

Safety tools



INFO

Screwdriver range

Industrial quality

Screwdriver range according to the new Norm IEC 60900:2012. All blades are made of high quality Molybdenum vanadium steel, black, red-covered, Polypropylen moulded. This ergonomic moulded 2-component handles from PP/TPE material guarantees a high security with normal power transmission. Every screwdriver is individually tested and marked according to the new Norm.



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Injected blades profile on the top of the handle – for a fast access in the tool box, abrasion is not possible



2

Homogeneous sizes-adaptation of the screwdrivers haft for better power transmission. Increase of the soft area for stronger grip

3

Exclusive, ergonomic design, non-slipping 2-component handles from PP/TPE material

4

Roll repressive



5

with 1000 V marking injected

6



Magnetic blade

An addition anti-slip protection on Phillips profiles prevents the tool from slipping out of the screw. Silver tip protects from corrosion.

VDE screwdrivers 1000 V

VDE 2-component screwdriver with PZ slot profile



Specifications and advantages of the PZ/FL profile.

The PZ/FL profile can only be used for combination screws that were previously screwed with a slot or recessed head PZ type screwdriver. The screws have an inner PZ profile with an additional cross slot that also allows it to be screwed with a slot screwdriver.



Area of application for PZ/FL profile

The screws are mainly used in electrical installation in automatic circuit breakers and safety switches



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Art. no.	size	BL	TL	form	kg	PU
101870	1	80	205	PZ/FL	0,060	1
101872	2	100	270	PZ/FL	0,094	1

Screwdriver set with PZ slot profile



with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated

Contents:

- 101870
- 101872



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Art. no.	size	form	set	kg	PU
101879	1 + 2	PZ/FL	2-pieces	0,200	1

2-component VDE electricians' screwdrivers



with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated



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Art. no.	CW	KSt	BL	TL	kg	PU
101910	2,5	0,4	75	155	0,027	1
101912	3	0,5	100	185	0,029	1
101914	3,5	0,6	100	185	0,035	1
101916	4	0,8	100	195	0,052	1
101917	4	1,0	100	195	0,054	1
101918	5,5	1,0	125	230	0,070	1
101920	6,5	1,2	150	255	0,108	1
101922	8	1,2	175	295	0,177	1
101924	10	1,6	200	320	0,245	1

2-component VDE cross slotted screwdrivers Phillips

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated, engraving on the blade ensures extra grip in the screw



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Art. no.	size	BL	TL	form	kg	PU
101940	0	60	145	PH	0,034	1
101942	1	80	175	PH	0,061	1
101944	2	100	205	PH	0,100	1
101946	3	150	270	PH	0,165	1

2-component VDE cross slotted screwdrivers Pozidriv

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated



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Art. no.	size	BL	TL	form	kg	PU
101950	0	60	135	PZ	0,033	1
101952	1	80	175	PZ	0,061	1
101954	2	100	205	PZ	0,095	1
101956	3	150	270	PZ	0,166	1

2-component VDE screwdrivers Tx

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated

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Art. no.	size	BL	TL	form	kg	PU
101850	8	100	185	TX	0,053	1
101852	9	100	185	TX	0,051	1
101854	10	100	195	TX	0,053	1
101856	15	100	195	TX	0,053	1
101858	20	100	195	TX	0,052	1
101860	25	125	220	TX	0,070	1
101862	27	125	230	TX	0,072	1
101864	30	150	255	TX	0,109	1
101866	40	175	295	TX	0,178	1

2-component VDE screwdrivers Square

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated

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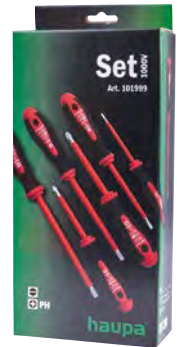
Art. no.	size	BL	TL	form	kg	PU
102550	0	60	145	SQ	0,034	1
102552	1	80	175	SQ	0,061	1
102554	2	100	205	SQ	0,095	1
102556	3	150	270	SQ	0,166	1

2-component VDE screwdrivers set

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated, 6-pieces. **Contents:** VDE Electricians' screwdriver 2,5 x 75 mm, 4 x 100 mm, 5,5 x 125 mm, 6,5 x 150 mm, VDE cross slotted screwdrivers Phillips or Pozidriv size 1 and 2



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Art. no.	form	set	kg	PU
101999	Phillips	6-pieces	0,414	1
101999/PZ	Pozidriv	6-pieces	0,416	1

VDE socket wrenches 1000 V

2-component VDE socket wrenches DIN 7445

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated

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Art. no.	WS	BL	TL	kg	PU
102520	4	125	220	0,105	1
102522	5	125	220	0,109	1
102524	5,5	125	220	0,116	1
102526	6	125	220	0,111	1
102528	7	125	230	0,116	1
102530	8	125	230	0,119	1
102532	9	125	230	0,122	1
102534	10	125	230	0,125	1
102536	11	125	245	0,167	1
102538	12	125	245	0,165	1
102540	13	125	245	0,175	1

2-component VDE socket wrenches set DIN 7445

with 2 component handle made from PP/TPE material, blade made from molybdenum vanadium steel, hardened, blasted, routine checked, insulated. **Contents:** 1 piece each 5 - 5,5 - 7 - 8 - 10 - 11 - 13 mm

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Art. no.	set	kg	PU
102512	7-pieces	1,065	1

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„Vario“ 1000 V replaceable blade system

„Vario“ 1000 V replaceable blade system

Vario
1000V

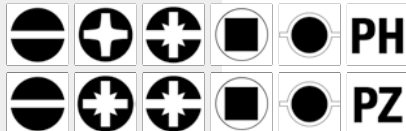
in robust nylon bag, **Contents:** 2C exchangeable handle, screw cap, replaceable blade - slotted blade 0.4 x 2.5 / 0.5 x 3.0 / 0.8 x 4.0 / PH1 / PH2 or PZ1 / PZ2, PZ/FL 2, switch cabinet key - square 1, double-bit

Further characteristic feature include:

- High level of safety
- Exchangeable cap for use as an electronics screwdriver
- Switching cabinet key is integrated into the system
- Space-saving
- Weight-saving
- Cost-effective price/performance ratio
- Meets all relevant standards



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Art. no.	form	shank	set	kg	PU
102000	Phillips	hexagonal	10 pieces	0,340	1
102000/PZ	Pozidriv	hexagonal	10 pieces	0,334	1

„Vario“ nylon bag - empty

Robust nylon bag (with belt loop) wide hook and eye fastening and loop for hanging up



Art. no.	width	height	kg	PU	
102042	empty	215	290	0,088	1

2-component exchangeable „Vario“ handle

automatic locking mechanism ensures that blades do not fall out unexpectedly, ergonomically formed 2 component book of PP/TPE material

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Art. no.	TL	shank	kg	PU
102040	120	hexagonal	0,058	1

„Vario“ screw cap

Additional screw cap when using as precision tool (electronics)



Art. no.	TL	kg	PU
102044	10	0,002	1

„Vario“ 1000 V replaceable blade

Insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, with hexagonal shaft, greater torque transmission than a pure pozidrive or slotted blade

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„Vario“ replaceable blade – pozidrive blade/slotted

Art. no.	form	size	BL	TL	kg	PU
102010	PZ/FL	1	85	165	0,035	1
102012	PZ/FL	2	85	165	0,045	1

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„Vario“ replaceable blade – slotted blade

Art. no.	form	CW	KSt	BL	TL	kg	PU
102014	SL	2,5	0,4	85	165	0,013	1
102016	SL	3,0	0,5	85	165	0,015	1
102017	SL	3,5	0,6	85	165	0,080	1
102018	SL	4,0	0,8	85	165	0,022	1
102020	SL	5,5	1,0	85	165	0,034	1
102022	SL	6,5	1,2	85	165	0,045	1

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„Vario“ replaceable blade – Phillips blade

Art. no.	form	size	BL	TL	kg	PU
102001	PH	0	85	165	0,023	1
102002	PH	1	85	165	0,035	1
102004	PH	2	85	165	0,044	1

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„Vario“ replaceable blade – pozidrive blade

Art. no.	form	size	BL	TL	kg	PU
102005	PZ	0	85	165	0,023	1
102006	PZ	1	85	165	0,035	1
102008	PZ	2	85	165	0,045	1

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„Vario“ replaceable blade – torx blade

Art. no.	form	size	BL	TL	kg	PU
102060	S-TX	8	85	165	0,016	1
102062	S-TX	9	85	165	0,016	1
102064	S-TX	10	85	165	0,016	1
102066	S-TX	15	85	165	0,021	1
102068	S-TX	20	85	165	0,021	1
102070	S-TX	25	85	165	0,034	1
102072	S-TX	30	85	165	0,041	1

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„Vario“ switch cabinet key – Square

Art. no.	size	TL	kg	PU
102030	6	47	0,010	1
102032	8	47	0,009	1

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„Vario“ switch cabinet key – Triangular

Art. no.	size	TL	kg	PU
102034	9	47	0,009	1

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„Vario“ switch cabinet key – Double-bit

Art. no.	size	TL	kg	PU
102036	5,3	47	0,009	1

„Vario“ 1000 V replaceable blade system

„VarioPro“ 1000 V replaceable blade system



The „VarioPro“ replaceable blade system with insulated replaceable blades, switching cabinet key is integrated into the system, VDE pliers set and voltage tester.

Contents:

- Slot: 0.4 x 2.5 x 100, 0.5 x 3.0 x 100, 0.6 x 3.5 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 100, 1.2 x 6.5 x 100
- Phillips: 0 x 100, 1 x 100, 2 x 100
- Pozidriv: 0 x 100, 1 x 100, 2 x 100
- PZ/FL 1, PZ/FL 2
- Tx: 8 x 100, 9 x 100, 10 x 100, 15 x 100, 20 x 100, 25 x 100, 30 x 100
- Square: 8 x 47
- Double-bit: 5,3 x 47
- Screw cap, additional screw cap when using as precision tool (electronics)
- 2-component exchangeable handle: 120 mm
- Voltage testers VDE/GS: 100700, 125-250 V
- VDE 2C pliers: 211200*, 211204*, 211208*, 211214

*High leverage (high leverage pliers offer power saving of up to 50%)



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Video 102050



Placeholders for torque handle



Art. no.	set	width	height	depth	kg	PU
102052	30-pieces	410	310	85	3,200	1



Tool case „ElectroCombo“

black plastic case with metal catch, complete tool set for electricians and network technicians, case: 490 x 375 x 100 mm

Contents:

- 2C-VDE combination pliers, 180 mm*
- 2C-VDE side cutters, 160 mm*
- 2C-VDE wire stripping pliers, 160 mm
- 2C-VDE long chain nose pliers, straight, 200 mm*
- Cable cutter 160 mm, coating-insulated
- Crimping pliers for end sleeves 0,5 - 16 mm²
- Set ball point allen keys 9-pcs., extra long
- 2C exchangeable „Vario“ handle
- „Vario“ replaceable blade - slotted blade 2.5, 3, 4, 5.5 mm
- „Vario“ replaceable blade - Phillips blade 1, 2
- „Vario“ replaceable blade - pozidrive blade 1, 2
- „Vario“ replaceable blade - pozidrive blade/slotted 1 + 2
- Voltage tester „Basic“, black
- Spanners for switch-cabinets „HUPkey“
- Utility knives
- Junior hacksaw 150 mm
- Electricians' chisels 10 x 250 mm
- Cabinet levels 230 mm
- Measuring tape, 5 m
- Reversible ratchet 1/4"
- Engineers' hammer, 300 g
- Extension 1/4" 100 mm
- Sockets 1/4" WS: 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm
- Ratchet screwdriver „FlexPlus“ for long bits
- 1/4" Bits 50mm HEX 2, 2.5, 3, 4, 5, 6
- 1/4" Bits 50mm PH 0, 1, 2, 3
- 1/4" Bits 50mm PZ 0, 1, 2, 3
- 1/4" Bist 50mm FD 3, 4, 5, 6
- 1/4" Bits 50mm TX 10, 15, 20, 25, 30, 40
- 1/4" Bits 50mm PZ/FL 1 + 2
- 1/4" SQ x 1/4" HEX adapter 50 mm
- Assortment box 160 x 115 x 40 mm

*High leverage (high leverage pliers offer power saving of up to 50%)



Art. no.	set	width	height	depth	kg	PU
104090	78-pieces	490	375	100	6,000	1

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INFO

Dynamometric screwdriver with replaceable blades

The new HAUPA 1000 V VarioTQ dynamometric screwdriver is characterised by its precision and functionality.

The ergonomic handles can be adjusted individually.

1. 1.0 - 6.0 Nm
2. 0.5 - 3.5 Nm

HAUPA offers all relevant blade tip profiles as individual items and in set form in a high-quality nylon case.

- torque can be set using a separate key
- scale value can easily be read off
- clearly perceptible and audible signal when the set torque is achieved
- torque accuracy according to EN ISO 6789:2013-10



VarioTQ 1000V

with hexagonal shaft



1000 V IEC 60900:2012

insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted

Precisely adjustable torque

Two handle versions, also available individually:

Art. no. 102790
1.0 - 6.0 Nm

Art. no. 102792
0.5 - 3.5 Nm



„VarioTQ“ 1000 V replaceable blade system

„VarioTQ“ 1000 V dynamometric screwdriver with replaceable blades - Phillips / Pozidriv

VarioTQ

insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, with hexagonal shaft, in robust nylon bag (with belt loop and hook and loop closure)

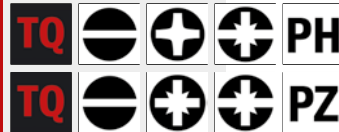
Contents:

- 2-component exchangeable handle (1000 V) 1 - 6 Nm or 0,5 - 3,5 Nm
- slotted 0,4 x 2,5 / 0,5 x 3,0 / 0,8 x 4,0 / 1,0 x 5,5 / 1,2 x 6,5
- PH0 / PH1 / PH2 or PZ0 / PZ1 / PZ2
- PZ/FL 1
- PZ/FL 2
- Square socket key



1000 V IEC 60900:2012

Video 102700



Art. no.	form	Nm	set	kg	PU
102700	PH	1 - 6	12 pieces	0,700	1
102701	PH	0,5 - 3,5	12 pieces	0,700	1
102700/PZ	PZ	1 - 6	12 pieces	0,700	1
102701/PZ	PZ	0,5 - 3,5	12 pieces	0,700	1

„VarioTQ“ 1000 V replaceable blade system

„VarioTQ“ 1000 V dynamometric screwdriver with replaceable blades - Tx / Hex



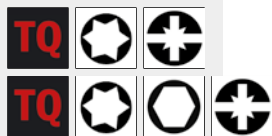
insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, with hexagonal shaft, in robust nylon bag (with belt loop and hook and loop closure)

Contents:

- 2-component exchangeable handle (1000 V) 1 - 6 Nm or 0,5 - 3,5 Nm
- TX 8 - 9 - 10 - 15 - 20 - 25 - 30 or TX 8 - 9 - 10 - 15 - 20, HEX 4 - 5
- PZ/FL 1
- PZ/FL 2
- Square socket key



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Art. no.	form	Nm	set	kg	PU
102702	TX	1 - 6	11-pieces	0,700	1
102703	TX	0,5 - 3,5	11-pieces	0,700	1
102706	TX+HEX	1 - 6	11-pieces	0,760	1
102707	TX+HEX	0,5 - 3,5	11-pieces	0,760	1

„VarioTQ“ 1000 V dynamometric screwdriver with replaceable blades - Hex



insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, with hexagonal shaft, in robust nylon bag (with belt loop and hook and loop closure)

Contents:

- 2-component exchangeable handle (1000 V) 1 - 6 Nm or 0,5 - 3,5 Nm
- HEX 2 - 3 - 3,5 - 4 - 4,5 - 5 - 5,5 mm
- PZ/FL 1
- PZ/FL 2
- Square socket key



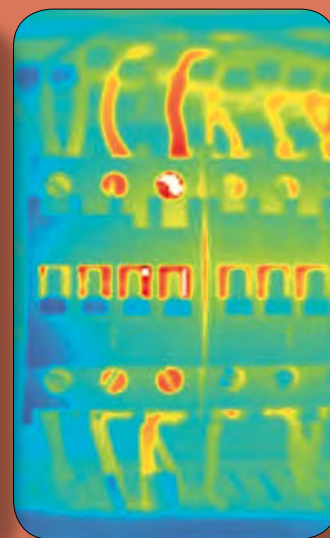
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Art. no.	form	Nm	set	kg	PU
102704	HEX	1 - 6	11-pieces	0,700	1
102705	HEX	0,5 - 3,5	11-pieces	0,700	1

Torque screwdriver for a proper screw connection

- The use of tightening torques is a prerequisite for manufacturer-compliant fastening with type-tested switchgear.
- Screws are tightened neither too much, nor too little. Thus an increased transfer resistance and the emergence of glowing contacts are prevented.
- **NO FIRE HAZARD**



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„VarioTQ“ 1000 V replaceable blade system

„VarioTQ“ 1000 V nylon bag – empty

Robust nylon bag (with belt loop) wide hook and eye fastening and loop for hanging up



Art. no.		kg	PU
102785	empty	0,115	1

2-component exchangeable „VarioTQ“ 1000 V handle

automatic locking mechanism ensures that blades do not fall out unexpectedly, ergonomically formed 2 component book of PP/TPE material, precisely adjustable torque

1000 V IEC 60900:2012



TQ

Art. no.	TL	Nm	kg	PU
102790	122	1 - 6	0,185	1
102792	122	0,5 - 3,5	0,185	1

Square socket key

for adjustment of the torque for VarioTQ replacement blades



Art. no.	form	BL	KIBr	kg	PU
102784	SQ	40	8	0,056	1

„VarioTQ“ 1000 V replaceable blade

Insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, individually tested with hexagonal shaft

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„VarioTQ“ 1000 V replaceable blade – pozidrive blade/slotted

Art. no.	form	size	BL	TL	kg	PU
102780	PZ/FL	1	195	195	0,040	1
102782	PZ/FL	2	195	195	0,040	1

1000 V IEC 60900:2012



„VarioTQ“ 1000 V replaceable blade – slotted blade

Art. no.	form	CW	KSt	BL	TL	kg	PU
102710	SL	2,5	0,4	195	195	0,040	1
102712	SL	3,0	0,5	195	195	0,040	1
102714	SL	4,0	0,8	195	195	0,040	1
102716	SL	5,5	1,0	195	195	0,040	1
102718	SL	6,5	1,2	195	195	0,040	1

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„VarioTQ“ 1000 V replaceable blade – Phillips blade

Art. no.	form	size	BL	TL	kg	PU
102720	PH	0	195	195	0,040	1
102722	PH	1	195	195	0,040	1
102724	PH	2	195	195	0,040	1
102726	PH	3	195	195	0,040	1

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„VarioTQ“ 1000 V replaceable blade – pozidrive blade

Art. no.	form	size	BL	TL	kg	PU
102730	PZ	0	195	195	0,040	1
102732	PZ	1	195	195	0,040	1
102734	PZ	2	195	195	0,040	1
102736	PZ	3	195	195	0,040	1

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„VarioTQ“ 1000 V replaceable blade – torx blade

Art. no.	form	size	BL	TL	kg	PU
102740	TX	8	195	195	0,040	1
102742	TX	9	195	195	0,040	1
102744	TX	10	195	195	0,040	1
102746	TX	15	195	195	0,040	1
102748	TX	20	195	195	0,040	1
102750	TX	25	195	195	0,040	1
102752	TX	30	195	195	0,040	1

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„VarioTQ“ 1000 V replaceable blade – hex blade

Art. no.	form	size	BL	TL	kg	PU
102760	HEX	2	195	195	0,040	1
102762	HEX	3	195	195	0,040	1
102764	HEX	3,5	195	195	0,040	1
102766	HEX	4	195	195	0,040	1
102768	HEX	4,5	195	195	0,040	1
102770	HEX	5	195	195	0,040	1
102772	HEX	5,5	195	195	0,040	1

INFO

2 component pliers

Industrial quality

HAUPA divides the VDE pliers assortment into three groups.

1. 2C VDE pliers with plug-on handles
2. VDE pliers, coating-insulated, treated with a 2-coloured coating-isolation (outside red/inside yellow)
3. VDE pliers with a 2-coloured coating-isolation (outside red/inside yellow), working head insulated

These pliers fulfil the VDE standard IEC 60900:2012

High leverage | perfected cutting force performance

High leverage pliers offer power saving of up to 50%.

Combination pliers DIN ISO 5746 VDE

german pattern, comfort grip, alloyed carbon steel, C 45, oil-hardened, cutting edges induction hardened, for soft and hard wire, chrome plated, sheathed handles, **leveraged, perfected cutting force performance.**



1000 V IEC 60900:2012



Art. no.	TL		kg	PU
211198	160	IEC 60900	0,000	1
211200	180	VDE	0,287	1
211202	200	VDE	0,364	1

Side cutters DIN ISO 5749 VDE

swedish pattern, high alloyed carbon steel, oil-hardened, C 60, cutting edges induction hardened, for soft and hard wire, chrome plated, sheathed handles, **leveraged, perfected cutting force performance.**



1000 V IEC 60900:2012



Art. no.	TL		kg	PU
211199	140	IEC 60900	0,000	1
211204	160	VDE	0,237	1
211206	180	VDE	0,296	1

Side cutting pliers with stripping function 1000 V

Swedish design, power class H, C 60, oil-hardened, induction hardened blades, for hard and soft wire, chrome plated, push-on grips. Aside from their traditional advantages, these side cutting pliers also possess an additional wire stripping function. (art. 211207, **leveraged, perfected cutting force performance.**)

1000 V IEC 60900:2012



Art. no.	TL		kg	PU
211203	160	IEC 60900	0,296	1
211207	180	IEC 60900	0,296	1

Wire stripping pliers VDE

C 45, oil-hardened, with spring and adjustment screw, for cable of 0,2 - 6 mm Ø, chrome plated, sheathed handles



1000 V IEC 60900:2012



Art. no.	TL		kg	PU
211214	160	VDE	0,202	1

Heavy duty side cutters DIN ISO 5745 VDE

C 60, cutting edges induction hardened, chrome plated, sheathed handles



1000 V IEC 60900:2012



Art. no.	TL		kg	PU
211211	160	IEC 60900	0,000	1
211217	170	VDE	0,268	1

Heavy duty side cutters DIN ISO 5749 VDE

C 60, cutting edges induction hardened, chrome plated, sheathed handles, **leveraged, perfected cutting force performance.**



1000 V IEC 60900:2012



Art. no.	TL		kg	PU
211219	200	VDE	0,322	1

Long chain nose pliers DIN ISO 5745 VDE

with side cutter, straight, C 45, oil-hardened, cutting edges induction hardened, for soft and hard wire, chrome plated, sheathed handles, **leveraged, perfected cutting force performance.**



1000 V IEC 60900:2012



Art. no.	TL		kg	PU
211213	160	- IEC 60900	0,000	1
211208	200	- VDE	0,255	1

Long chain nose pliers DIN ISO 5745 VDE, 45°

with side cutter, 45° angled nose, C 45, oil-hardened, cutting edges induction hardened, for soft and hard wire, chrome plated, sheathed handles, **leveraged, perfected cutting force performance.**



1000 V IEC 60900:2012



Art. no.	TL		kg	PU
211209	160	45° IEC 60900	0,000	1
211210	200	45° VDE	0,260	1

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VDE pliers, sheathed handles 1000 V

Short flat nose pliers DIN ISO 5745 VDE

C 45, oil-hardened, chrome plated, short body, sheathed handles



▲ 1000 V IEC 60900:2012



Art. no.	TL		kg	PU
211212	160	VDE	0,168	1

Short round nose pliers DIN ISO 5745 VDE

C 45, alloyed carbon steel, oil-hardened, chrome plated, sheathed handles



▲ 1000 V IEC 60900:2012



Art. no.	TL		kg	PU
211216	160	VDE	0,161	1

Water pump pliers DIN ISO 8976 VDE

self-clamping water pump plier with head adjustment, non-slip, chrome plated, sheathed handles



▲ 1000 V IEC 60900:2012



Art. no.	TL		kg	PU
211221	240	VDE	0,392	1

Cable cutters VDE

- For cutting Cu/Al cables, fine and multi-wiring
- Chrome vanadium steel, plug-on handles
- Insulating function in upper head area
- Cable measuring function thanks to the 180 degree crossover of the legs
- Not for solid conductors

Art. 211225 (Art. 211223)

- Data, telephone and control cable, maximum Ø 10 mm (Ø 12 mm)
- Cu single wire, maximum 16 mm² (16 mm²)
- Cu fine wire, maximum 16 mm² (35 mm²)
- Cu multi-wire, maximum 16 mm² (25 mm²)
- Al single wire, maximum 16 mm² (25 mm²)
- Al multi-wire, maximum Ø 10 mm = 16 mm² (25 mm²)



▲ 1000 V IEC 60900:2012

Ø	Ø	Cu		
10	12	AL		

Art. no.	TL	Ø	mm ²		kg	PU
211225	160	10	16	VDE	0,215	1
211223	200	12	35	VDE	0,352	1

Cable cutters VDE with spring joint

- For cutting Cu/Al cables, fine and multi-wiring
- Not suitable for steel wire and wire rope
- Chrome vanadium steel
- Self-opening joint spring
- Enormous cutting power with reduced force expenditure
- Not for solid conductors



▲ 1000 V IEC 60900:2012

Ø	Ø	Cu		
10	15	AL		

Art. no.	TL	Ø	mm ²		kg	PU
211226	170	10	25	VDE	0,268	1
211228	230	15	70	VDE	0,457	1

2 components pliers set VDE, sheathed handles

with VDE-safety-isolation, best quality, pliers chrome plated, 4-pieces.

Contents:

- Combination pliers 180 mm
- Side cutter 160 mm
- Long chain nose pliers 200 mm
- Wire stripping pliers 160 mm



▲ 1000 V IEC 60900:2012

Art. no.	set		kg	PU
220123	4-pieces	VDE	1,063	1

Fully insulating 1000 V PVC flat nose pliers

all of plastic, specially for mounting and blocking of electricmeters

▲ 1000 V IEC 60900:2012



Art. no.	TL		kg	PU
120051	190		0,109	1

Flat nose pliers 1000 V

all of plastic, specially for mounting and blocking of electricmeters

▲ 1000 V IEC 60900:2012



Art. no.	TL		kg	PU
120052	160		0,084	1

VDE-pliers, 2-coloured coating-insulation 1000 V

Combination pliers DIN ISO 5746 VDE

alloyed carbon steel, C 45, oil-hardened, cutting edges induction hardened, for soft and hard wire, german pattern, chrome plated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	TL	kg	PU
210056	180	0,300	1
210058	200	0,418	1

Side cutters DIN ISO 5749 VDE

swedish pattern, high alloyed carbon steel, oil-hardened, C 60, cutting edges induction hardened, for soft and hard wire, chrome plated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	TL	kg	PU
210100	160	0,253	1
210102	180	0,303	1

Side cutters DIN ISO 5749 VDE

swedish pattern, high alloyed carbon steel, oil-hardened, C 60, cutting edges induction hardened, for soft and hard wire, chrome plated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	TL	kg	PU
210110	240	0,489	1
210117	180	0,274	1
210119	200	0,368	1

Front cutters 1000 V

alloyed carbon steel, cutting edges induction hardened, chrome plated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	TL	kg	PU
210303	160	0,328	1

Long chain nose pliers DIN ISO 5745 VDE

alloyed carbon steel, C 45, oil-hardened, cutting edges induction hardened, for any wire, chrome plated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	TL	kg	PU
210388	200	0,270	1

Long chain nose pliers DIN ISO 5745 VDE, 45°

alloyed carbon steel, C 45, oil-hardened, cutting edges induction hardened, for any wire, chrome plated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	TL	kg	PU
210390	200	0,256	1

Short round nose pliers DIN ISO 5745 VDE

C 45, alloyed carbon steel, oil-hardened, chrome plated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	TL	kg	PU
210296	160	0,180	1

Short flat nose pliers DIN ISO 5745 VDE

C 45, alloyed carbon steel, oil-hardened, chrome plated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	TL	kg	PU
210270	160	0,187	1



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Wire stripping pliers VDE

C 45, oil-hardened, with spring and adjustment screw, for cable of 0,2 - 6 mm Ø, chrome plated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	TL	kg	PU
210648	160	0,232	1

Water pump pliers DIN ISO 8976 1000 V

heavy pattern, made of chrome vanadium steel, with roll, chrome plated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	TL	kg	PU
210588	260	0,590	1

Water pump pliers DIN ISO 8976 1000 V

chrome vanadium, 31 Cr V3, box-joint, burner hole, teeth induction hardened, finger protection, oil-hardened, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



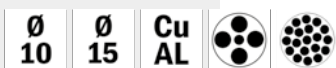
Art. no.	TL	kg	PU
210583	300	0,423	1

Cable cutters 1000 V with spring joint

- For cutting Cu/Al cables, fine and multi-wiring
- Not suitable for steel wire and wire rope
- Chrome vanadium steel
- Self-opening joint spring
- Enormous cutting power with reduced force expenditure
- Not for solid conductors



1000 V IEC 60900:2012



Art. no.	TL	Ø	mm ²	kg	PU
200086/VDE	205	10	25	0,274	1
200088/VDE	230	15	70	0,479	1

Pliers set, 2-coloured coating-insulation

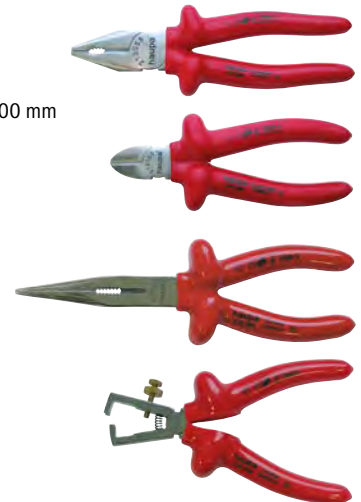
C 45, oil-hardened, 2-coloured coating-insulation - inside yellow/ outside red. Pliers chrome plated, 4-pieces.

Contents:

- Combination pliers 180 mm
- Diagonal cutters 160 mm
- Long chain nose pliers, straight 200 mm
- Wire stripping pliers 160 mm



1000 V IEC 60900:2012



Art. no.	set	kg	PU
220126	4-pieces	1,000	1

Tool case „Real“ 1000 V

made of plastic, complete with 20 security tools. Dimension: 450 x 340 x 100 mm.

Contents:

- 2C-VDE electrician's screwdrivers 2,5 x 75, 4 x 100, 6,5 x 150, 8 x 175
- 2C-VDE cross slotted screwdrivers PH, size 0, 1, 2
- 2C-VDE socket wrenches 5, 8, 10, 13 mm
- VDE combination pliers 200 mm
- VDE side cutters 180 mm
- VDE telephone pliers, straight 200 mm
- VDE wire stripping pliers 160 mm
- VDE flat nose pliers 160 mm
- VDE round nose pliers 160 mm
- Cable knife
- Cable stripping knife
- 2-pole voltage tester



1000 V IEC 60900:2012



Art. no.	set	kg	PU
220148	20-pieces	4,300	1

VDE pliers, coating-insulated 1000 V, head insulated

Combination pliers DIN ISO 5746 1000 V

working head insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2012



Art. no.	TL	kg	PU
210263	180	0,306	1
210264	200	0,372	1

Side cutters DIN ISO 5749 1000 V

working head insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2012



Art. no.	TL	kg	PU
210301	160	0,270	1
210302	180	0,309	1

Long chain nose pliers DIN ISO 5745 1000 V

straight, working head insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2012



Art. no.	TL	kg	PU
210266	160	0,182	1
210267	200	0,236	1

Long chain nose pliers DIN ISO 5745 1000 V, 45°

angled nose, working head insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2012



Art. no.	TL	kg	PU
210297	200	0,228	1

Plan grip pliers 1000 V

working head insulated, made of special alloy steel, long, flat, plain gripping jaws, round edges, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2012



Art. no.	TL	kg	PU
210298	200	0,215	1

Short flat nose pliers DIN ISO 5745 1000 V

working head insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2012



Art. no.	TL	kg	PU
210299	160	0,216	1

Long chain nose pliers DIN ISO 5745 1000 V

working head insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2012



Art. no.	TL	kg	PU
210300	160	0,191	1

Wire stripping pliers 1000 V

working head insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2012



Art. no.	TL	kg	PU
210265	160	0,180	1



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Cable cutters, stripping pliers 1000 V

Cable cutter 1000 V

Grave version of vanadium steel, annealed, opening 15 mm, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	TL	Ø	mm ²	kg	PU
200127	160	15	50	0,289	1

Cable cutter 1000 V

Long version, slight strain, one and two hand handling, proper cutting due to precise grind, forged of special carbon-steel, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



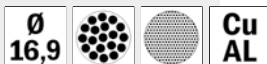
Art. no.	TL	Ø	mm ²	kg	PU
200129	240	15	50	0,484	1

Cable cutter with a snap 1000 V

Laser-cut components made of special carbon steel, oil-hardened, for optimal precision, CNC-ground cutting type, inductively hardened for maximum cutting performance, Screwed joint connections, re-adjustable for longer durability as well as, 2-coloured coating-insulation - inside yellow/outside red, for cables to 16,9 mm Ø (70 mm²)



1000 V IEC 60900:2012



Art. no.	TL	Ø	mm ²	kg	PU
201002/VDE	180	16,9	70	0,247	1

Cable cutter 1000 V

of carbon-steel, maximum cutting capacity due to special cutting-geometry, with VDE insulation, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	TL	Ø	mm ²	kg	PU
200120	215	20	70	0,403	1

Double edged cable cutter 1000 V

slight strain due to optimal lever-transmission, edges with precise grind for easy and proper cutting by one hand handling, opening 20 mm, forged of special carbon-steel, for copper and alu-cable, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	TL	Ø	mm ²	kg	PU
200128	200	20	50	0,382	1

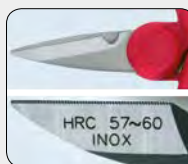
Allround soft-grip scissors VDE

The new allround Soft - Grip scissors with its relatively short blades and special handles are designed to fulfil the needs of the professional electrical installers. The impressive cutting performance and the tough construction make this new scissors a special tool.

- ergonomic design (2 component)
- slipping free handle - Soft - Grip
- high cutting performance by low cutting force
- precision toothing
- cable stripping device
- stainless



1000 V IEC 60900:2012



Art. no.	TL	mm ²	kg	PU
200189	160	25	0,083	1

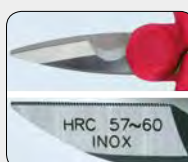
Allround soft-grip scissors VDE

The new allround Soft - Grip scissors with its relatively short blades and special handles are designed to fulfil the needs of the professional electrical installers. The impressive cutting performance and the tough construction make this new scissors a special tool.

- ergonomic design (2 component)
- slipping free handle - Soft - Grip
- high cutting performance by low cutting force
- precision toothing
- cable stripping device
- stainless



1000 V IEC 60900:2012



Art. no.	TL	mm ²	kg	PU
200191	160	50	0,082	1

Cable cutters 1000 V

VDE ratchet cable cutter with cover 1000 V

One-hand cable cutter with ratchet, optimal lever-transmission, encapsulated head, for copper and alu-cable, opening 25 mm, 2-coloured coating-insulation - inside yellow/outside red



⚠ 1000 V IEC 60900:2012



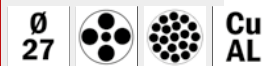
Art. no.	TL	Ø	mm ²	kg	PU
200109	290	34	240	1,308	1

Cable cutter 1000 V

- For cutting Cu/Al cables, fine and multi-wiring
- Not suitable for steel wire and wire rope
- Low force required thanks to best blade geometry and translation ratios
- Vanadium electro-steel, forged, oil-hardened
- Aluminium legs
- Hardened blades with precision grinding
- Adjustable screw joint



⚠ 1000 V IEC 60900:2012



Art. no.	TL	Ø	mm ²	kg	PU
200123	500	27	150	1,389	1

Ratchet cable cutter 1000 V

Extremely durable special steel, single-handed operation, stepped cutting in gradation-free cut for copper and aluminium cable



⚠ 1000 V IEC 60900:2012



Art. no.	Ø	mm ²	kg	PU
200198	52	400	0,942	1

Cable cutters 1000 V

- For cutting Cu/Al cables, fine and multi-wiring
- Not suitable for steel wire and wire rope
- Hardened blades with precision grinding
- Dual lever ensures easy cutting
- Adjustable screw joint
- Blade head in chrome vanadium steel, forged and oil-hardened



⚠ 1000 V IEC 60900:2012



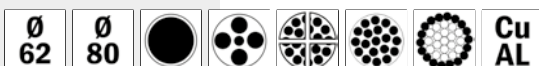
Art. no.	TL	Ø	mm ²	kg	PU
200110	600	26	150	2,327	1
200141	700	33	185	3,292	1

Ratchet cable cutter 1000 V

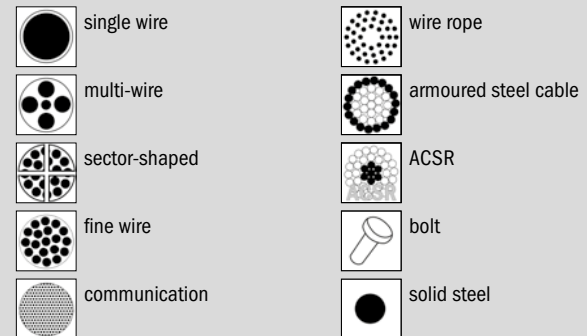
Two-handed cutter with dual bearing offset mechanism, almost break-proof meshing of rotating blade and tooth blade, separates multiple and fine-wired copper and aluminium cables up to a diameter of 62 mm or 80 mm, but also separates cables with thin steel sheet sleeve or steel sheet armoring in the outer part of the cable, not for hardened steel



⚠ 1000 V IEC 60900:2012



Art. no.	Ø	mm ²	kg	PU
200193	62	840	2,200	1
200195	80	1000	3,150	1



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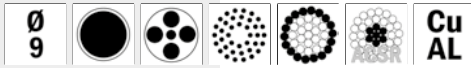


Wire cutters 1000 V

Wire rope and cable cutter 1000 V

with lever action, blades of high alloyed interchangeable, cutting capacity steelaluminum ropes up to 16 mm², for copper- and aluminum cable, opening approx 9 mm

1000 V IEC 60900:2012



Art. no.	TL	∅	mm ²	kg	PU
200081	700	9	16	2,880	1
200081/MK	Spare cutting head			0,350	1

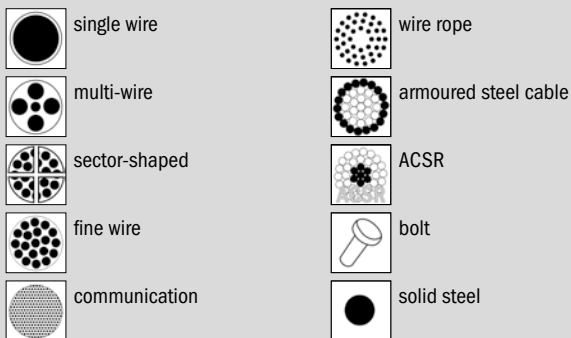
Wire rope and cable cutter 1000 V

without transmission, blades of high quality special steel, forged, replaceable, opening 20 mm, insulated. Working range: steel-aluminum rope up to 120 mm², copper- and aluminum cable

1000 V IEC 60900:2012



Art. no.	TL	∅	mm ²	kg	PU
200130	600	20	120	2,348	1
200132	Spare cutting head			0,340	1



Hacksaw frames 1000 V

Hacksaw frame 1000 V

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	TL	Sbl.	kg	PU
110558	200	150	0,248	1

Hacksaw frame 1000 V

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	TL	Sbl.	strength	kg	PU
110559	350	300	18 x 8	0,732	1

Cable sheath strippers 1000 V

Stripping pliers 1000 V

full insulated, for cutting and stripping off cable sheaths of PVC, PE and VPE, limited cutting deep and therefore no damage on the inside conductors, easy handling, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	TL	∅	kg	PU
200149	200	26 - 52	0,739	1

Cable sheath cutter 1000 V

for removing all insulating layers from cables with diameters as of 25 mm

- Replaceable dual blade
- Cutting depth can be set
- Suitable for lengthwise and circular cuts

1000 V IEC 60900:2012



Video 110561_67



Art. no.	∅	kg	PU
110561	>25	0,250	1
110569	spare blades		0,040 1

VDE cable knives 1000 V

Cable knife VDE

with a straight, strong blade, handles made from tough elastic, impact proof plastic, with blade guard



1000 V IEC 60900:2012



Art. no.	BL	form	kg	PU
200000	50	straight	0,110	1

Cable knife VDE

with a hook-shaped blade, handles made from tough elastic, impact proof plastic, with blade guard, thumb recess at the front and finger hook at the end of the handle. **Application:** Round cable



1000 V IEC 60900:2012



Art. no.	BL	form	kg	PU
200002	35	straight	0,093	1

Cable knife VDE

with a hook-shaped insulated blade, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** Large round cables



1000 V IEC 60900:2012



Art. no.	BL	form	kg	PU
200003	35	sickle	0,074	1

Cable knife VDE

with a curved blade, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** Sector cable



1000 V IEC 60900:2012



Art. no.	BL	form	kg	PU
200004	35	hooked	0,087	1

Cable knife VDE

with a straight, partially-insulated, strong blade, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** To prevent short circuiting



1000 V IEC 60900:2012



Art. no.	BL	form	kg	PU
200005	40	straight	0,106	1

Cable knife VDE with sliding block

with a hook blade for slicing open and removing the sleeve from wet-room cables, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** Wet-room cables, no damage to conductor insulation thanks to sliding block



1000 V IEC 60900:2012



Art. no.	BL	form	kg	PU
200007	50	sickle	0,120	1

Cable stripping knife VDE

with a straight, strong blade, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** Rubberised insulation types



1000 V IEC 60900:2012



Art. no.	BL	form	kg	PU
200009	50	straight	0,094	1

Cable knife VDE

with a straight, partially-insulated, strong blade, handles made from tough elastic, impact proof plastic, replaceable blades, fixed blade guard. **Application:** To prevent short circuiting



1000 V IEC 60900:2012



Art. no.	BL	form	kg	PU
201010	50	straight	0,067	1
201012		replacement blades, 4-pcs.	0,087	1

Cable stripping knife VDE

Blade with a slim, straight blade for fine tasks, handles made from tough elastic, impact proof plastic, with blade guard. **Application:** Phases



1000 V IEC 60900:2012



Art. no.	BL	form	kg	PU
200013	50	straight	0,094	1



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T-Handle socket wrenches 1000 V

chrome vanadium steel, full insulated, for hexagon nuts, DIN 7440, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2004



Art. no.	WS	BL	handle	kg	PU
110000	10	200	160	0,300	1
110002	11	200	160	0,315	1
110004	12	200	160	0,320	1
110006	13	200	160	0,320	1
110008	14	200	160	0,426	1
110010	17	200	160	0,401	1
110012	19	200	160	0,430	1
110022	11	300	160	0,429	1
110024	12	300	160	0,375	1
110026	13	300	160	0,380	1
110028	14	300	160	0,385	1
110030	17	300	160	0,534	1
110032	19	300	160	0,556	1
110034	22	300	160	0,662	1
110036	24	300	160	0,990	1

Cross type socket wrenches 1000 V

chrome vanadium steel, no contact with steel insert, full insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2004



Art. no.	WS	BL	kg	PU
110070	10-11-14-17	200	0,451	1
110074	11-12-13-17	200	0,225	1
110076	10-13-14-17	200	0,455	1
110078	11-13-14-17	200	0,449	1
110080	13-17-19-22	200	0,502	1

Counter hold spanners 1000 V

chrome vanadium steel (31 CrV 3), 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2004



Art. no.	WS	TL	kg	PU
110081	10	200	0,118	1
110083	12	200	0,120	1
110084	13	200	0,140	1
110085	14	250	0,150	1
110087	16	260	0,249	1
110089	17	270	0,255	1
110091	18	265	0,250	1
110093	19	270	0,275	1
110095	20	275	0,300	1
110097	22	275	0,300	1
110099	24	270	0,350	1

Right angle allen keys 1000 V

chrome vanadium steel, for hexagon socket screws, full insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2004



Art. no.	WS	kg	PU
110042	3	0,016	1
110044	4	0,029	1
110046	5	0,045	1
110048	6	0,051	1
110050	8	0,103	1
110052	10	0,220	1
110054	12	0,352	1

T-handle allen keys 1000 V

chrome vanadium steel, for screws with hexagon inserts, full insulated, 2-coloured coating-insulation - inside yellow/outside red



⚠ 1000 V IEC 60900:2012



Art. no.	WS	kg	PU
110060	5	0,222	1
110062	6	0,227	1
110064	8	0,224	1

Single ended spanners 1000 V

chrome vanadium steel, full insulated, offset at 15°, 2-coloured coating-insulation - inside yellow/outside red



⚠ 1000 V IEC 60900:2012



Art. no.	WS	TL	strength	kg	PU
110260	6	75	3	0,021	1
110262	7	80	3,5	0,020	1
110264	8	85	3,5	0,032	1
110266	9	100	4	0,035	1
110268	10	120	5	0,035	1
110270	11	130	5,5	0,044	1
110272	12	140	5,5	0,064	1
110274	13	155	6	0,061	1
110276	14	170	6	0,084	1
110278	17	185	6,5	0,121	1
110280	19	210	7,5	0,140	1
110282	22	230	8,5	0,215	1
110284	24	250	9,5	0,242	1
110286	27	290	11,5	0,338	1
110288	30	345	13	0,390	1
110290	32	350	15	0,503	1

Single ended tool set acc. to VDE 1000 V

in tool wallet of black imitation leather. **Contents:** 8 single ended tools of chrom vanadium steel, offset at 15°, 2-coloured coating-insulation - inside yellow/outside red.

Populated with:

- Size of key 10, 11, 12, 13, 14, 17, 19, 22



1000 V IEC 60900:2012



Art. no.	set	empty	kg	PU
220017	8-pieces	220002	1,181	1

Ring spanners 1000 V

chrome vanadium steel, full insulated, offset at 75°, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	WS	TL	kg	PU
110300	6	140	0,061	1
110302	7	140	0,066	1
110304	8	150	0,084	1
110306	9	155	0,066	1
110308	10	160	0,092	1
110310	11	170	0,089	1
110312	12	180	0,130	1
110314	13	195	0,132	1
110316	14	205	0,147	1
110318	17	240	0,233	1
110320	19	260	0,236	1
110322	22	280	0,345	1
110324	24	280	0,357	1



Ratchet ring spanners 1000 V

full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



72 sprockets

Art. no.	WS	kg	PU
110870	8	0,032	1
110872	9	0,040	1
110874	10	0,050	1
110876	11	0,059	1
110878	12	0,065	1
110880	13	0,076	1
110882	14	0,086	1
110884	15	0,105	1
110886	16	0,130	1
110888	17	0,161	1
110890	18	0,179	1
110892	19	0,215	1

Adjustable wrenches to DIN 3117 A 1000 V

steel forged, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	WS max.	TL	kg	PU
110555	26	200	0,325	1
110556	31	250	0,512	1
110557	36	300	0,809	1



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Reversible ratchet 1000 V

1/4"

full insulated, from shock-resistant plastic



1000 V IEC 60900:2012



Art. no.	drive	TL	kg	PU
220577	1/4"	150	0,145	1

Fittings for hexagon socket screws 1000 V

1/4"

1/4" square drive, made of chrome vanadium steel, forged, oil hardened, full insulated, from shock-resistant plastic



1000 V IEC 60900:2012



Art. no.	WS	drive	TL	kg	PU
220591	3	1/4"	55	0,016	1
220592	4	1/4"	55	0,012	1
220593	5	1/4"	55	0,012	1
220594	6	1/4"	55	0,024	1

Socket T-wrench 1000 V

1/4"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, from shock-resistant plastic



1000 V IEC 60900:2012



Art. no.	drive	TL	kg	PU
220578	1/4"	125	0,085	1

Extensions 1000 V

1/4"

with locking device against accidental loosening of sockets or extensions, full insulated, from shock-resistant plastic



1000 V IEC 60900:2012



Art. no.	drive	TL	kg	PU
220579	1/4"	100	0,050	1
220580	1/4"	150	0,070	1

Hexagon sockets 1000 V

1/4"

1/4" square drive, full insulated, from shock-resistant plastic



1000 V IEC 60900:2012



Art. no.	WS	drive	TL	kg	PU
220581	5	1/4"	40	0,011	1
220582	6	1/4"	40	0,011	1
220583	7	1/4"	40	0,012	1
220584	8	1/4"	40	0,013	1
220585	9	1/4"	40	0,014	1
220586	10	1/4"	40	0,014	1
220587	11	1/4"	40	0,017	1
220588	12	1/4"	40	0,018	1
220589	13	1/4"	40	0,021	1
220590	14	1/4"	40	0,023	1

Tool case 1000 V

1/4"

made of plastic, complete with 1/4" tools. The plastic material used for socket sets is guaranteed to pass -40°C impact tests. This guarantee that the insulation value will not be compromised due to impact. Dimension: 286 x 255 x 54 mm.

Contents:

- Reversible ratchet 150 mm, 1/4"
- T-slip-on-keys 125 mm, 1/4"
- Extension 100 and 150 mm, 1/4"
- Sockets 1/4", 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm
- Dies for hexagon screws 1/4", 3, 4, 5, 6 mm



1000 V IEC 60900:2012

Video 220576



Art. no.	set	drive	kg	PU
220576	18-pieces	1/4"	1,250	1



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Reversible ratchet 1000 V

1/4"

full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	drive	TL	kg	PU
110810	1/4"	135	0,122	1

Torque wrench 1000 V

TQ 1/4"

reversible ratchet system, fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012

TQ



Art. no.	drive	torque	TL	kg	PU
110812	1/4"	2-12	200	0,250	1
110813	1/4"	5-25	200	0,420	1

Socket T-wrench 1000 V

1/4"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	drive	TL	kg	PU
110818	1/4"	115	0,156	1

Extensions 1000 V

1/4"

with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	drive	TL	kg	PU
110814	1/4"	75	0,043	1
110816	1/4"	125	0,054	1

Extension with bit adapter 1000 V

1/4"

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	bit adapter	drive	TL	kg	PU
110860	1/4"	1/4"	40	0,023	1

Hexagon sockets 1000 V

1/4"

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	WS	drive	TL	kg	PU
110820	5	1/4"	25	0,012	1
110822	6	1/4"	25	0,012	1
110824	7	1/4"	25	0,014	1
110826	8	1/4"	25	0,011	1
110828	9	1/4"	25	0,016	1
110830	10	1/4"	25	0,014	1
110832	11	1/4"	25	0,020	1
110834	12	1/4"	25	0,021	1
110836	13	1/4"	25	0,021	1
110838	14	1/4"	25	0,034	1

Inserts for hexagon socket screws 1000 V

1/4"

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	WS	drive	kg	PU
110840	3	1/4"	0,010	1
110842	4	1/4"	0,014	1
110844	5	1/4"	0,014	1
110846	6	1/4"	0,015	1
110848	8	1/4"	0,021	1

Handles with bit adapter 1000 V

1/4"

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	bit adapter	drive	TL	kg	PU
110864	1/4"	1/4"	120	0,160	1
110866	1/4"	1/4"	160	0,248	1
110868	1/4"	1/4"	250	0,310	1

Tool case for household connections 1000 V

1/4"

Plastic case with foam insert, with 1/4" insert tools.
Dimensions: 450 x 340 x 100 mm.

Contents:

- 1 torque wrench 1/4" 5 - 25 Nm
- 3 extensions 1/4" 75 - 100 - 150 mm
- 2 bit holders 1/4" DIN 3126/FORM C 6,3
- 5 inserts 1/4" 6, 8, 10, 13, 14
- 10 hexagonal bits 5, 6, 8
- Slots 4, 5.5, 6.5
- PZ/FL 1, 2
- PH 1, 2

1000 V IEC 60900:2012



Art. no.	set	drive	kg	PU
110869	21-pieces	1/4"	1,000	1

Tool case 1000 V

1/4"

Plastic case with foam insert, with 1/4" insert tools.
Dimensions: 450 x 340 x 100 mm.

Contents:

- 1 ratchet 1/4"
- 1 bit holder 1/4"
- 1 T-fitting 1/4"
- 4 extensions 1/4"
- 10 inserts 1/4", 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
- 5 hexagonal inserts 1/4" 3, 4, 5, 6, 8

1000 V IEC 60900:2012



Art. no.	set	drive	kg	PU
110871	22-pieces	1/4"	1,600	1



Reversible ratchet 1000 V

3/8"

full insulated, from shock-resistant plastic



1000 V IEC 60900:2012



Art. no.	drive	TL	kg	PU
220410	3/8"	200	0,300	1

Fittings for hexagon socket screws 1000 V

3/8"

3/8" square drive, made of chrome vanadium steel, forged, oil hardened, full insulated, from shock-resistant plastic



1000 V IEC 60900:2012



Art. no.	WS	drive	TL	kg	PU
220434	4	3/8"	60,0	0,036	1
220436	5	3/8"	60,0	0,040	1
220438	6	3/8"	60,0	0,041	1
220440	8	3/8"	60,0	0,042	1

Socket T-wrench 1000 V

3/8"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, from shock-resistant plastic



1000 V IEC 60900:2012



Art. no.	drive	TL	kg	PU
220412	3/8"	200	0,241	1

Extensions 1000 V

3/8"

with locking device against accidental loosening of sockets or extensions, full insulated, from shock-resistant plastic



1000 V IEC 60900:2012



Art. no.	drive	TL	kg	PU
220414	3/8"	125	0,150	1
220416	3/8"	250	0,250	1

Hexagon sockets 1000 V

3/8"

3/8" square drive, full insulated, from shock-resistant plastic



1000 V IEC 60900:2012



Art. no.	WS	drive	TL	kg	PU
220418	8	3/8"	44,5	0,027	1
220420	10	3/8"	44,5	0,027	1
220422	12	3/8"	44,5	0,029	1
220424	13	3/8"	44,5	0,032	1
220426	14	3/8"	44,5	0,035	1
220428	17	3/8"	44,5	0,047	1
220430	19	3/8"	46,0	0,051	1
220432	22	3/8"	46,0	0,063	1

Tool case 1000 V

3/8"

made of plastic, complete with 3/8" tools. The plastic material used for socket sets is guaranteed to pass -40°C impact tests. This guarantee that the insulation value will not be compromised due to impact. Dimension: 286 x 255 x 54 mm.

Contents:

- Reversible ratchet 200 mm, 3/8"
- T-slip-on-keys 200 mm, 3/8"
- Extension 150 and 250 mm, 3/8"
- Sockets 3/8", 8, 10, 12, 13, 14, 17, 19, 22 mm
- Dies for hexagon screws 3/8", 4, 5, 6, 8 mm



1000 V IEC 60900:2012

Video 220402



Art. no.	set	drive	kg	PU
220402	16-pieces	3/8"	2,500	1



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Reversible ratchet 1000 V

3/8"

full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	drive	TL	kg	PU
110331/EN	3/8"	190	0,402	1

Locked torque wrench 1000 V

3/8"

reversible ratchet system, fixed factory-provided valve, possible valve between 5-27 Nm, valve must be indicate before delivery, full insulated, 2-coloured coating-insulation - inside yellow/outside red. **Torque must be specified when ordering!**

1000 V IEC 60900:2012



Art. no.	drive	torque	TL	kg	PU
300310/EN	3/8"	5-27	280	0,951	1

Torque wrenches 1000 V

TQ 3/8"

reversible ratchet system, fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	drive	torque	TL	kg	PU
110055/EN	3/8"	5-25	200	0,350	1
110056/EN	3/8"	5-25	280	0,920	1
110065/EN	3/8"	5-50	370	1,194	1

Torque T key 1000 V

3/8"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	drive	torque	TL	kg	PU
110071	3/8"	12 Nm	150	0,540	1
110073	3/8"	18 Nm	150	0,540	1
110075	3/8"	25 Nm	150	0,540	1

Torque stoppers 1000 V

3/8"

with short extension, locable for all sockets with 3/8" drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	drive	torque	kg	PU
110456/EN	3/8"	-12	0,220	1
110457/EN	3/8"	-18	0,220	1
110458/EN	3/8"	-25	0,224	1

Socket T-wrench 1000 V

3/8"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	drive	BL	handle	kg	PU
110039/EN	3/8"	200	160	0,369	1

Extensions 1000 V

3/8"

with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	drive	TL	kg	PU
110337/EN	3/8"	125	0,292	1
110335/EN	3/8"	250	0,280	1

Extensions with bit adapter 1000 V

3/8"

full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	bit adapter	drive	TL	kg	PU
110861	1/4"	3/8"	125	0,137	1

Hexagon sockets 1000 V

3/8"

3/8" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	WS	drive	TL	kg	PU
110363/EN	8	3/8"	40	0,035	1
110364/EN	9	3/8"	40	0,032	1
110365/EN	10	3/8"	40	0,036	1
110366/EN	11	3/8"	40	0,037	1
110367/EN	13	3/8"	40	0,032	1
110368/EN	17	3/8"	40	0,050	1
110369/EN	19	3/8"	40	0,060	1
110371/EN	14	3/8"	40	0,070	1
110700/EN	12	3/8"	40	0,070	1
110702/EN	22	3/8"	40	0,061	1

Hexagon sockets 1000 V, extra long



3/8" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	WS	drive	TL	kg	PU
110710	10	3/8"	125	0,180	1
110712	12	3/8"	125	0,200	1
110713	13	3/8"	125	0,210	1
110714	14	3/8"	125	0,220	1
110715	17	3/8"	125	0,240	1
110716	19	3/8"	125	0,260	1
110717	22	3/8"	125	0,280	1

Fittings for hexagon socket screws 1000 V



3/8" square drive, 4 edge drive, made of chrome vanadium steel, forged, oil hardened, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	WS	drive	TL	kg	PU
300302/EN	4	3/8"	65	0,068	1
300296/EN	5	3/8"	65	0,065	1
300298/EN	6	3/8"	65	0,068	1
300299/EN	8	3/8"	65	0,070	1
300305/EN	10	3/8"	65	0,082	1

Tool case 1000 V



made of plastic, complete with 3/8" tools. Dimension: 450 x 340 x 100 mm.

Contents:

- Reversible ratchet 3/8"
- Extension 125 mm, 3/8"
- Extension 250 mm, 3/8"
- T-slip-on-keys 3/8"
- Sockets 3/8" (10, 12, 13, 14, 17, 19, 22, 24 mm)
- Dies for hexagon screws 3/8", 5, 6, 8 mm
- Torque stopper (12 to 25 Nm)
- 2C-VDE screwdriver 3,5 x 100 mm

with locking system



1000 V IEC 60900:2012



Art. no.	set	drive	kg	PU
220147	17-pieces	3/8"	3,400	1

Tool case 1000 V



made of plastic, complete with 3/8" tools. Dimension: 400 x 290 x 110 mm.

Contents:

- Reversible ratchet 3/8"
- Extension 125 mm, 3/8"
- Extension 250 mm, 3/8"
- T-slip-on-keys 3/8"
- Sockets 3/8", 8, 10, 13, 17, 19 mm
- Dies for hexagon screws 3/8", 4, 5, 6, 8 mm

without locking system



1000 V IEC 60900:2012



Art. no.	set	drive	kg	PU
220212	13-pieces	3/8"	2,500	1

Tool case 1000 V



Plastic case with foam insert, with 3/8" insert tools. Dimensions: 400 x 290 x 110 mm.

Contents:

- 1 torque wrench 3/8" 5-50 Nm
- 2 extensions 3/8" 125/250 mm
- 5 inserts, extra deep in the sizes 10, 13, 14, 17, 19 mm
- 5 inserts for hexagonal screws 3/8" in 4, 5, 6, 8, 10 mm
- Alignment tool for sector-shaped conductors 3/8" in 95-150 mm



1000 V IEC 60900:2012



Art. no.	set	drive	kg	PU
110873	14-pieces	3/8"	3,870	1



Reversible ratchet 1000 V

1/2"

full insulated, from shock-resistant plastic



1000 V IEC 60900:2012



Art. no.	drive	TL	kg	PU
220450	1/2"	250	0,550	1

Fittings for hexagon socket screws 1000 V

1/2"

1/2" square drive, made of chrome vanadium steel, forged, oil hardened, full insulated, from shock-resistant plastic



1000 V IEC 60900:2012



Art. no.	WS	drive	TL	kg	PU
220486	4	1/2"	120,0	0,113	1
220488	5	1/2"	120,0	0,113	1
220490	6	1/2"	120,0	0,113	1
220492	8	1/2"	120,0	0,115	1
220494	10	1/2"	120,0	0,134	1

Socket T-wrench 1000 V

1/2"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, from shock-resistant plastic



1000 V IEC 60900:2012



Art. no.	drive	TL	kg	PU
220452	1/2"	200	0,330	1

Extensions 1000 V

1/2"

with locking device against accidental loosening of sockets or extensions, full insulated, from shock-resistant plastic



1000 V IEC 60900:2012



Art. no.	drive	TL	kg	PU
220454	1/2"	125	0,208	1
220456	1/2"	250	0,411	1

Hexagon sockets 1000 V

1/2"

1/2" square drive, full insulated, from shock-resistant plastic



1000 V IEC 60900:2012



Art. no.	WS	drive	TL	kg	PU
220458	10	1/2"	55,0	0,055	1
220460	11	1/2"	55,0	0,055	1
220462	12	1/2"	55,0	0,058	1
220464	13	1/2"	55,0	0,058	1
220466	14	1/2"	55,0	0,061	1
220468	17	1/2"	55,0	0,069	1
220470	19	1/2"	57,0	0,072	1
220478	22	1/2"	57,0	0,087	1
220480	24	1/2"	57,0	0,095	1
220482	27	1/2"	57,0	0,125	1
220484	32	1/2"	57,0	0,170	1

Tool case 1000 V

1/2"

made of plastic, complete with 1/2" tools. The plastic material used for socket sets is guaranteed to pass -40°C impact tests. This guarantee that the insulation value will not be compromised due to impact. Dimension: 380 x 316 x 61 mm.

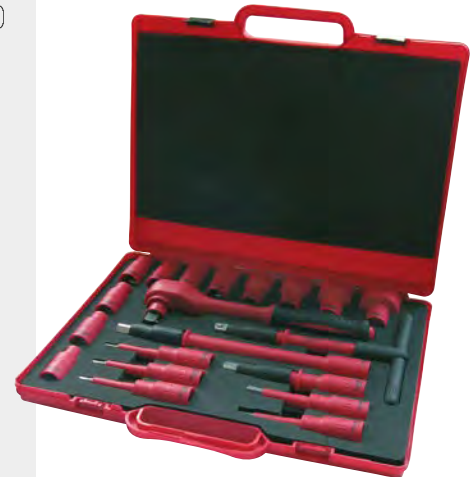
Contents:

- Reversible ratchet 250 mm, 1/2"
- T-slip-on-keys 200 mm, 1/2"
- Extension 125 and 250 mm, 1/2"
- Sockets 1/2", 10, 11, 12, 13, 14, 17, 19, 22, 24, 27, 32 mm
- Dies for hexagon screws 1/2", 4, 5, 6, 8, 10 mm



1000 V IEC 60900:2012

Video 220404



Art. no.	set	drive	kg	PU
220404	20-pieces	1/2"	4,000	1

SysCon „VDE-Socket“ 1/2"



complete with 1/2" tools. The plastic material used for socket sets is guaranteed to pass -40°C impact tests. This guarantee that the insulation value will not be compromised due to impact.

Contents:

- 1 220370 ABS plastic box „SysCon S"
- Reversible ratchet 250 mm, 1/2"
- T-slip-on-keys 200 mm, 1/2"
- Extension 125 and 250 mm, 1/2"
- Sockets 1/2", 10, 11, 12, 13, 14, 17, 19, 22, 24, 27, 32 mm
- Dies for hexagon screws 1/2", 4, 5, 6, 8, 10 mm



1000 V IEC 60900:2012



Art. no.	set	empty	drive	kg	PU
220612	20-pieces	220370	1/2"	7,200	1



Reversible ratchet 1000 V

1/2"

full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	drive	TL	kg	PU
110332/EN	1/2"	255	0,687	1

Locked torque wrench 1000 V

TQ 1/2"

reversible ratchet system, fixed factory-provided valve, possible valve between 5-27 Nm, valve must be indicate before delivery, full insulated, 2-coloured coating-insulation - inside yellow/outside red. **Torque must be specified when ordering!**

1000 V IEC 60900:2012



Art. no.	drive	torque	TL	kg	PU
300312/EN	1/2"	5-27	280	1,052	1

Torque wrenches 1000 V

TQ 1/2"

reversible ratchet system, fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



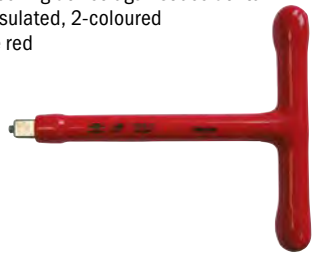
Art. no.	drive	torque	TL	kg	PU
110058/EN	1/2"	2-27	280	1,034	1
110066/EN	1/2"	5-50	370	1,121	1
110067/EN	1/2"	20-100	460	1,493	1
110068/EN	1/2"	60-220	530	1,300	1

Socket T-wrench 1000 V

1/2"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	WS	BL	handle	kg	PU
110040/EN	12,5	200	160	0,457	1

Extensions 1000 V

1/2"

with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	drive	TL	kg	PU
110336/EN	1/2"	125	0,197	1
110338/EN	1/2"	250	0,389	1

Extensions with bit adapter 1000 V

1/2"

full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	bit adapter	drive	TL	kg	PU
110862	1/4"	1/2"	250	0,165	1

Hexagon sockets 1000 V

1/2"

1/2" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

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Art. no.	WS	drive	TL	kg	PU
110339/EN	8	1/2"	50	0,080	1
110340/EN	10	1/2"	50	0,056	1
110342/EN	11	1/2"	50	0,062	1
110344/EN	12	1/2"	50	0,062	1
110346/EN	13	1/2"	50	0,066	1
110348/EN	14	1/2"	50	0,063	1
110350/EN	17	1/2"	50	0,076	1
110352/EN	19	1/2"	50	0,072	1
110354/EN	22	1/2"	50	0,104	1
110356/EN	24	1/2"	50	0,141	1
110358/EN	27	1/2"	50	0,191	1
110360/EN	30	1/2"	50	0,224	1
110362/EN	32	1/2"	50	0,268	1

Hexagon sockets DIN 7448, 1000 V, 80 mm

1/2"

extra long, 1/2" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

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Art. no.	WS	drive	TL	kg	PU
110373/EN	10	1/2"	80	0,085	1
110374/EN	11	1/2"	80	0,110	1
110375/EN	13	1/2"	80	0,123	1
110376/EN	14	1/2"	80	0,119	1
110377/EN	17	1/2"	80	0,157	1
110378/EN	19	1/2"	80	0,168	1
110379/EN	22	1/2"	80	0,230	1

Hexagon sockets, 1000 V, 125 mm

1/2"

extra long, 1/2" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	WS	drive	TL	kg	PU
110346/125	13	1/2"	125	0,250	1
110348/125	14	1/2"	125	0,260	1
110350/125	17	1/2"	125	0,280	1
110352/125	19	1/2"	125	0,295	1
110354/125	22	1/2"	125	0,310	1
110356/125	24	1/2"	125	0,330	1
110358/125	27	1/2"	125	0,350	1
110360/125	30	1/2"	125	0,380	1
110362/125	32	1/2"	125	0,410	1

Hexagon sockets, 1000 V, 250 mm



extra long, 1/2" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2012



Art. no.	WS	drive	TL	kg	PU
110346/250	13	1/2"	250	0,485	1
110348/250	14	1/2"	250	0,500	1
110350/250	17	1/2"	250	0,530	1
110352/250	19	1/2"	250	0,550	1
110354/250	22	1/2"	250	0,580	1
110356/250	24	1/2"	250	0,605	1
110358/250	27	1/2"	250	0,635	1
110360/250	30	1/2"	250	0,660	1
110362/250	32	1/2"	250	0,670	1

Fittings for hexagon socket screws 1000 V



1/2" square drive, 4 edge drive, made of chrome vanadium steel, forged, oil hardened, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2012



Art. no.	WS	drive	TL	kg	PU
300294/EN	4	1/2"	70	0,094	1
300297/EN	5	1/2"	70	0,096	1
300295/EN	6	1/2"	70	0,101	1
300303/EN	8	1/2"	70	0,100	1
300306/EN	10	1/2"	70	0,106	1

Tool case 1000 V



made of plastic, complete with 1/2" tools. Dimension: 450 x 340 x 100 mm.

Contents:

- Reversible ratchet 1/2"
- Extension 125 mm, 1/2"
- Extension 250 mm, 1/2"
- Slip-on-keys 1/2"
- Hexagon sockets 1/2", 10, 12, 13, 14, 17, 19, 22, 24 mm
- Dies for hexagon screws 1/2", 5, 6, 8 mm
- 2C-VDE screwdriver 3,5 x 100 mm

with locking system



1000 V IEC 60900:2012



Art. no.	set	drive	kg	PU
220205/EN	16-pieces	1/2"	4,080	1

Tool case „Biber“ 1000 V



made of plastic, complete with 26 security tools. Dimension: 450 x 340 x 100 mm.

Contents:

- 2C-VDE electrician's screwdrivers 4 x 100, 5,5 x 125, 6,5 x 150, 8 x 175 mm
- VDE combination pliers 200 mm
- VDE side cutters 180 mm
- VDE telephone pliers, straight, 200 mm
- Reversible ratchet 1/2"
- Extension 250 mm, 1/2"
- Hexagon sockets 1/2", 10, 11, 12, 13, 14, 17, 19 mm
- Open end spanners 10, 11, 12, 13, 14, 17, 19 mm
- 2-pole voltage tester
- Cable knife
- Cable stripping knife

with locking system



1000 V IEC 60900:2012



Art. no.	set	drive	kg	PU
220146	26-pieces	1/2"	5,000	1



Safety tools

Alignment tool, 3/8" 1000 V

3/8" drive, for the alignment of 3 or 4-wire sector conductors, made from impact-resistant plastic



Art. no.	size	kg	PU
110704	95 - 150 mm ²	0,068	1
110705	185 - 240 mm ²	0,088	1

Universal alignment tool 1000 V

for aligning sector-shaped conductors from 50, 70, 95, 150, 185, and 240 mm²



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Art. no.	kg	PU
110709	0,142	1

Counter holder 1000 V

for the easier handling of screwed connections when assembling coupling sleeves, variably adjustable

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Art. no.	TL	mm	kg	PU
120101	240	0 - 15	0,280	1
120103	220	15 - 40	0,380	1
120104	300	25 - 50	0,610	1

Plastic wedges 1000 V

with bright slot for all common cable cutters, oval form without sharp edges

1000 V IEC 60900:2012



Art. no.	material	TL	width	kg	PU
120102	plastic	22,5	4,5	0,234	1

Plastic wedges 1000 V

without slot, oval form without sharp edges, long version with large head

1000 V IEC 60900:2012



Art. no.	material	TL	width	kg	PU
120100	plastic	20	2,5	0,085	1

Wedges

wood or plastic, dimension: 16.3 x 3.7 mm



Art. no.	size	material	type	kg	PU
120094	1	plastic	without	0,051	1
120098	1	wood	without	0,043	1
120099	2	wood	with	0,043	1

Cleaning brushes Safety Line

PVC-pattern

1000 V IEC 60900:2012



Art. no.	TL	width	kg	PU
150036	420	25	0,053	1
150037	420	28	0,061	1
150038	420	50	0,100	1

Electrician's safety levels

nonconducting plastic material, with 2 tubes horizontal and vertical



Art. no.	TL	kg	PU
240057	400	0,188	1
240058	600	0,274	1

PVC hammer 1000 V

Bounce-free, head of polyethylen, break-, wear- and splinter-proof, heads interchangeable

1000 V IEC 60900:2012



Art. no.	TL	Ø	kg	PU
180295	290	25	0,570	1
180297	290	35	0,825	1

Combined dowel and contact spanners

may be used for screws 2 - 63 A by changing the insert, handle made from insulating material



Art. no.	TL	kg	PU
120002	105	0,046	1

Insulated tweezers VDE 1000 V

austenitic steel, pointed, PVC-insulated



1000 V IEC 60900:2012



Art. no.	TL	form	kg	PU
211060	130	pointed	0,029	1



1000 V IEC 60900:2012



Art. no.	TL	form	kg	PU
211064	145	wide round, flat,	0,042	1



1000 V IEC 60900:2012



Art. no.	TL	form	kg	PU
211062	150	pointed round, bent,	0,031	1

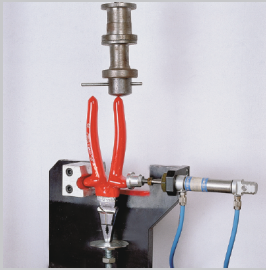
Routine tests

Safety advice for working with live voltage

The basic requirements for working with live voltage are safety-insulated tools. Legal regulations and the following safety advice should always be observed:

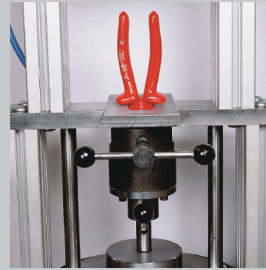
1. Transport your safety tools such that damage to the insulation is avoided.
2. Before use, make sure that the insulation is not damaged. Damaged tools must not be used.
3. Keep your safety tools clean and dry.
4. When working overhead or when using cutting pliers, protective glasses must be worn.
5. For your own safety, keep your work space clean and tidy when working with live voltage.
6. In enclosed, cramped spaces, protective clothing and equipment must be worn (e.g. safety gloves, covering drapes, protective hoods)
7. Only use suitable and tested tools. Make sure that loose and cut off parts do not fall onto live components.

Routine tests in accordance with VDE Norm 1000 V IEC 60900:2004



Cold-heading test

In this test, the toughness of the PVC material is checked by dropping a weight onto the tools which have been cooled down to -25°C . The tools must not show any cracking or other damage after the test.



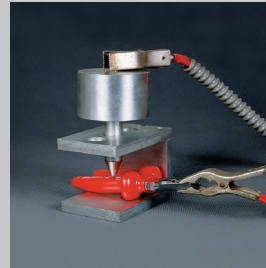
Testing the adhesive strength of the PVC coating

After pliers have been stored for 168 hours at $+70^{\circ}\text{C}$, the adhesive power of the PVC coating is tested using a pulling force of 500 Nm. The insulation material must stay firmly attached to the basic tool.



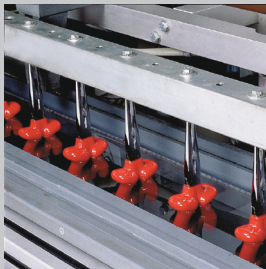
Flame resistance test

To exclude any fire risks, only flame-proof PVC material is used.



Pressure test

No puncture must occur, while testing the tool with a voltage of 5,000 V AC when also applying a pressure of 20 Nm at a temperature of $+70^{\circ}\text{C}$ to the tool.



Testing the insulating properties

After storing the tools under water for 24 hours, the tools are tested using 10,000 V AC for three minutes, while simultaneously measuring the discharge current. During this time, no puncture or sparkover must occur.



Voltage test

Each safety tool is individually voltage tested. This means that all tools which bear the relevant mark have been tested at 10,000 V AC and are approved for a voltage of 1,000 V, ensuring 10-fold safety.

Screw profiles

- Slot
- Cross slot Phillips
- Cross slot Pozidriv
- Pozidriv/flat slot
- Tx
- Tx with safety pin
- Allen screw
- Hexagon head
- Ball point

Patent ratchet wrench



The HAUPA ratchet wrench has a number of patented advantages. It is characterised particularly ergonomic handling and high functional safety.

The excellent interlocking of the wrench insert, which must be able to withstand pull-out forces of up to 500 N is the main feature.

The ratchet can be operated with one hand due to a cross slide made from non-conducting material (polyamide). It is ergonomically designed such that it is accessible with the thumb of the hand holding it. This cross slide, which is deep in the inside of the ratchet, also ensures that the testing voltage of 10 KV gema DIN 60900 can easily be achieved.



Safety of HAUPA products

All HAUPA products under the product area of "working with live voltage" have a 2-colour multi-layer insulation (wherever technically possible). This multi-layer insulation supports the current VBG4 regulations. This regulation requires that before use all tools are tested for any damage that can be seen externally. The 2-colourcoating – the second insulating layer contrast in yellow – ensures that any damages are visible immediately.