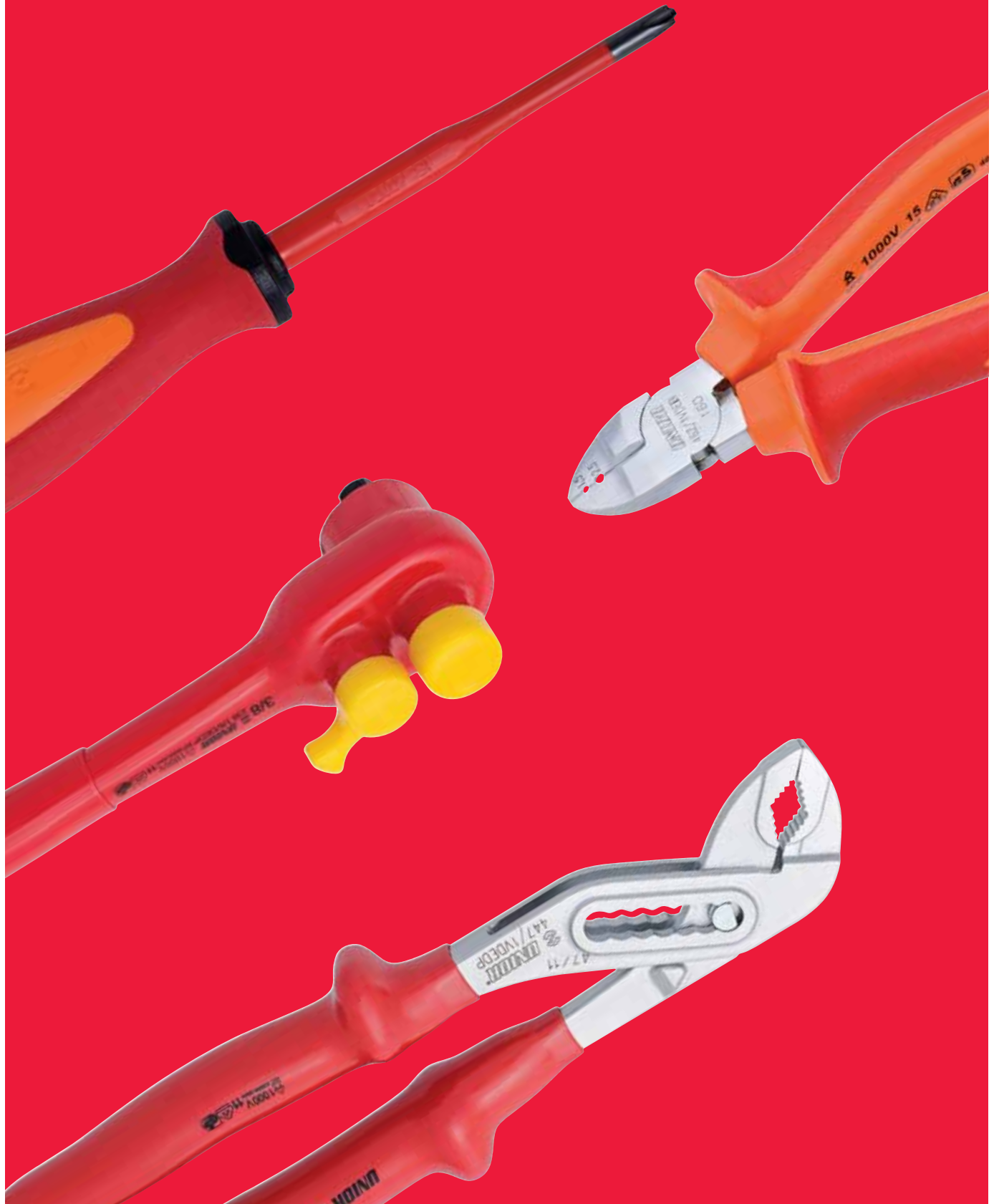


EN

 **UNIOR**[®]

Tools for electricians 2020





Insulated tools



Cable cutting, stripping and crimping tools



Tools for electronic use



General



A COMPLETE SOLUTION - A COMPLETE LIFE CIRCLE



FORGING PARTS AND SINTER

By drop forging steel and machining, we make forging parts for control mechanisms and gearboxes, supporting parts of chassis, components for drive shafts and sinter forging parts for the most renowned European and global makers of vehicles: VW, Audi, Renault, Dacia, BMW, ZF Lemförder & ZF Lenksysteme, Jtekt, GKN, Arvin Meritor, BPW, Schäffler KG, Betek and Cimos. Various certificates, tests and awards for excellence confirm the quality of forging parts made in Unior.

SPECIAL MACHINES

Unior mechanical equipment provides comprehensive solutions, ranging from the concept stage to the finished product. Besides specific CNC machine tools for the serial working of aluminium castings or forging parts, Unior also offers flexible production cells, machines for deep hole drilling, for working ends and for working chassis parts, machines with a rotary table and special purpose machines. Unior is a supplier of machines for renowned car manufacturers such as VW, BMW, Audi, Daimler etc.



TOURISM

Unior, which operates in the shelter of the Pohorje mountain range, surrounded by an attractive landscape, is developing two interrelated tourist centres. The Rogla climatic health resort, Olympic centre and winter sports centre is especially interesting for professional athletes and recreational athletes, while the Terme Zreče spa is ideal for those seeking health and wellbeing. Both connected health resorts with their modern capabilities are an excellent choice for family holidays, health rehabilitation and preparation for top athletes.

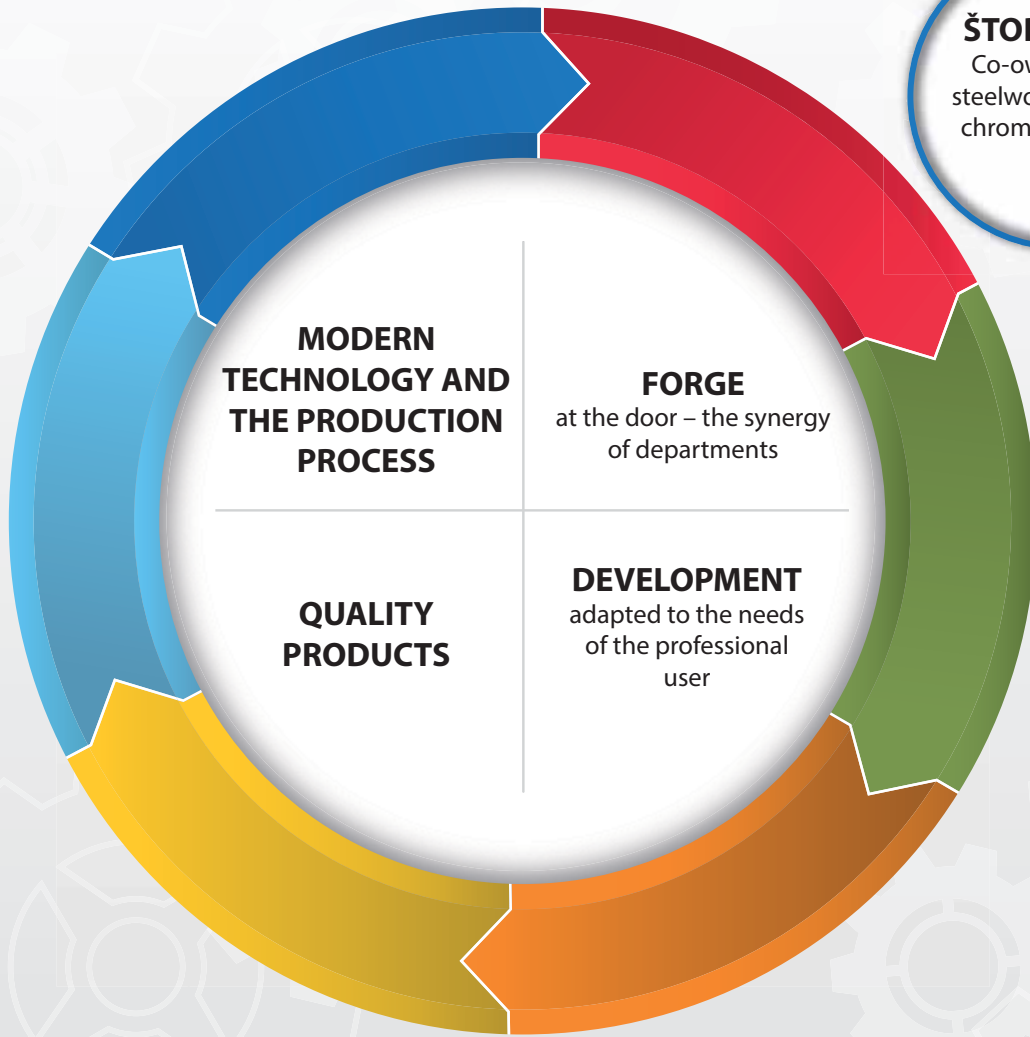
www.rogla.eu | www.terme-zrece.eu

HAND TOOLS

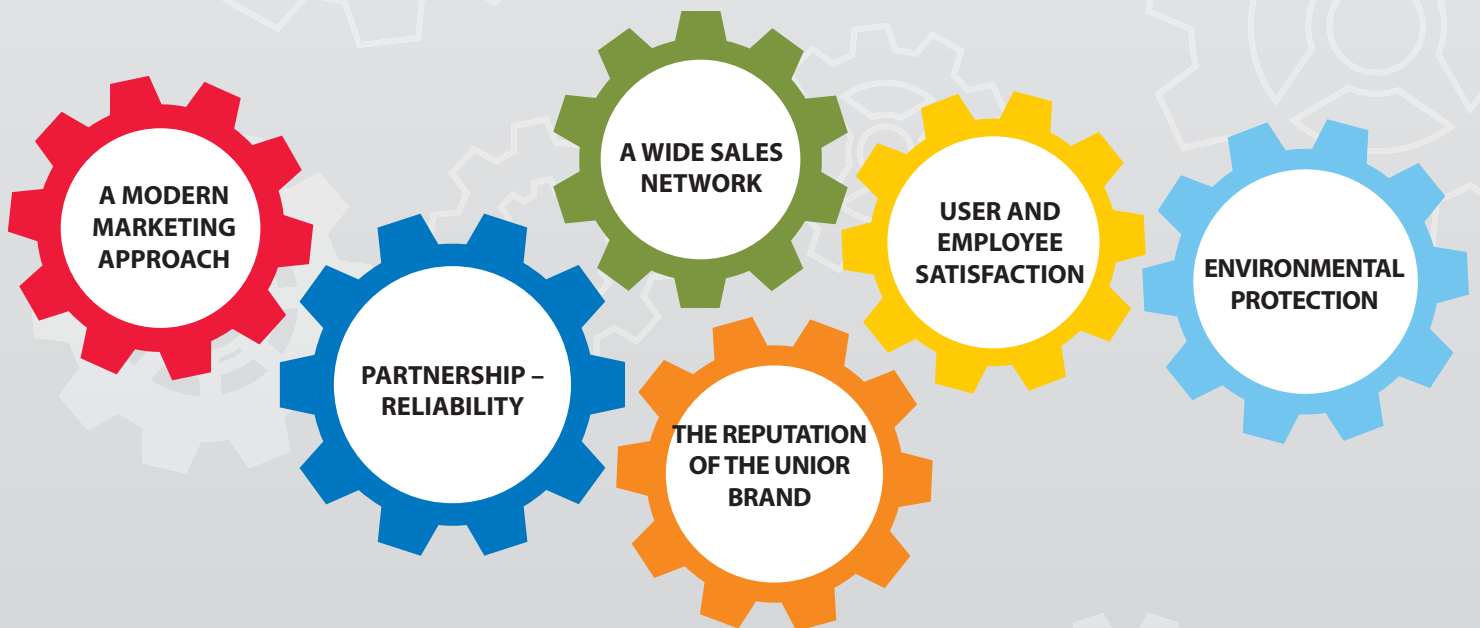
The development of Unior hand tools constantly follows the requirements of professional and amateur craftsmen all over the world. Top quality materials and original design solutions are the basis of the extreme practicality, effectiveness and long service life of more than 5,500 hand tools. The availability of tools is ensured by a multi branch distribution network. With its cold forged products, Unior is an important supplier of tools for the European industry.

ŠTÖRE STEEL

Co-owner of the steelworks material: chrome vanadium rods



PARTNERSHIP



Milestones of the Unior corporation

From Styria to the world

On the outskirts of the Pohorje Mountains, the first ironworks (foundries) were established in the 18th century. They operated as larger forges, in which land and tradesmen's tools were fashioned by hand.

Infinite enthusiasm gives us the strength to reach milestones

Through permanent development while realising the necessity of changes and a competitive advantage we are consistently taking on new challenges with regard to all activities of the company thus ensuring successful operations.

1919

In 1919 the Štajerska železindustrijska družba (Styrian Iron Industry Company) forging plant, with the shortened name Štajerska Zrece, was established. It produced forged hand tools for farming, forestry and various other trades.

1950

In 1950 the plant, burned down during the war and partially renovated in the years following the war and bearing the new name of Tovarna kovanega orodja Zrece (TKO) came under state ownership. New capacities (tool shop and hand tools mechanical processing plant) comprised the basis for developing two production lines: hand tools and drop forgings.

1970

In the 1970s the plant equipped with a new development strategy also obtained a new name: Unior, tovarna kovanega orodja Zrece. The new name was formed from the words "Univerzalno Orodje" (Universal Tools), by which the company had been known for a long time.



1975

In the mid-1970s Unior began building the Rogla climatic health resort and Olympic centre on Pohorje, and a few years later construction of the Terme Zrece spa commenced and with it, the Tourism Programme.

1997

In 1997 this successful Slovenian company with stable international partnerships was transformed into the UNIOR, d. d. joint stock company. Already at that time, the company had been operating in accordance with ISO 9001 quality standards.

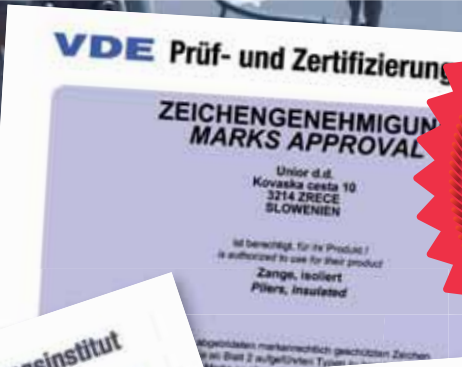


By the 1980s Unior had established its name as an important partner of the European automotive industry, namely as one of the largest European producers of light forgings and as one of the largest European producers of connecting rods for petrol engines. Initial development was enabled by a contract with the Renault concern, on the basis of which a joint-venture plant for the production of forgings was built in Zrece. At the same time, Unior developed its production of homokinetic joints and machine tools, initially intended for the company's own needs.

Unior Joint-Stock Company is today one of the largest and most important Slovenian exporters. With its five production segments company follows the tradition of a high quality and innovation. Committed to high utilization of own capacities, Unior enhances the brand awareness through more than 2400 employees and 32 group companies around the world.

1980

2017





INSULATED TOOLS

Ultimate protection

Unior insulated VDE tools ensure ultimate protection even when used around live circuits with up to a 1000-volt potential. The utility of all tools is thoroughly verified by means of the impact strength, electrical, flame-retardancy, insulation adhesion and stamp tests, with each tool being tested individually.

High-quality steel

Insulated wrenches, pliers, shears, screwdrivers and other tools for working with electrical and other power installations are made of high-quality tool steel with added protection, and designed for simple and safe use.

VDE regulations

VDE insulated and tested according to the VDE regulations, Unior tools for work in electrically live environments meet the requirements of the internationally acknowledged European EN 60900 standard.





FLAME RETARDANCY TEST

The flame is applied to the test piece for 10 seconds. The test piece is acceptable if the height of the flame on the burning handle does not exceed 120 mm in an observation period of 20 seconds after the burner has been removed.



ELECTRICAL TEST (10KV)

Before testing the tools are immersed in a bath of water at 23° C for 24 hours +/- 5 hours. The test pieces are acceptable if there is no electrical discharge, spark over or flashover, and if the current leakage is less than 1mA for 20 mm insulation.



INSULATION TEST

Before testing the test piece is heated to 70 C +/- 2° C for 168 hours. The hanger is loaded with weights (500 N). The duration of test is 3 minutes. The test piece is acceptable if the handle remains firmly attached to the conducting part.



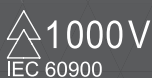
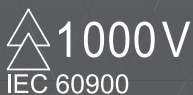
STAMP TEST

The indenter is loaded with a weight of 20 N and is applied to the centre of the handle. The test is successful if the test piece subsequently passes the electrical test.



IMPACT TEST

The test is carried out at an temperature of -23°C. The hammer is allowed to fall freely on the test piece 3 times. The test piece is acceptable if the handle is not cracked, broken or does not show signs of flaking.



Hand tools for live working up to 1000 V A.C.



Sign of the institution certifying the tools (VERBAND DEUTSCHER ELEKTROTECHNIKER).



A sign indicating that the tools are in accordance with the signed standard (DIN), which prescribes the basic demands for tools (dimension, hardness, mechanical testing etc.).

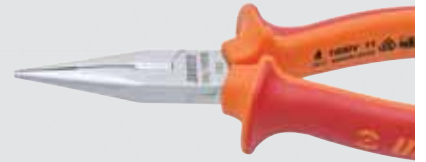




Features of Unior's pliers

VDE BI line

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- jet stamp UNIOR



VDE DP line

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- double layered insulation VDE tools, double safety
- establish wear of your VDE DP tools, just in time



Features of Unior's wrenches

Wrenches

- material: chrome vanadium



ORANGE AS A WARNING SIGN

The double plastic protection of the VDE tools ensures double safety, because it enables the recognition of worn out tools in due time. When the tool gets worn out, an orange colour appears (the second protection layer), which is a sign that the tool should be replaced immediately.



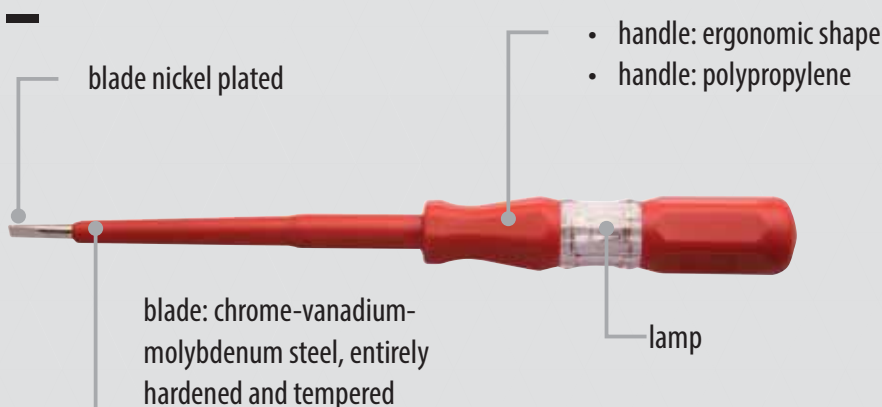
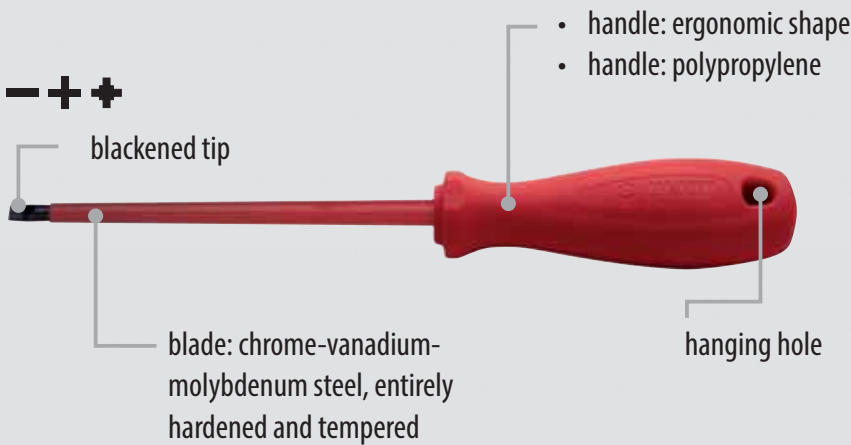
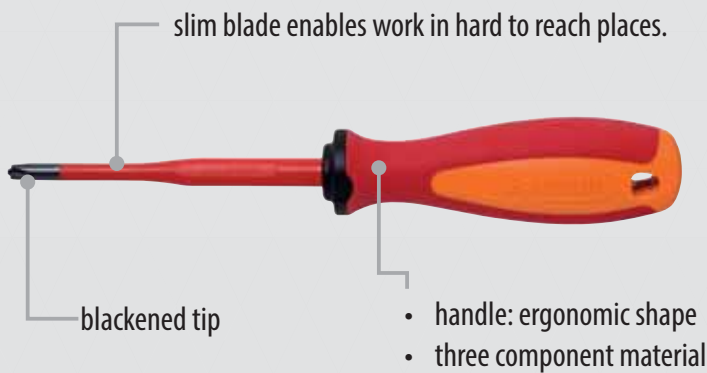
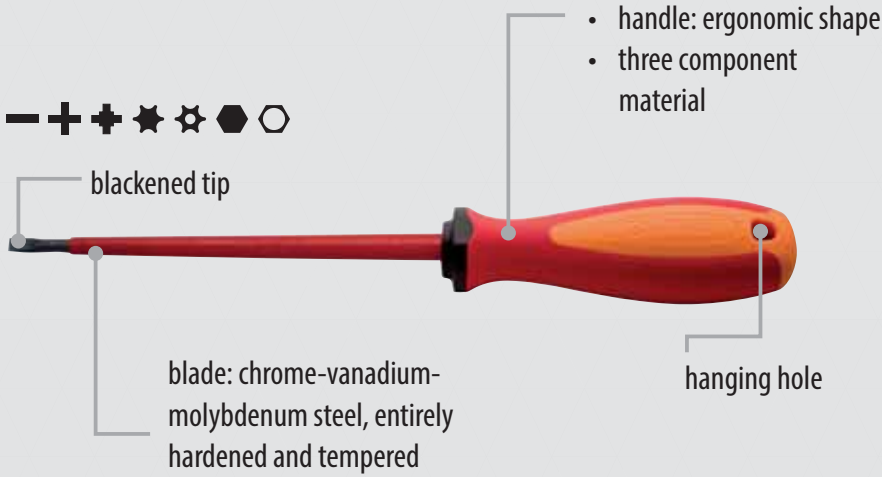
Safe tool



Worn out tool – immediate replacement

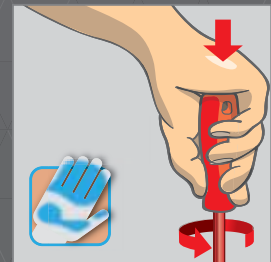


Features of Unior's screwdrivers

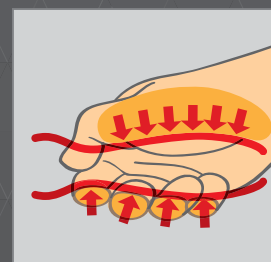
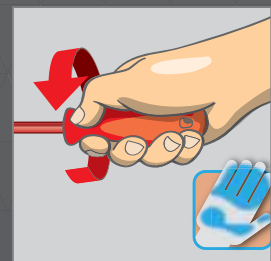


ERGONOMIC HANDLE!

The combination of hard and soft surface improves the load factor and ensures smooth screwing. The handle was developed in such a way that it takes care of the user's health because it reduces the tension of the hand muscle.



Large hand contact area = more torque power



Ergonomic handle design = protecting your hand



Insulated single open end wrench

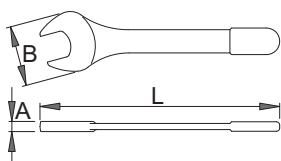
- material: chrome vanadium
- head: chrome plated according to EN12540
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- controled with electrical test

Important!

- if second layer is visible, replace your VDE tool with a new one.



Barcode	mm	L	B	A	Weight	Category
618370	6	72	16	6.9	19	1E
618331	7	82	16.1	6.9	26	1E
617801	8	95	21	7	30	1E
621575	9	100	24.5	7.5	35	1E
612175	10	105	24.5	7.5	42	1E
612176	11	112	26	7.5	51	1E
612177	12	125	28	8	65	1E
612178	13	132	30.5	8.5	76	1E
612179	14	140	33	8.5	84	1E
612180	15	150	35	9	96	1E
621576	16	154	40	10	118	1E
612181	17	157	40	10	137	1E
621577	18	165	44	11	151	1E
612182	19	170	44	11	170	1E
618333	20	175	46.4	12.2	184	1E
619201	21	180	48.8	12.5	213	1E
612183	22	195	49	13	234	1E
618335	23	210	52.8	13.1	251	1E
612184	24	220	56	14	311	1E
621578	26	235	59	15	361	1E
617802	27	240	59	15	387	1E
621579	28	245	66	15.8	440	1E
618336	30	260	66.1	15.8	518	1E
618337	32	275	71.4	17.6	620	1E

110/2VDEDPCB

Set of insulated open end wrenches in carton box



612676	10 - 24 / 10	1200	1F
110/2VDEDP (10, 11, 12, 13, 14, 15, 17, 19, 22, 24)			

180/2VDEDP

Insulated single offset ring wrench



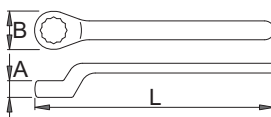
- material: chrome vanadium
- head: chrome plated according to EN12540
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- controled with electrical test

Important!

- if second layer is visible, replace your VDE tool with a new one.



		L	B	A		
621580	6	155	13.5	8.5	51	1E
621581	7	155	15	9	57	1E
621582	8	160	16.5	9.5	62	1E
621583	9	160	17.5	10	72	1E
612185	10	162	19.5	11	81	1E
612186	11	175	20	11.5	97	1E
612187	12	185	21.5	11.5	112	1E
612188	13	185	23	12.5	113	1E
612189	14	190	25.5	13	136	1E
612190	15	195	27	13.5	146	1E
621584	16	190	27.5	14.5	175	1E
612191	17	208	30.5	15.5	185	1E
621585	18	195	30	15.5	210	1E
612192	19	227	33	15.5	233	1E
621586	20	245	34.5	16.2	273	1E

Barcode	mm	L	B	A	Weight	Category
619202	21	244	36.4	13.2	307	1E
612193	22	250	37.5	17.5	300	1E
621587	23	250	39.8	16.8	333	1E
612194	24	255	42	18.5	428	1E
621588	26	265	44	18	450	1E
621589	27	270	44.8	18	411	1E
621590	28	280	36.5	18.5	488	1E
621591	30	310	47	19	574	1E
621592	32	325	51.5	19.5	647	1E



250/1VDEDP



Insulated adjustable wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- made according to standard EN60900

Advantages:

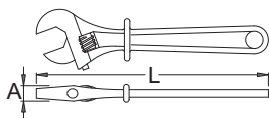
- double layered - double coloured insulation for additional safety
- controled with electrical test
- with scale

Important!

- if second layer is visible, replace your VDE tool with a new one.

Caution!

- Adjust the tool before using! Adjustment while working is life dangerous.



Barcode	mm	L	A	mm	Weight	Category
621917	150	165	35	23	182	1E
616849	200	215	35	28	355	1E
616850	250	265	35	32	579	1E
616851	300	310	36	38	871	1E
622065	380	390	35	50	1505	1E



180/2AVDEDP



Insulated single ring wrench, offset 90°

- material: chrome vanadium
- head: chrome plated according to EN12540

Advantages:

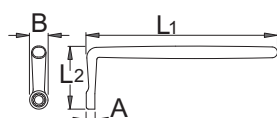
- double layered - double coloured insulation for additional safety
- controled with electrical test

Important!

- if second layer is visible, replace your VDE tool with a new one.

Usage

- For holding the nuts while screwing.



Barcode	mm	L1	L2	B	A	Weight	Box
619123	10	220	78	18.2	10	151	1E
619124	12	220	78	21.2	10	172	1E
619125	13	220	78	23.3	11	156	1E
619126	14	230	85	24.4	11.6	206	1E
619127	17	255	100	29.3	13.8	306	1E
619128	19	255	103	30.6	13	276	1E
619129	20	267	107	33.3	16	344	1E
619130	22	265	115	35.8	16	326	1E
619131	24	265	115	38.8	16.9	412	1E

180/2VDEDPCB

Set of insulated single offset ring wrench in carton box



612677	10 - 24 / 10	1820	1F
180/2VDEDP (10, 11, 12, 13, 14, 15, 17, 19, 22, 24)			

196/2BVDEDP

Insulated T-handle



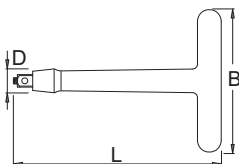
- material: chrome vanadium
- entirely hardened and tempered
- head: chrome plated according to EN12540
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation enable additional safety
- controled with electrical test

Important!

- if second layer is visible, replace your VDE tool with the new one.



		L	D	B		
619116	3/8"	210	20	145	369	1E
619117	1/2"	210	24	145	456	1E



Insulated socket wrench with T-handle, long type

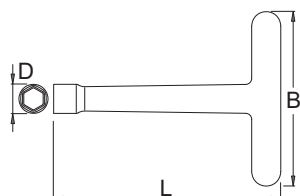
- material: chrome vanadium
- entirely hardened and tempered
- head: chrome plated according to EN12540
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation enable additional safety
- controled with electrical test

Important!

- if second layer is visible, replace your VDE tool with the new one.



Barcode	mm	L	B	D	Weight	Stock
619143	10	300	160	20	439	1E
619150	11	300	160	21	460	1E
619151	12	300	160	24	495	1E
619152	13	300	160	24	492	1E
619153	14	300	160	27	422	1E
619154	17	300	160	30	640	1E
619155	19	300	160	32	757	1E
619156	20	300	160	34	737	1E
619157	21	300	160	34	772	1E
619158	22	300	160	34	806	1E
619159	23	300	160	45	780	1E
619160	24	300	160	45	875	1E

Insulated four way rim wrench

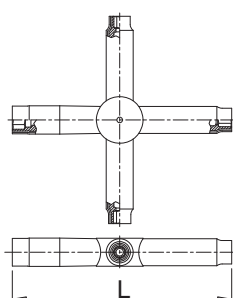
- head: chrome plated according to EN12540
- made according to standard EN60900

Advantages:

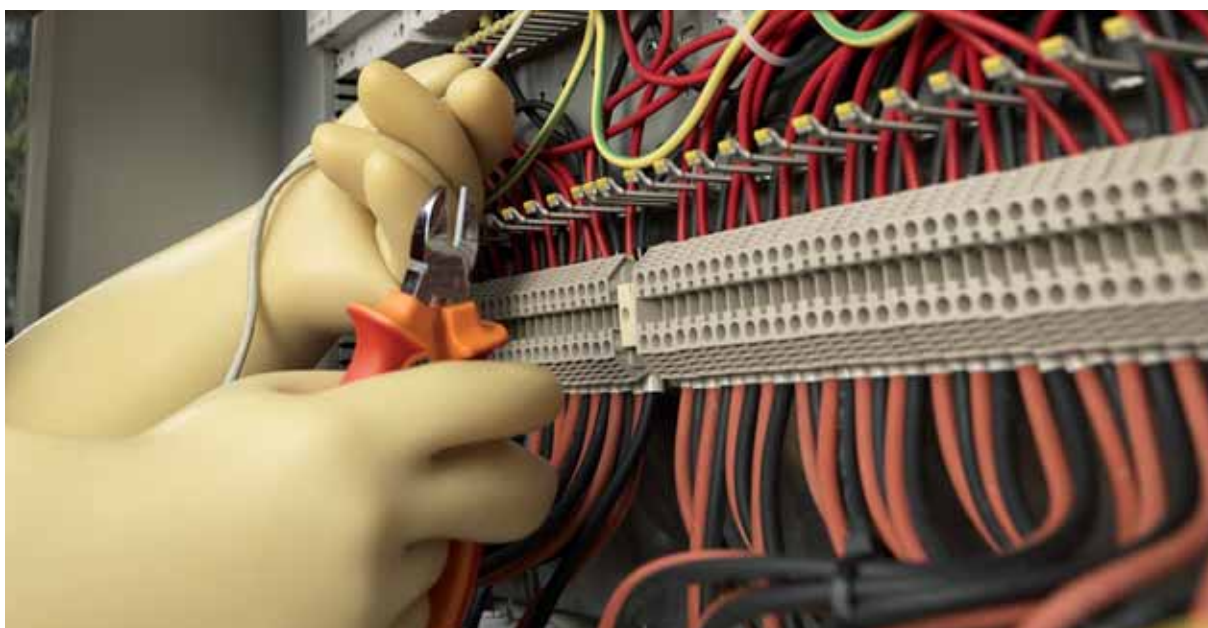
- double layered - double coloured insulation for additional safety
- controled with electrical test

Important!

- if second layer is visible, replace your VDE tool with a new one.



					L		
619093	10	11	14	17	207	450	1E
619094	11	12	13	17	207	450	1E
619095	10	13	14	17	207	450	1E
619096	11	13	14	17	207	450	1E
619097	13	17	19	22	207	450	1E



220/3LVDEDP



Insulated hexagon wrench

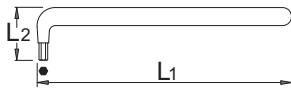
- material: chrome vanadium
- entirely hardened and tempered
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation enable additional safety
- controled with electrical test

Important!

- if second layer is visible, replace your VDE tool with the new one.



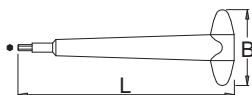
Barcode	Hexagon Size	L1	L2	Weight	Category
619136	3	130	26	20	4B
619137	4	145	31	31	4B
619138	5	165	36	53	4B
619139	6	188	40	73	4B
619140	8	206	49	135	4B
619141	10	234	55	221	4B
619142	12	262	58	346	4B

220TVDE



Insulated hexagon T wrench

- controled with electrical test
- made according to standard EN60900



Barcode	Hexagon Size	L	B	Weight	Category
619132	4	200	69	98	1E
619133	5	203	69	105	1E
619134	6	207	98	126	1E
619135	8	209	99	145	1E

220TVDE4PB

Set of insulated hexagon T wrenches in plastic box



621648	4 - 8 / 4	747	1F
220TVDE (4, 5, 6, 8)			



238/2VDEDP

Insulated socket 3/8"

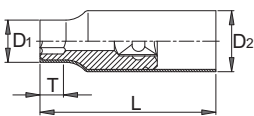
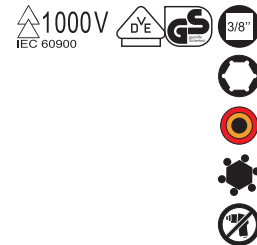
- material: chrome vanadium
- drop forged, entirely hardened and tempered
- head: chrome plated according to EN12540
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- controled with electrical test

Important!

- if second layer is visible, replace your VDE tool with a new one.



		D1	D2	L	T		
619161	10	18.7	23	46.5	10	26	4B
619162	11	20.7	23	46.5	10	40	4B
619163	12	21.8	23	46.5	10	40	4B
619164	13	23	23	46.5	10	43	4B
619165	14	24.9	23	46.5	14	50	4B
619166	17	28.6	23	49	15	70	4B
619167	19	31.4	23	49	17	74	4B
619168	22	35	23	51	17	104	4B

22 The first step to safe work

SOCKETS 3/8"

With the use of insulated ratchets and sockets VDE, you will forget all efforts and essentially improve the productivity of work. Because of its safety and simplicity, the high-quality tools will totally satisfy your expectations. A special feature is the lock system and mechanism for socket turnoff which enable faster use of the tool.

236/2HXVDEDP

Insulated hexagonal screwdriver socket 3/8"

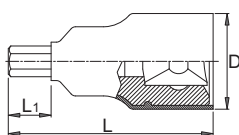
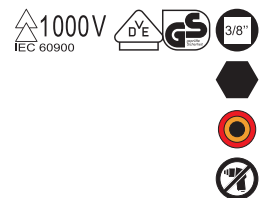
- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- controled with electrical test

Important!

- if second layer is visible, replace your VDE tool with a new one.

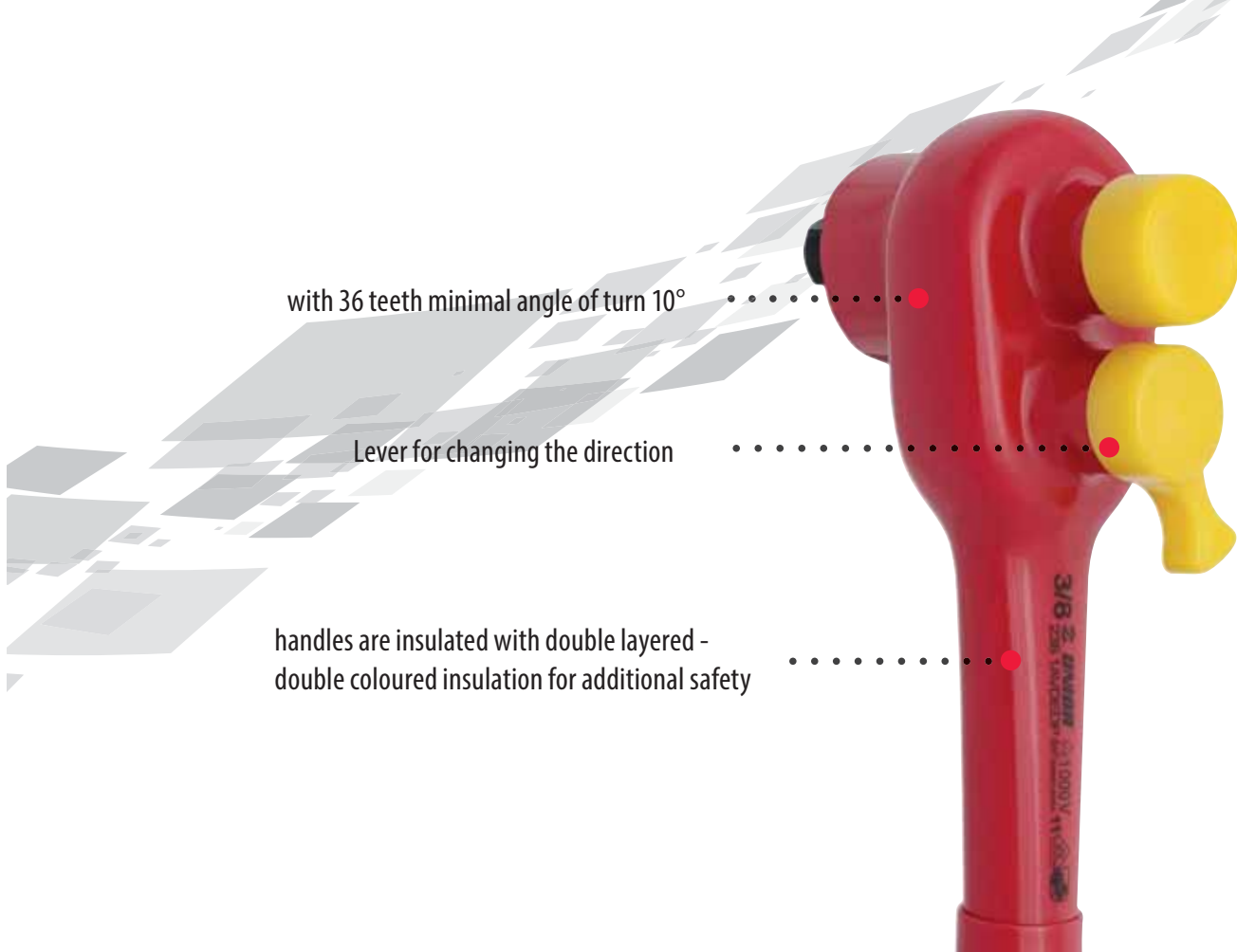


Barcode	Hex Size	L	L1	D	Weight	Category
619171	4	67	6	23.6	46	4B
619172	5	67	7.4	24.4	49	4B
619173	6	67	8.5	23.4	48	4B
619174	8	67	9.4	24	54	4B
619175	10	67	10.2	23.4	70	4B

with 36 teeth minimal angle of turn 10°

Lever for changing the direction

handles are insulated with double layered - double coloured insulation for additional safety



238.1AVDEDP

Insulated reversible ratchet 3/8"



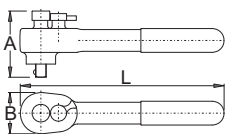
- material: special tool steel
- Lever for changing the direction
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- with 36 teeth
- minimal angle of turn 10°
- controled with electrical test

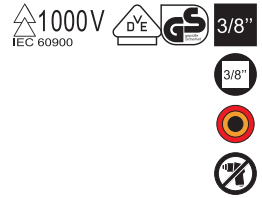
Important!

- if second layer is visible, replace your VDE tool with a new one.



		L	B	A		
619118	3/8"	200	72	42	375	1E

238.4/2VDEDP



Insulated extension bar 3/8"

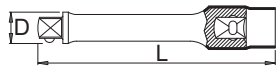
- material: chrome vanadium
- drop forged, entirely hardened and tempered
- head: chrome plated according to EN12540
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- controled with electrical test

Important!

- if second layer is visible, replace your VDE tool with a new one.



Barcode	Color	Weight	L	D	Weight	Box
619169	3/8"	125	144	17	151	4B
619170	3/8"	250	268	17	281	4B

239VDEDP6P10



Insulated socket set 3/8" in plastic box

- Dimension of box: 244 x 207 x 59



Barcode	Quantity	Weight	Box
621647	10	1420	1G

238/2VDEDP (10, 11, 12, 13, 14, 17, 19),
238.4/2VDEDP (3/8" x 125, 3/8" x 250), **238.1AVDEDP** (3/8"),










239VDEDP6P13



Insulated socket set 3/8" in metal box

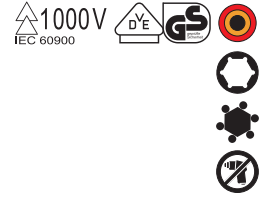
• Dimension of box: 448 x 198 x 54



			
619419	13	3165	1G
 238.1AVDEDP (3/8"),  238.4/2VDEDP (3/8" x 125, 3/8" x 250),  196/2BVDEDP (3/8"),  238/2VDEDP (10, 11, 13, 14, 17, 19),  236/2HXVDEDP (4, 5, 6)			



190/2VDEDP



Insulated socket 1/2"

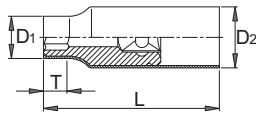
- material: chrome vanadium
- drop forged, entirely hardened and tempered
- head: chrome plated according to EN12540
- made according to standard EN60900

Advantages:

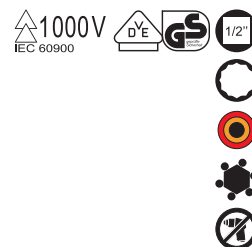
- double layered - double coloured insulation for additional safety
- controled with electrical test

Important!

- if second layer is visible, replace your VDE tool with a new one.



Barcode	mm	D1	D2	L	T	Weight	Code
617803	8	18	27.4	54.6	12	65	4B
621593	9	51.5	17.1	26.5	12	74	4B
612195	10	18	26	51.5	12	72	4B
612196	11	19.5	26.5	51.5	12	75	4B
612197	12	20.5	26.5	51.5	12	74	4B
612198	13	21.5	26.5	51.5	12	77	4B
612199	14	22.5	26.5	51.5	12	75	4B
621594	15	51.5	23.5	26.5	12	78	4B
621595	16	51.5	26	25.2	12	82	4B
612200	17	28	26	51.5	12	83	4B
621596	18	51.5	28.5	26.5	12	94	4B
612201	19	30	28	51.5	14	96	4B
621597	20	51.5	31.3	27.3	14	106	4B
621598	21	51.5	32.5	28.2	14	115	4B
612202	22	34	29	51.5	14	108	4B
621599	23	53.5	35.1	29.4	14	132	4B
612203	24	37	32.5	55	16	158	4B
621600	26	55.5	38.8	33.2	16	173	4B
617804	27	40.5	32.5	58	18	176	4B
621601	28	56.5	41.3	33.4	20	195	4B
621602	30	59.5	44	37.1	22	247	4B
621603	32	59.5	46.6	39.4	22	284	4B



Insulated socket 1/2", long type

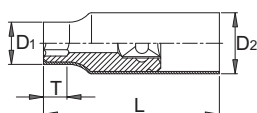
- material: chrome vanadium
- drop forged, entirely hardened and tempered
- head: chrome plated according to EN12540
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- controled with electrical test

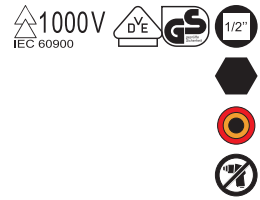
Important!

- if second layer is visible, replace your VDE tool with a new one.



Barcode	mm	L	D1	D2	T	Weight	Code
619104	10	96	20.7	27	27	116	4B
619105	11	96	21.6	27	27	116	4B
619106	12	96	22.6	27	27	123	4B
619107	13	96	23.3	27	27	127	4B
619108	14	96	25.8	27	35	134	4B
619109	15	96	26.8	27	35	132	4B
619110	16	96	27.4	27	35	143	4B
619111	17	96	30	27	35	151	4B
619112	18	96	31.7	27	35	174	4B
619113	19	96	32	27	35	170	4B
619114	20	96	33.4	27	35	200	4B
619115	21	96	33	27	35	188	4B
621604	22	96	33.6	29.6	35	213	4B
621605	24	96	35.6	31.6	35	238	4B

192/2HXVDEDP



Insulated hexagonal screwdriver socket 1/2"

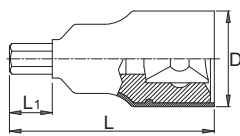
- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered

Advantages:

- double layered - double coloured insulation enable additional safety
- controled with electrical test

Important!

- if second layer is visible, replace your VDE tool with a new one.



Barcode	Hex Size	L	L1	D	Weight	Category
615173	4	76	18	27	76	4B
615174	5	76	18	27	73	4B
615175	6	76	18	27	80	4B
615176	8	76	18	27	96	4B
615177	10	76	18	27	110	4B

190.5/2VDEDP



Insulated offset handle 1/2"

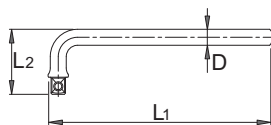
- material: chrome vanadium
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to EN12540
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- controled with electrical test

Important!

- if second layer is visible, replace your VDE tool with a new one.



Barcode	L1	L2	Weight	Category
615178	250	72	408	1E

The first step to safe work

With the use of insulated ratchets and sockets VDE, you will forget all efforts and essentially improve the productivity of work. Because of its safety and simplicity, the high-quality tools will totally satisfy your expectations. A special feature is the lock system and mechanism for socket turnoff which enable faster use of the tool.

29
SOCKETS 1/2"



190.1AVDEDP

Insulated reversible ratchet 1/2"

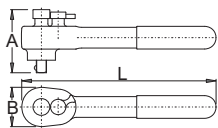
- material: chrome vanadium
- Lever for changing the direction
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- with 36 teeth
- minimal angle of turn 10°
- controled with electrical test

Important!

- if second layer is visible, replace your VDE tool with a new one.



		L	B	A		
619119	1/2"	245	50	80	667	1E

190VDE6P11A

Insulated socket set 1/2" in metal box

• Dimension of box: 321 x 198 x 54



612678	11	2620	1G
190/2VDEDP (10, 11, 12, 13, 14, 17, 19, 22, 24), 190.1AVDEDP (1/2"), 190.4/2VDEDP (1/2" x 125)			

190VDE6P11

Insulated socket set 1/2" in metal box

• Dimension of box: 448 x 198 x 54



616704	11	2650	1G
190/2VDEDP (13, 14, 17, 19), 192/2HXVDEDP (4, 5, 6, 8, 10), 190.1AVDEDP (1/2"), 190.4/2VDEDP (1/2" x 125)			

190VDE6P10

Insulated socket set 1/2" in plastic box

• Dimension of box: 307 x 260 x 70



621646	10	2400	1F
190/2VDEDP (13, 14, 17, 19, 22, 24, 27), 190.1AVDEDP (1/2"), 190.4/2VDEDP (1/2" x 125, 1/2" x 250), 981PBM2 (307 x 260 x 74)			

190VDEDP6P13B

Insulated socket set 1/2" in metal box

• Dimension of box: 321 x 198 x 54



619420	13	3096	1G
190/2VDEDP (8, 10, 11, 12, 13, 14, 17, 19, 22, 24, 27), 190.1AVDEDP (1/2"), 190.4/2VDEDP (1/2" x 125)			

190VDE12P11L

Insulated socket set 1/2"- long type in metal box



625247	11
190.1VDE (1/2"), 190.4/2VDEDP (1/2" x 125), 190/2LVDEDP (10, 11, 12, 13, 14, 17, 19, 22, 24)	



When you can rely on your tools

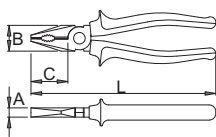
Due to universal use, these pliers are also intended for cutting and clenching. It is possible to clench flat or round material and to cut softer and hard wires and cables. Its strong and durable blades make this tool one you can rely on.



406/1VDEBI

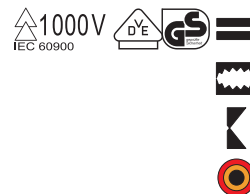
Combination pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard ISO 5746 and EN 60900



Barcode	L	B	C	A	Weight	Category
610421	160	24	35	9.5	224	4B
610422	180	27	38	10	274	4B
610423	200	29	41	10.5	344	4B
610424	220	32	47	11	424	4B
cutting capacity (10N=1kg)						
Barcode	L	max 1600 N/mm ² Øf		max 650 N/mm ² Øf		
610421	160	1,6		2,0		
610422	180	1,8		2,5		
610423	200	2,0		2,5		
610424	220	2,0		3,0		

406/1VDEDP



Combination pliers

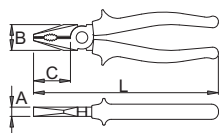
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- made according to standard ISO 5746 and EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety

Important!

- if second layer is visible, replace your VDE tool with a new one.



Barcode	L	B	C	A	Weight	Category
619177	140	23	32	8	157	4B
619178	160	24	35	9.5	219	4B
619179	180	27	38	10	269	4B
619180	200	29	41	10.5	321	4B
619181	220	32	47	11	376	4B

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
619177	140	1,6	2,0
619178	160	1,6	2,0
619179	180	1,8	2,5
619180	200	2,0	2,5
619181	220	2,0	3,0

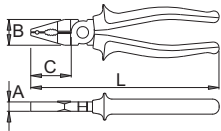


420/1VDEBI



Linemen`s pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard EN 60900



Barcode	L	B	C	A	Weight	Category
610425	180	24	45	11	241	4B
cutting capacity (10N=1kg)						
Barcode	L	max 1600 N/mm ² Ø†		max 650 N/mm ² Ø†		
610425	180	1,8		2,5		

420/1VDEDP



Linemen`s pliers

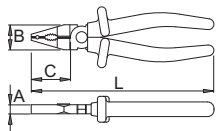
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- made according to standard EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety

Important!

- if second layer is visible, replace your VDE tool with a new one.



Barcode	L	B	C	A	Weight	Category
619176	180	24	45	11	221	4B
cutting capacity (10N=1kg)						
Barcode	L	max 1600 N/mm ² Ø†		max 650 N/mm ² Ø†		
619176	180	1,8		2,5		

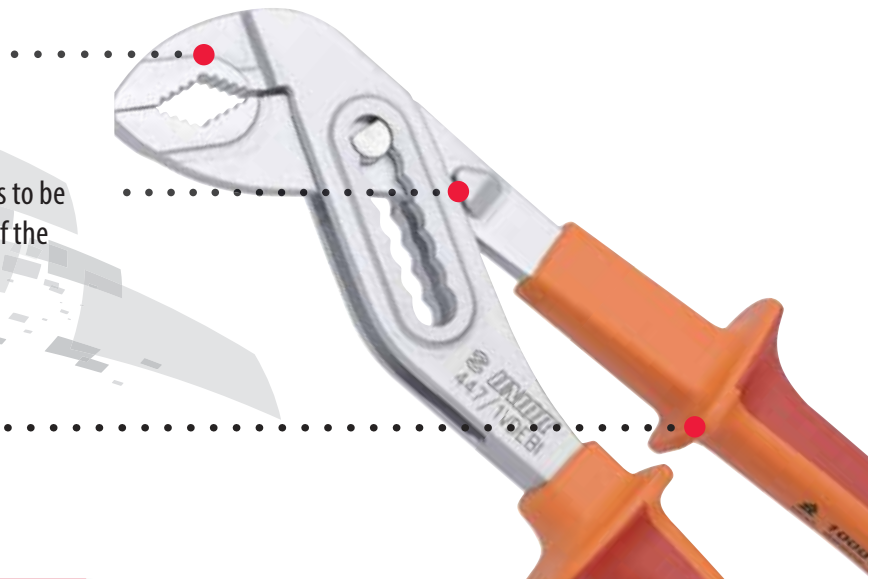
34 One-handed use

With the universal pliers VDE you will be able to achieve an optimal transmission to the working platform without great effort. When clasping pipes and nuts, the pliers ensure a clean grip without any traction. With special anti-traction protection which stops your hands of directly touching the working platform and with that the possibility of finger injury during work is reduced. The adjustable jaw into 7 positions enables the jaws of the pliers to adapt to different types of work piece without changing the pliers.

jaw aperture adjustable in 7 positions

A special bulge prevents fingers to be pressed between the handles of the pliers.

heavy duty double - component handles



447/1VDEBI

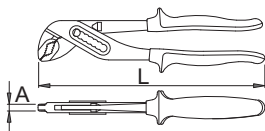


Insulated waterpump box joint pliers

- material: chrome vanadium
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard ISO 8976 and EN 60900

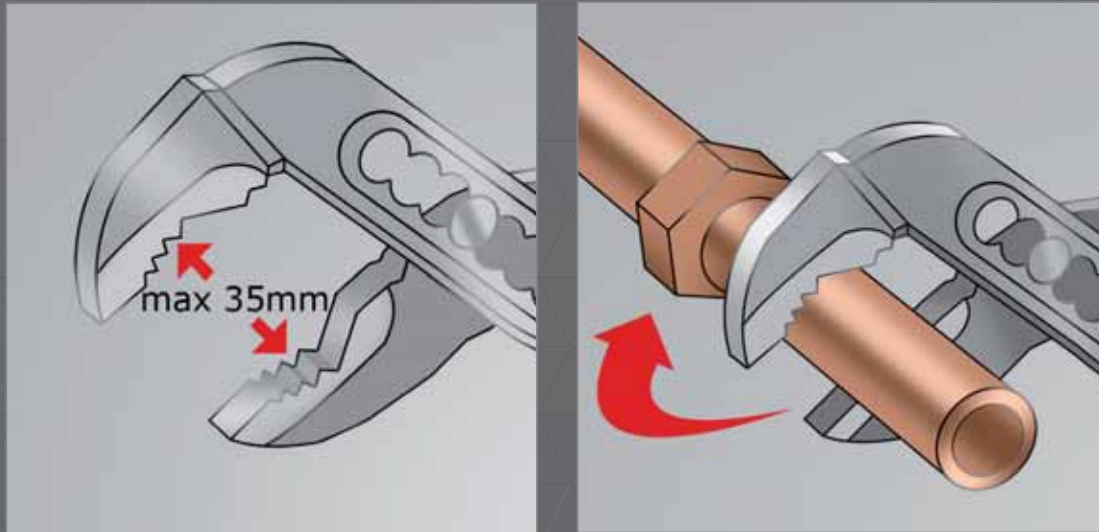
Advantages:

- jaw aperture adjustable in 7 positions
- A special bulge prevents fingers to be pressed between the handles of the pliers.



	L	A			
611993	240	6.5	35	367	4B

FEATURES OF 447/1VDEBI, 447/1VDEDP



447/1VDEDP

Waterpump box joint pliers



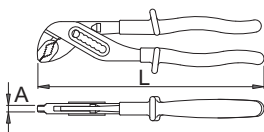
- material: chrome vanadium
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- surface finish: chrome plated to standard EN12540
- made according to standard ISO 8976 and EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety
- jaw aperture adjustable in 7 positions
- A special bulge prevents fingers to be pressed between the handles of the pliers.

Important!

- if second layer is visible, replace your VDE tool with a new one.

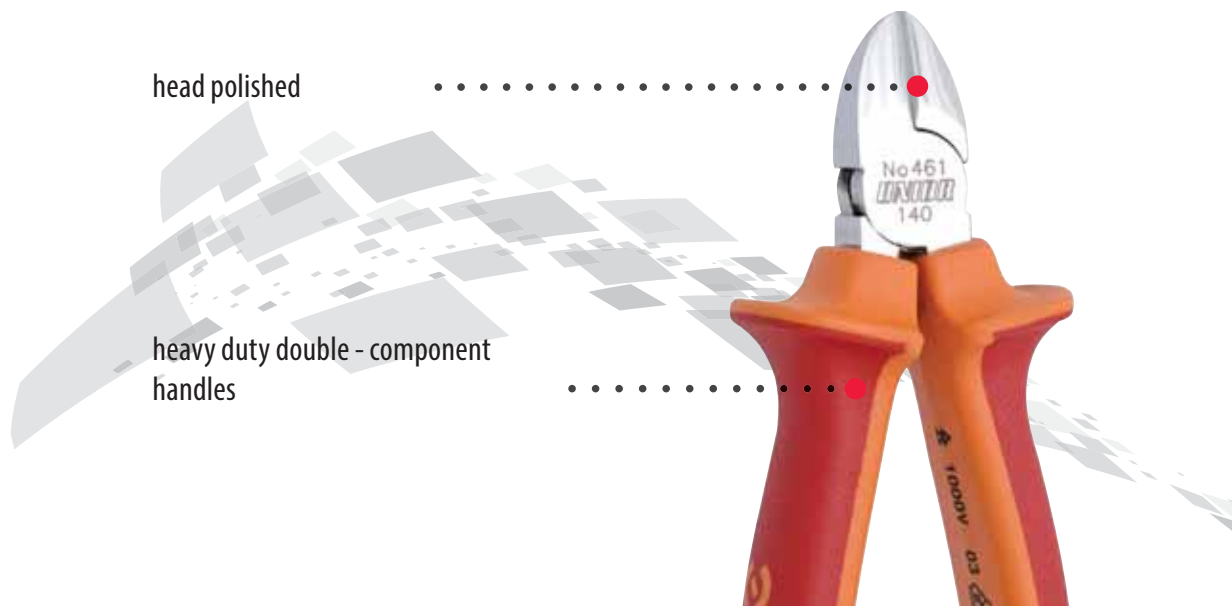


Barcode	L	A	Symbol	Weight	Accessories
619199	240	6.5	35	382	4B

36 Minimum effort – maximum transmission

DIAGONAL CUTTING NIPPERS

The Diagonal cutting nippers VDE with its precise cutting edges offer exact and better cutting of wires with minimum effort and maximum transmission. Due to the reduced wearing out of cutting edges, the useful life of the pliers gets longer.

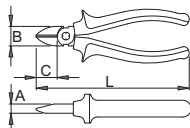


461/1VDEBI



Diagonal cutting nippers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard ISO 5749 and EN 60900



	L	B	A	C		
610426	140	19	9.5	18	169	4B
610427	160	22.5	10	22	214	4B
cutting capacity (10N=1kg)						
	L	max 1600 N/mm ² ØT		max 650 N/mm ² ØT		
610426	140	1,6		2,0		
610427	160	1,6		2,5		

FEATURES OF 461/1VDE, 461/1VDEDP



461/1VDEDP

Diagonal cutting nippers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- made according to standard ISO 5749 and EN 60900

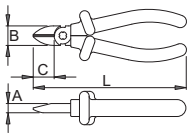


Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety

Important!

- if second layer is visible, replace your VDE tool with a new one.

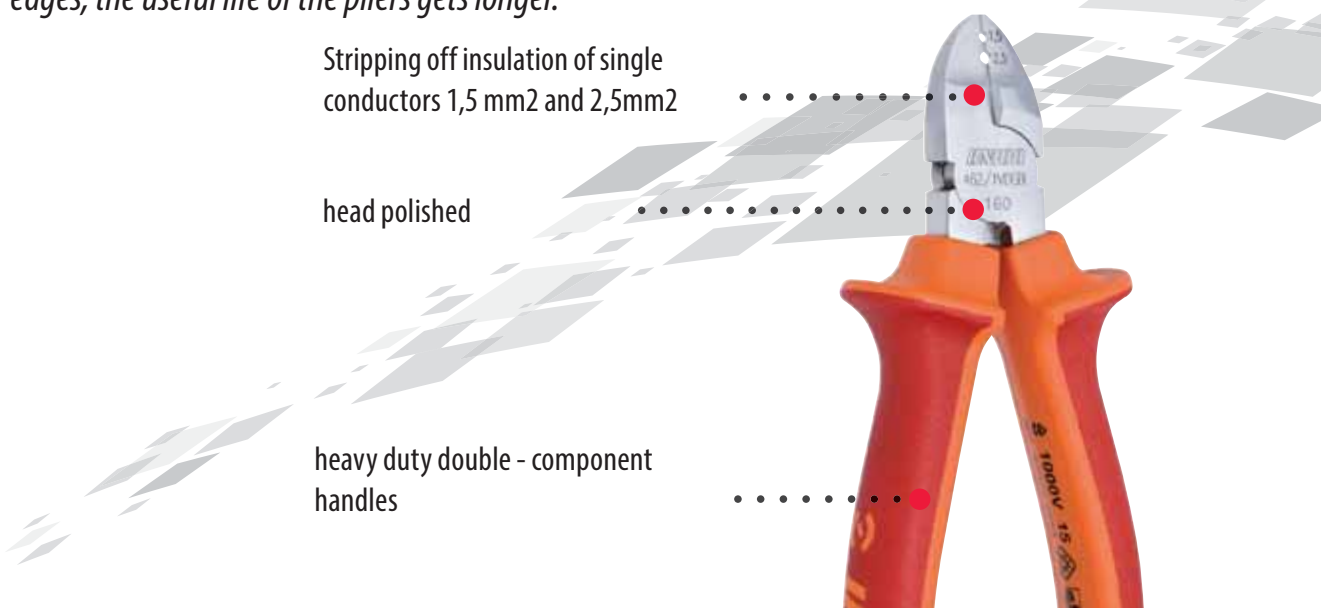


Barcode	L	B	A	C	Weight	Accessories
619193	140	19	9.5	18	174	4B
619194	160	22.5	10	22	224	4B
cutting capacity (10N=1kg)						
Barcode	L	max 1600 N/mm ² ØT		max 650 N/mm ² ØT		
619193	140	1,6		2,0		
619194	160	1,6		2,5		

38 Minimum effort – maximum transmission

MULTIFUNCTIONAL DIAGONAL CUTTING NIPPERS

The Diagonal cutting nippers VDE with its precise cutting edges offer exact and better cutting of wires with minimum effort and maximum transmission. Due to the reduced wearing out of cutting edges, the useful life of the pliers gets longer.



462/1VDEBI



Multifunctional diagonal cutting nippers

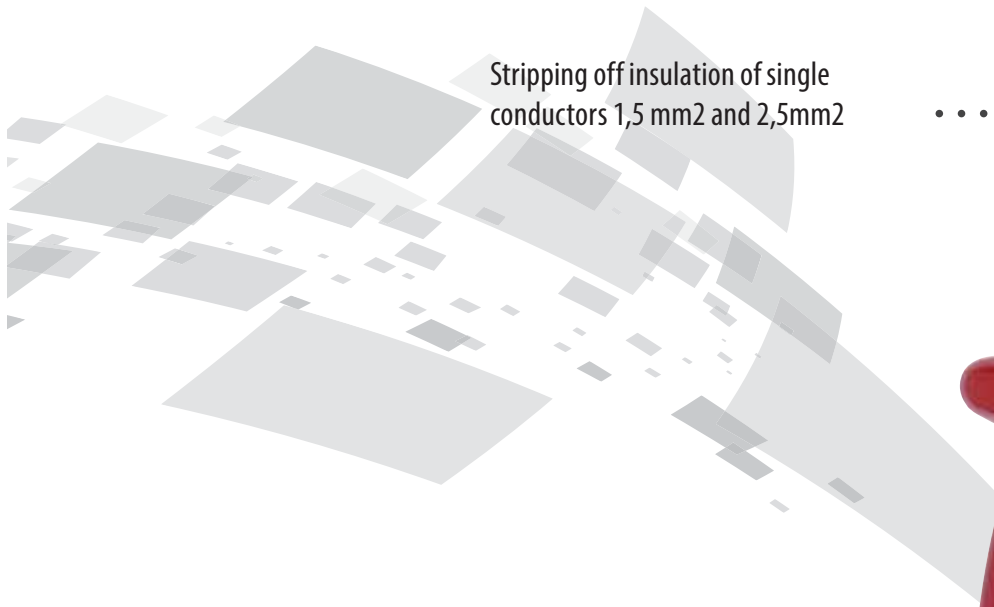
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard EN 60900

Advantages:

- Stripping off insulation of single conductors 1,5 mm² and 2,5mm²



Barcode	L	B	A	C	Weight	Category
624060	160	22,5	10	22	214	4B
cutting capacity (10N=1kg)						
Barcode	L	max 1600 N/mm ² ØT		max 650 N/mm ² ØT		
624060	160	1,6		2,5		



Stripping off insulation of single conductors 1,5 mm² and 2,5mm²



462/1VDEDP



Multifunctional diagonal cutting nippers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- made according to standard EN 60900

Advantages:

- Stripping off insulation of single conductors 1,5 mm² and 2,5mm²
- handles are insulated with double layered - double coloured insulation for additional safety

Important!

- if second layer is visible, replace your VDE tool with a new one.



Barcode	L	B	A	C	Weight	Code
624061	160	22,5	10	22	224	4B
cutting capacity (10N=1kg)						
Barcode	L	max 1600 N/mm ² Ø↑		max 650 N/mm ² Ø↑		
624061	160	1,6		2,5		

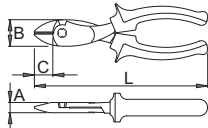


466/1VDEBI



Heavy duty diagonal cutting nippers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard ISO 5749 and EN 60900



	L	B	A	C		
610428	180	28	11	20	316	4B
611756	200	27	11	21	344	4B
cutting capacity (10N=1kg)						
	L	max 2150 N/mm ² Ø↑		max 650 N/mm ² Ø↑		
610428	180	1,8		3,0		
611756	200	2,0		3,5		

Heavy duty diagonal cutting nippers

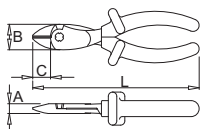
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- made according to standard ISO 5749 and EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety

Important!

- if second layer is visible, replace your VDE tool with a new one.



Barcode	L	B	A	C	Weight	Category
619195	180	28	11	20	303	4B
619196	200	27	11	21	351	4B

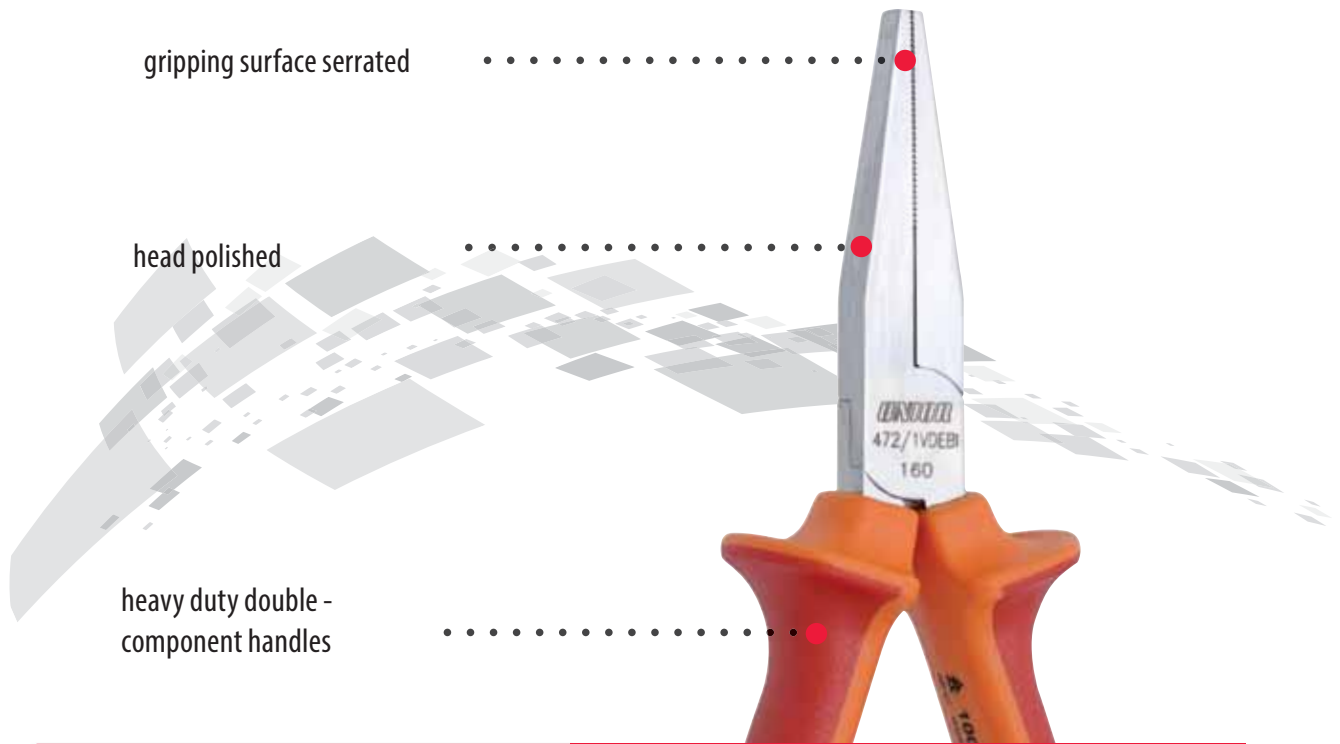
cutting capacity (10N=1kg)			
Barcode	L	max 2150 N/mm ² Ø↑	max 650 N/mm ² Ø↑
619195	180	1,8	3,0
619196	200	2,0	3,5



42 Very precise and durable

FLAT AND ROUND PLIERS

Due to its universal use, ergonomic design and useful life of the product, Unior tries to satisfy the needs and wishes of the user. With the technology of creating a hand-friendly tool, work with less effort becomes much easier and effective. The pliers are very durable and precise when working with wires.

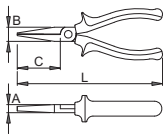


472/1VDEBI

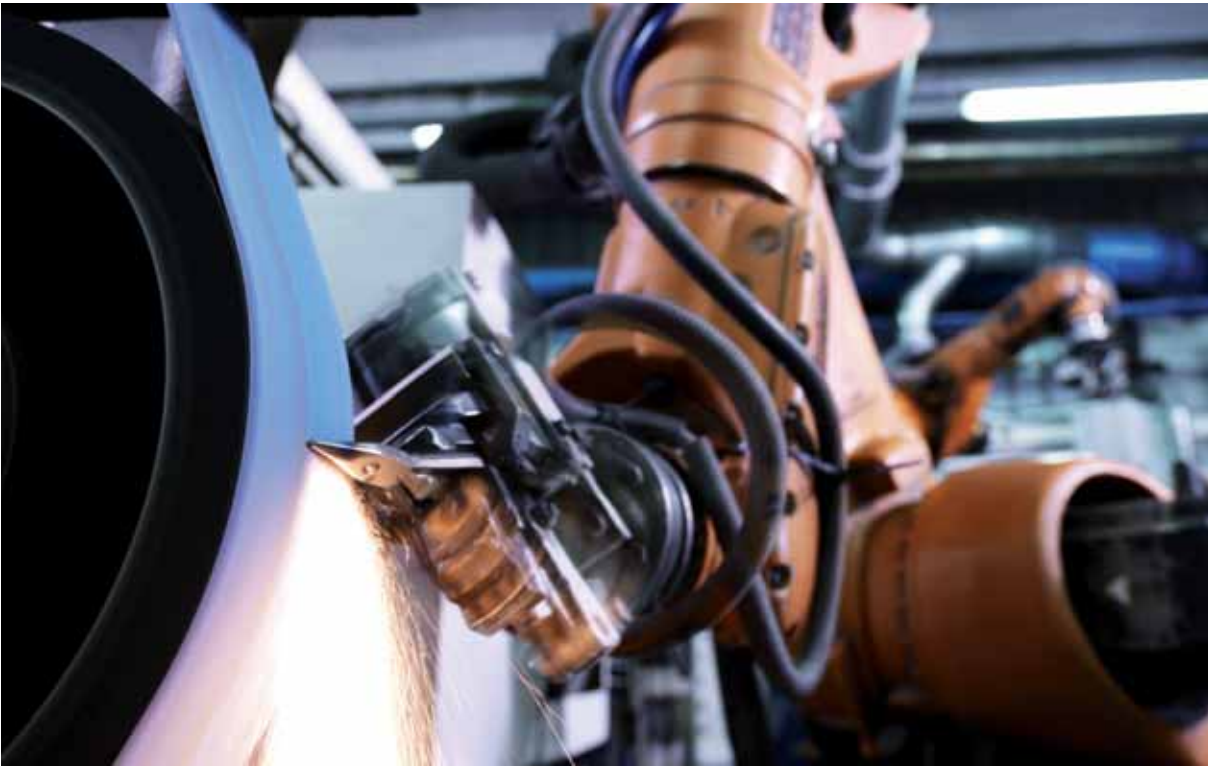


Long flat nose pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- gripping surface serrated
- made according to standard ISO 5745 and EN 60900



Barcode	L	B	C	A	Weight	Category
610430	160	16	49	9	146	4B



472/1VDEDP



Long flat nose pliers

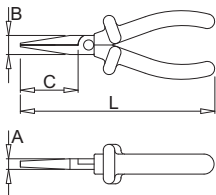
- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- made according to standard ISO 5745 and EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety
- gripping surface serrated

Important!

- if second layer is visible, replace your VDE tool with a new one.

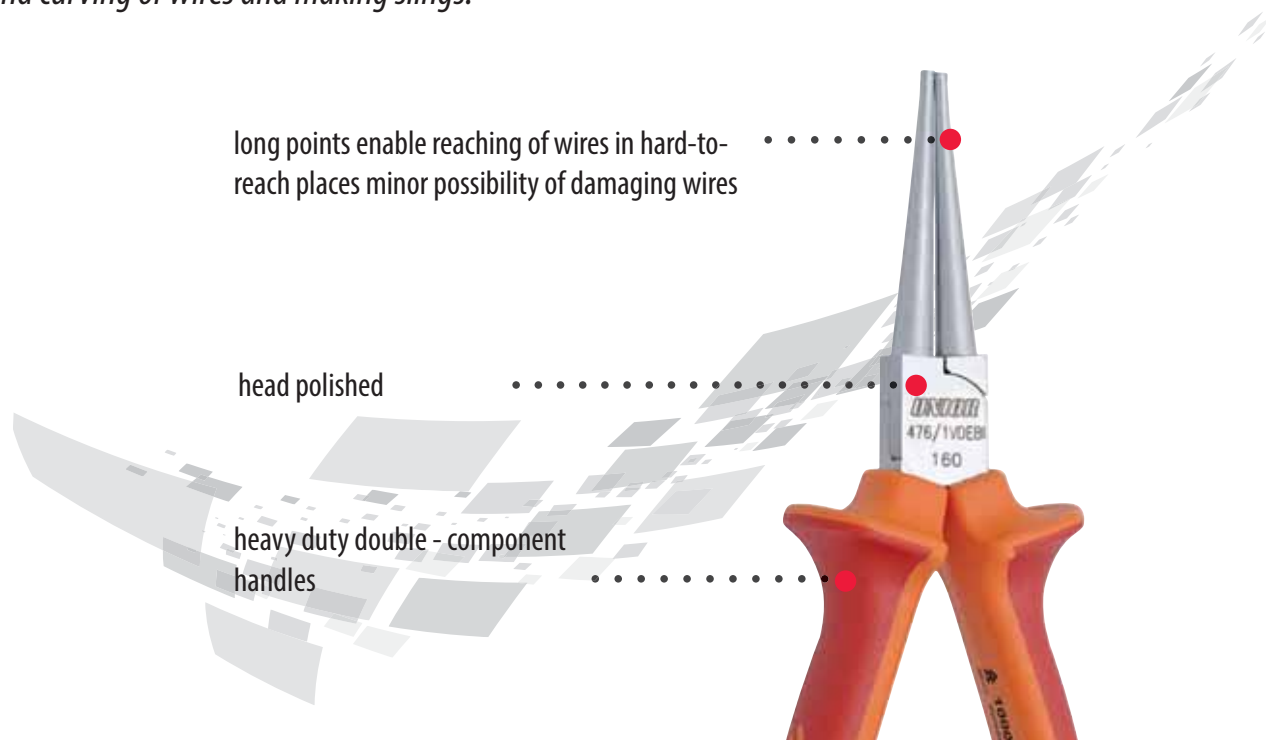


Barcode	L	B	C	A	Weight	Accessories
619182	140	15	39	8	114	4B
619183	160	16	49	9	153	4B

44 Quality in shape

FLAT AND ROUND PLIERS

The production of the VDE pliers is based on constant quality control. In each stage of production, the pliers are individually checked and tested to prevent the possibility of failures on the tools and increases safety during use. The advantage of long round nose pliers is its exact clenching, bending, and curving of wires and making slings.



476/1VDEBI

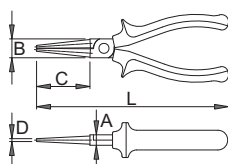


Long round nose pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard ISO 5745 and EN 60900

Advantages:

- long points enable reaching of wires in hard-to-reach places
- minor possibility of damaging wires



Barcode	L	B	A	C	D	Weight	Category
610431	140	15	9	39	2	116	4B
610432	160	16	10	49	2.5	126	4B



476/1VDEDP

Long round nose pliers



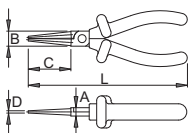
- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- made according to standard ISO 5745 and EN 60900

Advantages:

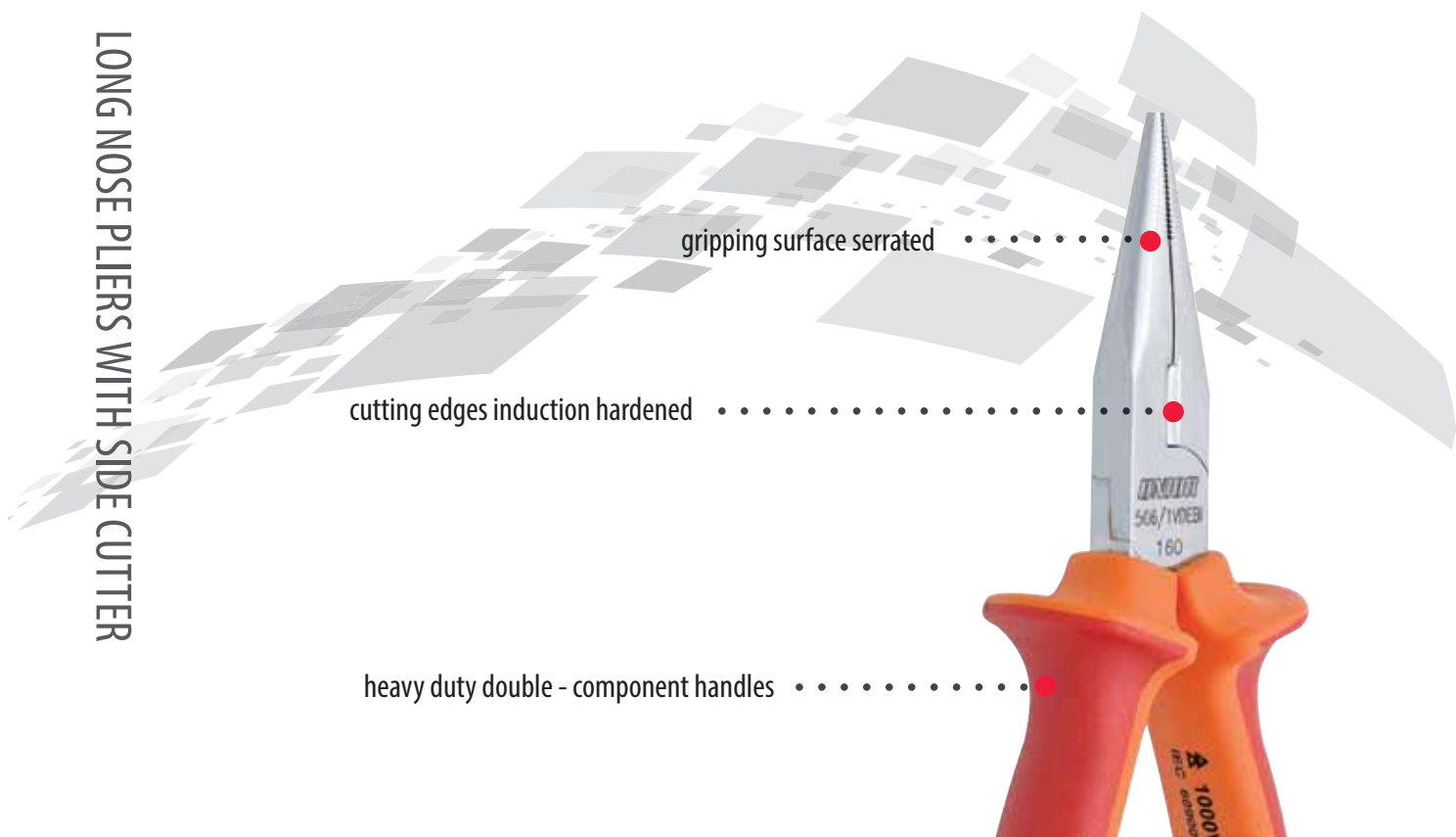
- handles are insulated with double layered - double coloured insulation for additional safety
- long points enable reaching of wires in hard-to-reach places
- minor possibility of damaging wires

Important!

- if second layer is visible, replace your VDE tool with a new one.



Barcode	L	B	A	C	D	Weight	Code
619184	140	15	9	39	2	114	4B
619185	160	16	10	49	2.5	139	4B



506/1VDEBI

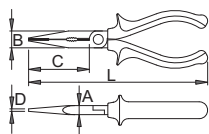


Long nose pliers with side cutter

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard ISO 5745 and EN 60900

Advantages:

- also for clenching and separating of from cables and other sensitive objects
- gripping surface serrated



Barcode	L	B	D	A	C	Weight	Box
610434	140	15	2	8	39	115	4B
610435	160	16	2.5	9	49	137	4B
cutting capacity (10N=1kg)							
Barcode	L	max 1600 N/mm ² ØT		max 650 N/mm ² ØT			
610434	140	1,6		2,0			
610435	160	1,6		2,0			



506/1VDEDP

Long nose pliers with side cutter

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- made according to standard ISO 5745 and EN 60900

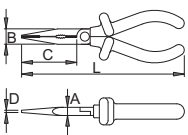


Advantages:

- handles are insulated with double layered - double coloured insulation, which enables additional safety
- also for clenching and separating of from cables and other sensitive objects
- gripping surface serrated

Important!

- if second layer is visible, replace your VDE tool with the new one.



Barcode	L	B	D	A	C	Weight	Storage
619187	140	15	8	8	39	125	4B
619188	160	16	2.5	9	49	157	4B
cutting capacity (10N=1kg)							
Barcode	L	max 1600 N/mm ² Ø↑		max 650 N/mm ² Ø↑			
619187	140	1,6		2,0			
619188	160	1,6		2,0			



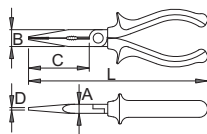
508/1VDEBI

Long nose pliers with side cutter and pipe grip, straight

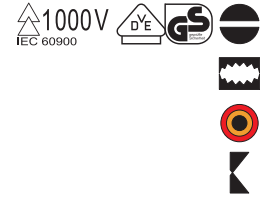
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard ISO 5745 and EN 60900

Advantages:

- also for clenching and separating of from cables and other sensitive objects
- gripping surface serrated



Barcode	L	B	D	A	C	Weight	Box
610436	170	17	2.5	9	61	156	4B
610437	200	17	2.5	9	77	191	4B
cutting capacity (10N=1kg)							
Barcode	L	max 1600 N/mm ² ØT		max 650 N/mm ² ØT			
610436	170	1,6		2,0			
610437	200	1,8		2,5			



Long nose pliers with side cutter and pipe grip, straight

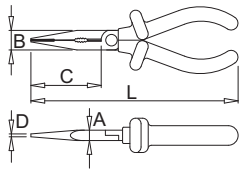
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- made according to standard ISO 5745 and EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation, which enables additional safety
- also for clenching and separating of from cables and other sensitive objects
- gripping surface serrated

Important!

- if second layer is visible, replace your VDE tool with the new one.



Barcode	L	B	D	A	C	Weight	Code
619189	170	17	2.5	9	61	162	4B
619190	200	17	2.5	9	77	201	4B
cutting capacity (10N=1kg)							
Barcode	L	max 1600 N/mm ² Ø↑		max 650 N/mm ² Ø↑			
619189	170	1,6		2,0			
619190	200	1,8		2,5			



50 Difficult-to-reach places are history

LONG NOSE PLIERS WITH SIDE CUTTER

VDE tools will surprise you each time of use. Thin precise points can handle difficult and impossible tasks and reach difficult-to-reach-places. The long bent jaws enable simple and precise clenching of nuts and screws.

512/1VDEBI

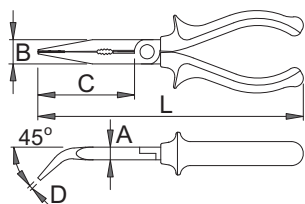
Long nose pliers with side cutter and pipe grip, bent



- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard EN 60900

Advantages:

- the long bent jaws enable simple and precise clenching of nuts and screws
- the strong jaws enable good grip
- jaws bent to an angle of 45°
- gripping surface serrated



Barcode	L	B	D	A	C	Weight	Box
610438	170	17	2.5	9	61	152	4B
610439	200	17	2.5	9	77	204	4B
cutting capacity (10N=1kg)							
Barcode	L	max 1600 N/mm ² Ø↑		max 650 N/mm ² Ø↑			
610438	170	1,6		2,0			
610439	200	1,8		2,5			

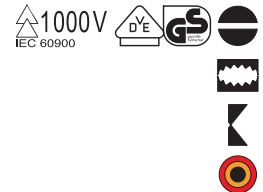
the long bent jaws enable simple and precise clenching of nuts and screws

jaws bent to an angle of 45°
gripping surface serrated

handles are insulated with double layered - double coloured insulation for additional safety



512/1VDEDP



Long nose pliers with side cutter and pipe grip, bent

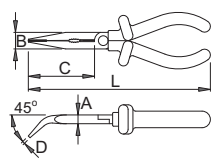
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- made according to standard EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety
- the long bent jaws enable simple and precise clenching of nuts and screws
- the strong jaws enable good grip
- jaws bent to an angle of 45°
- gripping surface serrated

Important!

- if second layer is visible, replace your VDE tool with a new one.



Barcode	L	B	D	A	C	Weight	Category
619191	170	17	2.5	9	61	156	4B
619192	200	17	2.5	9	77	201	4B
cutting capacity (10N=1kg)							
Barcode	L	max 1600 N/mm ² Ø↑		max 650 N/mm ² Ø↑			
619191	170	1,6		2,0			
619192	200	1,8		2,5			

52 Perfect grip of your hands

STRIPPERS

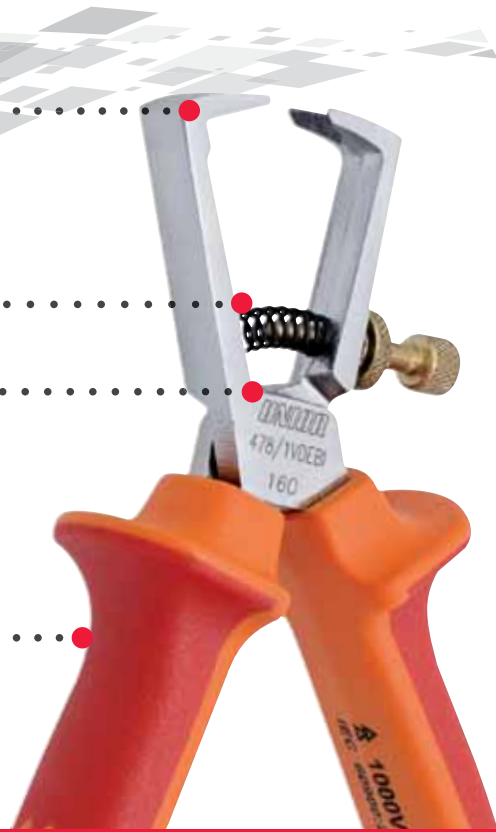
In collaboration with our users and various professionals from hand tools, a certain number of analyses and tests of pliers were carried out. The result is a comfortable use, perfect grip and reduced pressure on the hand itself.

stripping capacity: up to max 0.6 - 10mm²

spring for reopening

head polished

heavy duty double - component handles

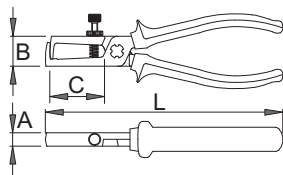


478/1VDEBI



Wire stripping pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- stripping capacity: up to max 0.6 - 10mm²
- spring for reopening
- made according to standard EN 60900



Barcode	L	mm ²	B	A	C	Weight	Accessories
610433	160	0.6-10	18	9	40	178	4B



478/1VDEDP



Wire stripping pliers

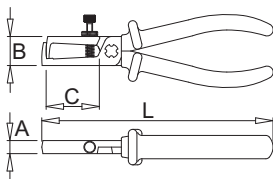
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- stripping capacity: up to max 0.6 - 10mm²
- made according to standard EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety
- spring for reopening

Important!

- if second layer is visible, replace your VDE tool with a new one.



	L		B	A	C		
619186	160	0.6-10	18	9	40	167	4B

54 A mixture of functionality and high quality

CABLE SHEARS

The shears are a mixture of functionality, high quality, reliability, and durability. They ensure reduced possibility of injuries on eventual contact with an electric conductor up to 1000 V.

for cutting cables without steel wire

head polished

heavy duty double - component handles



580/1VDEBI

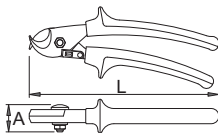


Cable shears

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard EN 60900

Important!

- for cutting cables without steel wire



Barcode	L	A	Weight	Part No.	Accessories
610440	170	18	10	339	4B
610441	230	22	17	444	4B



580/1VDEDP

Cable shears

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- made according to standard EN 60900

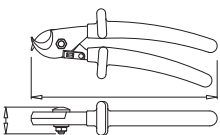


Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety

Important!

- if second layer is visible, replace your VDE tool with a new one.
- for cutting cables without steel wire



Barcode	L	A	mm	kg	Box
619197	170	18	10	226	4B
619198	230	22	17	409	4B

TBI handles for screwdrivers are composed of three layers, namely:

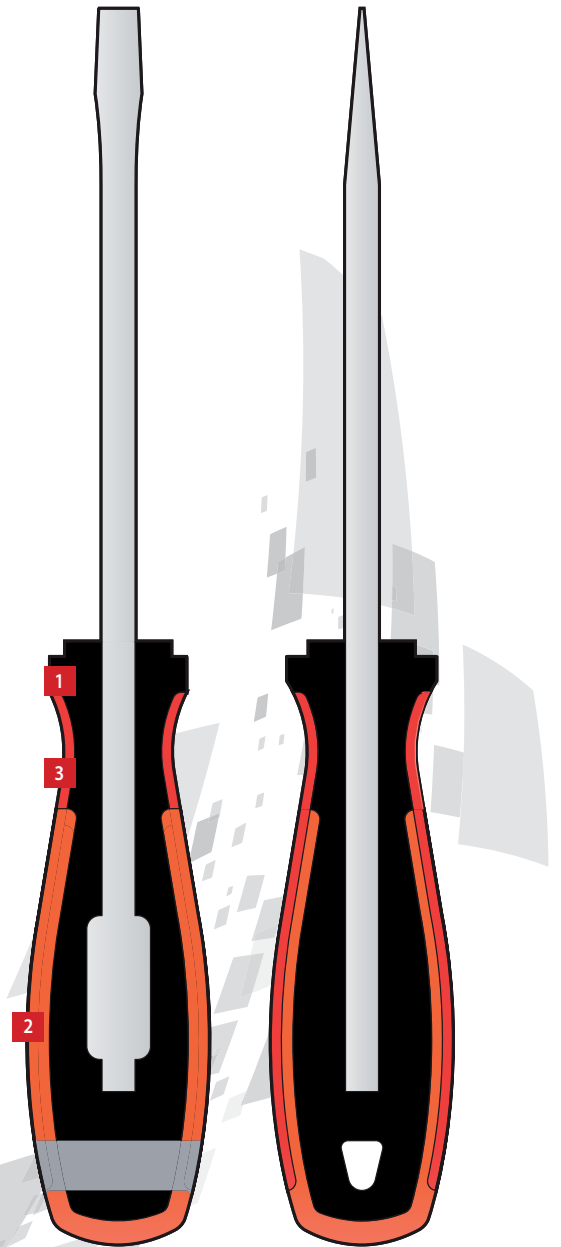
1. layer: black PP (polypropylene) which surrounds the stem of the screwdriver and is extremely solid, preventing the turning of the screwdriver stem in the handle at high torque
2. layer: orange PP (polypropylene) which surrounds the 1st layer of the handle is very stiff and ensures the constant shape of the handle under various environmental effects
3. layer: red TPE (thermoplastic elastomer) which partially surrounds the 2nd layer of the handle is a medium-strength material that gives the handle its final ergonomic shape, ensures a pleasant and non-slipping grip and thereby the achievement of high torques

Able to fit a variety of screw profiles and exhibiting innovative three-component handles, UNIOR screwdrivers ensure great efficiency and a slip-proof grip.

The screwdrivers are made of chrome-vanadium-molybdenum steel and are additionally chrome or nickel plated. The superior quality of materials used in the Unior line of screwdrivers is complemented by ergonomically designed handles to provide an excellent hold.

With its combination of soft and hard surfaces, the special, three-component handle – a Unior patent – ensures comfort and efficient performance with minimum strain on the wrist while working. The soft material ensures maximum gripe even when oily.

Along with the varied consistency of the plastic handle practically eliminating the danger of the screwdriver slipping in the hand, the improved grip also ensures greater torque. This can also be achieved by inserting a rod in the perforation added with this purpose to all handles functioning also as a hanging hole for handier storage.



handle: ergonomic shape
three component material

slim blade enables work in
hard to reach places.

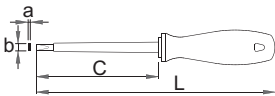


SLIM electrician´s screwdriver with insulated blade, VDE TBI

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard EN60900

Advantages:

- model with slim blade
- Although of the slim blade, screwdriver enables the same functionality and safety by working as usual insulated screwdriver.
- slim blade enables work in hard to reach places.

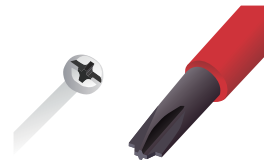


Barcode	a x b	C	L	Weight	Category
624063	0,6 x 6,5	100	185	39	4B
624064	0,8 x 4,0	100	185	43	4B
624065	1,0 x 5,5	125	225	75	4B
624066	1,2 x 6,5	150	260	113	4B

611VDETBI

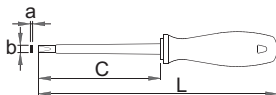
Flat-crosstip (SL/PH) SLIM screwdriver with insulated blade, VDE TBI

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard EN60900



Advantages:

- model with slim blade
- Although of the slim blade, screwdriver enables the same functionality and safety by working as usual insulated screwdriver.
- slim blade enables work in hard to reach places.



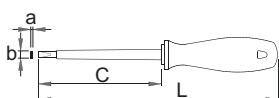
Barcode	Tip	C	L	Weight	Category
624071	SLPH 1	80	180	60	4B
624072	SLPH 2	100	210	94	4B

614VDETBI**Crosstip (PH) SLIM screwdriver with insulated blade, VDE TBI**

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2 and EN 60900

Advantages:

- model with slim blade
- Although of the slim blade, screwdriver enables the same functionality and safety by working as usual insulated screwdriver.
- slim blade enables work in hard to reach places.



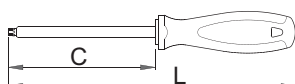
Barcode	+	C	L	Weight	Category
624067	PH 1	80	180	60	4B
624068	PH 2	100	210	94	4B

624VDETBI**Double-crosstip (PZ) SLIM screwdriver with insulated blade, VDE TBI**

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2 and EN 60900

Advantages:

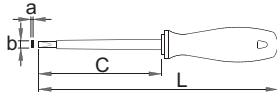
- model with slim blade
- Although of the slim blade, screwdriver enables the same functionality and safety by working as usual insulated screwdriver.
- slim blade enables work in hard to reach places.



Barcode	+	C	L	Weight	Category
624069	PZ 1	80	180	60	4B
624070	PZ 2	100	210	93	4B

Electrician's screwdriver with insulated blade, VDE

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- handle: polypropylene
- hanging hole
- made according to standard EN60900

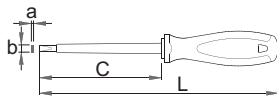


Barcode	a x b	C	L	Weight	Category
616470	0.4 x 2.5	75	160	33	4B
616471	0.5 x 3.0	100	185	37	4B
616472	0.6 x 3.5	100	185	39	4B
616473	0.8 x 4.0	100	185	43	4B
616474	1.0 x 5.5	125	225	75	4B
616475	1.2 x 6.5	150	260	113	4B
616476	1.2 x 8.0	175	295	163	4B
616477	1.6 x 10.0	200	320	115	4B

603VDETBI

Electrician's screwdriver with insulated blade, VDE TBI

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard EN60900



Barcode	a x b	C	L	Weight	Category
616436	0.4 x 2.5	75	160	33	4B
616437	0.5 x 3.0	100	185	37	4B
616438	0.6 x 3.5	100	185	39	4B
616439	0.8 x 4.0	100	185	43	4B
621247	1.0 x 4.5	125	225	75	4B
616440	1.0 x 5.5	125	225	75	4B
616441	1.2 x 6.5	150	260	113	4B
616442	1.2 x 8.0	175	295	163	4B
621248	1.6 x 10.0	200	320	115	4B

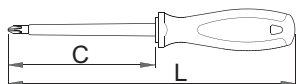


613VDETBI



Crosstip (PH) screwdriver with insulated blade, VDE TBI

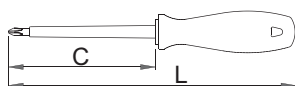
- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2 and EN 60900



Barcode	+	C	L	Weight	Box
616443	PH0	60	145	34	4B
616444	PH1	80	180	60	4B
616445	PH2	100	210	94	4B
616446	PH3	150	270	104	4B
616447	PH4	200	320	230	4B

Crosstip (PH) screwdriver with insulated blade, VDE

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- handle: polypropylene
- hanging hole
- made according to standard ISO 8764-1,2 and EN 60900

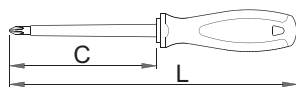


Barcode	+	C	L	Weight	Category
616478	PH0	60	145	34	4B
616479	PH1	80	165	60	4B
616480	PH2	100	200	94	4B
616481	PH3	150	260	104	4B

613VDE TBI

Crosstip (PH) screwdriver with insulated blade, VDE TBI

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2 and EN 60900



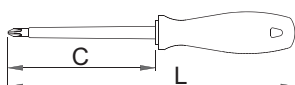
Barcode	+	C	L	Weight	Category
616443	PH0	60	145	34	4B
616444	PH1	80	180	60	4B
616445	PH2	100	210	94	4B
616446	PH3	150	270	104	4B
616447	PH4	200	320	230	4B

623VDE



Double-crosstip (PZ) screwdriver with insulated blade, VDE

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- handle: polypropylene
- hanging hole
- made according to standard ISO 8764-1,2 and EN 60900



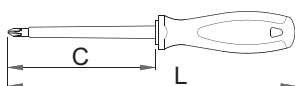
Barcode	+	C	L	Weight	Category
616482	PZ0	60	145	34	4B
616483	PZ1	80	165	60	4B
616484	PZ2	100	200	93	4B
616485	PZ3	150	260	156	4B

623VDETBI



Double-crosstip (PZ) screwdriver with insulated blade, VDE TBI

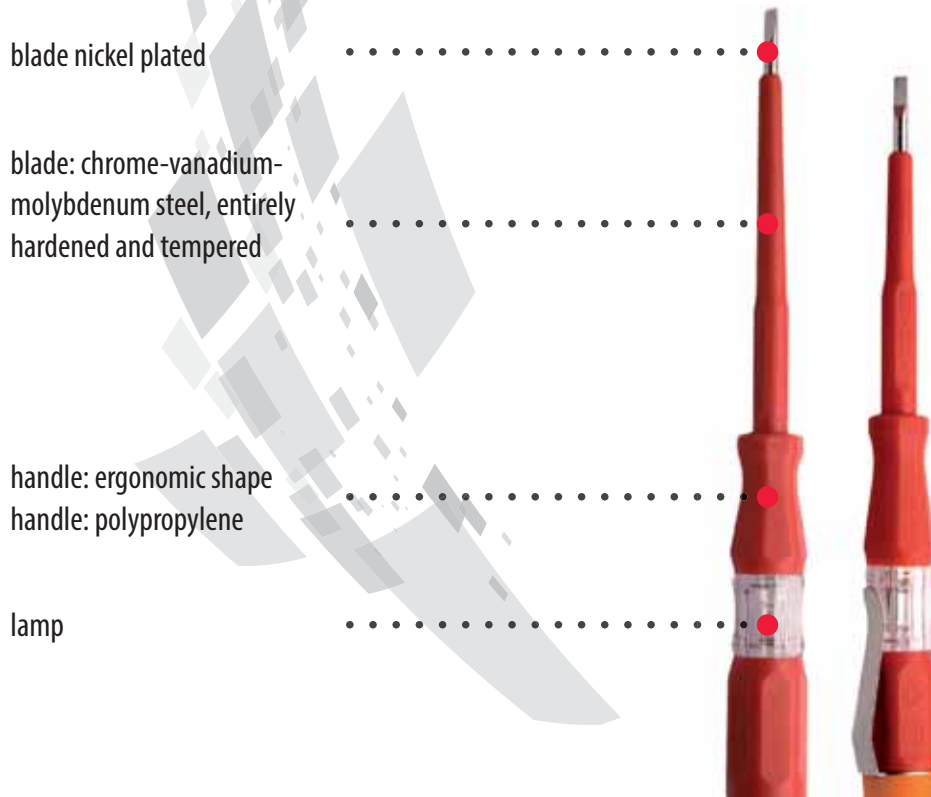
- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2 and EN 60900



Barcode	+	C	L	Weight	Category
616460	PZ0	60	145	34	4B
616461	PZ1	80	180	60	4B
616462	PZ2	100	210	93	4B
616463	PZ3	150	270	156	4B

For safe testing

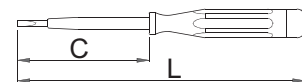
When testing voltage, the voltage tester is a simple and irreplaceable tool. It is one of the safest tests for checking voltage



630VDE

Voltage tester 220 - 250 V

• dimension 140 with clip



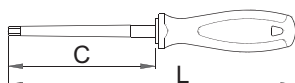
Barcode	a x b	C	L	Weight	Current
617659	0.5 x 3.0	60	140	13	4A
617660	0.6 x 3.5	90	180	24	4A

620VDETBI



Hexagon screwdriver with insulated blade VDE TBI

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard EN60900



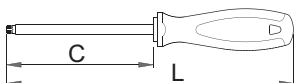
Barcode	Hex	C	L	Weight	Category
616448	2.5	75	160	34	4B
616449	3	75	175	37	4B
616450	4	75	175	68	4B
616451	5	75	185	93	4B
616452	6	100	210	128	4B
616453	8	100	210	203	4B

621VDETBI



Screwdriver with insulated blade VDE TBI with TX profile

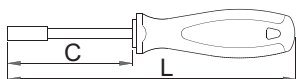
- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blacken tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard EN60900



Barcode	TX Profile	C	L	Weight	Category
616454	TX 10	60	140	35	4B
616455	TX 15	80	180	37	4B
616456	TX 20	80	180	43	4B
616457	TX 25	80	180	63	4B
616458	TX 27	100	210	76	4B
616459	TX 30	100	210	98	4B

Insulated socket wrench with VDE TBI handle

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard EN60900
- made according to standard DIN 3125



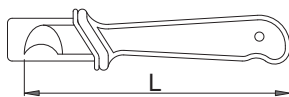
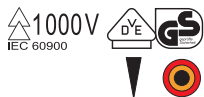
Barcode	mm	C	L	Weight	Material
616464	5.5	125	225	103	4B
616465	6	125	225	103	4B
616466	7	125	235	123	4B
621429	7/35	135	245	125	4B
616467	8	125	235	140	4B
623341	9	125	235	124	4B
616468	10	125	235	157	4B
623342	11	125	235	159	4B
616469	13	125	245	186	4B



385VDEDP

Insulated knife

- blade from high alloy steel
- double layered - double coloured insulation for additional safety
- with blade guard



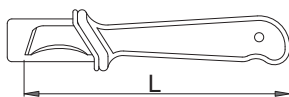
	L		
615494	180	136	1E



385BVDE

Insulated knife

- blade from high alloy steel
- plastic handle
- with blade guard
- blade with cable guard shoe

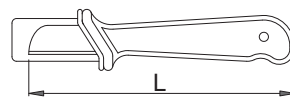


	L		
619102	180	80	4B

385AVDEDP

Insulated knife

- blade from high alloy steel
- double layered - double coloured insulation for additional safety
- with blade guard



	L		
619101	180	78	1E

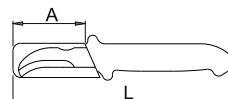
385CVDEDP

Insulated knife

- blade from high alloy steel
- handles are insulated with double layered - double coloured insulation for additional safety
- surface finish: phosphated to standard DIN 12476
- with blade guard
- blade hardened at min. 55 HRc
- rounded blade, 60mm long
- ergonomic handle, with slip guard
- handle with finger hook for good transmission of force
- Material of steel blade provides maximum sharpness and durability by dismantling of cables
- blade protected with PVC protection

Usage:

- for dismantling PVC cable insulation



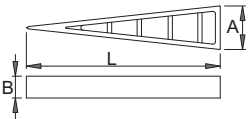
	L	A		
625610	220	60	180	1E

1350VDE

1000V
IEC 60900

Wedge

- plastic material



Barcode	L	B	A	Weight	Category
619103	165	19	35	49	1E

1340VDEDP

Straight tweezers

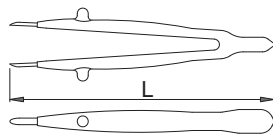
- material: stainless steel
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation enable additional safety
- controled with electrical test

Important!

- if second layer is visible, replace your VDE tool with the new one.



1000V
IEC 60900

Barcode	L	Weight	Category
616847	150	45	1E

1341VDEDP

Bent tweezers

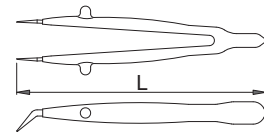
- material: stainless steel
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation enable additional safety
- controled with electrical test

Important!

- if second layer is visible, replace your VDE tool with the new one.



1000V
IEC 60900

Barcode	L	Weight	Category
616848	150	40	1E



753VDEDP

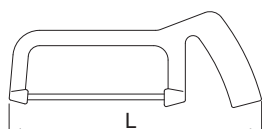


Insulated saw

- *replaceable blade*
- *made according to standard EN60900*

Advantages:

- *double layered - double coloured insulation, for additional safety*
- *if second layer is visible, replace your VDE tool with a new one.*



	L		
615502	150	276	1E

750VDEDP



Insulated saw

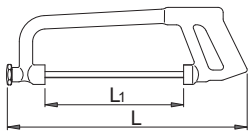
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation, for additional safety

Important!

- if second layer is visible, replace your VDE tool with a new one.



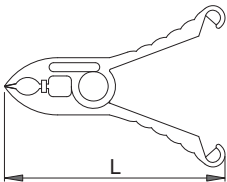
	L	L1		
619098	460	270	815	1E

1351VDE



Plastic clamp

- plastic material



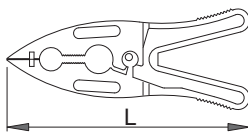
	L		
619099	160	77	1E

1352VDE



Plastic clamp

- plastic material



	L		
619100	140	54	1E

70 **Tool sets for easier choice**

SETS

The composition of various sets is based on continuous cooperation with local professional users of insulated VDE Unior tools. Sets prepared in advance follow the needs of individual activity. Special sets of VDE tools for users dealing with electrical voltage have also been produced. It is a high quality selection of inexpensive tools.

603CS6AVT

Set of screwdrivers VDE TBI



Barcode	Hand icon	Person icon	Tray icon
617653	6	457	1G
603VDE TBI (0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), 613VDE TBI (PH1 x 80, PH2 x 100)			

603CS6ATVT

Set of screwdrivers VDE TBI with voltage tester



Barcode	Hand icon	Person icon	Tray icon
617654	6	430	1G
603VDE TBI (0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), 613VDE TBI (PH1 x 80, PH2 x 100), 630VDE (0.5 x 3.0 x 140)			

603CS6VDE

Set of screwdrivers VDE



Barcode	Hand icon	Person icon	Tray icon
617044	6	485	1G
603VDE (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), 613VDE (PH1 x 80, PH2 x 100)			

603CS6TVDE

Set of screwdrivers VDE with voltage tester



Barcode	Hand icon	Weight icon	Warranty icon
617045	6	460	1G
603VDE (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), 613VDE (PH1 x 80, PH2 x 100), 630VDE (0.5 x 3.0 x 140)			

603CS6VDE TBI

Set of screwdrivers VDE TBI



Barcode	Hand icon	Weight icon	Warranty icon
617042	6	530	1G
603VDE TBI (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), 613VDE TBI (PH1 x 80, PH2 x 100)			

603CS6AVDE

Set of screwdrivers VDE



Barcode	Hand icon	Weight icon	Warranty icon
617655	6	400	1G
603VDE (0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), 613VDE (PH1 x 80, PH2 x 100)			

603CS6TVDETBI

Set of screwdrivers VDE TBI with voltage tester



617043	6	505	1G
603VDETBI (0.8x4.0x100, 1.0x5.5x125, 1.2x6.5x150), 613VDETBI (PH1 x 80, PH2 x 100), 630VDE (0.5 x 3.0 x 140)			

603CS6ATVD

Set of screwdrivers VDE with voltage tester



617656	6	390	1G
603VDE (0.5x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), 613VDE (PH1 x 80, PH2 x 100), 630VDE (0.5 x 3.0 x 140)			

603S50VDE

Set of screwdrivers VDE on display stand



617047	50	5190	1F
603VDE (5x(0.4x2.5x75), 5x(0.8x4.0x100), 5x(1.0x5.5x125), 5x(1.2x6.5x150), 5x(1.2x8.0x175)), 613VDE (5x(PH0x60), 5x(PH1x80), 5x(PH2x100)), 623VDE (5x(PZ1x80), 5x(PZ2x100)), 978VDE (330x205x240)			




603S50VDE TBI

Set of screwdrivers VDE TBI on display stand



73
SETS




Barcode	Hand icon	Info icon	Box icon
617046	50	5620	1F
 603VDE TBI (5x(0.4x2.5x75), 5x(0.8x4.0x100), 5x(1.0x5.5x125), 5x(1.2x6.5x150), 5x(1.2x8.0x175)),  613VDE TBI (5x(PH0x60), 5x(PH1x80), 5x(PH2x100)),  623VDE TBI (5x(PZ1x80), 5x(PZ2x100)), 978VDE (330x205x240)			

620CS6VDE TBI

Set of insulated hexagon screwdrivers VDE TBI




Barcode	Hand icon	Info icon	Box icon
617048	2.5 - 8 / 6	580	1G
 620VDE TBI (2.5, 3, 4, 5, 6, 8)			

621CS6VDE TBI

Set of insulated screwdrivers VDE TBI with TX profile



Barcode	Hand icon	Info icon	Box icon
617049	TX 10 - TX 30 / 6	511	1G
 621VDE TBI (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30)			

629CS6VDETBI

Set of insulated socket wrenches with VDE TBI handle



617050	5.5 - 13 / 6	865	1G
629VDETBI (5.5, 6, 7, 8, 10, 13)			



905VDEBI

Tool set VDE BI in bag.



75
SETS IN BAG



Barcode	Hand icon	Person icon	Truck icon
617571	13	1958	1T
<p> 406/1VDEBI (180), 461/1VDEBI (160), 478/1VDEBI (160), 472/1VDEBI (160), 753VDEDP (150), 385VDE (180), 603VDEBTBI (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), 613VDEBTBI (PH1 x 80, PH2 x 100), 710P (3), 630VDE (0.5 x 3.0 x 140)</p>			

906VDEBI

Tool set VDE BI in bag.



Barcode	Hand icon	Person icon	Truck icon
617573	6	911	1T
<p> 461/1VDEBI (160), 406/1VDEBI (180), 603VDEBTBI (0.4 x 2.5 x 75, 0.8 x 4.0 x 100), 613VDEBTBI (PH2 x 100), 630VDE (0.5 x 3.0 x 140)</p>			

SOS tool tray

- We can produce SOS tool trays according to your needs and wishes
- Tell us your wishes and we will prepare an offer for you
- The trays are available with a thickness of 20, 30 and 40 mm
- In a blue/black colour combination
- Your tool carriage will never be untidy again
- The drawers only contain the tools that you need.
- 100% neatly organised
- You will immediately spot if something is missing.
- Quality design guarantees long-term use
- For extra-demanding work



964VDE1

Set of insulated open end wrenches in SOS tool tray



621782	6 - 24 / 15	2500	1F
110/2VDEDP (6, 7, 8, 10, 12, 13, 14, 15, 17, 19, 20, 21, 22, 23, 24), VL964VDE1 (374 x 364 x 30)			

VL964VDE1

SOS tool tray for 964VDE1

	B	L	H		
621781	374	364	30	112	1V

964VDE2

Set of insulated offset ring wrenches in SOS tool tray



621784	10 - 24 / 11	2600	1F
180/2VDEDP (10, 11, 12, 13, 14, 15, 17, 19, 21, 22, 24), VL964VDE2 (374 x 364 x 30)			

VL964VDE2

SOS tool tray for 964VDE2

	B	L	H		
621783	374	364	30	112	1V

964VDE3

Set of insulated pliers in SOS tool tray



Barcode	Hand icon	Weight icon	Box icon
621786	12	3200	1F
<p> 406/1VDEDP (180), 420/1VDEDP (180), 447/1VDEDP (240), 461/1VDEDP (160), 466/1VDEDP (180), 472/1VDEDP (160), 476/1VDEDP (160), 478/1VDEDP (160), 506/1VDEDP (160), 508/1VDEDP (170), 512/1VDEDP (170), 580/1VDEDP (170), VL964VDE3 (564 x 364 x 30) </p>			

VL964VDE3

SOS tool tray for 964VDE3

Barcode	B	L	H	Weight icon	Box icon
621785	564	364	30	168	1V

964VDE5

Set of insulated socket wrenches 1/2" in SOS tool tray



Barcode	Hand icon	Weight icon	Box icon
621790	8 - 32 / 18	2200	1F
<p> 190/2VDEDP (8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32), VL964VDE5 (188 x 364 x 30) </p>			

VL964VDE5

SOS tool tray for 964VDE5

Barcode	B	L	H	Weight icon	Box icon
621789	188	364	30	56	1V



964VDE5A

Set of insulated accessories 1/2" in SOS tool tray



621794	4	1800	1F
190.1AVDEDP (1/2"), 190.4/2VDEDP (1/2" x 250, 1/2" x 125), 190.5/2VDEDP (250), VL964VDE5A (188 x 364 x 30)			

VL964VDE5A

SOS tool tray for 964VDE5A

	B	L	H		
621793	188	364	30	56	1V

964VDE5L

Set of long insulated socket wrenches 1/2" in SOS tool tray



621792	10 - 24 / 14	2500	1F
190/2LVDEDP (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24), VL964VDE5L (374 x 364 x 30)			

VL964VDE5L

SOS tool tray for 964VDE5L

	B	L	H		
621791	374	364	30	112	1V

964VDE6

Set of insulated hexagon T-wrenches in SOS tool tray



621796	4 - 8 / 4	645	1F
220TVDE (4, 5, 6, 8), VL964VDE6 (188 x 364 x 30)			

VL964VDE6

SOS tool tray for 964VDE6

	B	L	H		
621795	188	364	30	56	1V

964VDE7

Set of insulated hexagon wrenches SOS tool tray



621798	3 - 12 / 7	1000	1F
	220/3LVDEDP (3, 4, 5, 6, 8, 10, 12), VL964VDE7 (188 x 364 x 30)		

VL964VDE7

SOS tool tray for 964VDE7

	B	L	H		
621797	188	364	30	56	1V

964VDE8A

Set of insulated flat screwdriver VDETBI in SOS tool tray



621800	11	1300	1F
	603VDETBI (0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.6 x 3.5 x 100, 0.8 x 4.0 x 100, 1.0 x 4.5 x 125, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200), 630VDE (0.5 x 3.0 x 140, 0.6 x 3.5 x 180), VL964VDE8A (374 x 364 x 30)		

VL964VDE8A

SOS tool tray for 964VDE8A

	B	L	H		
621799	374	364	30	112	1V

964VDE8B

Set of insulated crosstip screwdriver VDETBI in SOS tool tray



621802	8	900	1F
613VDETBI (PH0x60, PH1x80, PH2x100, PH3x150), 623VDETBI (PZ0 x 60, PZ1 x 80, PZ2 x 100, PZ3 x 150), VL964VDE8B (188 x 364 x 30)			

VL964VDE8B

SOS tool tray for 964VDE8B

	B	L	H		
621801	188	364	30	56	1V

964VDE8C

Set of insulated hexagon screwdriver VDETBI in SOS tool tray



621804	2.5 - 8 / 6	671	1F
620VDETBI (2.5, 3, 4, 5, 6, 8), VL964VDE8C (188 x 364 x 30)			

VL964VDE8C

SOS tool tray for 964VDE8C

	B	L	H		
621803	188	364	30	56	1V

964VDE8D



Set of insulated screwdriver VDETBI with TX profile in SOS tool tray



621806	TX 10 - TX 30 / 6	615	1F
621VDETBI (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30), VL964VDE8D (188 x 364 x 30)			

964VDE8E



Set of insulated socket wrenches with VDETBI handle in SOS tool tray



621808	5.5 - 13 / 6	934	1F
629VDETBI (5.5, 6, 7, 8, 10, 13), VL964VDE8E (188 x 364 x 30)			

964VDE9



Set of insulated tools in SOS tool tray



621810	10	2200	1F
385VDE (180), 385AVDE (180), 385BVDE (180), 750VDEDP (460), 753VDEDP (150), 1340VDEDP (150), 1341VDEDP (150), 1350VDE (165), 1351VDE (160), 1352VDE (140), VL964VDE9 (564 x 364 x 30)			



CABLE CUTTING, STRIPPING AND CRIMPING TOOLS

Ergonomic handles

With ergonomic handles and a specially designed grip, surface Unior pliers provide maximum comfort at work and high efficiency with minimum strain.

Surface protection

The pliers are made of excellent steel with special improved composition. Several models come with additional chrome surface protection.

High precision

With their perfect design and technological superiority, Unior pliers ensure a high precision hold in any instance of general or dedicated use.



380



Wire stripper

- material: polyamide

Advantages:

- adjustable length stop of 5-12 mm
- easily accessible built-in side cutter for max. 2mm

Usage

- fully insulated automatic wire stripper for all common stranded and solid conductors of 0, 2-6mm²



610925	0.2 - 6	117	1E

385H

Cable stripper with hook knife

- material: polyamide

Advantages:

- no damage of the inner conductors can occur due to infinitely variable adjustment of the cutting depth
- the swivel blade automatically turn from circular to longitudinal cut

Usage

- accurate, fast and safe stripping of all common round cables of 4-28 mm²



610930	4 - 28	91	1E

385.1H

Blade for 385H



623377	20	1E

385G

Cable stripper with straight knife

- material: polyamide

Advantages:

- no damage of the inner conductors can occur due to infinitely variable adjustment of the cutting depth
- the swivel blade automatically turn from circular to longitudinal cut

Usage

- accurate, fast and safe stripping of all common round cables of 4-28 mm²



610931	4 - 28	92	1E

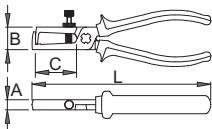
478/1BI

Wire stripping pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles

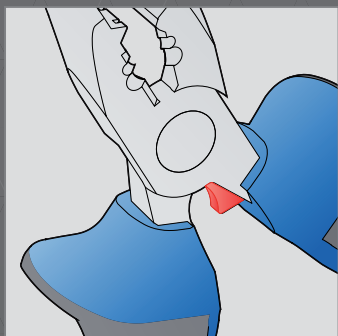
Advantages:

- spring for reopening
- stripping capacity: up to max 0.6 - 10mm²

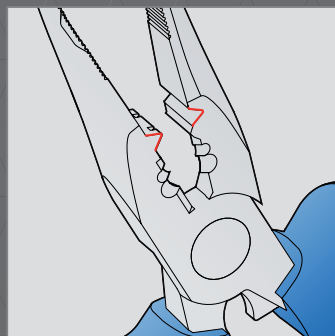


	L		B	A	C		
607882	160	0.6-10	18	9	40	178	4B

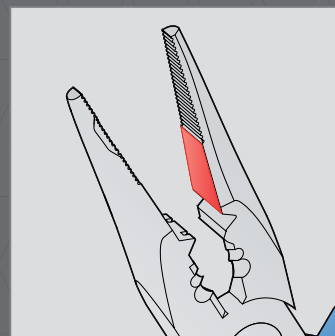
514/1BI



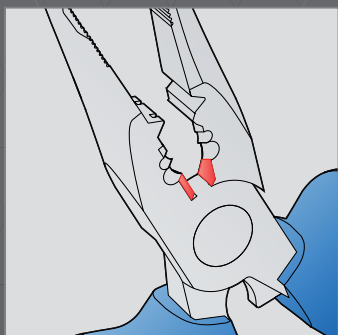
Crimping cable terminals up to \varnothing 4.0 mm.



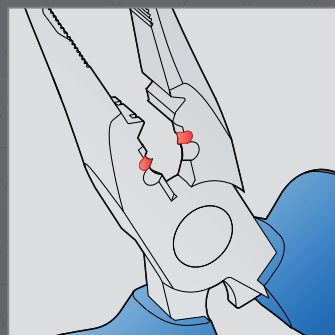
The pliers can be used for crimping insulated spade terminals.



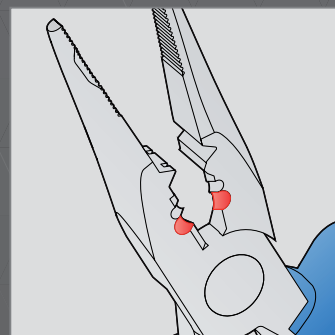
The ground part of the jaw is intended for gripping objects with sensitive surfaces.



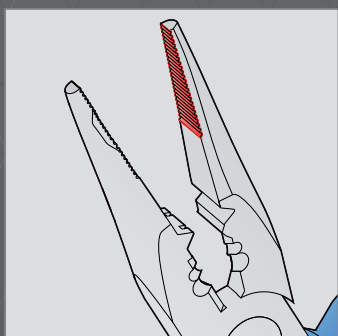
Cutting wires from \varnothing 2.2 mm to \varnothing 4.0 mm.



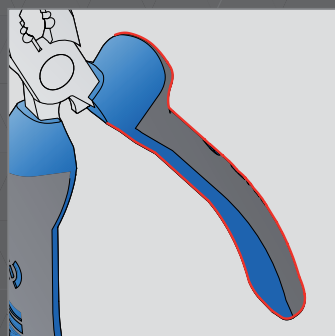
Stripping off insulations from \varnothing 2.2 mm to \varnothing 3.0 mm.



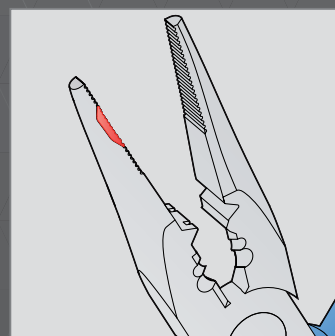
Stripping off insulations from \varnothing 3.5 mm to \varnothing 4.0 mm.



Multi-toothed jaw prevents slipping and enables a better grip of cables, wires etc.



heavy duty double - component handles



Winding hard wire and bending rings up to \varnothing 3.5 mm. Rings can be bent to the right or to the left, since the tool has appropriate teeth on both sides of the jaw.



Multifunctional electricians pliers

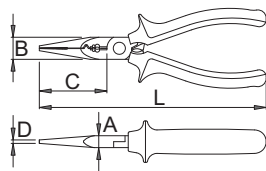
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles

Advantages:

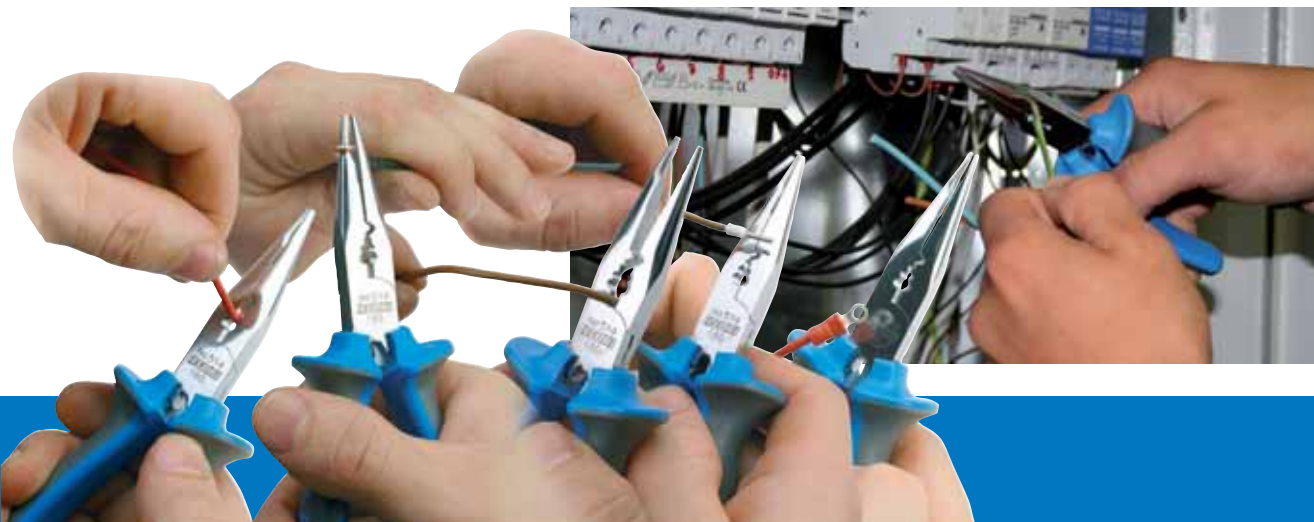
- 7 different functions
- multi-toothed jaw
- ergonomically shaped handle
- extra strong grip
- Extra strong grip - the design and shape of the handles give the hand more leverage during use, enabling more stability and safer transmission of force.
- high durability
- Multi-toothed jaw prevents slipping and enables a better grip of cables, wires etc.

Usage

- Winding hard wire and bending rings up to Ø 3.5 mm. Rings can be bent to the right or to the left, since the tool has appropriate teeth on both sides of the jaw.
- The ground part of the jaw is intended for gripping objects with sensitive surfaces.
- The pliers can be used for crimping insulated spade terminals.
- Stripping off insulations from Ø 2.2 mm to Ø 3.0 mm.
- Stripping off insulations from Ø 3.5 mm to Ø 4.0 mm.
- Cutting wires from Ø 2.2 mm to Ø 4.0 mm.
- Crimping cable terminals up to Ø 4.0 mm.



	L	B	D	A	C		
612782	160	16	2.5	9	49	141	4B
cutting capacity (10N=1kg)							
	L	max 1600 N/mm ² Ø↑		max 650 N/mm ² Ø↑			
612782	160	1,6		2,0			



427/4AG



Square crimp.



High-precision die geometry leads to a clearly defined crimp shape of the ferrule.

427/4AG

Crimp grip pliers

- material: sheet metal
- surface finish: phosphated to standard DIN 12476
- heavy duty double - component handles




Advantages:

- strong metal crimping profile with electrical plating
- reinforced connecting spring for longer usage life
- square crimping performs a better contact than traditional crimping profile

Usage

- for cord end sleeves 0,08 - 10mm²/AWG28 - 7



		
621550	433	1G

427/4CG**Crimp grip pliers**

- material: sheet metal
- surface finish: phosphated to standard DIN 12476
- heavy duty double - component handles




Advantages:

- special designed clamping jaws hold the wire securely during the stripping process

Usage

- swivel knob micro-adjusts for thinner wire to 30AWG (0.05mm²) or thicker wire to 8AWG (8mm²)
- crimp non-insulated terminals 10-22AWG (1.5 to 6.0mm²)
- crimp insulated terminals 10-22AWG (1.5 to 6.0mm²)
- crimp auto ignition terminals 7 to 8mm



		
621552	378	1G

427/4DG**Modular crimping pliers**

- material: sheet metal
- surface finish: phosphated to standard DIN 12476
- heavy duty double - component handles

Advantages:

- exact crimping process due to parallel crimping

Usage

- for crimping 6- and 8-pole Western plugs type RJ 11/12 (9.65 mm width) and type RJ 45 (11.68 mm width)
- tool for cutting and stripping unshielded ribbon telephone cables
- with additional stripping device for round cables
- with length cutter and dismantling knife for ribbon cables 6 and 12 mm width



		
621553	401	1G

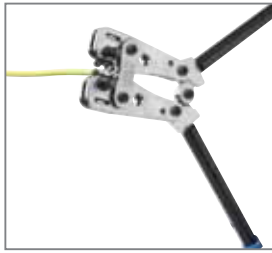
427/2FG

Crimp grip pliers

- material: sheet metal
- jaws hardened to 38-40HRC
- very easy to handle

Advantages:

- hexagon crimping
- the respective cross-section is set by rotating profile disks
- Dented 6-position rotating dies 6, 10, 16, 25, 35, 50mm²
- lever transmission permits light force transfer



621555	6 - 50	1350	1D

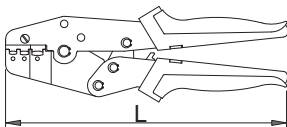
428/4

Crimp lever pliers

- material: sheet metal
- jaws drop forged from special tool steel, entirely hardened and tempered
- toggle joint ensures high compression pressure with little effort
- heavy duty plastic handles
- re-changeable head-spare part
- surface finish: phosphated to standard DIN 12476

Usage

- for insulated terminals (0,5-6mm²)






		L		
602327	0.5 - 6	240	575	1E

428.1/4

Spare parts for art. 428/4

- spare head



		
602328	161	1E

428/4AGPB

Set of grip crimp pliers with exchangeable jaws in plastic box

- material: sheet metal
- surface finish: phosphated to standard DIN 12476
- heavy duty double - component handles
- Dimension of box: 307 x 260 x 55

Advantages:

- ratchet crimp system ensures reliable work
- quick changing system for 4 different types of jaws

Usage

- for insulated terminals AWG10-12/14-16/18-22 (4-6/1.5-2.5/0.5-1.0mm²)
- for non-insulated terminals AWG14-6 (0.2-16mm²)
- for cord end terminals AWG22-6 (0.5-16mm²)
- for BNC/TNC coax connectors RG-58, RG-59/62. Hex connectors 0.255 (6.48mm²), 0.213 (5.41mm²), 0.068 (1.73mm²)



		
621557	1315	1G

428.4/4AG

Spare jaw for coax and hex connectors for 428/4AG



621958	55	1E

428.2/4AG

Spare jaw for non-insulated terminals for 428/4AG



621956	55	1E



428.1/4AG

Spare jaw for insulated terminals for 428/4AG



621955	57	1E

428.3/4AG

Spare jaw for cord end terminals for 428/4AG



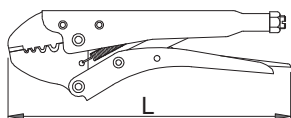
621957	74	1E

426/3A**Crimp - grip pliers**

- material: sheet metal
- tool steel jaws, oil hardened, phosphated
- handles nickel plated
- toggle joint ensures high compression pressure with little effort

Usage

- for insulated terminals (0,5-6mm²), for cutting cables and wires



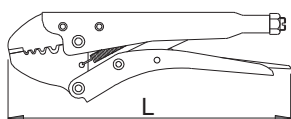
		L		
601138	0.5 - 6	220	512	1E

426/3B**Crimp - grip pliers**

- material: sheet metal
- tool steel jaws, oil hardened, phosphated
- toggle joint ensures high compression pressure with little effort
- handles nickel plated

Usage

- for non insulated terminals (0,5-10mm²), for cutting cables and wires



		L		
601139	0.5 - 10	220	484	1E



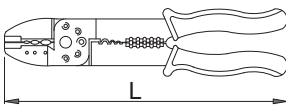
425/4A

Crimping pliers

- material: sheet metal
- entirely hardened and tempered
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles

Usage

- for insulated and closed non insulated terminals (1,5-6mm²), for cutting cables, screws and stripping insulation



		L		
601136	1.5 - 6	240	320	1E

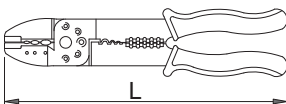
425/4B

Crimping pliers

- material: sheet metal
- entirely hardened and tempered
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles

Usage

- for insulated and non insulated open terminals (1,5-6mm²), for cutting cables, screws and stripping insulation



		L		
601137	1.5 - 6	240	320	1E

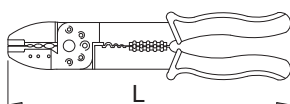
425/4AB

Crimping pliers

- material: sheet metal
- entirely hardened and tempered
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles

Usage

- for non insulated standard and closed terminals (1,5-6mm²), for cutting cables, screws and stripping insulation



		L		
605806	1.5 - 6	240	320	1E

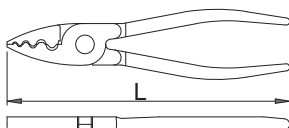
424/4P

Crimping pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped

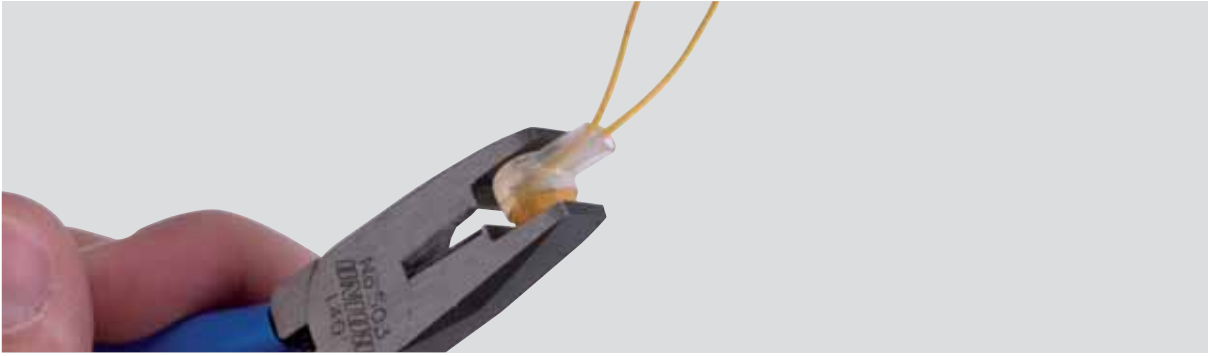
Usage

- for non insulated terminals (dim. 140 from 0,5-2,5mm², dim. 180 0,25-16mm²)



		L		
607949	0.5 - 2.5	140	144	4B
607950	0.25 - 16	180	258	4B

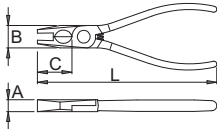




503/4P

Telephone pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped



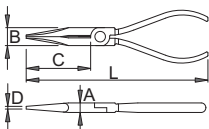
Barcode	L	B	A	C	Weight	Category
607863	140	17	9	35	99	4B

503/4AP



Telephone pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped



Barcode	L	B	D	A	C	Weight	Category
607330	160	16	0.8	9	49	104	4B



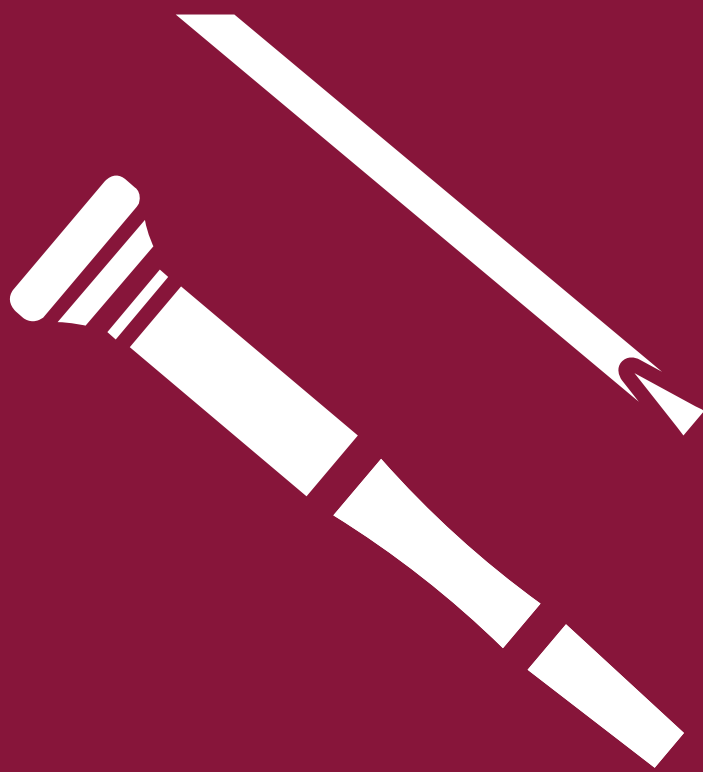
TOOLS FOR ELECTRONIC

Precision

Tools for electronic use are distinguished by precision of manufacture and excellent functionality, which guarantees a complete match with the object being worked on, even in hard to access places.

Effectiveness

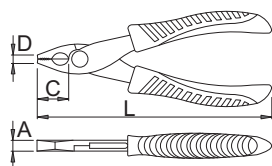
The tool provides several functions, such as cutting, removing and pressing cables, which makes work faster and without additional physical strain.



406/4E

Electronic combination pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- heavy duty double - component handles

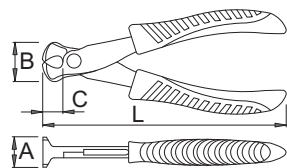


Barcode	L	B	C	A	Weight	Material
620069	120	13.6	15.8	8.2	90	4B

455/4E

Electronic pliers - front cutter

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- heavy duty double - component handles

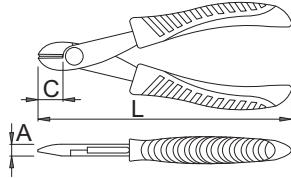


Barcode	L	B	C	A	Weight	Material
620071	110	16.6	8.1	13.2	94	4B

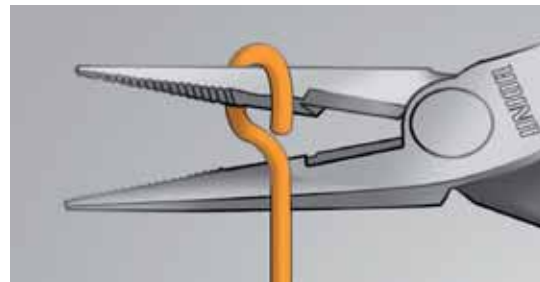
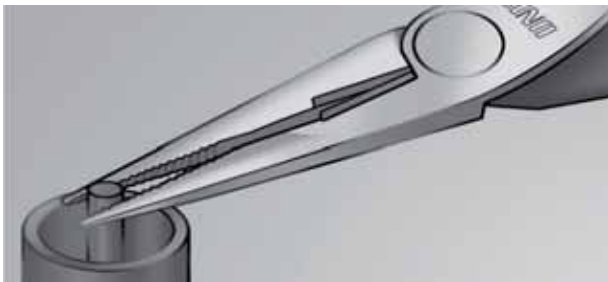
461/4E

Electronic side cutter

- material: special tool steel
- drop forged, entirely hardened and tempered
- heavy duty double - component handles



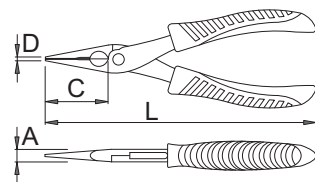
Barcode	L	B	A	C	Weight	Code
620072	115	13	8.2	13.5	95	4B



508/4E

Electronic long nose pliers, straight

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- gripping surface serrated
- heavy duty double - component handles



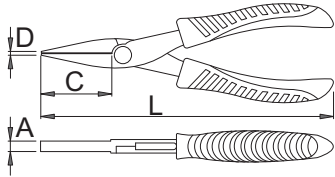
Barcode	L	B	D	A	C	Weight	Code
620074	135	12.6	3.2	2.4	32.5	90	4B

472/4E



Electronic flat nose pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- gripping surface serrated
- heavy duty double - component handles



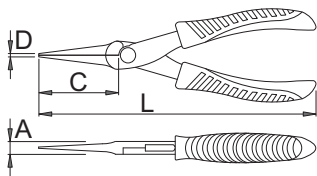
	L	C	A		
620070	135	32.5	8.2	105	4B

506/4E



Electronic long nose pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- heavy duty double - component handles

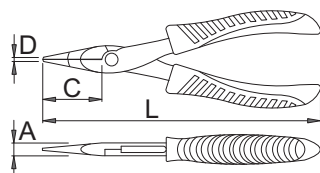


	L	B	D	A	C		
620073	140	12.6	3.2	2.4	41.8	99	4B



Electronic long nose pliers, bent

- material: special tool steel
- drop forged, entirely hardened and tempered
- heavy duty double - component handles



Barcode	L	B	D	A	Icon 1	Icon 2
620075	140	12.6	3.2	8.2	97	4B

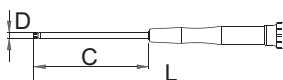


619E



Electronic Screwdriver with TS profile

- material: blade - chrome vanadium, entirely hardened and tempered
- ergonomic heavy duty double component handle
- tip coated with anticorrosion protection
- handle with rotating cap
- for pentalobe screws
- use: for newer models of apple iphones



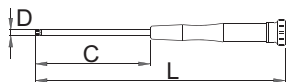
Barcode	Icon	C	L	D	Icon 1	Icon 2
623364	TS 1	60	153	2,5	13	4A

621E



Electronic screwdriver with TX profile

- material: blade - chrome vanadium, entirely hardened and tempered
- ergonomic heavy duty double component handle
- tip coated with anticorrosion protection
- handle with rotating cap



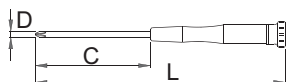
Barcode	Star	C	L	D	Person	Box
604546	TX 4	60	153	3	12	4A
604547	TX 5	60	153	3	12	4A
608310	TX 6	60	153	3	13	4A
608311	TX 7	60	153	3	14	4A
608312	TX 8	60	153	3	12	4A
608313	TX 9	60	153	3	15	4A
608314	TX 10	60	153	3	14	4A
608315	TX 15	60	153	3.5	17	4A
608316	TX 20	80	173	4	19	4A

625E



Double-crosstip (PZ) electronic screwdriver

- material: blade - chrome vanadium, entirely hardened and tempered
- ergonomic heavy duty double component handle
- tip coated with anticorrosion protection
- handle with rotating cap

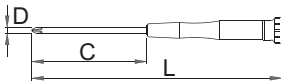


Barcode	Cross	C	L	D	Person	Box
608308	PZ 0	60	153	3	13	4A
608309	PZ 1	80	173	4.5	26	4A



Crosstip (PH) electronic screwdriver

- material: blade - chrome vanadium, entirely hardened and tempered
- ergonomic heavy duty double component handle
- tip coated with anticorrosion protection
- handle with rotating cap

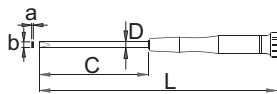


Barcode	+	C	L	D	Icon	Icon
608304	PH 000	60	153	2.5	12	4A
608305	PH 00	60	153	2.5	12	4A
608306	PH 0	60	153	3	14	4A
608307	PH 1	80	173	4.5	22	4A

605E

Flat electronic screwdriver

- material: blade - chrome vanadium, entirely hardened and tempered
- ergonomic heavy duty double component handle
- tip coated with anticorrosion protection
- handle with rotating cap



Barcode	a x b	C	L	D	Icon	Icon
608296	0.25x1.2	60	153	2.5	10	4A
608297	0.23x1.5	60	153	2.5	11	4A
608298	0.3x1.8	60	153	2.5	12	4A
608299	0.4x2.5	75	168	2.5	12	4A
608300	0.5x3.0	100	193	3	13	4A
608301	0.5x3.0	150	243	3	18	4A
608302	0.8x4.0	100	193	4	23	4A
608303	0.8x4.0	150	243	4	28	4A

403A

Set of electronic pliers in bag



620212	6	733	1E
406/4E (120), 455/4E (110), 461/4E (115), 472/4E (135), 506/4E (140), 512/4E (140)			

403C

Set of electronic pliers and screwdrivers in plastic box



• Dimension of box: 307 x 260 x 55



621692	11	975	1G
605E (0.3 x 1.8 x 60, 0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100), 615E (PH 00 x 60, PH 0 x 60, PH 1 x 80), 472/4E (135), 455/4E (110), 461/4E (115), 508/4E (135)			

403B

Set of electronic pliers in carton box

**109**
SETS

620963	3	350	1G
406/4E (120), 461/4E (115), 508/4E (135)			

**608CS5E**

Set of electronic screwdrivers in carton box



620962	5	133	1G
615E (PH 000 x 60, PH 00 x 60, PH 0 x 60, PH 1 x 80), 625E (PZ 0 x 60)			

606CS5E

Set of electronic screwdrivers in carton box



620959	5	131	1G
605E (0.23 x 1.5 x 60, 0.3 x 1.8 x 60, 0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100)			

607CS7E

Set of elektronik screwdrivers in carton box



620960	7	170	1G
605E (0.3 x 1.8 x 60, 0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100), 615E (PH 00 x 60, PH 0 x 60, PH 1 x 80)			



621CS7E



111
SETS

Set of electronic screwdrivers with TX profile in carton box



620961	TX 6 - TX 20 / 7	166	1G
621E (TX 6, TX 7, TX 8, TX 9, TX 10, TX 15, TX 20)			

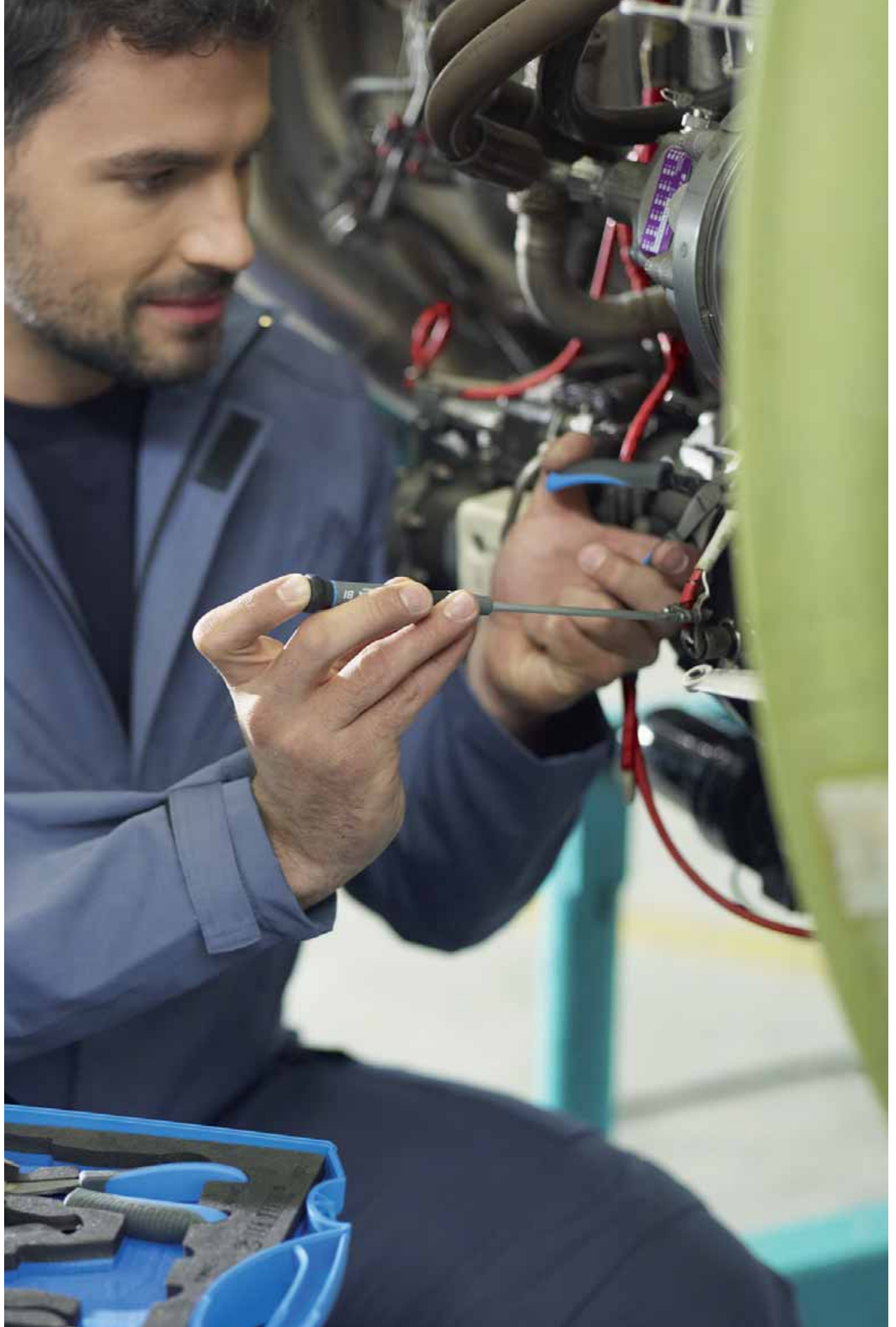
607S50E



Set of electronic screwdrivers on display stand



609953	50	1600	1F
605E (5x(0.25x1.2x60), 5x(0.23x1.5x60), 5x(0.3x1.8x60), 5x(0.4x2.5x75), 5x(0.5x3.0x100)), 615E (5x(PH000x60), 5x(PH00x60), 5x(PH1x80)), 625E (5x(PZ0x60), 5x(PZ1x80)), 978E (230x135x185)			

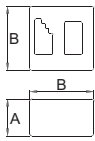




633

Magnetizer/demagnetizer

- material: ABS
- blue colour



	B	A		
612866	52	30	91	1E

6776PB21

Bits set in plastic box

- Dimension of box: 145 x 85 x 40



621650	21	240	1G
<p> 6460C6,3 (0.5 x 4.0, 1.2 x 6.5), 6466C6,3 (PZ 1, PZ 2, PZ 3), 6472C6,3 (TX 8, TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX30, TX 40), 6469C6,3 (3, 4, 5, 6), 6463C6,3 (PH 1, PH 2), 6715E6,3 (E6.3 (1/4")) </p>			

6778FBS1

Bits set



624050	11	96	1G
6460C6,3 (0.8 x 5.5, 1.2 x 6.5), 6463C6,3 (PH 1, PH 2, PH 3), 6466C6,3 (PZ1, PZ 2, PZ 3), 6715E6,3 (E6.3(1/4"))			

6778FBS2

Bits set



624051	11	96	1G
6463C6,3 (PH 1, PH 2, PH 3), 6466C6,3 (PZ 1, PZ 2, PZ 3), 6472C6,3 (TX15, TX 20, TX 25, TX 30), 6715E6,3 (E6.3(1/4"))			

6778FBS3

Bits set

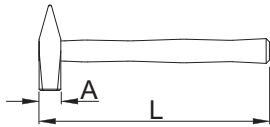


624052	11	96	1G
6463TINC6,3 (PH 1, PH 2, PH 3), 6466TINC6,3 (PZ 1, PZ 2, PZ 3), 6715E6,3 (E6.3(1/4"))			

812

Locksmiths` hammer

- material: special tool steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- ash wood handle with special oval wedge
- made according to standard DIN 1041

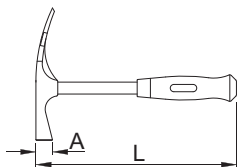


Barcode	gr	A	L	Weight	Box
601796	100	13 x 13	260	145	1C
601797	150	15 x 15	280	225	1C
601799	200	17 x 17	280	280	1C
601801	250	18 x 18	300	340	1C
601802	300	20 x 20	300	380	1C
601803	400	22 x 22	310	487	1C
601804	500	25 x 25	320	625	1C
601805	600	26 x 26	330	720	1C
601806	800	30 x 30	350	955	1C
601807	1000	33 x 33	360	1150	1C
601808	1250	34 x 34	380	1430	1C
601809	1500	37 x 37	380	1690	1C
601810	2000	41 x 41	400	2195	1C

809

Masons` hammer

- material: special tool steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- chrome plated metal tubular handle with plastic grip

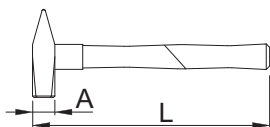


Barcode	gr	A	L	Weight	Box
601825	650	20 x 20	300	851	1C



Locksmiths` hammer

- material: special tool steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- ash wood handle with protective plastic sleeve and fitted with roll pin and oval wedge
- made according to standard DIN 1041



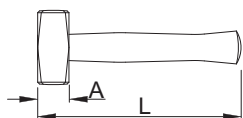
Barcode	gr	A	L	Weight	Category
602536	200	17 x 17	280	275	1C
602537	300	20 x 20	300	380	1C
602538	500	25 x 25	320	646	1C
602539	800	30 x 30	350	960	1C
603164	1000	33 x 33	360	1170	1C

817



Club hammer

- material: special tool steel
- drop forged
- striking faces induction hardened
- surface finish: lacquered
- ash wood handle with special oval wedge
- made according to standard DIN 6475

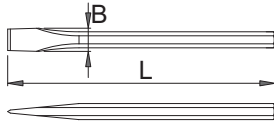


Barcode	gr	A	L	Weight	Category
601840	1000	36 x 36	260	1065	1C
601841	1250	38 x 38	260	1305	1C
601842	1500	40 x 40	280	1525	1C
601843	2000	44 x 44	300	2050	1C

665/6A

Electrician`s chisel

- material: chrome vanadium
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered

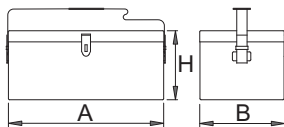


Barcode	L	Hex	B	Weight	Icon
608500	250	8	10	110	1P
608501	250	10	10	160	1P

960/6

Installers tool box

- ecological lacquered with cadmium and lead free colour
- with synthetic belt

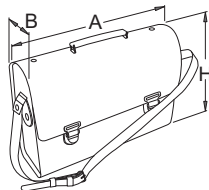


Barcode	A	B	H	Weight	Icon
603673	550	200	230	5200	1K
612989	620	200	230	4900	1K

909PES

Electrical bag

- Material: polyester
- Lock, rings, rivets, buckle, protective knob made from metal, chrome plated
- number of pocket: 28

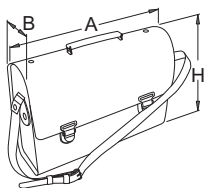


Barcode	A	B	H	Weight	Icon
624057	420	140	320	2400	1F

909

Electrical bag

- Material: artificial leather 650 g, pocket walls 450g
- Lock, rings, rivets, buckle, protective knob made from metal, chrome plated
- number of pocket: 28

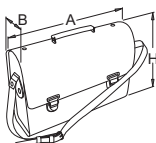


Barcode	A	B	H	Weight	Category
601939	420	140	320	2400	1F

909/1

Electrical bag

- Material: artificial leather 650 g, pocket walls 450g
- Lock, rings, rivets, buckle, protective knob made from metal, chrome plated
- number of pocket: 11

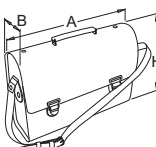


Barcode	A	B	H	Weight	Category
602552	350	110	300	1542	1F

909/1PES

Electrical bag

- Material: polyester
- Lock, rings, rivets, buckle, protective knob made from metal, chrome plated
- number of pocket: 11





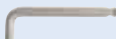




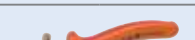











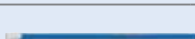







Barcode	A	B	H	Weight	Category
624058	350	110	300	1540	1F

1000T

Tool set

• Designed for basic maintenance in electro installations.

				
609330	53	9430	1K	1
	110/1 (6x7,8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x26, 25x28, 27x32)			
	220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)			
	250/1 (200)			
	406/1VDEBI (160)			
	420/1VDEBI (180)			
	447/1VDEBI (240)			
	466/1VDEBI (180)			
	478/1VDEBI (160)			
	508/1VDEBI (170)			
	512/1VDEBI (170)			
	514/1BI (160)			
	580/1VDEBI (230)			
	425/4AB (1.5 - 6 x 240)			

	603VDEBTBI (0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)
	613VDEBTBI (PH0 x 60, PH1 x 80, PH2 x 100)
	630VDE (0.5 x 3.0 x 140, 0.6 x 3.5 x 180)
	641/6 (5)
	660/6 (150)
	665/6A (250 x 10)
	710P (3)
	750 (407)
	760H1/2S (250)
	761H1/2S (250)
	812 (300)
	817 (1000)
	820 (32)







971/2VDE

Tool set VDE in tool case



1000T





			
608541	53	15800	1F
1000T, 969S (485 x 380 x 175), 969.55			

971/3VDE

Tool set in tool case



1000AD





			
612548	343	10969	1F
1000AD, 969S (485 x 380 x 175), 969.55			

971/4

Tool set in tool case



1000AC

			
604575	21	14000	1F
1000AC, 969S (485 x 380 x 175), 969.5S			

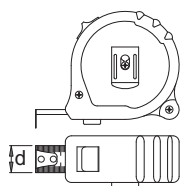







710P

Measuring tape

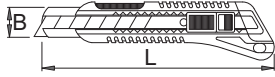
- plastic double component casing
- with stop and clip



	m	ft	d		
612131	2	0	16	113	4A
612132	3	0	16	140	4A
612133	5	0	19	230	4A
612134	8	0	25	441	4A
612135	10	0	25	470	4A
612784	2	6	16	111	4A
612785	3	10	16	140	4A
612786	5	16	19	225	4A
612787	8	26	25	431	4A
612788	10	33	25	474	4A

556A**Utility knife**

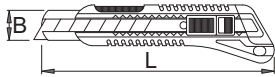
- double component handle
- 3 automatic exchangeable snap-off blades inside the handle
- blade with 13 snap-off blades
- blade from high alloy steel



Barcode	L	B	Weight	Category
616853	160	18	99	4A

556B**Utility knife**

- double component handle
- 8 automatic exchangeable snap-off blades inside the handle
- blade with 13 snap-off blades
- blade from high alloy steel



Barcode	L	B	Weight	Category
612136	160	18	167	4A

556.1B**Set of 10 spare blades for utility knife 556A and 556B**

- blade can only be moved with cutting block forward
- when the blade is blunt, it can be snapped off
- when the last blade has been used, the remnant of the blade can be removed by pushing cutting block forward
- new blade can be inserted with by pushing cutting block backwards



Barcode	L	B	Weight	Category
612137	100	18	75	1S

1342

Flat tweezers

- material: stainless steel

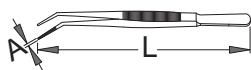


	L	A		
619280	160	2	25	4A

1343

Bent flat tweezers

- material: stainless steel



	L	A		
619281	155	2	26	4A

1344

Flat tweezers

- material: stainless steel

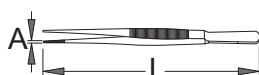


	L	A		
619282	140	1.5	18	4A

1345

Pointed tweezers

- material: stainless steel



	L	A		
619283	115	1.5	11	4A

1346**Bent pointed tweezers**

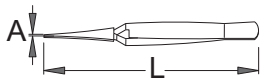
- material: stainless steel



Barcode	L	A	Icon	Icon
619284	165	2	28	4A

1347**Cross pointed tweezers**

- material: stainless steel



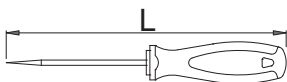
Barcode	L	A	Icon	Icon
619285	115	1.2	15	4A

1348**Spade pointed tweezers**

- material: stainless steel



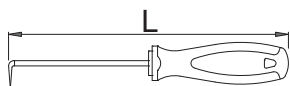
Barcode	L	A	Icon	Icon
619286	120	1	12	4A

639A**Awl with round straight blade**

Barcode	L	Icon	Icon
617773	165	31	4B

639B

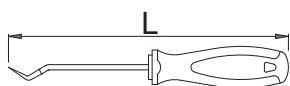
Awl with round, 90° bent blade



	L		
617774	165	31	4B

639C

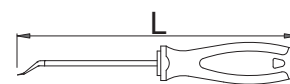
Awl with round, double bent blade



	L		
617775	165	31	4B

639D

Awl with round, double bent small blade



	L		
617776	165	31	4B

639PB

Awl set

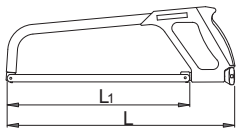


617777	4	140	1F
639A (165), 639B (165), 639C (165), 639D (165)			

750

Hacksaw frame

- light compact with ergonomically designed handle
- three blade position
- blade storage in the frame for max. 5 blades
- frame chrome plated, handle blue lacquered
- art. 750/1 with one blade

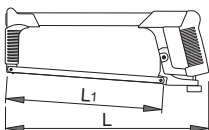


Barcode	L	L1	L1	Weight	Box
601890	407	310	12"	780	1Z

750B

Hacksaw

- light compact with ergonomically designed handle
- frame chrome plated, handle blue lacquered
- two blade position



Barcode	L	L1	Weight	Box
621531	400	300	731	1Z

750.1B

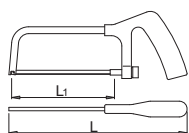
Spare blade for 750B, 2 pcs set



Barcode	Quantity	Weight	Box
621532	2	40	1P

753P**Saw**

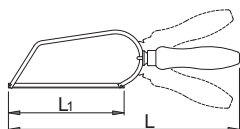
- plastic handle
- replaceable blade



	L1	L		
612164	150	260	192	1Z

753W**Saw**

- wooden handle
- adjustable handle
- replaceable blade



	L1	L		
612163	150	305	127	1Z

753.1

Spare blade for 753P, 753W and 753VDE, 2 pcs set



617281	3	1E

110/2VDEDP	Insulated single open end wrench	13
110/2VDEDP	Set of insulated open end wrenches in carton box	14
180/2AVDEDP	Insulated single ring wrench, offset 90°	16
180/2VDEDP	Insulated single offset ring wrench	14
180/2VDEDP	Set of insulated single offset ring wrench in carton box	17
190.1AVDEDP	Insulated reversible ratchet 1/2"	29
190.5/2VDEDP	Insulated offset handle 1/2"	28
190/2LVDEDP	Insulated socket 1/2", long type	27
190/2VDEDP	Insulated socket 1/2"	26
190VDE12P11L	Insulated socket set 1/2"- long type in metal box	30
190VDE6P10	Insulated socket set 1/2" in plastic box	30
190VDE6P11	Insulated socket set 1/2" in metal box	30
190VDE6P11A	Insulated socket set 1/2" in metal box	30
190VDEDP6P13B	Insulated socket set 1/2" in metal box	30
192/2HXVDEDP	Insulated hexagonal screwdriver socket 1/2"	28
196/2BVDEDP	Insulated T-handle	17
196/2LVDEDP	Insulated socket wrench with T-handle, long type	18
213/2VDEDP	Insulated four way rim wrench	19
220/3LVDEDP	Insulated hexagon wrench	20
220TVDE	Insulated hexagon T wrench	20
220TVDE4PB	Set of insulated hexagon T wrenches in plastic box	21
236/2HXVDEDP	Insulated hexagonal screwdriver socket 3/8"	22
238.1AVDEDP	Insulated reversible ratchet 3/8"	23
238.4/2VDEDP	Insulated extension bar 3/8"	24
238/2VDEDP	Insulated socket 3/8"	21
239VDEDP6P10	Insulated socket set 3/8" in plastic box	24
239VDEDP6P13	Insulated socket set 3/8" in metal box	25
250/1VDEDP	Insulated adjustable wrench	15
380	Wire stripper	86
385AVDEDP	Insulated knife	66
385BVDE	Insulated knife	66
385G	Cable stripper with straight knife	87
385H	Cable stripper with hook knife	86
385VDEDP	Insulated knife	66
385VDEDP	Insulated knife	66
403A	Set of electronic pliers in bag	108
403B	Set of electronic pliers in carton box	109
403C	Set of electronic pliers and screwdrivers in plastic box	108

406/1VDEBI	Combination pliers	31
406/1VDEDP	Combination pliers	32
406/4E	Electronic combination pliers	102
420/1VDEBI	Linemen`s pliers	33
420/1VDEDP	Linemen`s pliers	33
424/4P	Crimping pliers	98
425/4A	Crimping pliers	97
425/4AB	Crimping pliers	98
425/4B	Crimping pliers	97
426/3A	Crimp - grip pliers	96
426/3B	Crimp - grip pliers	96
427/2FG	Crimp grip pliers	92
427/4CG	Crimp grip pliers	91
427/4DG	Modular crimping pliers	91
428.1/4	Spare parts for art. 428/4	93
428.1/4AG	Spare jaw for insulated terminals for 428/4AG	95
428.2/4AG	Spare jaw for non-insulated terminals for 428/4AG	94
428.3/4AG	Spare jaw for cord end terminals for 428/4AG	95
428.4/4AG	Spare jaw for coax and hex connectors for 428/4AG	94
428/4	Crimp lever pliers	92
428/4AGPB	Set of grip crimp pliers with exchangeble jaws in plastic box	93
447/1VDEBI	Insulated waterpump box joint pliers	34
447/1VDEDP	Waterpump box joint pliers	35
455/4E	Electronic pliers - front cutter	102
461/1VDEBI	Diagonal cutting nippers	36
461/1VDEDP	Diagonal cutting nippers	37
461/4E	Electronic side cutter	103
462/1VDEBI	Multifunctional diagonal cutting nippers	38
462/1VDEDP	Multifunctional diagonal cutting nippers	39
466/1VDEBI	Heavy duty diagonal cutting nippers	40
466/1VDEDP	Heavy duty diagonal cutting nippers	41
472/1VDEBI	Long flat nose pliers	42
472/1VDEDP	Long flat nose pliers	43
472/4E	Electronic flat nose pliers	104
476/1VDEBI	Long round nose pliers	44
476/1VDEDP	Long round nose pliers	45
478/1BI	Wire stripping pliers	87
478/1VDEBI	Wire stripping pliers	52

478/1VDEDP	Wire stripping pliers	53
503/4AP	Telephone pliers	99
503/4P	Telephone pliers	99
506/1VDEBI	Long nose pliers with side cutter	46
506/1VDEDP	Long nose pliers with side cutter	47
506/4E	Electronic long nose pliers	104
508/1VDEBI	Long nose pliers with side cutter and pipe grip, straight	48
508/1VDEDP	Long nose pliers with side cutter and pipe grip, straight	49
508/4E	Electronic long nose pliers, straight	103
512/1VDEBI	Long nose pliers with side cutter and pipe grip, bent	50
512/1VDEDP	Long nose pliers with side cutter and pipe grip, bent	51
512/4E	Electronic long nose pliers, bent	105
514/1BI	Multifunctional electricians pliers	89
556.1B	Set of 10 spare blades for utility knife 556A and 556B	124
556A	Utility knife	124
556B	Utility knife	124
580/1VDEBI	Cable shears	54
580/1VDEDP	Cable shears	55
603CS6ATVD	Set of screwdrivers VDE with voltage tester	72
603CS6ATVT	Set of screwdrivers VDE TBI with voltage tester	70
603CS6AVDE	Set of screwdrivers VDE	71
603CS6AVT	Set of screwdrivers VDE TBI	70
603CS6TVDE	Set of screwdrivers VDE with voltage tester	71
603CS6TVDETBI	Set of screwdrivers VDE TBI with voltage tester	72
603CS6VDE	Set of screwdrivers VDE	70
603CS6VDETBI	Set of screwdrivers VDE TBI	71
603S50VDE	Set of screwdrivers VDE on display stand	72
603S50VDETBI	Set of screwdrivers VDE TBI on display stand	73
603VDE	Electrician´s screwdriver with insulated blade, VDE	59
603VDETBI	Electrician´s screwdriver with insulated blade, VDE TBI	59
604VDETBI	SLIM electrician´s screwdriver with insulated blade, VDE TBI	57
605E	Flat electronic screwdriver	107
606CS5E	Set of electronic screwdrivers in carton box	110
607CS7E	Set of elektronik screwdrivers in carton box	110
607S50E	Set of electronic screwdrivers on display stand	111
608CS5E	Set of electronic screwdrivers in carton box	109
611VDETBI	Flat-crosstip (SL/PH) SLIM screwdriver with insulated blade, VDE TBI	57

613VDE	Crosstip (PH) screwdriver with insulated blade, VDE	61
613VDE TBI	Crosstip (PH) screwdriver with insulated blade, VDE TBI	60
613VDE TBI	Crosstip (PH) screwdriver with insulated blade, VDE TBI	61
614VDE TBI	Crosstip (PH) SLIM screwdriver with insulated blade, VDE TBI	58
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620VDE TBI	Hexagon screwdriver with insulated blade VDE TBI	64
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