	3.0	100	18 g

Cross-recess screwdrivers

PH

No.	Size	Blade length mm	Blade Ø mm	Handle length mm	Weight
4-281	000	40	2.5	100	11 g
4-282	00	40	2.5	100	11 g
4-283	0	50	3.0	100	13 g
4-284	1	60	4.0	100	23 g
4-285	1	150	4.0	100	27 g

TORX-Screwdrivers

L = with bore-hole in the tip



No.	Size	Blade length mm	for metric thread	Handle length mm	Weight
6-687	T 1	40	M 0,9	100	11 g
6-688	T 2	40	M 1,0-1,2	100	11 g
6-689	T 3	40	M 1,2-1,4	100	11 g
6-679	T 4	40	M 1,4-1,6	100	11 g
6-681	T 5	40	M 1,6-2	100	11 g
6-682	T 6	40	M 2	100	15 g
6-683 L	T 7	40	M 2,5	100	15 g
6-684 L	T 8	40	M 2,5	100	15 g
6-685 L	T 9	50	M 3	100	17 g
6-686 L	T 10	50	M 3-3,5	100	20 g

4-170 6-piece screwdriver and cross-recess screwdriver set

in a practical table support

Contents: 4 Screwdrivers No. 4-162, 4-163, 4-164 + 4-165
2 Cross-recess screwdrivers No. 4-282 + 4-283

Weight: 145 g

4-180 6-piece screwdriver and cross-recess screwdriver set

in a practical table support

Contents: 3 Screwdrivers No. 4-161, 4-162 + 4-163

3 Cross-recess screwdrivers No. 4-281, 4-282 + 4-283

Weight: 135 g

4-190 6-piece screwdriver and cross-recess screwdriver set

in a practical table support

Contents: 5 Screwdrivers No. 4-161, 4-162, 4-163, 4-164 + 4-165,

1 Cross-recess screwdriver No. 4-284

Weight: 150 g

6-680 6-piece TORX-Screwdriver set

in a practical table support

Contents: 6 TORX-Screwdrivers No. 6-681, 6-682, 6-683, 6-684, 6-685 + 6-686

Weight: 165 g



SCREWDRIVERS

Electrician's screwdrivers

Blade: chrome vanadium, plane-parallel, hardened over its full length, nickel-plated

Handle: impact-resistant, transparent yellow plastic

No.	Blade length mm	Blade width mm	Blade thickness mm	Handle size mm	Weight
4-201	75	3.0	0.4	80 x 16	21 g
4-202	100	3.0	0.4	80 x 16	23 g
4-203	150	3.0	0.4	90 x 18	31 g
4-204	100	4.0	0.5	90 x 18	34 g
4-205	150	4.0	0.6	98 x 21	49 g
4-206	150	5.0	0.8	98 x 21	58 g
4-207	200	5.0	0.8	98 x 21	66 g

Cross-recess screwdrivers

PH ⊕

Blade: chrome vanadium, hardened over its full length, nickel-plated

Handle: impact-resistant, transparent plastic

No.	Size	Blade length mm	Blade-Ø mm	Handle size mm	Weight
4-251	0	60	3.0	80 x 16	20 g
4-252	1	80	4.5	90 x 18	36 g
4-253	2	100	6.0	98 x 21	60 g
4-254	3	150	8.0	103 x 24	125 g

Chubby screwdrivers

⊖ ⊕

Blade: chrome vanadium, nickel-plated

Handle: impact-resistant, transparent plastic

4-261	01	25	4.5	55 x 30	30 g
4-262	02	25	6.0	55 x 30	35 g

No.	Blade length mm	Blade width mm	Blade thickness mm	Handle size mm	Weight
4-321	25	4.0	0.8	55 x 30	30 g
4-322	25	6.5	1.2	55 x 30	35 g

Miniature screwdriver

Blade: special steel, nickel-plated

Handle: transparent yellow plastic

4-301	40	1.8	0.5	45 x 9	3 g
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Screwdriver for grub screws

Blade: chrome vanadium, plane-parallel, nickel-plated

Handle: impact-resistant, transparent yellow plastic

4-311	80	2.8	0.6	60 x 11	12 g
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Mechanic's screwdriver

Blade: special steel, nickel-plated

Handle: impact-resistant, transparent plastic

4-331	45	6.0	1.0	80 x 16	38 g
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Screwdrivers with voltage tester (Export models)

No. 4-341 for 110 - 380 V, No. 4-342 for 100 - 500 V

Blade: chrome vanadium, nickel-plated, fully insulated

Handle: transparent plastic

4-341	40	3.0	0.6	72 x 14	14 g
4-342	95	4.0	0.8	85 x 18	33 g

VDE-voltage testers, 220 - 250 V, to VDE regulations 0426

Blade: chrome vanadium, nickel-plated, fully insulated

Handle: transparent plastic

4-343 VDE	60	3.0	0.7	76 x 15	15 g
4-344 VDE	100	3.5	0.7	92 x 18	31 g

Offset screwdrivers

Material: chrome vanadium, nickel-plated, plastic handle

No.	Total length mm	Blade width mm	Blade thickness mm	Blade-Ø mm	Weight
4-351	100	5.0	0.65	4.5	12 g
4-352	125	6.0	0.80	6.0	32 g

4-820 60-piece miniature screwdriver stand

Contents: 60 screwdrivers with tool steel blades, 40 x 1.8 mm and transparent yellow plastic handles

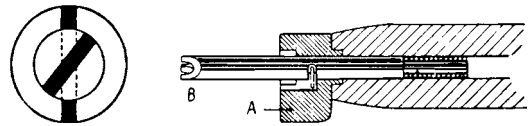
Weight: 235 g



RETAINING SCREWDRIVERS

TRIC screw holders

for inserting slotted screws into places difficult to reach



“TRIC” is especially easy to use. Push lever A as far as the stop with your thumb; insert blade B into the screw slot and release lever A. The screw is tight and can now be inserted into the hole. Release the holder by pressing lever A lightly in the same direction.

Special advantage:

Projecting controls do not hamper vision

Blade: special steel, plane-parallel, nickel-plated

Handle: impact-resistant, transparent yellow plastic

Do not use for tightening or loosening screws!

No.	Blade length mm	Blade width mm	Blade-Ø mm	Handle size mm	Weight
4-401	40	6.0	6.0	98 x 19	44 g
4-402	140	6.0	6.0	98 x 19	65 g
4-403	180	6.0	6.0	98 x 19	76 g
4-404	295	4.0	4.0	70 x 15	42 g
4-405	40	4.0	4.0	70 x 15	18 g
4-406	80	4.0	4.0	70 x 15	22 g
4-407	110	4.0	4.0	70 x 15	25 g
4-408	200	4.0	4.0	70 x 15	35 g
4-409	295	6.0	6.0	98 x 19	98 g

Retaining screwdrivers

for inserting and tightening **slotted screws**

Blade: chrome vanadium, burnished, insulated

Handle: impact-resistant, transparent yellow plastic
or black plastic for VDE-types

No.	Blade length mm	Blade width mm	Blade thickness mm	Handle size mm	Weight
4-431	100	3.0	0.5	90 x 18	35 g
4-432	125	4.0	0.6	100 x 22	65 g
4-433	150	5.0	0.8	105 x 24	93 g
4-441 VDE	100	3.0	0.5	90 x 18	34 g
4-442 VDE	125	4.0	0.6	100 x 22	58 g
4-443 VDE	150	5.0	0.8	105 x 24	88 g

Retaining screwdrivers

for inserting and tightening **cross-recess screws**

Blade: chrome vanadium, burnished, insulated

Handle: impact-resistant, transparent yellow plastic
or black plastic for VDE-types

No.	Size	Blade length mm	Blade-Ø mm	Handle size mm	Weight
4-436	0	125	4.0	100 x 22	63 g
4-437	1	150	5.0	105 x 24	93 g
4-438	2	175	6.0	105 x 24	117 g
4-446 VDE	0	125	4.0	100 x 22	58 g
4-447 VDE	1	150	5.0	105 x 24	88 g
4-448 VDE	2	175	6.0	105 x 24	110 g

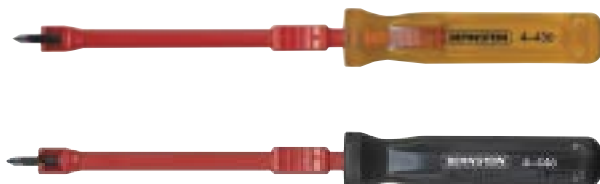
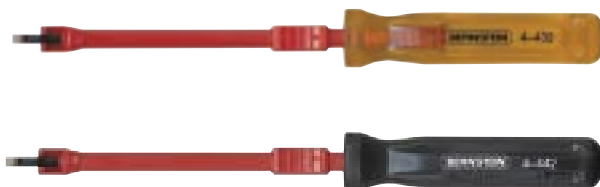
Screwdriver with guide sleeve

for easy, reliable adjustment of screw-type resistors and potentiometers with slotted shanks of 3.2 mm Ø

Blade: chrome vanadium, nickel-plated

Handle: impact-resistant, transparent yellow plastic

No.	Blade length mm	Blade width mm	Handle size mm	Weight
2-145	80	2.8	60 x 11	12 g



WATCHMAKER'S SCREWDRIVERS

Watchmaker's screwdrivers

Blade: chrome vanadium, burnished

Handle: metal, nickel-plated, with swivel top

No.	Blade length mm	Blade width mm	Total length mm	Weight
4-371	14	1.0	85	7 g
4-372	18	1.5	90	7 g
4-373	21	2.0	105	18 g
4-374	24	2.5	108	18 g
4-375	24	3.0	120	37 g
4-376	27	3.5	123	38 g

Cross-recess watchmaker's screwdrivers

Blade: chrome vanadium, burnished

Handle: metal, nickel-plated, with swivel top

No.	Size	Blade length mm	Total length mm	Weight
4-364	000	21	92	9 g
4-366	00	21	92	23 g
4-367	0	21	105	33 g
4-368	1	21	117	37 g

4-360 3-piece watchmaker's screwdriver set

in a plastic wallet

Contents: 2 watchmaker's screwdrivers No. 4-372 + 4-374
1 cross-recess watchmaker's screwdriver No. 4-367
Weight: 68 g

4-365 3-piece watchmaker's screwdriver set

in a plastic wallet

Contents: 3 cross-recess screwdrivers No. 4-366, 4-367 + 4-368
Weight: 100 g

4-370 6-piece watchmaker's screwdriver set

in a metal case

Contents: 6 watchmaker's screwdrivers No. 4-371 - 4-376
Weight: 480 g

4-379 6-piece watchmaker's screwdriver set

in a wallet of nylon

Contents: 6 watchmaker's screwdrivers No. 4-371 - 4-376
Weight: 165 g

Watchmaker's screwdrivers

Blade: chrome vanadium, burnished

Handle: black plastic, with swivel top and colour coding

No.	Blade length mm	Blade width mm	Total length mm	Weight
4-381	18	1.0	104	5 g
4-382	18	1.5	104	6 g
4-383	18	2.0	104	6 g
4-384	18	2.5	104	6 g
4-385	18	3.0	104	6 g

4-380 5-piece watchmaker's screwdriver set

in a plastic box

Contents: 5 watchmaker's screwdrivers No. 4-381 - 4-385
Weight: 64 g

Watchmaker's storage screwdrivers with interchangeable blades

Blades: chrome vanadium, burnished

Handle: metal magazine, nickel-plated, with swivel top

4-391 Watchmaker's screwdriver

with 4 bits 1.5 - 2.0 - 2.5 - 3.0 mm blade width, in magazine
Weight: 31 g

4-392 Watchmaker's screwdriver

with 4 bits 1.5 - 2.0 - 2.5 - 3.0 mm blade width
and 1 cross-recess blade size 0, in magazine
Weight: 32 g

4-393 Watchmaker's screwdriver magazine

with 3 bits 1.5 - 2.0 - 2.5 mm blade width and
2 cross-recess blades Size 00 and 000, in magazine
Weight: 32 g



SOCKET WRENCHES

Socket wrenches, long, with handle

Blade: chrome vanadium, hardened over its full length, chrome-plated

Handle: special square pattern Bernstein handle, impact-resistant, transparent, amber coloured plastic

No.	A/F mm	Blade length mm	Handle size mm	Weight
6-101	3.5	140	92 x 21	70 g
6-102	4.0	140	92 x 21	72 g
6-103	4.5	140	92 x 21	72 g
6-104	5.0	140	92 x 21	72 g
6-105	5.5	140	92 x 21	74 g
6-106	6.0	140	92 x 21	74 g
6-107	7.0	140	92 x 21	92 g
6-108	8.0	140	92 x 21	92 g

6-100 8-piece socket wrench set in a plastic wallet

Contents: 8 socket wrenches No. 6-101 – 6-108

Weight: 650 g

Socket wrenches without handles with tangs for interchangeability

Material: chrome vanadium, nickel-plated

No.	A/F mm	Wrench length mm	Inches for No. 6-190	Weight
6-201	4.0	140	1/8"	30 g
6-202	5.5	140	5/32"	35 g
6-203	6.0	140	3/16"	35 g
6-204	7.0	140	7/32"	40 g
6-205	8.0	140	1/4"	40 g
6-206	9.0	140	5/16"	43 g
6-207	10.0	140	3/8"	45 g

6-200 8-piece socket wrench in a plastic wallet

Contents: 7 socket wrenches No. 6-201 – 6-207

1 plastic spring handle. 4-775

Weight: 310 g

6-210 6-piece socket wrench set in a plastic wallet

Contents: 5 socket wrenches No. 6-201 – 6-205

1 plastic spring handle No. 4-775

Weight: 220 g

Sets of socket wrenches in metal cases

Typ: 1/4" square drive, chrome vanadium, chrome-plated

6-320 16-piece socket wrench set in metal case

Contents: 11 sockets: A / F 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 13 mm, **ratchet**, rigid extension, socket wrench holder, sliding tee bar, universal joint

Weight: 775 g

6-330 16-piece socket wrench set in metal case

Contents: 11 sockets: A / F 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 13 mm, **reversible ratchet**, rigid extension, socket wrench holder, sliding tee bar, universal joint

Weight: 870 g

6-108

6-205

WRENCHES

Sets of wrenches

Material: chrome vanadium, chrome-plated

6-500 **5-piece double open-ended wrench set**

Contents: 5 double open-ended wrenches 6 x 7 – 8 x 9 – 10 x 11 – 12 x 13 and 14 x 17 mm

Weight: 370 g

6-550 **5-piece ring wrench set**

double-offset

Contents: 5 ring wrenches 6 x 7 – 8 x 9 – 10 x 11 – 12 x 13 and 14 x 17 mm

Weight: 660 g

6-600 **7-piece combination wrench set**

Contents: 7 combination wrenches 6 – 7 – 8 – 9 – 10 – 11 – 13 mm

Weight: 290 g

6-650 **5-piece ring wrench set**

Contents: 5 ring wrenches 6 x 7 – 8 x 9 – 10 x 11 – 12 x 13 and 14 x 15 mm

Weight: 160 g



SPECIAL WRENCHES

6-750 **6-piece extra slim double open-ended wrench set**, in plastic case

Material: chrome vanadium, bright nickel-plated

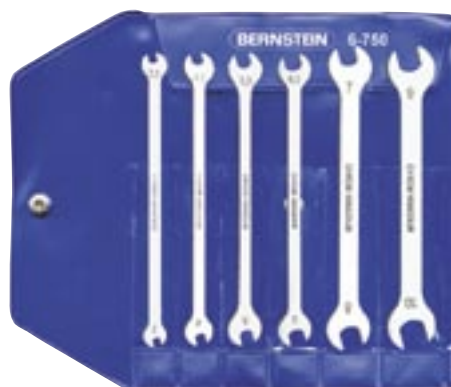
Contents: 4 double open-ended wrenches 3.0 x 3.5 – 4.0 x 4.5 – 5.0 x 5.5 and 6.0 x 6.5 mm

material thickness 1.5 mm, 120 mm long

2 double open-ended wrenches 7 x 8 and 9 x 10 mm

material thickness 2 mm, 125 mm long

Weight: 85 g



Adjustable wrenches

Material: chrome vanadium, chrome-plated

No.	Jaw opening mm	Total length mm	Jaw length mm	Weight
6-771	0 – 12	100	12	55 g
6-772	0 – 18	150	22	135 g
6-773	0 – 23	200	25	265 g



SPECIAL TOOLS

6-950 **8-piece ballpoint wrench key set**, in a plastic wallet

Material: chrome vanadium, burnished, offset model

Contents: 8 wrench keys 1.5 – 2.0 – 2.5 – 3.0 – 4.0 – 5.0 – 6.0 – 8.0 mm

Weight: 200 g



6-995 **8-piece TORX-wrench keys with bore-hole** in a plastic box

Material: chrome vanadium, burnished, offset model

Contents: 8 TORX-wrench keys T 9, T 10, T 15, T 20, T 25, T 27, T 30, T 40

Weight: 205 g

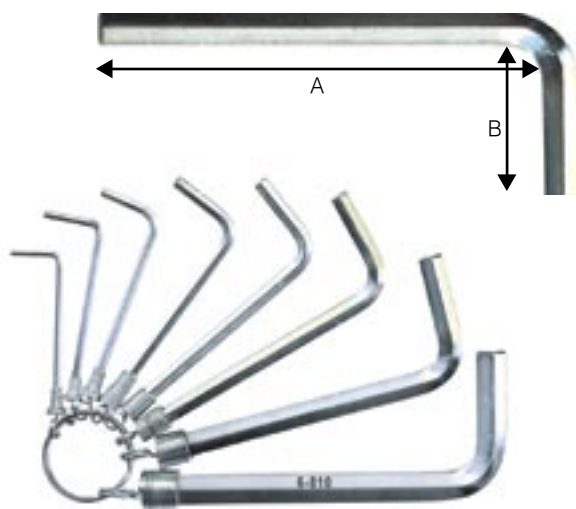


SPECIAL WRENCHES

Wrench keys

angle-shaped screwdrivers for hex socket-head screws

Material: special steel, nickel-plated



No.	A/F mm	No.	Inches	A/F ≈ mm	Leg length mm A B	Weight
6-811	0.89	-	-	-	30 x 10	1 g
6-812	1.0	6-851	3/64	1.19	46 x 10	1 g
6-813	1.5	6-852	1/16	1.59	50 x 12	1 g
6-814	2.0	6-853	5/64	1.98	55 x 15	2 g
6-815	2.5	6-854	3/32	2.38	60 x 18	3 g
6-816	3.0	6-855	1/8	3.18	65 x 20	5 g
6-817	3.5	6-856	9/64	3.56	68 x 22	8 g
6-818	4.0	6-857	5/32	3.97	72 x 25	11 g
6-819	4.5	6-858	3/16	4.76	75 x 27	13 g
6-821	5.0	-	-	-	80 x 28	19 g
6-822	5.5	6-859	7/32	5.56	85 x 30	22 g
6-823	6.0	6-861	1/4	6.35	90 x 32	28 g
6-825	7.0	6-862	9/32	7.14	95 x 34	41 g
6-826	8.0	6-863	5/16	7.94	100 x 36	60 g
6-827	9.0	6-864	11/32	8.73	105 x 38	81 g
6-828	10.0	6-865	3/8	9.53	112 x 40	105 g

6-810 8-piece wrench key set

offset model, on ring

Contents: 8 wrench keys 2.0 – 2.5 – 3.0 – 4.0 – 5.0 – 6.0 – 8.0 – 10.0 mm

Weight: 255 g

6-820 8-piece wrench key set

offset model, in a plastic wallet

Contents: 8 wrench keys 1.5 – 2.0 – 2.5 – 3.0 – 4.0 – 5.0 – 5.5 – 6.0 mm

Weight: 100 g

Wrench keys without handles

with fitting tangs (figure 6-830)

Material: chrome vanadium, burnished, tangs nickel-plated

No.	A/F mm	No.	Inches	A/F ≈ mm	Blade length mm	Weight
6-831	1.0	6-871	3/64	1.19	140	15 g
6-832	1.2	6-872	1/16	1.59	140	16 g
6-833	1.5	6-873	5/64	1.98	140	16 g
6-834	2.0	6-874	3/32	2.38	140	17 g
6-835	2.5	6-875	1/8	3.18	140	18 g
6-836	3.0	6-876	9/64	3.56	140	19 g
6-837	4.0	6-877	5/32	3.97	140	28 g
6-838	4.5	6-878	3/16	4.76	140	30 g
6-839	5.0	6-879	7/32	5.56	140	32 g
6-841	6.0	6-881	1/4	6.35	140	42 g

6-830 11-piece wrench key set in a plastic wallet

Contents: 10 wrench keys 1.0 – 1.2 – 1.5 – 2.0 – 2.5 – 3.0 – 4.0 – 4.5 – 5.0 – 6.0 mm

1 spring handle in impact-resistant, transparent yellow plastic No. 4-775

Weight: 280 g

Sets of wrench keys (imperial dimensions)

6-840 10-piece wrench key set on ring

Contents: 10 wrench keys 1/16 – 5/64 – 3/32 – 1/8 – 5/32 – 3/16 – 7/32 – 1/4 – 5/16 – 3/8"

Weight: 440 g

6-880 8-piece wrench key set in a plastic wallet

Contents: 8 wrench keys 1/16 – 5/64 – 3/32 – 1/8 – 5/32 – 3/16 – 7/32 – 1/4"

Weight: 100 g

6-890 11-piece wrench key set in a plastic wallet

Contents: 10 wrench keys 3/64 – 1/16 – 5/64 – 3/32 – 1/8 – 9/64 – 5/32 – 3/16 – 7/32 – 1/4"

1 spring handle in impact-resistant, transparent yellow plastic No. 4-775

Weight: 315 g



SAFETY TOOLS

BERNSTEIN VDE screwdrivers and VDE cross-recess screwdrivers are monitored by the VDE Test Centre. Each screwdriver is piece-checked in accordance with specification EN 60.900, IEC 900 of the Association of German Electrical Engineers (VDE).

Permissible voltage at which the VDE screwdrivers can be used:

1000 V a.c. or 1500 V d.c.

Blade: chrome vanadium, hardened over its full length, burnished

Handle: Bicoloured VDE multicomponent safety insulation, impact-resistant, with slip off protection and practical hanging up hole.

Safety insulated screwdrivers

DIN EN 60.900, IEC 900

No.	Blade length mm	Blade width mm	Blade thickness mm	Handle size mm	Weight mm
14-651 VDE	75	2.5	0.4	100 x 21	26 g
14-652 VDE	100	3.5	0.6	100 x 21	34 g
14-653 VDE	100	4.0	0.8	100 x 21	37 g
14-654 VDE	125	5.5	1.0	107 x 27	75 g
14-656 VDE	150	6.5	1.2	114 x 32	112 g
14-658 VDE	175	8.0	1.2	121 x 35	171 g

Safety insulated cross-recess Phillips screwdrivers

DIN EN 60.900, IEC 900

No.	Size	Blade length mm	Blade Ø mm	Handle size mm	Weight
14-681 VDE	0	60	3.0	100 x 21	27 g
14-682 VDE	1	80	4.5	107 x 27	57 g
14-683 VDE	2	100	6.0	114 x 32	92 g
14-684 VDE	3	150	8.0	121 x 35	166 g

Safety insulated Pozidriv cross-recess screwdrivers

DIN EN 60.900, IEC 900

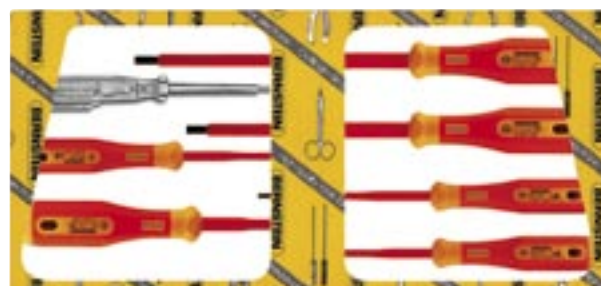
No.	Size	Blade length mm	Blade Ø mm	Handle size mm	mm
14-691 VDE	0	60	3.0	100 x 21	27 g
14-692 VDE	1	80	4.5	107 x 27	57 g
14-693 VDE	2	100	6.0	114 x 32	92 g
14-694 VDE	3	150	8.0	121 x 35	166 g

14-600 VDE 7-piece VDE screwdriver set

visibly packed in a carton box

Contents: 14-651 VDE 75 x 2.5 mm screwdriver
14-652 VDE 100 x 3.5 mm screwdriver
14-654 VDE 125 x 5.5 mm screwdriver
14-656 VDE 150 x 6.5 mm screwdriver
14-681 VDE cross-recess screwdriver, size 0
14-682 VDE cross-recess screwdriver, size 1
4-343 VDE voltage tester, 150 V - 250 V

Weight: 350 g



SAFETY TOOLS



Safety insulated socket wrenches

DIN EN 60.900, IEC 900

Blade: chrome vanadium, hardened over its full length

Handle: impact-resistant, bicoloured VDE multicomponent safety insulation, with slip off protection and practical hanging up hole

No.	A/F mm	Blade length mm	Handle size mm	Weight
16-302 VDE	5.5	125	107 x 21	85 g
16-303 VDE	6.0	125	107 x 21	90 g
16-304 VDE	7.0	125	114 x 30	125 g
16-305 VDE	8.0	125	114 x 30	125 g
16-306 VDE	9.0	125	114 x 32	130 g
16-307 VDE	10.0	125	114 x 32	130 g
16-308 VDE	11.0	125	121 x 35	170 g
16-309 VDE	12.0	125	121 x 35	175 g
16-311 VDE	13.0	125	121 x 35	175 g

Single-ended open-jaw wrenches

to DIN 7447, IEC 60900:2004,

two-colour multilayered insulation, 1000 V, chrome vanadium, 15° open-end position

No.	A/F mm	Weight	No.	A/F mm	Weight
16-501 VDE	6.0	25 g	16-508 VDE	13.0	75 g
16-502 VDE	7.0	25 g	16-509 VDE	14.0	85 g
16-503 VDE	8.0	35 g	16-511 VDE	15.0	85 g
16-504 VDE	9.0	40 g	16-512 VDE	17.0	110 g
16-505 VDE	10.0	50 g	16-513 VDE	19.0	200 g
16-506 VDE	11.0	55 g	16-514 VDE	21.0	210 g
16-507 VDE	12.0	65 g	16-515 VDE	24.0	300 g

Single-ended ring wrenches

to DIN 7447, IEC 60900:2004,

chrome vanadium, two-colour multilayered insulation, 1000 V

No.	A/F mm	Weight	No.	A/F mm	Weight
16-531 VDE	6.0	50 g	16-541 VDE	15.0	140 g
16-532 VDE	7.0	50 g	16-542 VDE	16.0	170 g
16-533 VDE	8.0	65 g	16-543 VDE	17.0	195 g
16-534 VDE	9.0	70 g	16-544 VDE	18.0	240 g
16-535 VDE	10.0	80 g	16-545 VDE	19.0	245 g
16-536 VDE	11.0	95 g	16-547 VDE	21.0	320 g
16-537 VDE	12.0	110 g	16-551 VDE	24.0	365 g
16-538 VDE	13.0	120 g			
16-539 VDE	14.0	130 g			

– other dimensions available on request –

Adjustable wrenches

to DIN 3117, IEC 60900:2004

two-colour multilayered insulation, 1000 V, open-end position 15°, with graduation

No.	Length	Jaw opening	Weight
16-773 VDE	200	0 - 26	300 g
16-774 VDE	250	0 - 30	500 g
16-775 VDE	300	0 - 35	800 g

16-440 VDE 9-piece set of sockets

in red imitation leather case

Contents: 8 sockets with two-colour multilayered insulation

A/F: 10.0 – 11.0 – 12.0 – 13.0 – 14.0 – 15.0 –

17.0 – 19.0 mm

1 T-socket wrench, 1/2" square drive, 200 mm with two-colour multilayered insulation

Weight: 1.120 kg



SAFETY TOOLS

Sockets

two-colour multilayered insulation to IEC 60900:2004, 1000 V, DIN 7448, square drive, chrome vanadium



for nuts: with 3/8"-drive

with 1/2"-drive



No.	A/F mm	Weight	No.	A/F mm	Weight
16-481 VDE	6.0	23 g	16-441 VDE	10.0	60 g
16-482 VDE	7.0	26 g	16-442 VDE	11.0	60 g
16-483 VDE	8.0	26 g	16-443 VDE	12.0	60 g
16-484 VDE	9.0	31 g	16-444 VDE	13.0	65 g
16-485 VDE	10.0	33 g	16-445 VDE	14.0	65 g
16-486 VDE	11.0	33 g	16-446 VDE	15.0	70 g
16-487 VDE	12.0	35 g	16-447 VDE	17.0	75 g
16-488 VDE	13.0	37 g	16-448 VDE	19.0	85 g
16-489 VDE	14.0	49 g	16-449 VDE	22.0	110 g
16-491 VDE	15.0	52 g	16-451 VDE	24.0	130 g
16-492 VDE	16.0	54 g	16-452 VDE	27.0	180 g
16-493 VDE	17.0	55 g	16-453 VDE	30.0	195 g
16-494 VDE	18.0	63 g	16-454 VDE	32.0	205 g
16-495 VDE	19.0	75 g			
16-496 VDE	20.0	82 g			
16-497 VDE	21.0	87 g			
16-448 VDE	22.0	94 g			

for hexagonal location: with 3/8"-drive

with 1/2"-drive



16-559 VDE	4.0	60 g	16-461 VDE	5.0	95 g
16-561 VDE	5.0	65 g	16-462 VDE	6.0	95 g
16-562 VDE	6.0	65 g	16-463 VDE	8.0	100 g
16-563 VDE	8.0	75 g	16-464 VDE	10.0	110 g
16-564 VDE	10.0	90 g			

4-Way Wrench

two-colour multilayered insulation according to IEC 60900:2004, 1000 V, 4 different sizes, electrical contact impossible



16-431 VDE	A/F 10 / 13 / 14 / 17	450 g
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T-socket-wrench

with locking device, DIN 7436, two-colour multilayered insulation according to IEC 60900:2004, 1000 V



No.	mm	Length inches	Finish	Weight g
16-474 VDE	200	8	3/8" square drive	390 g
16-475 VDE	200	8	1/2" square drive	460 g

Reversible ratchet

DIN 7449, two-colour multilayered insulation according to IEC 60900:2004, 1000 V, fixing and removing of the inserts by pushing the button, right / left turn by reversing the lever



16-471 VDE	260	10 2/8"	1/2" square drive	680 g
16-472 VDE	200	8	3/8" square drive	360 g

Rigid extension

DIN 7434, two-colour multilayered insulation according to IEC 60900:2004, with locking device



16-476 VDE	125	5 1/2"	1/2" square drive	200 g
16-477 VDE	250	10 1/2"	1/2" square drive	415 g
16-478 VDE	125	5 3/8"	3/8" square drive	155 g
16-479 VDE	250	10 3/8"	3/8" square drive	280 g



CABLE-CUTTING TOOLS



No.	Length mm	Zoll	Finish	Weight g
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Cable knife

with blade protection, handle from shock resistance plastic, 1000 V



15-521 VDE	180	7	straight blade, blade length 50 mm	65 g
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Cable dismantling knife

with blade protection, handle from shock resistance plastic, 1000 V



15-522 VDE	180	7	hook blade, blade length 35 mm	70 g
15-523 VDE	180	7	special blade, with cable guard shoe	65 g

Automatic wire stripper Super

fully insulated automatic wire stripper for all common stranded and solid conductors of 0.2 - 6.0 mm², adjustable length stop of 5 - 12 mm, removable if required

15-531 VDE	200	8	fibreglass re-enforced polyamide, fully insulated, approved for works on "hot " lines up to 1000 Volt	110 g
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Cable shear

forged of special steel, for copper and aluminium cable, two-colour multilayered insulation according to IEC 60900:2004, with re-adjustable joint



15-501 VDE	210	8 1/4	max Ø 20 mm / 60 mm ²	360 g
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Ratcheting cable cutters

easy cutting of big diameters, for copper and aluminium cable, two-colour multilayered insulation, fully insulated according to IEC 60900:2004, 1000 V



15-506 VDE	250	9 7/8	max Ø 32 mm / 240 mm ²	800 g
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No.	Length mm	Zoll	Finish	Weight g
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Metal saw

with pistol handle, frame out of metal die cast, two-colour multilayered insulation, fully insulated according to IEC 60900:2004, 1000 V



17-541 VDE	265	10 2/8	saw blade exchangeable	310 g
7-617	150	6	spare blade	3 g

SAFETY TOOLS

No.	Size	Weight
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Electrician's Glove

insulating gloves for work under voltage up to 1000 Volt, out of natural rubber, high flexibility, each tested according to DIN EN 60903



17-499 VDE	Size 9	260 g
17-501 VDE	Size 10	260 g
17-502 VDE	Size 11	260 g



Plug-In Grip with arm protection

suitable for fixing and removing NH-fuses



17-521 VDE	Siemens handle for NH-fuses 00-3, arm protection when interrupting high current intensity (arc)	450 g
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Rubber Cover

DIN VDE 0680 part 1, thickness 1.6 mm, surface smooth, for working on electrical facilities, up to 1000 V



17-702 VDE	500 x 500 mm	590 g
17-703 VDE	1000 x 1000 mm	1936 g



Rubber Isomat without picture

tested according to DIN VDE 0303, thickness 4.5 mm one side smooth, other side grooved



17-707 VDE	1000 x 1000 mm	6200 g
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Plastic Clip for fixing covers

17-523 VDE 170 mm with covered spiral spring



63 g



Self-Clamping Slip on Caps

1000V protection against touching a cable-end under voltage



17-551 VDE	Ø 10 mm	20 g
17-552 VDE	Ø 20 mm	30 g
17-553 VDE	Ø 30 mm	60 g



Voltage Tester Steinel Volt Check 3

for AC/DC

17-531 VDE	6 - 400 V AC/DC	110 g
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TWEEZERS

Engineer's tweezers with 1000 Voltage-insulation, VDE 0680 Part 2

No.	mm	Length Zoll	Finish	Weight g
5-107 VDE	150	6	fine bent tips, finely serrated	35 g
5-117 VDE	145	5 3/4	straight-flat-wide, with serration	40 g



TOOLS

Engineer's hammers

with lacquered wooden handle

No.	Length mm	Head weight	Total weight
7-102	265	100	150 g
7-104	285	200	240 g
7-106	300	300	400 g
7-109	320	500	620 g

Engineer's hammers to DIN 1041



swaged, accurately slid, stem and path finish grinded, lacquered and rust-proof, with lacquered ash-handle

7-112	260	100	155 g
7-114	280	200	260 g
7-116	300	300	435 g
7-119	320	500	615 g

Plastic hammers

with impact-resistant, cellidor plastic tops, lacquered wooden handle

No.	Head-Ø mm	Length mm	Weight
7-121	22	255	130 g
7-122	27	265	225 g
7-123	32	285	330 g

Firmer chisels

with impact-resistant wooden handle

No.	Blade width mm	Blade length mm	Total length mm	Weight
7-201	10	120	235	90 g
7-202	16	130	240	130 g
7-203	20	140	250	155 g

Flat chisels

chrome vanadium, safety impact head

No.	Head width mm	Length mm	Ø mm	Weight
7-215	10	100	8	45 g
7-225	16	150	12	120 g
7-235	20	200	16	300 g

Electrician's chisels

chrome vanadium, safety impact head

7-245	8	200	6	60 g
7-255	10	200	8	140 g

Centre-punch to DIN 7250,

chrome vanadium, safety impact head

No.	Head-Ø mm	Length mm	Ø mm	Weight
7-281	5.0	120	12	90 g

SAWS

No.	Blade length mm	Length mm	Weight
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Hack saw frame from flat steel for sawblades

of 300 mm length, with saw blade

7-605	300	530	515 g
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Hack saw blade both ends toothed, from Wolfram-steel

7-606	300	44 g
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Pocket hack saw „Puk“ with adjustable wooden handle,

with saw blade for wood and metal, in a plastic wallet

7-616	150	300	140 g
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Hack saw blade special for „Puk“ hack saws

and pocket hack saw 7-620

7-617	150	3 g
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TOOLS

Twist gimlets

black lacquered, with knurled ring handle

No.	Bore-Ø mm	Blade length mm	Total length mm	Weight
7-303	3.0		125	10 g
7-304	4.0		140	20 g
7-306	6.0		170	30 g

Drill rasp

with plastic handle

7-315	4.0	175	260	35 g
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Punch

with impact-resistant plastic handle

No.	Blade-Ø mm	Blade length mm	Total length mm	Weight
7-316	6.0	100	185	80 g

Trowel

with conical forged blade and wooden handle

No.	Blade width mm	Total length mm	Weight
7-405	50	200	70 g

Slicker trowel

polished with round shank

7-410	16	220	25 g
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Rubber beaker for plaster

(without picture) round, conical form

No.	Ø mm	Height mm	Weight
7-415	130	95	150 g

Dust brush

No.	Finish	Bristles width mm	Total length mm	Weight
7-425	white bristles and plastic handle	25	195	10 g
7-426	flat brush wooden handle	40	210	55 g

ESD-brush

with **conductive** handle,
natural bristles with **conductive** fibres

7-421	round	6 Ø	150	9 g
7-422	flat	20	150	26 g

OILER

Oiler

made from transparent plastic
with brass rotating seal

No.	Volume ml	Total length mm	Weight
7-435	40	150	15 g

Drip oiler

for droplet oiling

7-438	5	140	20 g
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MEASURING TOOLS

Folding rule, with steel spring



7-502



7-503



7-505



Tape measure

with impact-resistant plastic housing,
steel tape for pulling out and in

No.	Length m	Material	Width mm	Weight
7-502	2	wood	15.0	120 g
7-503	1	plastic	13.0	60 g

Steel tape measure

stainless, lines and numbers etched and blank coloured



7-508

No.	Length mm	Cross section mm	Weight
7-508	300	13 x 0.5	20 g

Digital caliper, DIN 862

with cross points, depth gauge, fixing screw, stainless, hardened,
capacitive sensor-technic, with digital LCD-display, in a wallet



7-511

No.	Measuring range mm	Nose mm	Display mm / inch	Weight
7-511	150	40	0,01 / 0,001	350 g

Miniature digital caliper, DIN 862

with cross points, depth gauge, fixing screw, stainless, hardened,
capacitive sensor-technic, with digital LCD-display, in a wallet



7-512

7-512	75	30	0,01 / 0,001	350 g
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Feeler gauge

with conical leaves



No.	Measuring range mm	Blade length mm	Blade quantity	Weight
7-515	0.10 - 2.0	100	20	171 g

Scriber

with roughened nicked handle, needles hardened
and burnished, interchangeable



No.	Handle-Ø mm	Needles-Ø mm	Total length mm	Weight
7-521	6	2.5	200	26 g

Spirit level, made from plastic with 3 levels: horizontal, vertical and 45° angle



No.	Length mm	Weight
7-535	220	58 g

BERNSTEIN



CLAMPING VICE SPANNFIX

BERNSTEIN clamping vice SPANNFIX constructed on ball-and-socket joints are rotatable easily in all directions and capable of being set securely with maximum working capacity by simple operation. A set screw below the ball socket allows an individual adjusting of the ball power. Long life is guaranteed by highest powder-coated aluminium casting and surface-refined steel-parts.

SMALL VICE SPANNFIX

The Spannfix vice simplifies many jobs in precision engineering, in laboratories, in test rooms, in all mechanical and electronical workshops as well as in different medical areas.



9-205

9-205 **BERNSTEIN** SPANNFIX screw-on vice

for work benches with a max. table thickness of 80 mm.

The small vice with ball-and-socket joint can be mounted quickly and easily onto a work bench or table. Slight pressure on the lever is sufficient, and the clamped workpiece can be moved into any suitable position.

Technical data:	Clamping pressure	150 kp
	Clamping capacity	70 mm
	Clamping depth	38 mm
	Jaw width	50 mm
	Jaws (interchangeable) plastic	
	aluminium-jaws on request	

Weight: 1.450 kg



9-215

9-215 **BERNSTEIN** SPANNFIX for permanent mounting using bolts

Technical data as 9-205
Size of base: 150 x 105 mm

Weight: 1.350 kg



9-220

9-220 **BERNSTEIN** SPANNFIX VICE WITH VACUUM BASE for portable applications

(consisting of 9-211 and 9-215)

Technical data as 9-205
Size of base: 150 x 105 mm

Weight: 2.000 kg



9-220

CLAMPING EQUIPMENT SPANNFIX COMBINATIONS

Individual components

9-251 Universal clamp mounting ball joint base with threaded stud M 12 x 1.5

for screwing onto work benches with a max. table thickness of 80 mm

Weight: 0.950 kg

9-252 Screw-on mounting vice

Technical data:

Clamping pressure	150	kp
Clamping capacity	70	mm
Clamping depth	38	mm
Jaw width	50	mm
Jaws (interchangeable)	plastic	

Weight: 0.560 kg

9-253 Circuit board holder

adjustable from 25 mm to 270 mm clamping capacity, correct setting by adjusting the centre position, firm clamping of the printed circuit by built-in resilience in the locating arms, height of locating arms 70 mm.

Weight: 0.280 kg

If the circuit board holder is to be used with universal ball joint base 9-251, we recommend that the combination is used with angular adapter 9-255 or with rapid turning device 9-257 in order to obtain a larger turning circle.

9-254 Universal screw-on plate

Slots made for commonly used standard bolts, for holding of e. g. tuner, line output transformer, small loudspeaker etc. or prototypes

Weight: 0.120 kg

9-255 Angular adapter

to be used as an additional attachment with every work mount, permits an even larger turning circle.

Weight: 0.095 kg

9-256 Clamping lid for circuit boards with components

covered with 20 mm thick foamed plastic.

Components of different sizes are pressed in such a way that soldering can be carried out correctly after the circuit board holder has been turned.

Size of cover: 240 x 130 mm

Use: in conjunction with circuit board holder 9-253

Weight: 0.260 kg

9-257 Rapid turning device

with permanently connected angular adapter, permits swift rotation of the circuit board holder with the PCB and clamping lid through 180°.

Weight: 0.270 kg

9-250 BERNSTEIN SPANNFIX-VARIO assembly vice

5 piece set

with following interchangeable screw-on work mounts 9-251, 9-252, 9-253, 9-254 and 9-255

Weight: 2.000 kg

9-260 BERNSTEIN SPANNFIX-VARIO assembly vice

5-piece set

with following interchangeable screw-on work mounts 9-261, 9-252, 9-253, 9-254 and 9-255

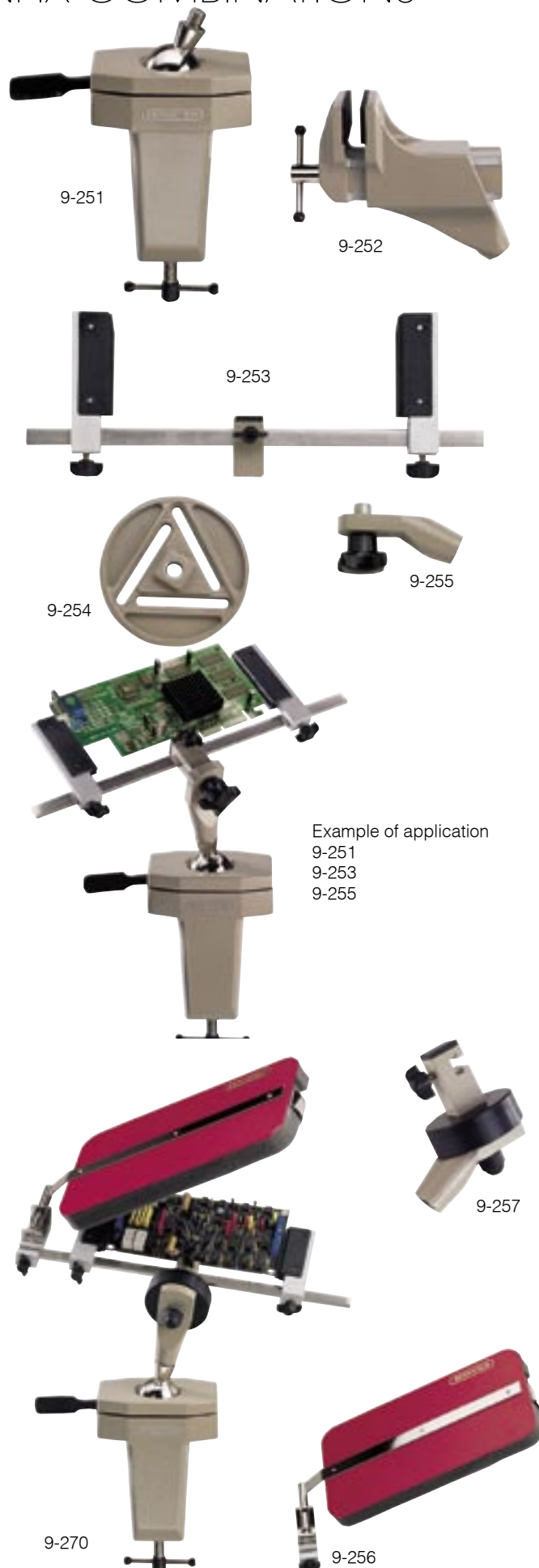
Weight: 1.900 kg

9-270 BERNSTEIN SPANNFIX-VARIO-PLUS clamping combination

Tailor-made combination of the following individual components:

9-251, 9-257, 9-253, 9-256

Weight: 1.800 kg



SPANNFIX FOR SPECIAL POSITIONINGS

The universal Spannfix ball-and-socket joint base enables an exact and secure adjustment in all directions, e. g. of optoelectronic measuring instruments, of monitors and observation cameras.



9-251

- 9-251 **BERNSTEIN SPANNFIX**
Universal clamp mounting ball joint base
with threaded stud M 12 x 1.5
screw on

for work benches with a max. table thickness of 80 mm
Weight: 0.950 kg



9-261

- 9-261 **BERNSTEIN SPANNFIX**
bench mounted base
with universal ball joint
and threaded stud M 12 x 1.5
for permanent mounting using bolts

Size of base: 150 x 105 mm
Weight: 0.800 kg



9-262

- 9-262 **BERNSTEIN SPANNFIX**
bench mounted base
with universal ball joint and threaded stud M 12 x 1.5
with an especially large assembly device of Ø 40 mm
and extralong thread stud with 25 mm
for permanent mounting using bolts

Size of base: 150 x 105 mm
Weight: 0.850 kg



9-281

- 9-281 **BERNSTEIN SPANNFIX**
bench mounted base
with universal ball joint
and threaded stud M 12 x 1.5
for permanent mounting using bolts

Size of base: 110 x 72 mm
with 4 covered through holes
for screws 6 mm Ø
Weight: 0.650 kg



9-210

- 9-210 **BERNSTEIN SPANNFIX VACUUM BASE**
with ball joint and threaded stud M 12 x 1.5

(consisting of 9-211 and 9-261)
Weight: 1.500 kg



9-211

- 9-211 **BERNSTEIN SPANNFIX VACUUM BASE**

only to be used in conjunction with 9-215 or 9-261
Weight: 0.650 kg

CLAMPING VICES SPANNFIX MAXI

Heavy-duty vice SPANNFIX MAXI on ball-and-socket joint rotatable in any direction and capable of being set securely. The same operations, the same flexibility and the universal use as the Spannfix small vice also distinguish the large models.

Suitable for working on larger and heavier workpieces.

9-225 **BERNSTEIN** SPANNFIX VICE MAXI screw-on

for work benches with a max. table thickness of 85 mm.

Technical data:	Clamping pressure	300 kp
	Clamping capacity	100 mm
	Clamping depth	50 mm
	Jaw width	100 mm
	interchangeable steel jaws	
	smooth and fluted	
	Alu- and plastic jaws on request	

Weight: 4.000 kg

9-226 **BERNSTEIN** SPANNFIX VICE MAXI for permanent mounting using bolts

Technical data: as 9-225

Size of base: 190 x 155 mm

Weight: 3.600 kg

SPANNFIX MAXI FOR SPECIAL POSITIONINGS

The Spannfix MAXI ball-and-socket joint base enables an exact and secure adjustment e. g. for heavy instruments in all directions.

9-227 **BERNSTEIN** SPANNFIX MAXI UNIVERSAL CLAMP mounting ball joint base with threaded stud M 12 x 1.5 for screwing onto work benches

with a max. table thickness of 85 mm

Weight: 2.220 kg

9-228 **BERNSTEIN** SPANNFIX MAXI BENCH MOUNTED BASE with universal ball joint and threaded stud M 12 x 1.5 for permanent mounting using bolts

Size of base: 190 x 155 mm

Weight: 1.850 kg

9-229 **BERNSTEIN** SPANNFIX MAXI BENCH MOUNTED BASE with universal ball joint and threaded stud M 12 x 1.5 with an especially large assembly device of Ø 40 mm and extralong thread stud with 25 mm, for permanent mounting using bolts

Size of base: 190 x 155 mm

Weight: 1.900 kg



ESD-COVERINGS AND ACCESSORIES



9-342

9-343

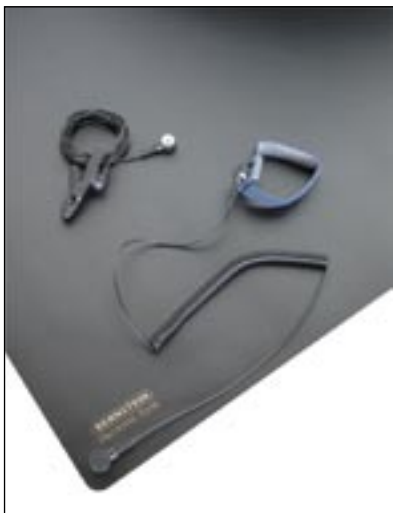


9-356



9-357

9-359



9-360

- 9-342 Contact bracelet with spiral cord**
adjustable elastical bracelet with woven silvered synthetic fibres, allergy-free, with 3 mm press-stud; high elastical spiral cord, 2400 mm long, 2 x 1 Mohm safety resistor, press-studs 3 mm for bracelet and 10 mm for earth wire; additionally insulated crocodile clip No. 9-353. (Weight: 60 g)
- 9-342-1 Contact bracelet**
adjustable elastical bracelet with woven silvered synthetic fibres, allergy-free, with 3 mm press-stud (Weight: 13 g)
- 9-342-2 Spiral cord**
high elastical spiral cord, 2400 mm long, 2 x 1 Mohm safety resistor, press-studs 3 mm for bracelet and 10 mm for earth wire (Weight: 25 g)
- 9-343 Earth wire**
with 1 Mohm safety resistor, 1500 mm long, with 2 press-studs 10/10 mm, for connecting workbench pad and floor cover and connection to an earth potential; additionally insulated crocodile clip No. 9-353. (Weight: 40 g)
- 9-345 Floor cover**
2000 x 1200 x 2.2 mm, pebble grey, with homogeneous, electrostatic conductive rear, wheelchair-proof, with 2 press-studs 10/10 mm; earth wire No. 9-347-1, 4500 mm long, 1 Mohm safety resistance, with 2 press-studs 10/10 mm, (leakage resistance according to DIN IEC 61340-4-1 R_A : $10^6 - 10^7$ ohm); additionally insulated crocodile clip No. 9-353. (Weight: 7850 g)
- 9-346 Earth wire**
with 1 Mohm safety resistance, 2500 mm long, mit 2 press-studs 10/10 mm, for connecting workbench pad and floor cover and connection to an earth potential; additionally crocodile clip No. 9-353. (Weight: 50 g)
- 9-351 ESD-handling set**
consisting of:
workbench pad, 900 x 600 x 2.2 mm, pebble grey, with homogeneous, electrically conductive rear, (leakage resistance to DIN IEC 61340-4-1 R_A : $10^6 - 10^7$ ohm), with 2 press-studs 10/10 mm; contact bracelet No.9-342-1, spiral cord 9-342-2 and earth wire No. 9-343 including crocodile clip No. 9-353. (Weight: 1850 g)
- 9-353 Crocodile clip**
insulated clip with banana plug connection socket and 10 mm press-stud. (Weight: 18 g)
- 9-354 ESD-handling set foldable - especially for mobile use**
consisting of:
workbench pad, 500 x 400 x 0.35 mm, green, electrically conductive, grained surface, (leakage resistance to DIN IEC 61340-4-1 R_S : ca. 10^8 ohm), with 2 press-studs 10/10 mm; contact bracelet No. 9-342-1, spiral cord 9-342-2 and earth wire No. 9-346 including crocodile clip No. 9-353. (Weight: 170 g)
- 9-355 ESD-handling set foldable - especially for mobile use**
consisting of:
workbench pad, 800 x 600 x 0.2 mm, black, electrically conductive, (leakage resistance to DIN IEC 61340-4-1 R_A below 10^6 ohm); contact bracelet No. 9-342-1, spiral cord 9-342-2 and earth wire No. 9-346 including two crocodile clips No. 9-353. (Weight: 240 g)
- 9-356 ESD-handling set foldable - especially for mobile use**
consisting of:
workbench pad with 2 patch pockets, 680 x 680 x 0.35 mm, green, electrically conductive, grained surface, (leakage resistance to DIN IEC 61340-4-1 R_S : ca. 10^8 ohm), with three press-studs 10/10 mm; contact bracelet No. 9-342-1, spiral cord 9-342-2 and earth wire No. 9-346 including crocodile clip No. 9-353. (Weight: 560 g)
- 9-357 Earthing module**
earthing box with 2 x 10 mm press-stud inputs and 1 x 4 mm safety socket input, per input 1 Mohm safety resistance, earth wire 2000 mm, with dummy Schuko-plug. (Weight: 90 g)
- 9-359 Earth wire with dummy Schuko-plug**
spiral cord 2400 mm long, 1 Mohm safety resistance, one side press-stud 10 mm, other side dummy Schuko-plug. (Weight: 50 g)
- 9-360 ESD-handling set**
consisting of:
workbench pad, **resistant to soldering tin**, 800 x 600 x 1.5 mm, black, from homogeneous, electrically conductive synthetic caoutchouc, slightly grained surface, (leakage resistance to DIN IEC 61340-4-1 R_A : $10^3 - 10^6$ ohm), with 2 press-studs 10/10 mm; contact bracelet No. 9-342-1, spiral cord 9-342-2 and earth wire No. 9-343 including crocodile clip No. 9-353. (Weight: 1160 g)

ESD-SETS

especially for EDP and cash-register

The workbench pads consist of antistatic synthetic caoutchouc, with homogeneous, conductive, black rear. The surface is slightly grained. The synthetic caoutchouc material is very wear- and heat-resistant, nonskid and lies very flat.

Technical data: material thickness 2 mm
leakage resistance (DIN IEC 61340-4-1) R_A : $10^5 - 10^7$ ohm
time of discharge from 5000 to 50 Volt: < 2 Sec.

Colour: **platinum grey**

9-361 ESD-handling set

consisting of:
workbench pad, **resistant to soldering tin**, 800 x 600 x 2.0 mm platinum grey, from conductive synthetic caoutchouc, slightly grained, with homogeneous, electrically conductive black rear, (leakage resistance to DIN IEC 61340-4-1 R_A : $10^5 - 10^7$ ohm), with 2 press-studs 10/10 mm; contact bracelet No. 9-342-1, spiral cord 9-342-2 and earth wire No. 9-343 including crocodile clip No. 9-353. (Weight: 1300 g)

9-348 ESD set / pad 800 x 600 mm

especially for cash-register, EDV-terminals

consisting of:
workbench pad with 1 press-stud 10 mm for the earthing connection; earth wire No. 9-346 including crocodile clip No. 9-353. (Weight: 1300 g)

9-365 ESD set / pad 600 x 300 mm

especially for keyboards
consisting of:
workbench pad with 2 press-studs 10/10 mm for connecting the earth wire and the junction to the mousepad; earth wire with dummy Schuko-plug No. 9-359. (Weight: 570 g)

9-367 ESD set / pad 600 x 450 mm

especially for CPU (central processing units), printer, scanner

consisting of:
workbench pad with 1 press-stud 10 mm for the earthing connection; earth wire with dummy Schuko-plug No. 9-359. (Weight: 800 g)

9-368 ESD set / pad 600 x 600 mm

especially for CPU (central processing unit), printer, scanner

consisting of:
workbench pad with 1 press-stud 10 mm for the earthing connection; earth wire No. 9-346 including crocodile clip No. 9-353. (Weight: 930 g)



9-361



9-365

ESD ACCESSORIES

Grid mats made from solid rubber

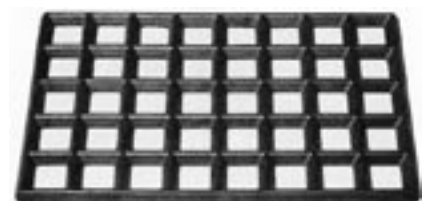
repair support, in conductive execution, according to DIN 482

9-335 Grid mat size I, measure: 625 x 375 x 20 mm

Weight: 2500 g

9-336 Grid mat size II, measure: 700 x 450 x 20 mm

Weight: 3350 g



9-335

Boxes for SMD components

from black, conductive plastic, to be fit into one another at random, hinged cover, closed tightly by spring pull, in 3 different sizes

9-321 SMD box 16 x 12 x 15 mm (internal dimensions)

Weight: 5 g

9-322 SMD box 37 x 12 x 15 mm (internal dimensions)

Weight: 10 g

9-323 SMD box 41 x 37 x 15 mm (internal dimensions)

Weight: 15 g



Chip-container

electrically conductive, black, with lid and pin-cushion lining 5 mm thick, for pins of electrostatically endangered components

9-316 chip-container 118 x 32 x 14 mm (internal dimensions)

Weight: 30 g



ESD/EGB tools please see the special pages in the article groups screwdriver, pliers, tweezers und socket wrenches resp. complete sets of conductive tools under service cases/service boxes.

MAGNIFYING LAMPS

LUXO Magnifying lamp with lens-cover and glare-protection

for 22 W fluorescent light source
with ideal viewing conditions
without excessive heat

Robust arm construction. Two spring-balanced arms with parallel movement. Springs and all moving mechanical parts built into the tubes and covered. The springs are of high-grade tempered steel calibrated to ensure perfect arm balance; with insulated parts in the joints for safety reasons. Qualified for vibrant working-places.

Technical data: Arm length: from bracket to center of lens 120 cm fully extended, reflector-Ø: 23 cm, lens-Ø: 125 mm, lens: fixed 3 diopter bi-convex, magnification: 1 : 1 3/4 or 175 % at a working-distance of 25 cm, Schuko-contact-cable 1.5 m, protection class I. Through additional lens approx. magnification of 1 : 3 3/4 or 375 % possible. Colour: pearl grey

9-101 LUXO Magnifying lamp with bracket (table) standard

All lamps will be delivered without circular fluorescent tube.

Accessories:

9-106 **5-feet-stand with trolley and sliding bracket**

9-107 **Additional lens 4 diopter, magnification 1 : 2 3/4**

9-108 **Additional lens 8 diopter, magnification 1 : 3 3/4**

9-109 **Fluorescent ring lamp 22 W, white**

Magnifying lamp with plastic reflector

for 22 W fluorescent ring light

Good equilibrated arm construction enables maximal setting. It's easy to bring this lamp in the wanted position by the open spring-balanced arms.

Technical data: Total arm length: 105 cm, reflector-Ø 22 cm, lens-Ø 125 mm, lens: fixed 3.0 diopter bi-convex, magnification: 1 : 1 3/4 or 175 %, at a working-distance of 25 cm, Schuko-contact-cable 2.5 m, protection class I, fluorescent tube protected by prism cover. Colour: light grey

9-191 Magnifying lamp with bracket (table) standard

The lamp will be delivered without circular fluorescent tube.

Accessories:

9-109 **Fluorescent ring lamp 22 W, white**

Television service mirror

Finish: chrome-plated guide bar, arm and joints grey lacquered. The distortion-free mirror has a plastic back and is held in a rubber profiled frame. A broken mirror can be replaced in just a few minutes.

9-401 **Control mirror with table bracket**, weight 3.0 kg

9-402 **Control mirror with flange**, weight 2.9 kg

9-404 **Control mirror with 5-feet-stand**, weight 10.3 kg

Technical data: maximum height of guide bar 500 mm, maximum extension of arm 450 mm, mirror 395 x 290 mm



MAGNIFYING LAMPS

LUXO Professional illuminated magnifier

with compact fluorescent tubes 7 W (2 pieces)

This magnifier with rectangular lens permits viewing with both eyes. It is the ideal combination of light and magnifier because of two individual light sources and separate switches for individual operation. With single tube operation, three-dimensional viewing is possible. Shadow-free illumination is provided when both fluorescent tubes are operating.

A spring-balanced arm with parallel motion permits exact positioning of the magnifier making it flexible for every working situation.

Technical data: Arm length from bracket to center of lens 60 cm, reflector 15 x 29 cm, asymmetrical light distribution, lens 17 x 11 cm, 3 diopter, magnification 1 : 1 ³/₄ or 175 % at a working distance of 25 cm, Schuko-contact-cable 1.5 m, protection class I.
Colour: light grey



9-121

9-121 LUXO Professional illuminated magnifier

with table bracket, inclusive 2 tubes 7 W

Accessories:

9-127 **Additional lens 4 diopter, magnification 1 : 2 ³/₄**

9-128 **Additional lens 8 diopter, magnification 1 : 3 ³/₄**

9-129 **Fluorescent tubes 7 W (2 pieces)**

LUXO ESD illuminated magnifier

with compact fluorescent tubes 7 W (2 pieces)



The ESD illuminated magnifier is especially manufactured as an optical assistance in ESD protected areas for working at electrostatically endangered components.

The magnifier head is treated with a special anti-static Polyurethan and the spring balanced arm is epoxyd-coated with a special conductive colour.

In order to avoid reflections and to grant an excellent eyesight, the lense is covered with a very special conductive layer.

The ESD magnifier has been tested with good results adequate to EN 100 015-1.

Construction: as 9-121

Technical data: Arm length from bracket to center of lens 94 cm, reflector 15 x 29 cm, asymmetrical light distribution, lens 17 x 11 cm, 3.5 diopter, magnification 185 % at a working distance of 25 cm, Schuko-contact-cable 1.75 m, protection class I.
Colour: black



9-161



9-161 LUXO ESD illuminated magnifier

with table bracket, inclusive 2 tubes 7 W

Accessories:

9-129 **Fluorescent tubes 7 W (2 pieces)**

MAGNIFYING LAMPS OFFICE LAMPS

Magnifying lamp with plastic reflector

for compact fluorescent tube 9 W

Four-tube spring balanced arm from lacquered steel pipe, open chrome-plated springs, twist protection, 1.5 m cable, protection class II.

Technical data: Total arm length 96 cm, table version 60 cm, lens 150 x 60 mm, 3 diopter, magnification 1 : 1 ³/₄ at a working-distance of 20 cm, reflector 220 x 160 mm.

Colour: white

9-171 Magnifying lamp with table stand

9-172 Magnifying lamp with bracket

All lamps will be delivered without tubes.

Accessories:

9-179 **Fluorescent tube 9 W**

Magnifying lamp with plastic reflector

for 40 W incandescent bulb

Four-tube spring balanced arm from lacquered steel pipe, open chrome-plated springs, twist protection, 1.5 m cable, protection class II.

Technical data: Total arm length 95 cm, lens-Ø 100 mm, 3 diopter, magnification 1 : 1 ³/₄ at a working-distance of 20 cm.

Colour: white

9-181 Magnifying lamp with bracket (table) standard

The lamp will be delivered without incandescent bulb.

LUXO Office and industry lamp

for 15 W fluorescent tubes (2 pieces)

The reflector is designed to distribute a shadow-free light over a large area with a minimum of heat and glare. The two 15 W fluorescent tubes give a light output equivalent to that of a 150 W incandescent bulb. The lamp head is mounted on a heavy-duty arm with built-in springs and parts, with insulated parts in the joints, turnable into any position. Qualified for vibrant working-places, Schuko-contact-cable 1.5 m, protection class I.

Technical data: Total arm length 120 cm, reflector 48 x 10 cm.

Colour: white

9-131 LUXO Fluorescent lamp with bracket (table) standard

The lamp will be delivered without fluorescent tubes.

Accessories:

9-139 **Fluorescent tubes 15 W (2 pieces), white**



MAGNIFYING LAMPS SLIM LINE

**High quality magnifying lamps,
perfect for precise inspection work**

9-701 Magnifying Lamp Deluxe

Glass lens 19 x 17,5 cm (magnification 1,75 X, 3 Diopter)
2 x 13 w energy saving tubes (140 w equiv.),
to serve by 2 independent switches, flicker-free electronic ballast,
total arm length 115 cm, incl. table bracket up to 65 mm,
„Clip-on Lens System“ for quick change of additional lens

Accessories:

9-707 **Additional Lens** for 9-701, magnification 2,75 X,
7 Diopter, when combined with Magnifying Lamp Deluxe

9-711 Magnifying Lamp Ultra-Slim

Glass lens Ø 17,5 cm (magnification 1,75 X, 3 Diopter)
28 w energy saving circular tube (150 w equiv.),
flicker-free electronic ballast,
total arm length 115 cm, incl. table bracket up to 65 mm,
„Quick Lens Swap System“ for quick lens change

Accessories:

9-717 **Lens** for 9-711, magnification 2,25 X, 5 Diopter

9-721 Magnifying Lamp SLIM LINE

2 lenses each Ø 13 cm (magnification 1,75 X and 2,25 X,
3 / 5 diopt.), 22 w energy saving circular tube (100 w equiv.),
flicker-free electronic ballast,
total arm length 95 cm, incl. table bracket up to 65 mm,
„Quick Lens Swap System“ for quick lens change



9-701



9-711



9-721

STEREO-MICROSCOPE

with light shadow-free illumination

The microscope is especially well suited for reliable
monitoring details of materials and assemblies as well as
precision work in SMD technology.

Technical details:

Stereo-Head: 45° oblique view, 360° rotating
pupillary distance adjustable from 54 - 74 mm
Size of base: 200 x 150 mm
Magnification: 10 x / 20 x
with attachment lens extensionable up to 40 x
Ocular: wide field 10 x
eyepiece with diopter adjustment +- 5 dpt,
eyepiece cup
Support: stable metal support, length 245 mm,
black-white plastic plate for illumination
Illumination: LED ring light source with light shadow-free illumination,
fitted at turret head, life time 20.000 h, with flicker-free
LED light (light colour 5800 K), luminosity 0 - 15.000 lux
continuously adjustable (with 80 mm work distance), voltage
variable from 100 V - 240 V / 60 / 50 Hz, output voltage 18 V / 3,6 W
Work Distance: 83 mm at magnification 10 x / 20 x
Visionfield: Ø 19 mm 10 x, Ø 9,5 mm 20 x

9-155 Stereo-Microscope with table stand

9-158 Stereo-Microscope

as 9-155, however with stable hinge arm, 850 mm length
with 3 setscrews in the spring arms, optional adjustable,
with table clamp as well as screw down table foot



9-158



9-155

SOLDERING IRONS AND ACCESSORIES

ERSA fine soldering iron Tip 260 / 16 W

Light and handy soldering iron (16 W) with PTC-heating element and internally heated ERSADUR long-life soldering tip. Short heating time (60 s). Tip temperature: 350° C; voltage: 230 V.



8-110

8-110 Tip 260 with ERSADUR long-life soldering tip 0162 BD and holder OA18
Accessories:

8-140	ERSADUR long-life soldering tip, angled face	0162 LD
8-142	ERSADUR long-life soldering tip, chisel-shaped	0162 KD
8-144	ERSADUR long-life soldering tip, pencil point	0162 BD

ERSA fine soldering iron Multitip C 15 / 15 W

Optimal soldering tool for printed circuit boards, small relay connections, wire connection works. Short heating time (60 s), PTC-heating element 154, internally heated ERSADUR long-life soldering tip. Soldering tip temperature: 350° C; voltage: 230 V.



8-135

8-135 Multitip 0910 BD with ERSADUR long-life soldering tip 0162BD and holder OA18
Accessories:

8-140	ERSADUR long-life soldering tip, angled face	0162 LD
8-142	ERSADUR long-life soldering tip, chisel-shaped	0162 KD
8-144	ERSADUR long-life soldering tip, pencil point	0162 BD

ERSA fine soldering iron Multitip C 25 / 25 W

Powerful soldering tool for medium-sized soldering work on plugs, multiterminal strips and printed circuit boards. Short heating time (60 s), PTC-heating element, internally heated ERSADUR long-life soldering tip. Tip temperature: 450° C; voltage: 230 V.



8-155

8-155 Multitip 0920 BD with ERSADUR long-life soldering tip 0032KD and holder OA18
Accessories:

8-160	ERSADUR long-life soldering tip, angled face	0172 LD
8-162	ERSADUR long-life soldering tip, chisel-shaped	0172 KD
8-164	ERSADUR long-life soldering tip, pencil point	0172 BD

ERSA universal soldering iron 30 S / 30 (40) W

Universal soldering iron with practical supportable ring and ERSADUR long-life soldering tip tested a million times over. Rating: 30 (40) W; heating time: approx. 2 min; tip temperature: 380 (420)° C; voltage: 230 V.



8-145

8-145 ERSA 0330 KD with ERSADUR long-life soldering tip 0032KD and holder 3N194

8-147 ERSA 0340 KD with ERSADUR long-life soldering tip, 40 W

Accessories:
8-150 ERSADUR long-life soldering tip, chisel-shaped 0032 KD
8-152 ERSADUR long-life soldering tip, angled face 0032 JD



8-170

ERSA electronic temperature-controlled soldering iron Multi-TC, 0760CD

8-170 Electronic temp.-controlled soldering iron, 75 W / 230 V, with ERSADUR long-life soldering tip 0842 CD and holder OA18

ERSA high-speed soldering gun Multi-Sprint, 0960 ED

Unusually light and transformer-independent soldering gun with internally heated ERSADUR long-life soldering tip. Extremely short warm-up and cooling-off time. Optimal soldering equipment for service and maintenance purpose. Cold rating: approx. 150 W - heated rating: approx. 75 W, heating time: approx. 20 s, voltage: 230 V



8-311

8-311 High-speed soldering gun Multi-Sprint with ERSADUR long-life soldering tip 0832 ED LF

SMD-VACUUMPIPETTE

ERSA SMD-Vacuumpipette SMD-Vampir SVP 100

Vacuumpipette for easy, safety and precise handling of SMD components. Various antistatic vacuum cups (4, 6 and 9 mm) and the bent vacuum nozzle made from high-grade steel enable a large field of application.



8-238

8-238 ERSA SMD-Vampir OSVP 100



GAS SOLDERING IRONS

The progressive gas soldering iron is suitable for laboratories, service and production.

- 8-375 **ERSA gas soldering iron Independent 75, OGO 70KN**
with soldering tip OGO 72 KN
adjustable gas supply 15 - 75 W,
heating up time ca. 46 sek. (280° C)
max. temperature ca. 580 °C.



8-375

- 8-396 **PORTASOL gas soldering iron**
with soldering tip 8-396-2
adjustable gas supply 10 - 60 W,
heating up time ca. 20 sek.
max. temperature ca. 450 °C.

Accessories:

- 8-396-1 spare soldering tip 1.0 mm
8-396-2 spare soldering tip 2.4 mm
8-396-3 spare soldering tip 3.2 mm



8-396-1

8-396-2

8-396-3

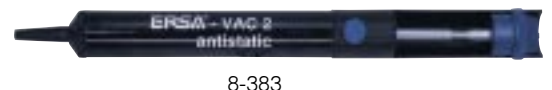


8-396

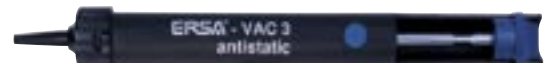
DESOLDERING PUMPS

ERSA desoldering device VAC 2, VAC 3 und VAC X are distinguished by their high suction power. The **antistatic design** of the device allows desoldering work on electrostatically endangered assemblies.

- 8-383 **ERSA Desoldering pump OVAC 2**, suction capacity 8.9 cm³
8-384 **ERSA Desoldering pump OVAC 3**, suction capacity 10 cm³
8-385 **ERSA Desoldering pump OVAC X**, suction capacity 11.3 cm³



8-383



8-384

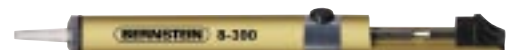


8-385

Desoldering suction pumps PRAKTIK

Handy tools in an all-metal cabinet with interchangeable teflon bit, high suction capacity by dual-sealing of the bulb.
Colour: gold

- 8-390 **Desoldering pump**
195 mm long, 20 mm Ø



VACUUM PUMPS

- 9-550 **BERNSTEIN Vacuum pump SMD VAC**
with suction hose, pipette, 4 different suction needles

This vacuum pump is distinguished by its low-noise and low-vibration running and is maintenance-free with a long service-life. The pump offers optimum conditions for manual application of SMD components. The vacuum pipette has a finger hole lower down which can be closed with the index finger in order to pick up the component. Technical data: output 5.0 l/min, vacuum 160 mbar, operating pressure 0.4 bar, power supply 220 V / 50 Hz, input 0.5 Amp., dimensions 210 x 150 x 100 mm.

Spare suction needles:

- 9-550-14 Suction needle, 1.60 mm Ø; 9-550-15 Suction needle, 1.37 mm Ø
9-550-18 Suction needle, 0.84 mm Ø; 9-550-21 Suction needle, 0.51 mm Ø



- 9-580 **Vacuum pump, brand "Schwarzer"**

Technical data: Vacuum 250 mbar
Power output 4,5 l/min
Voltage 220 V / 50 Hz

