



Insulated tools



Cable cutting, stripping and crimping tools



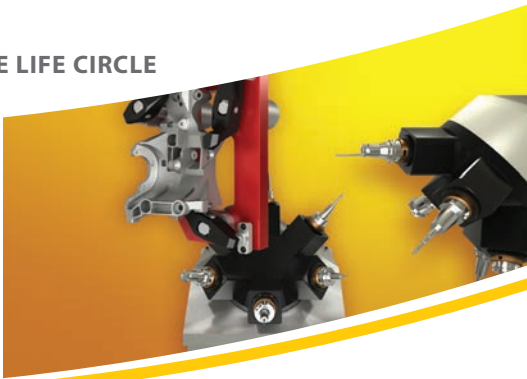
Tools for electronic use



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.



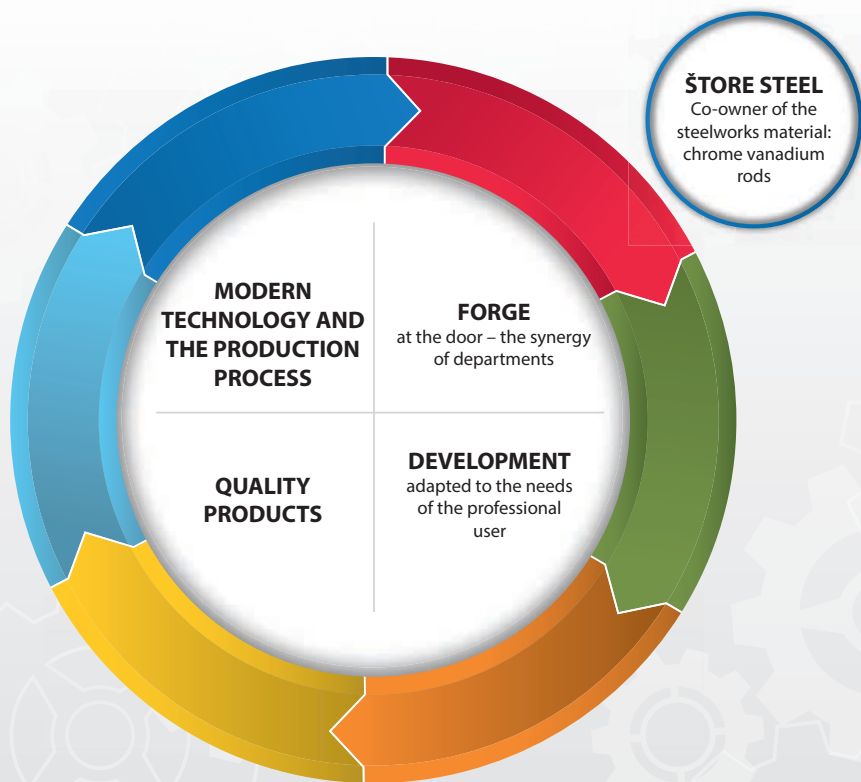
TOURISM

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.

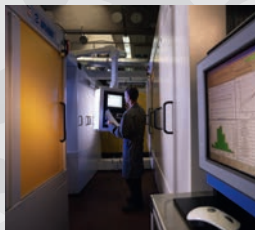
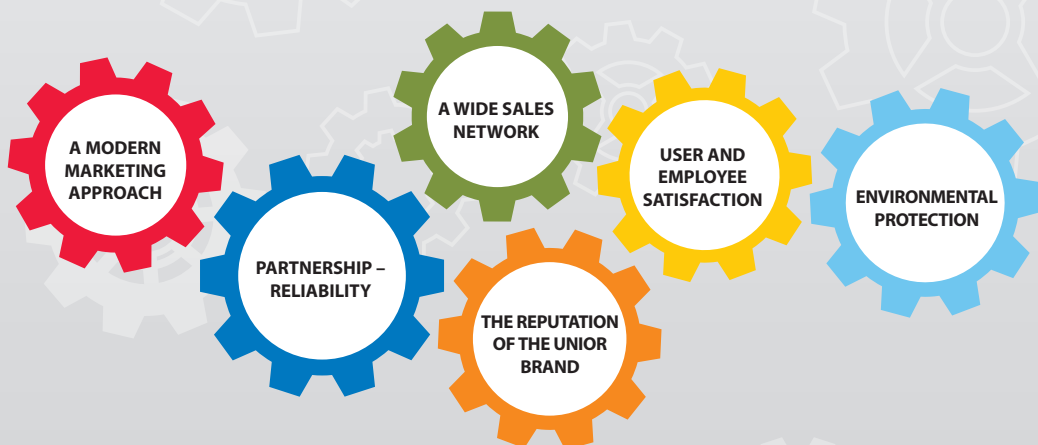
www.rogla.eu | www.terme-zrece.eu

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.



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.



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



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 Zreče (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.



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



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 Zreče spa commenced and with it, the Tourism Programme.



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 Zreče. 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 employers and 32 group companies around the world.



2016



VDE Prüf- und Zertifizierung

ZEICHENGENEHMIGUNG MARKS APPROVAL

Unior d.d.
Kovaska cesta 10
3214 ZRECE
SLOWENIEN

Ist berechtigt, für ihr Produkt /
is authorized to use for their product
Zange, isoliert
Pliers, insulated

VDE Prüf- und Zertifizierungsinstitut

ZEICHENGENEHMIGUNG MARKS APPROVAL

Unior d.d.
Kovaska cesta 10
3214 ZRECE
SLOWENIEN

Ist berechtigt, für ihr Produkt /
is authorized to use for their product
Isoliertes Steckschlüssel
Insulated wrench

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen
the legally protected Marks as shown below for the types referred to on page 2 ff.



Geprüft und zertifiziert nach /
Tested and certified according to

DIN EN 60900 (VDE 0682-201; 2013-04; EN 60900-2012)

Das Produkt entspricht den Anforderungen des deutschen Produktsicherheitsgesetzes (ProdSG)
hinsichtlich der Gewährleistung von Sicherheit und Gesundheit.
The product covers the requirements of the German Act "Produktsicherheitsgesetz (ProdSG)"
regarding the assurance of safety and health.

VDE

VDE Prüf- und Zertifizierungsinstitut

ZEICHENGENEHMIGUNG MARKS APPROVAL

Unior d.d.
Kovaska cesta 10
3214 ZRECE
SLOWENIEN

Ist berechtigt, für ihr Produkt /
is authorized to use for their product
Steckschlüssel mit festem T-Griff
Tee handle socket wrench, single end

die hier abgebildeten markenrechtlich geschützten Zeichen
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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

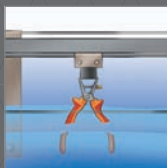
VDE insulated and tested according to the VDE regulations, Unior tools for work in electrically live environments meet the requirements of the internationally acknowledged European EN 60900 standard.





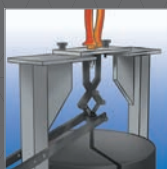
FLAME RETARDANCY TEST

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 $\pm$ 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 $\pm$ 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 - 20°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.



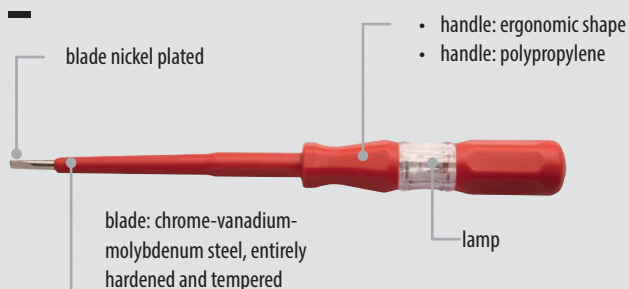
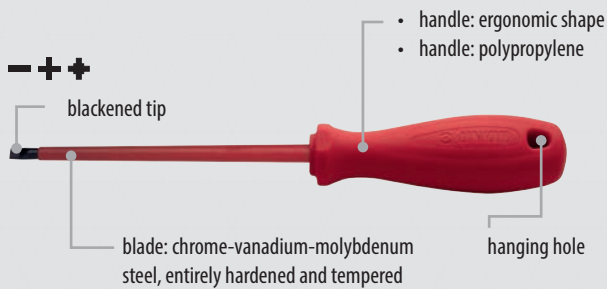
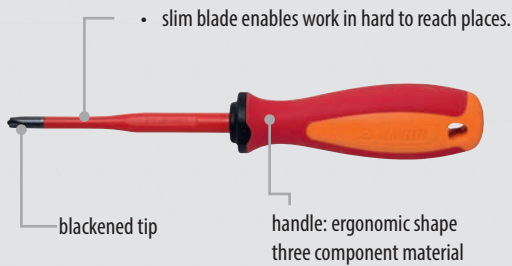
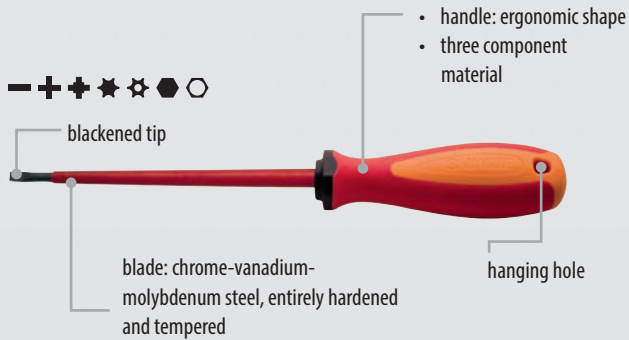
Safe tool



Worn out tool
– immediate
replacement



Features of Unior's screwdrivers

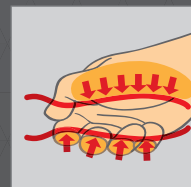
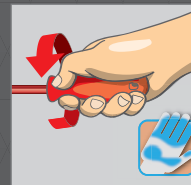


ERGONOMIC HANDLE!

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

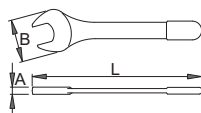
- material: chrome vanadium
- head: chrome plated according to EN12540
- made according to standard EN60900

Advantages:

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

Important!

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



		L	B	A			
618370	6	72	16	6.9	19	1E	10
618331	7	82	16.1	6.9	26	1E	10
617801	8	95	21	7	30	1E	10
621575	9	100	24.5	7.5	35	1E	10
612175	10	105	24.5	7.5	42	1E	10
612176	11	112	26	7.5	51	1E	10
612177	12	125	28	8	65	1E	10
612178	13	132	30.5	8.5	76	1E	10
612179	14	140	33	8.5	84	1E	10
612180	15	150	35	9	96	1E	10
621576	16	154	40	10	118	1E	10
612181	17	157	40	10	137	1E	10
621577	18	165	44	11	151	1E	10
612182	19	170	44	11	170	1E	10
618333	20	175	46.4	12.2	184	1E	10
619201	21	180	48.8	12.5	213	1E	10
612183	22	195	49	13	234	1E	5
618335	23	210	52.8	13.1	251	1E	5
612184	24	220	56	14	311	1E	5
621578	26	235	59	15	361	1E	5
617802	27	240	59	15	387	1E	5
621579	28	245	66	15.8	440	1E	5
618336	30	260	66.1	15.8	518	1E	5
618337	32	275	71.4	17.6	620	1E	5

110/2VDEDP

Set of insulated open end wrenches in carton box



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

180/2VDEDP

Insulated single offset ring wrench

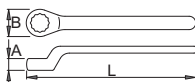
- material: chrome vanadium
- head: chrome plated according to EN12540
- made according to standard EN60900

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	10
621581	7	155	15	9	57	1E	10
621582	8	160	16.5	9.5	62	1E	10
621583	9	160	17.5	10	72	1E	10
621815	10	162	19.5	11	81	1E	10
621816	11	175	20	11.5	97	1E	10
621817	12	185	21.5	11.5	112	1E	10
621818	13	185	23	12.5	113	1E	10
621819	14	190	25.5	13	136	1E	10
621910	15	195	27	13.5	146	1E	10
621584	16	190	27.5	14.5	175	1E	10
621911	17	208	30.5	15.5	185	1E	10
621585	18	195	30	15.5	210	1E	10
621912	19	227	33	15.5	233	1E	10
621586	20	245	34.5	16.2	273	1E	5

		L	B	A			
619202	21	244	36.4	13.2	307	1E	5
612193	22	250	37.5	17.5	300	1E	5
621587	23	250	39.8	16.8	333	1E	5
612194	24	255	42	18.5	428	1E	5
621588	26	265	44	18	450	1E	5
621589	27	270	44.8	18	411	1E	5
621590	28	280	36.5	18.5	488	1E	5
621591	30	310	47	19	574	1E	5
621592	32	325	51.5	19.5	647	1E	5



250/1VDEDP



Insulated adjustable wrench

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

Advantages:

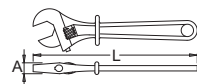
- double layered - double coloured insulation for additional safety
- controlled with electrical test
- with scale

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.



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



180/2AVDEDP

Insulated single ring wrench, offset 90°

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

Advantages:

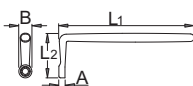
- double layered - double coloured insulation for additional safety
- controled with electrical test

Important!

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

Usage

- For holding the nuts while screwing.



Barcode	Symbol	L1	L2	B	A	Weight	Insulation	Length
619123	10	220	78	18.2	10	151	1E	10
619124	12	220	78	21.2	10	172	1E	10
619125	13	220	78	23.3	11	156	1E	10
619126	14	230	85	24.4	11.6	206	1E	10
619127	17	255	100	29.3	13.8	306	1E	10
619128	19	255	103	30.6	13	276	1E	10
619129	20	267	107	33.3	16	344	1E	10
619130	22	265	115	35.8	16	326	1E	5
619131	24	265	115	38.8	16.9	412	1E	5

180/2VDEDP

Set of insulated single offset ring wrench in carton box



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

196/2BVDEDP**Insulated T-handle**

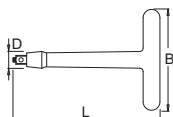
- material: chrome vanadium
- entirely hardened and tempered
- head: chrome plated according to EN12540
- made according to standard EN60900

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	10
619117	1/2"	210	24	145	456	1E	10

196/2LVDEDP

**Insulated socket wrench with T-handle, long type**

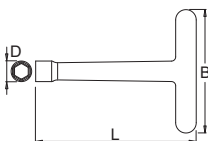
- material: chrome vanadium
- entirely hardened and tempered
- head: chrome plated according to EN12540
- made according to standard EN60900

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.



		L	B	D			
619143	10	300	160	20	439	1E	10
619150	11	300	160	21	460	1E	10
619151	12	300	160	24	495	1E	10
619152	13	300	160	24	492	1E	10
619153	14	300	160	27	422	1E	10
619154	17	300	160	30	640	1E	10
619155	19	300	160	32	757	1E	10
619156	20	300	160	34	737	1E	5
619157	21	300	160	34	772	1E	5
619158	22	300	160	34	806	1E	5
619159	23	300	160	45	780	1E	5
619160	24	300	160	45	875	1E	5

Insulated four way rim wrench

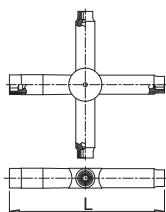
- head: chrome plated according to EN12540
- made according to standard EN60900

Advantages:

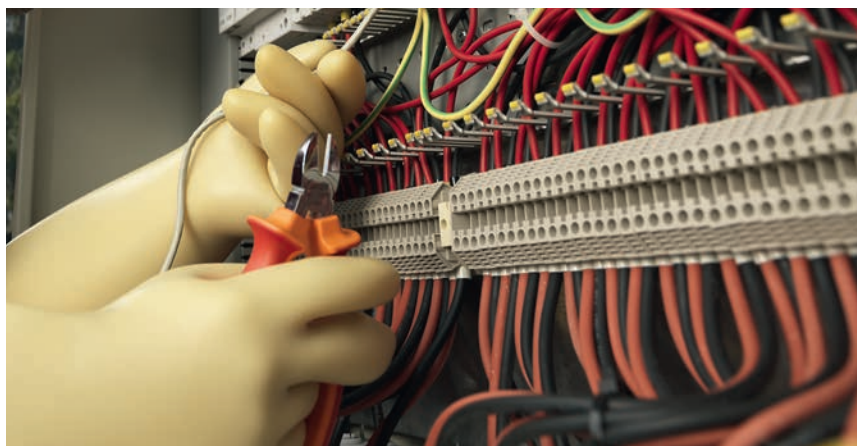
- double layered - double coloured insulation for additional safety
- controlled with electrical test

Important!

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



					L			
619093	10	11	14	17	207	450	1E	5
619094	11	12	13	17	207	450	1E	5
619095	10	13	14	17	207	450	1E	5
619096	11	13	14	17	207	450	1E	5
619097	13	17	19	22	207	450	1E	5



220/3LVDEDP**Insulated hexagon wrench**

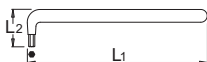
- material: chrome vanadium
- entirely hardened and tempered
- made according to standard EN60900

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.



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

220TVDE**Insulated hexagon T wrench**

- controled with electrical test
- made according to standard EN60900



		L	B			
619132	4	200	69	98	1E	10
619133	5	203	69	105	1E	10
619134	6	207	98	126	1E	10
619135	8	209	99	145	1E	10

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"

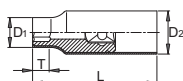
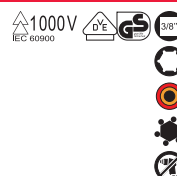
- material: chrome vanadium
- drop forged, entirely hardened and tempered
- head: chrome plated according to EN12540
- made according to standard EN60900

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

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"

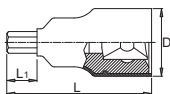
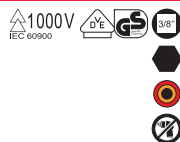
- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered
- made according to standard EN60900

Advantages:

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

Important!

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



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

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"



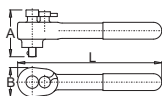
- material: special tool steel
- Lever for changing the direction
- made according to standard EN60900

Advantages:

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

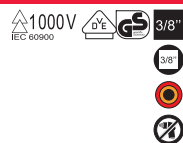
Important!

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



619118	3/8"	L	B	A	375	1E	1
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238.4/2VDEDP



Insulated extension bar 3/8"

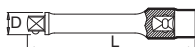
- material: chrome vanadium
- drop forged, entirely hardened and tempered
- head: chrome plated according to EN12540
- made according to standard EN60900

Advantages:

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

Important!

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



Barcode	Color	Material	L	D	Weight	Box	Box Dimensions
619169	3/8"	125	144	17	151	4B	10
619170	3/8"	250	268	17	281	4B	10

239VDEDP6P10



Insulated socket set 3/8" in plastic box

- Dimension of box: 244 x 207 x 59



Barcode	Material	Weight	Box	Box Dimensions
621647	10	1420	1G	1

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

1000V
IEC 60900



25
SOCKETS 3/8"



619419	13	3165	1G	1
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)				



A

190/2VDEDP



Insulated socket 1/2"

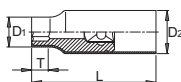
- material: chrome vanadium
- drop forged, entirely hardened and tempered
- head: chrome plated according to EN12540
- made according to standard EN60900

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.



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

190/2LVDEDP

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:

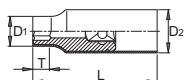
- double layered - double coloured insulation for additional safety
- controlled with electrical test

Important!

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



27 SOCKETS 1/2"



		L	D1	D2	T			
619104	10	96	20.7	27	27	116	4B	5
619105	11	96	21.6	27	27	116	4B	5
619106	12	96	22.6	27	27	123	4B	5
619107	13	96	23.3	27	27	127	4B	5
619108	14	96	25.8	27	35	134	4B	5
619109	15	96	26.8	27	35	132	4B	5
619110	16	96	27.4	27	35	143	4B	5
619111	17	96	30	27	35	151	4B	5
619112	18	96	31.7	27	35	174	4B	5
619113	19	96	32	27	35	170	4B	5
619114	20	96	33.4	27	35	200	4B	5
619115	21	96	33	27	35	188	4B	5
621604	22	96	33.6	29.6	35	213	4B	1
621605	24	96	35.6	31.6	35	238	4B	1

192/2HXVDEDP

Insulated hexagonal screwdriver socket 1/2"

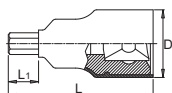
- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered

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	L	L1	D	Weight	Material	Insulation
615173	4	76	18	27	76	4B	10
615174	5	76	18	27	73	4B	10
615175	6	76	18	27	80	4B	10
615176	8	76	18	27	96	4B	10
615177	10	76	18	27	110	4B	10

190.5/2VDEDP

Insulated offset handle 1/2"

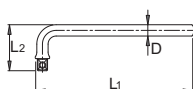
- material: chrome vanadium
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to EN12540
- made according to standard EN60900

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	Material	Insulation
615178	250	72	408	1E	10

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"

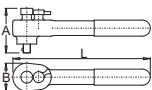
- material: chrome vanadium
- Lever for changing the direction
- made according to standard EN60900

Advantages:

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

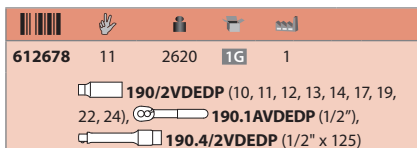
Important!

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

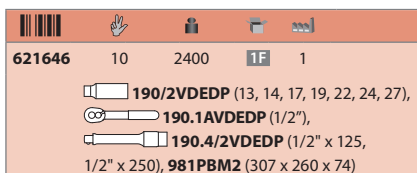


		L	B	A			
619119	1/2"	245	50	80	667	1E	1

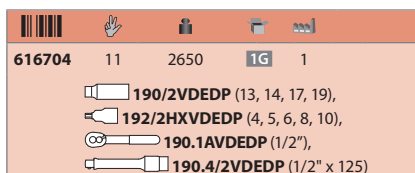
- *Dimension of box: 321 x 198 x 54*



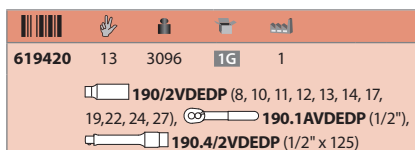
- Dimension of box: 307 x 260 x 70



- *Dimension of box: 448 x 198 x 54*

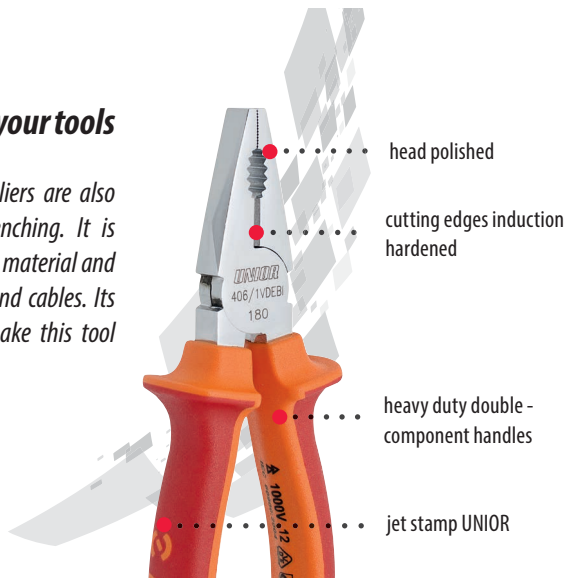


- *Dimension of box: 321 x 198 x 54*



When you can rely on your tools

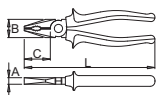
Due to universal use, these pliers are also intended for cutting and clenching. It is possible to clench flat or round material and to cut softer and hard wires and cables. Its strong and durable blades make this tool one you can rely on.



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



	L	B	C	A			
610421	160	24	35	9.5	224	4B	1
610422	180	27	38	10	274	4B	1
610423	200	29	41	10.5	344	4B	1
610424	220	32	47	11	424	4B	1
cutting capacity (10N=1kg)							
	L	max 1600 N/mm ² ØT		max 650 N/mm ² ØT			
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

1000V
IEC 60900

Combination pliers

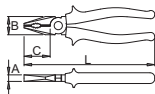
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- made according to standard ISO 5746 and EN 60900

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	Material	Material
619177	140	23	32	8	157	4B	1
619178	160	24	35	9.5	219	4B	1
619179	180	27	38	10	269	4B	1
619180	200	29	41	10.5	321	4B	1
619181	220	32	47	11	376	4B	1

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² Ø	max 650 N/mm ² Ø
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

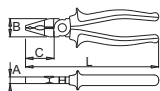


420/1VDEBI



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



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

420/1VDEDP



Linemen's pliers

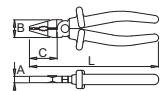
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- made according to standard EN 60900

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.



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

34 One-handed use

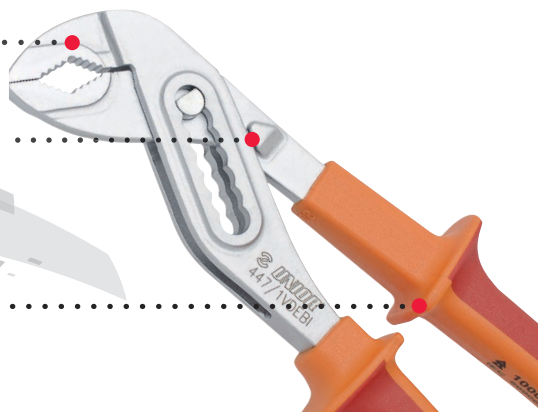
WATERPUMP PLIERS

With the universal pliers VDE you will be able to achieve an optimal transmission to the working platform without great effort. When clamping 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

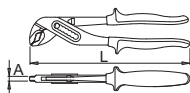


Insulated waterpump box joint pliers

- 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

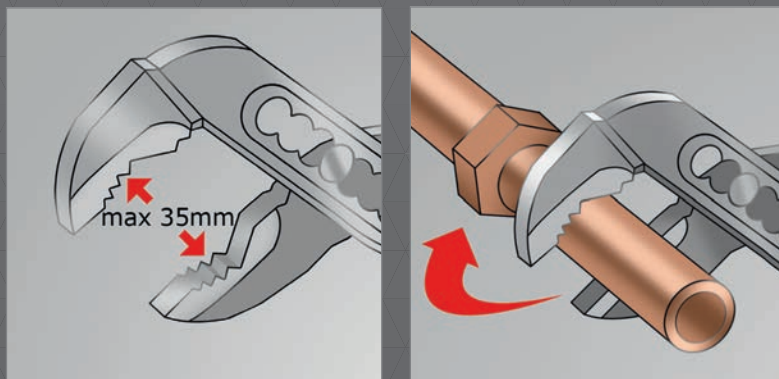
Advantages:

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



611993	L	A	U	I	F	M
240	6.5	35	367	4B	1	

FEATURES OF 447/1VDEBI, 447/1VDEDP



447/1VDEDP

Waterpump box joint pliers



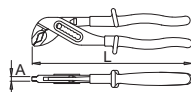
- material: chrome vanadium
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- surface finish: chrome plated to standard EN12540
- made according to standard ISO 8976 and EN 60900

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.

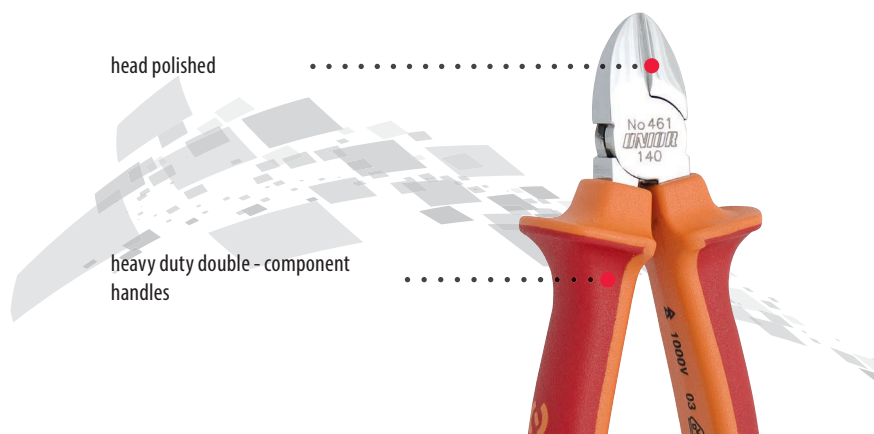


	L	A				
619199	240	6.5	35	382	4B	1

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.

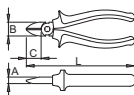


461/1VDEBI



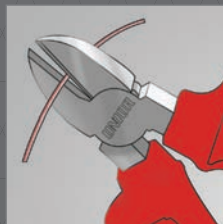
Diagonal cutting nippers

- 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	1
610427	160	22.5	10	22	214	4B	1
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

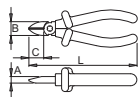
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- made according to standard ISO 5749 and EN 60900

Advantages:

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

Important!

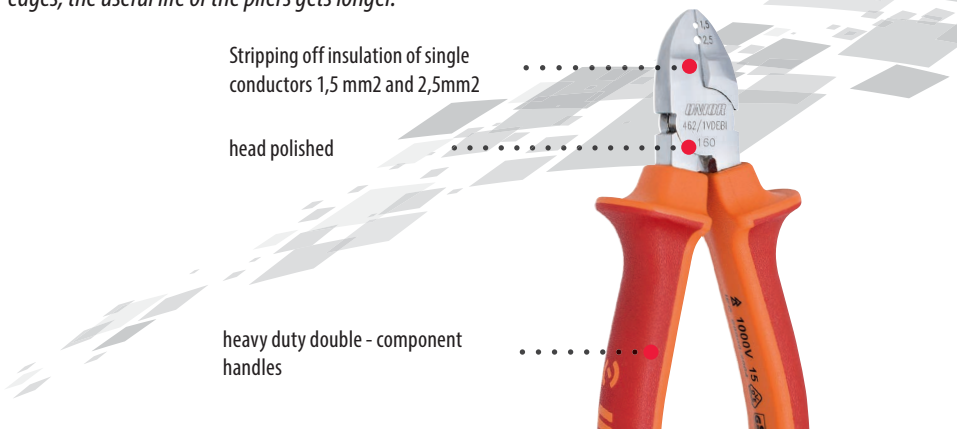
- if second layer is visible, replace your VDE tool with a new one.



	L	B	A	C	Wt	Cl	Wt
619193	140	19	9.5	18	174	4B	1
619194	160	22.5	10	22	224	4B	1
cutting capacity (10N=1kg)							
	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

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



	L	B	A	C			
624060	160	22,5	10	22	214	4B	10
cutting capacity (10N=1kg)							
	L	max 1600 N/mm² ØT			max 650 N/mm² 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!

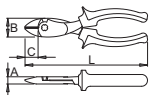
- if second layer is visible, replace your VDE tool with a new one.



	L	B	A	C			
624061	160	22,5	10	22	224	4B	10
cutting capacity (10N=1kg)							
	L	max 1600 N/mm ² ØT			max 650 N/mm ² ØT		
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	1
611756	200	27	11	21	344	4B	1
cutting capacity (10N=1kg)							
	L	max 2150 N/mm ² ØT		max 650 N/mm ² ØT			
610428	180	1,8		3,0			
611756	200	2,0		3,5			

Heavy duty diagonal cutting nippers

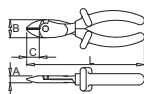
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- made according to standard ISO 5749 and EN 60900

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.



	L	B	A	C			
619195	180	28	11	20	303	4B	1
619196	200	27	11	21	351	4B	1

cutting capacity (10N=1kg)

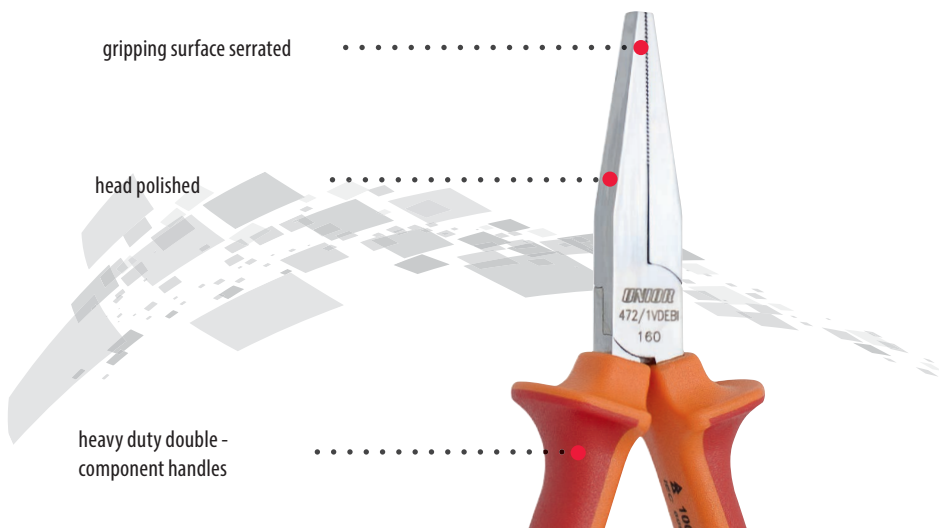
	L	max 2150 N/mm ² ØT	max 650 N/mm ² ØT
619195	180	1,8	3,0
619196	200	2,0	3,5



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.

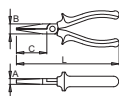


472/1VDEBI



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



	L	B	C	A			
610430	160	16	49	9	146	4B	1



472/1VDEDP



Long flat nose pliers

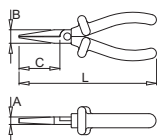
- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- made according to standard ISO 5745 and EN 60900

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.

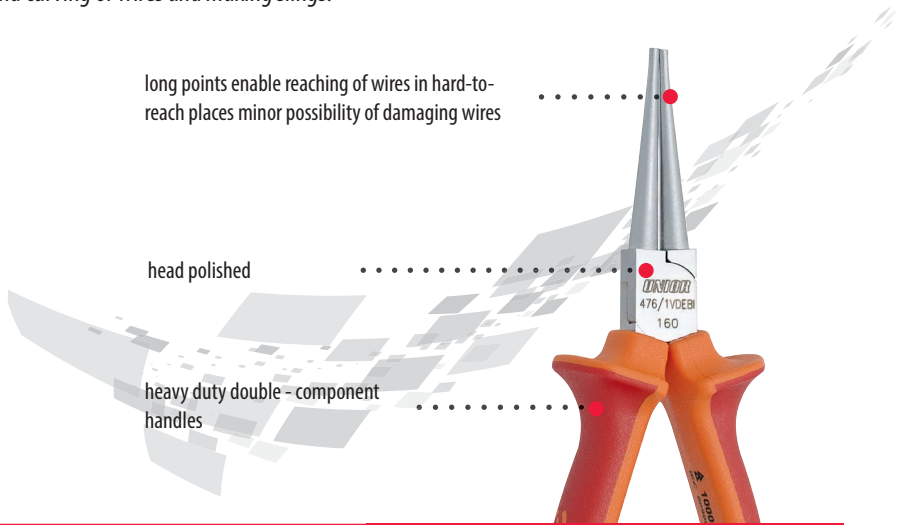


	L	B	C	A			
619182	140	15	39	8	114	4B	1
619183	160	16	49	9	153	4B	1

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.



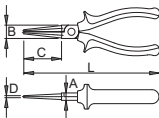
476/1VDEBI

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



	L	B	A	C	D			
610431	140	15	9	39	2	116	4B	1
610432	160	16	10	49	2.5	126	4B	1



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

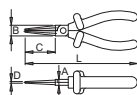


Advantages:

- 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.



	L	B	A	C	D			
619184	140	15	9	39	2	114	4B	1
619185	160	16	10	49	2.5	139	4B	1

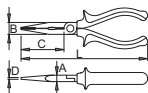
gripping surface serrated

cutting edges induction
hardenedheavy duty double - component
handles**506/1VDEBI**1000V
IEC 60900**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



	L	B	D	A	C			
610434	140	15	2	8	39	115	4B	1
610435	160	16	2.5	9	49	137	4B	1
cutting capacity (10N=1kg)								
	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

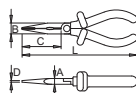


Advantages:

- 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.



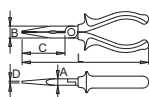
	L	B	D	A	C			
619187	140	15	8	8	39	125	4B	1
619188	160	16	2.5	9	49	157	4B	1
cutting capacity (10N=1kg)								
	L	max 1600 N/mm ² ØT				max 650 N/mm ² ØT		
619187	140	1,6				2,0		
619188	160	1,6				2,0		

**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



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

Long nose pliers with side cutter and pipe grip, straight

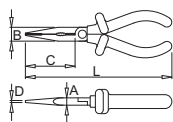
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- made according to standard ISO 5745 and EN 60900

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.



	L	B	D	A	C			
619189	170	17	2.5	9	61	162	4B	1
619190	200	17	2.5	9	77	201	4B	1
cutting capacity (10N=1kg)								
	L	max 1600 N/mm ² Ø1				max 650 N/mm ² Ø1		
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.

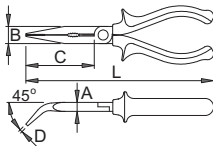
512/1VDEBI

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



	L	B	D	A	C			
610438	170	17	2.5	9	61	152	48	1
610439	200	17	2.5	9	77	204	48	1
cutting capacity (10N=1kg)								
	L	max 1600 N/mm² Ø			max 650 N/mm² 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

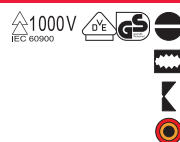
handles are insulated with double layered
- double coloured insulation for additional
safety



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

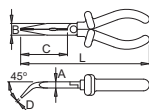


Advantages:

- 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.



	L	B	D	A	C			
619191	170	17	2.5	9	61	156	4B	1
619192	200	17	2.5	9	77	201	4B	1
cutting capacity (10N=1kg)								
	L	max 1600 N/mm ² Ø1				max 650 N/mm ² Ø1		
619191	170	1,6				2,0		
619192	200	1,8				2,5		

52 Perfect grip of your hands

STRIPPERS

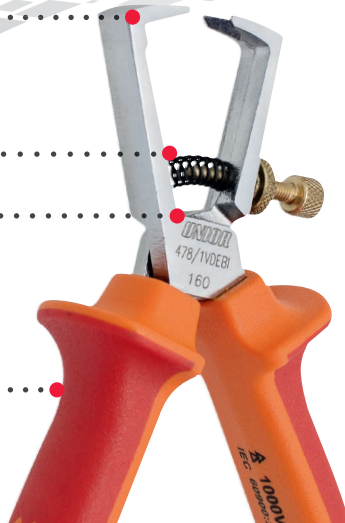
In collaboration with our users and various professionals from hand tools, a certain number of analyses and tests of pliers were carried out. The result is a comfortable use, perfect grip and reduced pressure on the hand itself.

stripping capacity: up to max 0.6 - 10mm²

spring for reopening

head polished

heavy duty double - component handles

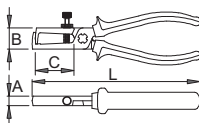


478/1VDEBI



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



610433	L		B	A	C			
610433	160	0.6-10	18	9	40	178	4B	1

**478/1VDEDP****Wire stripping pliers**

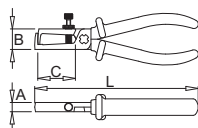
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- stripping capacity: up to max 0.6 - 10mm²
- made according to standard EN 60900

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	1

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

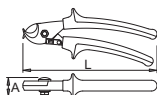
580/1VDEBI

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	Price	Material	Quantity
610440	170	18	10	339	4B	1
610441	230	22	17	444	4B	1





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

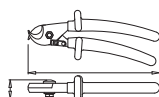


Advantages:

- 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



	L	A				
619197	170	18	10	226	4B	1
619198	230	22	17	409	4B	1

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

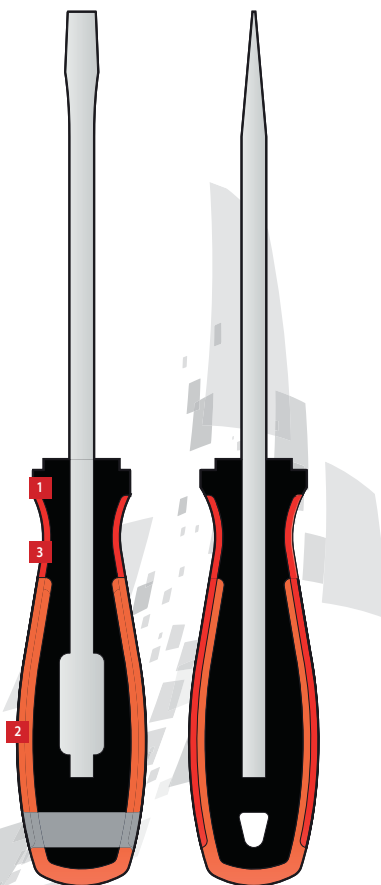
1. layer: black PP (polypropylene) which surrounds the stem of the screwdriver and is extremely solid, preventing the turning of the screwdriver stem in the handle at high torque
2. layer: orange PP (polypropylene) which surrounds the 1st layer of the handle is very stiff and ensures the constant shape 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.

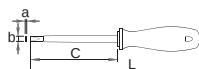


604VDETBI**SLIM electrician's screwdriver with insulated blade, VDE TBI**

- 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.



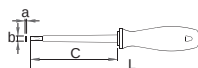
	a x b	C	L			
624063	0,6 x 6,5	100	185	39	4B	10
624064	0,8 x 4,0	100	185	43	4B	10
624065	1,0 x 5,5	125	225	75	4B	10
624066	1,2 x 6,5	150	260	113	4B	5

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.



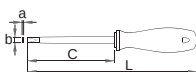
	+	C	L			
624071	SLPH 1	80	180	60	4B	10
624072	SLPH 2	100	210	94	4B	10

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.



		C	L			
624067	PH 1	80	180	60	4B	10
624068	PH 2	100	210	94	4B	10

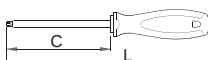
624VDE TBI

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:

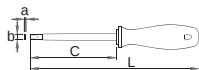
- model with slim blade
- Although of the slim blade, screwdriver enables the same functionality and safety by working as usual insulated screwdriver.
- slim blade enables work in hard to reach places.



		C	L			
624069	PZ 1	80	180	60	4B	10
624070	PZ 2	100	210	93	4B	10

603VDE**Electrician's screwdriver with insulated blade, VDE**

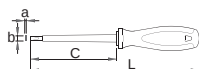
- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- handle: polypropylene
- hanging hole
- made according to standard EN60900



	a x b	C	L			
616470	0.4 x 2.5	75	160	33	4B	10
616471	0.5 x 3.0	100	185	37	4B	10
616472	0.6 x 3.5	100	185	39	4B	10
616473	0.8 x 4.0	100	185	43	4B	10
616474	1.0 x 5.5	125	225	75	4B	10
616475	1.2 x 6.5	150	260	113	4B	10
616476	1.2 x 8.0	175	295	163	4B	5
616477	1.6 x 10.0	200	320	115	4B	5

603VDE TBI**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



	a x b	C	L			
616436	0.4 x 2.5	75	160	33	4B	10
616437	0.5 x 3.0	100	185	37	4B	10
616438	0.6 x 3.5	100	185	39	4B	10
616439	0.8 x 4.0	100	185	43	4B	10
621247	1.0 x 4.5	125	225	75	4B	10
616440	1.0 x 5.5	125	225	75	4B	10
616441	1.2 x 6.5	150	260	113	4B	10
616442	1.2 x 8.0	175	295	163	4B	5
621248	1.6 x 10.0	200	320	115	4B	5

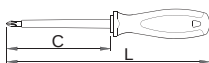


613VDETBI



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	Price	Material
616443	PH0	60	145	34	4B	10
616444	PH1	80	180	60	4B	10
616445	PH2	100	210	94	4B	10
616446	PH3	150	270	104	4B	5
616447	PH4	200	320	230	4B	5

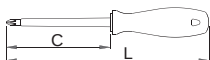
613VDE



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

61
CROSSTIP SCREWDRIVERS PH



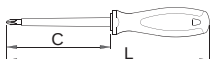
	+	C	L			
616478	PH0	60	145	34	4B	10
616479	PH1	80	165	60	4B	10
616480	PH2	100	200	94	4B	10
616481	PH3	150	260	104	4B	5

613VDETBI



Crosstip (PH) screwdriver with insulated blade, VDE TBI

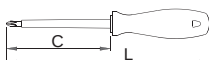
- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2 and EN 60900



	+	C	L			
616443	PH0	60	145	34	4B	10
616444	PH1	80	180	60	4B	10
616445	PH2	100	210	94	4B	10
616446	PH3	150	270	104	4B	5
616447	PH4	200	320	230	4B	5

623VDE**Double-crosstip (PZ) screwdriver with insulated blade, VDE**

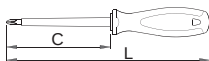
- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- handle: polypropylene
- hanging hole
- made according to standard ISO 8764-1,2 and EN 60900



		C	L			
616482	PZ0	60	145	34	4B	10
616483	PZ1	80	165	60	4B	10
616484	PZ2	100	200	93	4B	10
616485	PZ3	150	260	156	4B	5

623VDE TBI**Double-crosstip (PZ) screwdriver with insulated blade, VDE TBI**

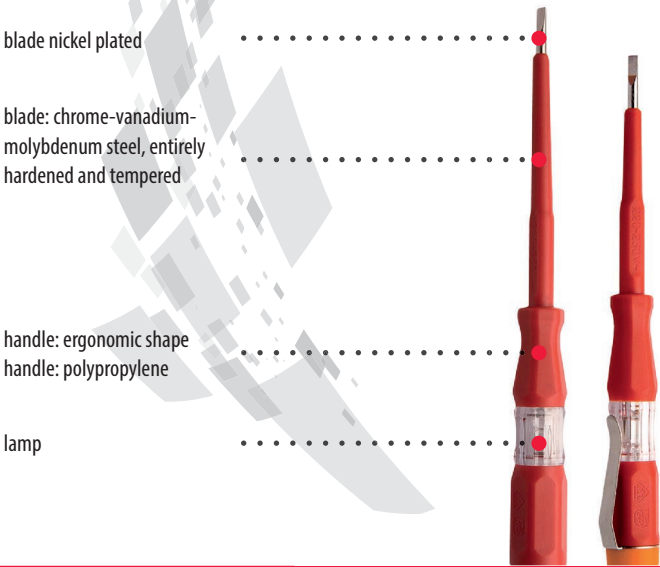
- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2 and EN 60900



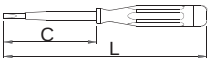
		C	L			
616460	PZ0	60	145	34	4B	10
616461	PZ1	80	180	60	4B	10
616462	PZ2	100	210	93	4B	10
616463	PZ3	150	270	156	4B	5

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



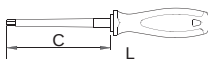
630VDE
Voltage tester 220 - 250 V
• dimension 140 with clip



	a x b	C	L			
617659	0.5 x 3.0	60	140	13	4A	10
617660	0.6 x 3.5	90	180	24	4A	10

620VDE TBI**Hexagon screwdriver with insulated blade VDE TBI**

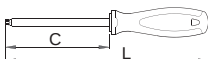
- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard EN60900



		C	L			
616448	2.5	75	160	34	4B	10
616449	3	75	175	37	4B	10
616450	4	75	175	68	4B	10
616451	5	75	185	93	4B	10
616452	6	100	210	128	4B	10
616453	8	100	210	203	4B	5

621VDE TBI**Screwdriver with insulated blade VDE TBI with TX profile**

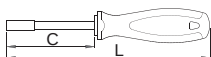
- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blacken tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard EN60900



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

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

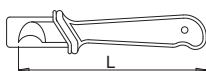


		C	L			
616464	5.5	125	225	103	4B	10
616465	6	125	225	103	4B	10
616466	7	125	235	123	4B	5
621429	7/35	135	245	125	4B	5
616467	8	125	235	140	4B	5
623341	9	125	235	124	4B	5
616468	10	125	235	157	4B	5
623342	11	125	235	159	4B	5
616469	13	125	245	186	4B	5



385VDE**Insulated knife**

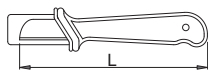
- blade from high alloy steel
- plastic handle
- with blade guard



Barcode	L	Weight	Material	Accessories
615494	180	76	4B	10

**385AVDE****Insulated knife**

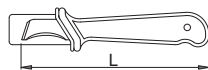
- blade from high alloy steel
- plastic handle
- with blade guard



Barcode	L	Weight	Material	Accessories
619101	180	78	4B	10

385BVDE**Insulated knife**

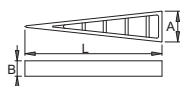
- blade from high alloy steel
- plastic handle
- with blade guard
- blade with cable guard shoe



Barcode	L	Weight	Material	Accessories
619102	180	80	4B	10

1350VDE**Wedge**

- plastic material

	L	B	A			
619103	165	19	35	49	1E	10

1340VDEDP**Straight tweezers**

- material: stainless steel
- made according to standard EN60900

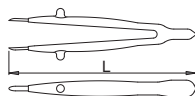
Advantages:

- 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.





	L			
616847	150	45	1E	1

1341VDEDP**Bent tweezers**

- material: stainless steel
- made according to standard EN60900

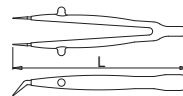
Advantages:

- 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.





	L			
616848	150	40	1E	1

**753VDEDP**

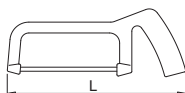
1000V
IEC 60900

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	1

750VDEDP



Insulated saw

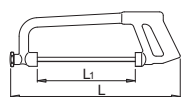
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation, for additional safety

Important!

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



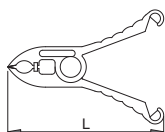
	L	L1			
619098	460	270	815	1E	1

1351VDE



Plastic clamp

- plastic material



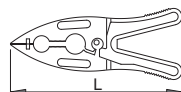
	L			
619099	160	77	1E	10

1352VDE



Plastic clamp

- plastic material



	L			
619100	140	54	1E	10

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	Weight	Material	Quantity
617653	6	457	1G	1
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	Weight	Material	Quantity
617654	6	430	1G	1
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	Weight	Material	Quantity
617044	6	485	1G	1
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



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SETS



Barcode	Hand	Weight	Material	Quantity
617045	6	460	1G	1
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)				

603CS6VDETB1

Set of screwdrivers VDE TB1



Barcode	Hand	Weight	Material	Quantity
617042	6	530	1G	1
603VDETB1 (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), 613VDETB1 (PH1 x 80, PH2 x 100)				

603CS6AVDE

Set of screwdrivers VDE



Barcode	Hand	Weight	Material	Quantity
617655	6	400	1G	1
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)				

603CS6TVDETB1

Set of screwdrivers VDE TBI with voltage tester



Barcode	Hand	Weight	Material	Quantity
617043	6	505	1G	1
603VDETB1 (0.8x4.0x100, 1.0x5.5x125, 1.2x6.5x150), 613VDETB1 (PH1 x 80, PH2 x 100), 630VDE (0.5 x 3.0 x 140)				

603CS6ATVD

Set of screwdrivers VDE with voltage tester



Barcode	Hand	Weight	Material	Quantity
617656	6	390	1G	1
603VDE (0.5x3.0x100, 0.8x4.0x100, 1.0x5.5x125), 613VDE (PH1 x 80, PH2 x 100), 630VDE (0.5 x 3.0 x 140)				

603S50VDE

Set of screwdrivers VDE on display stand



Barcode	Hand	Weight	Material	Quantity
617047	50	5190	1F	1
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	Weight icon	Storage icon	Material icon
617046	50	5620	1F	1
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	Weight icon	Storage icon	Material icon
617048	2.5 - 8 / 6	580	1G	1
620VDE TBI (2.5, 3, 4, 5, 6, 8)				

621CS6VDE TBI

Set of insulated screwdrivers VDE TBI with TX profile



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

629CS6VDETB1

Set of insulated socket wrenches with VDE TBI handle



617050	5.5 - 13 / 6	865	1G	1
629VDETB1 (5.5, 6, 7, 8, 10, 13)				



905VDEBI

Tool set VDE BI in bag.



75
SETS IN BAG



Barcode	Hand	Weight	Material	Quantity
617571	13	1958	1T	1
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)				

906VDEBI

Tool set VDE BI in bag.



Barcode	Hand	Weight	Material	Quantity
617573	6	911	1T	1
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)				



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 2, 3 and 4 cm
- 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



77
SETS IN SOS



Barcode	Hand	Weight	Material	Quantity
621782	6 - 24 / 15	2500	1F	1
🔧 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

Barcode	B	L	H	Weight	Material	Quantity
621781	374	364	30	112	1V	1

964VDE2

Set of insulated offset ring wrenches in SOS tool tray



Barcode	Hand	Weight	Material	Quantity
621784	10 - 24 / 11	2600	1F	1
🔧 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

Barcode	B	L	H	Weight	Material	Quantity
621783	374	364	30	112	1V	1

964VDE3

Set of insulated pliers in SOS tool tray



Barcode	Hand icon	Weight icon	Storage icon	Wrench icon
621786	12	3200	1F	1
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)				

VL964VDE3

SOS tool tray for 964VDE3

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

964VDE5

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



Barcode	Hand icon	Weight icon	Storage icon	Wrench icon
621790	8 - 32 / 18	2200	1F	1
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)				

VL964VDE5

SOS tool tray for 964VDE5

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

964VDE4

Set of insulated torque wrenches and T-wrenches in SOS tool tray



79
SETS IN SOS



621788		5	5400	1F	1
196/2BVDEDP (3/8", 1/2"), 264VDEDP (5 - 50, 20 - 100, 40 - 220), VL964VDE4 (566 x 364 x 30)					

VL964VDE4

SOS tool tray for 964VDE4

		B	L	H			
621787		566	364	30	168	1V	1

964VDE5A

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



621794		4	1800	1F	1
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	1

964VDE5L

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



621792	10 - 24 / 14	2500	1F	1
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	1

964VDE6

Set of insulated hexagon T-wrenches in SOS tool tray



621796	4 - 8 / 4	645	1F	1
220TVDE (4, 5, 6, 8), vVL964VDE6 (188 x 364 x 30)				

VL964VDE6

SOS tool tray for 964VDE6

	B	L	H			
621795	188	364	30	56	1V	1

964VDE7

Set of insulated hexagon wrenches SOS tool tray



81
SETS IN SOS



621798	3 - 12 / 7	1000	1F	1
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	1

964VDE8A

Set of insulated flat screwdriver VDETBI in SOS tool tray



621800	11	1300	1F	1
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	1

964VDE8B

Set of insulated crosstip screwdriver VDETBI in SOS tool tray



621802	8	900	1F	1
613VDETBI (PH0 x 60, PH1 x 80, PH2 x 100, PH3 x 150), 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	1

964VDE8C

Set of insulated hexagon screwdriver VDETBI in SOS tool tray



621804	2.5 - 8 / 6	671	1F	1
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	1

964VDE8D

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



621806	TX 10 - TX 30 / 6	615	1F	1
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	1
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	1
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	10

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	10

385.1H**Blade for 385H**

623377	20	1E	10

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



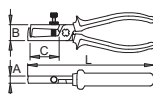
610931	4 - 28	92	1E	10

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

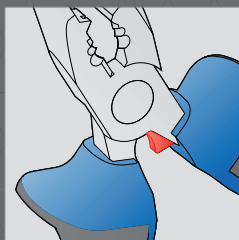
Advantages:

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

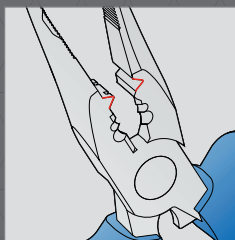


	L		B	A	C			
607882	160	0.6-10	18	9	40	178	4B	10

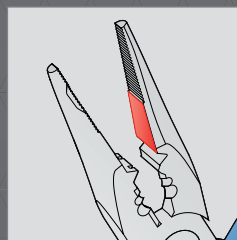
514/1BI



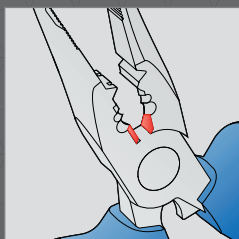
Crimping cable terminals up to Ø 4.0 mm.



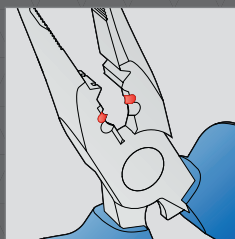
The pliers can be used for crimping insulated spade terminals.



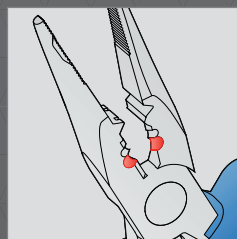
The ground part of the jaw is intended for gripping objects with sensitive surfaces.



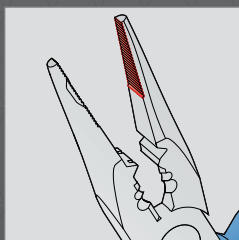
Cutting wires from Ø 2.2 mm to Ø 4.0 mm.



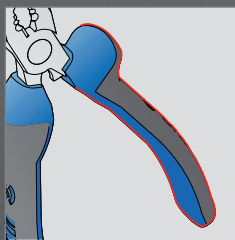
Stripping off insulations from Ø 2.2 mm to Ø 3.0 mm.



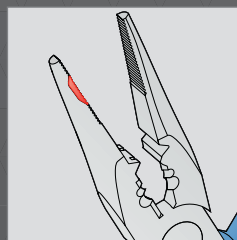
Stripping off insulations from Ø 3.5 mm to Ø 4.0 mm.



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 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.

514/1BI

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:

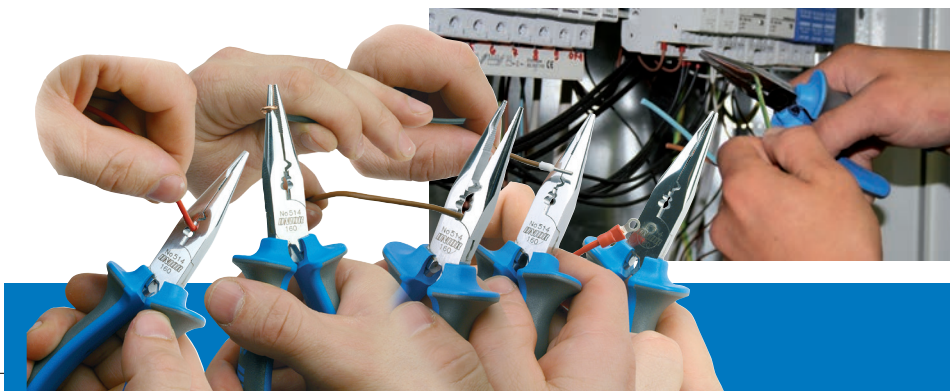
- 7 different functions
- multi-toothed jaw
- ergonomically shaped handle
- extra strong grip
- Extra strong grip - the design and shape of the handles give the hand more leverage during use, enabling more stability and safer transmission of force.
- high durability
- Multi-toothed jaw prevents slipping 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 10
cutting capacity (10N=1kg)							
	L						
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



1

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	1

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	1

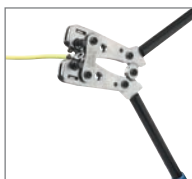
427/2FG

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

Usage

621555	6 - 50	1350	1D	1

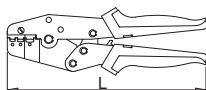
428/4

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	1

428.1/4**Spare parts for art. 428/4**

- spare head



602328	161	1E	1

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	1

428.4/4AG

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



621958	55	1E	1

428.2/4AG

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



621956	55	1E	1



428.1/4AG

Spare jaw for insulated terminals for 428/4AG



621955	57	1E	1

428.3/4AG

Spare jaw for cord end terminals for 428/4AG



621957	74	1E	1

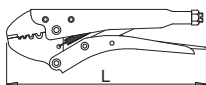
426/3A

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



Barcode	Material	L	Weight	Price	Stock
601138	0.5 - 6	220	512	1E	5

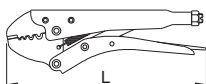
426/3B

Crimp - grip pliers

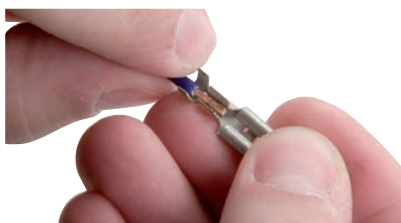
- material: sheet metal
- tool steel jaws, oil hardened, phosphated
- toggle joint ensures high compression pressure with little effort
- handles nickel plated

Usage

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



Barcode	Material	L	Weight	Price	Stock
601139	0.5 - 10	220	484	1E	5

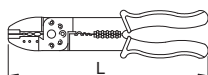


425/4A**Crimping pliers**

- 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



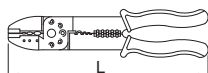
		L			
601136	1.5 - 6	240	320	1E	5

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



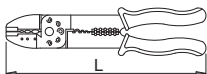
		L			
601137	1.5 - 6	240	320	1E	5

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



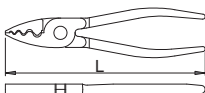
Barcode	Wire Gauge	L	Weight	Material	Quantity
605806	1.5 - 6	240	320	TE	5

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)



Barcode	Wire Gauge	L	Weight	Material	Quantity
607949	0.5 - 2.5	140	144	4B	10
607950	0.25 - 16	180	258	4B	10

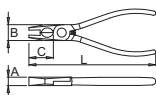




503/4P

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



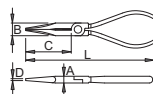
	L	B	A	C			
607863	140	17	9	35	99	4B	10

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



	L	B	D	A	C			
607330	160	16	0.8	9	49	104	4B	10



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.

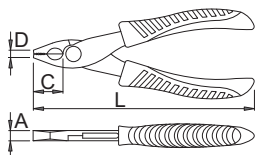
Effectiveness

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

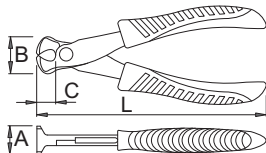


	L	B	C	A			
620069	120	13.6	15.8	8.2	90	4B	10

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

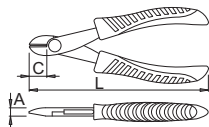


	L	B	C	A			
620071	110	16.6	8.1	13.2	94	4B	10

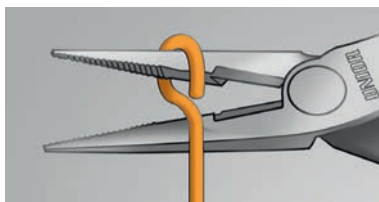
461/4E

Electronic side cutter

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



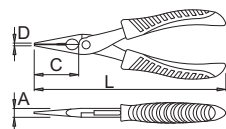
	L	B	A	C			
620072	115	13	8.2	13.5	95	4B	10



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

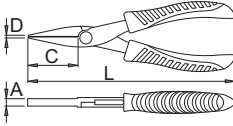


	L	B	D	A	C		
620074	135	12.6	3.2	2.4	32.5	90	4B 10

472/4E

Electronic flat nose pliers

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

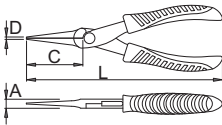


	L	C	A			
620070	135	32.5	8.2	105	4B	10

506/4E

Electronic long nose pliers

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

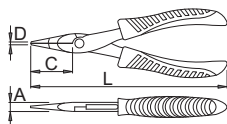


	L	B	D	A	C			
620073	140	12.6	3.2	2.4	41.8	99	4B	10

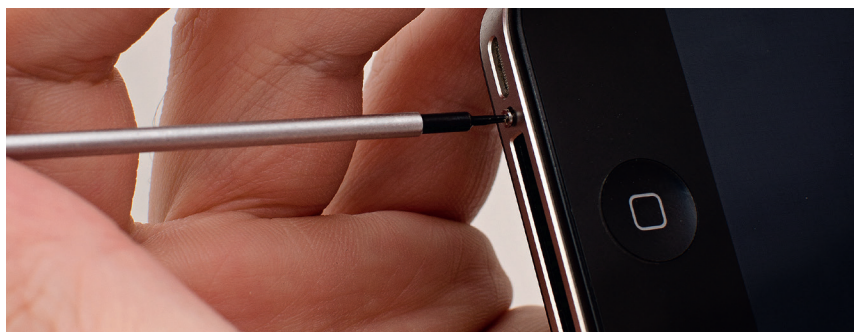
512/4E

Electronic long nose pliers, bent

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



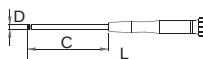
	L	B	D	A			
620075	140	12.6	3.2	8.2	97	48	10



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



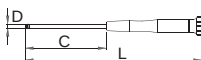
		C	L	D			
623364	TS 1	60	153	2,5	13	4A	1

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



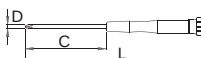
Barcode	Star	C	L	D	Weight	Box	Box
604546	TX 4	60	153	3	12	4A	10
604547	TX 5	60	153	3	12	4A	10
608310	TX 6	60	153	3	13	4A	10
608311	TX 7	60	153	3	14	4A	10
608312	TX 8	60	153	3	12	4A	10
608313	TX 9	60	153	3	15	4A	10
608314	TX 10	60	153	3	14	4A	10
608315	TX 15	60	153	3.5	17	4A	10
608316	TX 20	80	173	4	19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

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	Plus	C	L	D	Weight	Box	Box
608308	PZ 0	60	153	3	13	4A	10
608309	PZ 1	80	173	4.5	26	4A	10



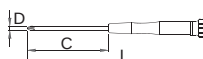
615E



107

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

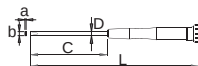


Barcode	+	C	L	D	Icon 1	Icon 2	Icon 3
608304	PH 000	60	153	2.5	12	4A	10
608305	PH 00	60	153	2.5	12	4A	10
608306	PH 0	60	153	3	14	4A	10
608307	PH 1	80	173	4.5	22	4A	10

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

403A

Set of electronic pliers in bag



620212	6	733	1E	1
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	1
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	1
406/4E (120), 461/4E (115), 508/4E (135)				



608CS5E

Set of electronic screwdrivers in carton box



620962	5	133	1G	1
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	1
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	1
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	IG	1
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	1
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)				





Magnetizer/demagnetizer

-



	B	A			
612866	52	30	91	1E	10



- *Dimension of box: 145 x 85 x 40*

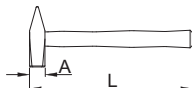


				
621650	21	240	IG	1
 6460C6,3 (0.5 x 4.0, 1.2 x 6.5),  6466C6,3 (PZ 1, PZ 2, PZ 3),  6472C6,3 (TX 8, TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40),  6469C6,3 (3, 4, 5, 6),  6463C6,3 (PH 1, PH 2),  6715E6,3 (E6.3 (1/4"))				



Locksmiths` hammer

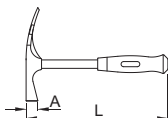
- material: special tool steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- ash wood handle with special oval wedge
- made according to standard DIN 1041



	gr	A	L			
601796	100	13 x 13	260	145	1C	10
601797	150	15 x 15	280	225	1C	10
601799	200	17 x 17	280	280	1C	10
601801	250	18 x 18	300	340	1C	10
601802	300	20 x 20	300	380	1C	10
601803	400	22 x 22	310	487	1C	10
601804	500	25 x 25	320	625	1C	10
601805	600	26 x 26	330	720	1C	6
601806	800	30 x 30	350	955	1C	6
601807	1000	33 x 33	360	1150	1C	6
601808	1250	34 x 34	380	1430	1C	6
601809	1500	37 x 37	380	1690	1C	6
601810	2000	41 x 41	400	2195	1C	6

Masons` hammer

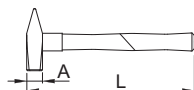
- material: special tool steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- chrome plated metal tubular handle with plastic grip



	gr	A	L			
601825	650	20 x 20	300	851	1C	6

Locksmiths' hammer

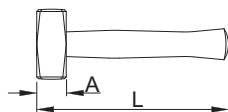
- material: special tool steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- ash wood handle with protective plastic sleeve and fitted with roll pin and oval wedge
- made according to standard DIN 1041



	gr	A	L			
602536	200	17 x 17	280	275	1C	10
602537	300	20 x 20	300	380	1C	10
602538	500	25 x 25	320	646	1C	10
602539	800	30 x 30	350	960	1C	6
603164	1000	33 x 33	360	1170	1C	6

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

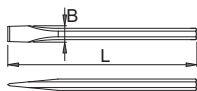


	gr	A	L			
601840	1000	36 x 36	260	1065	1C	6
601841	1250	38 x 38	260	1305	1C	6
601842	1500	40 x 40	280	1525	1C	6
601843	2000	44 x 44	300	2050	1C	6

665/6A

Electrician's chisel

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

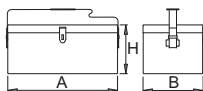


Barcode	L		B			
608500	250	8	10	110	1P	10
608501	250	10	10	160	1P	10

960/6

Installers tool box

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

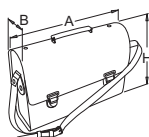


Barcode	A	B	H			
603673	550	200	230	5200	1K	1
612989	620	200	230	4900	1K	1

909PES

Electrical bag

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

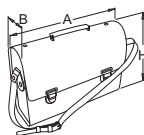


Barcode	A	B	H			
624057	420	140	320	2400	1F	1

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

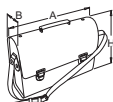


	A	B	H			
601939	420	140	320	2400	1F	1

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

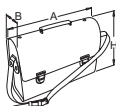


	A	B	H			
602552	350	110	300	1542	1F	1

909/1PES

Electrical bag

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



	A	B	H			
624058	350	110	300	1540	1F	1

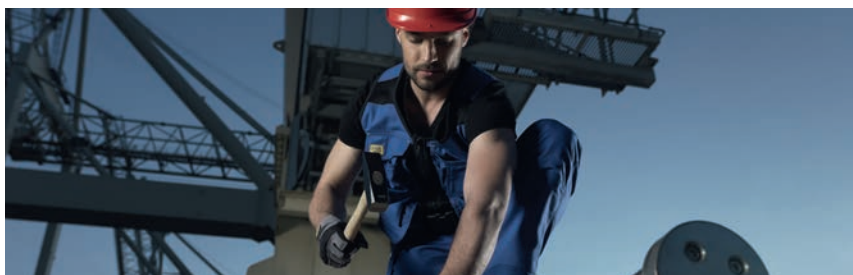
1000T

Tool set

- Designed for basic maintenance in electro installations.

				
609330	53	9430	1K	1
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	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)			

	603VDETB1 (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)
	613VDETB1 (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



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

971/3VDE

Tool set in tool case



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

971/4

Tool set in tool case

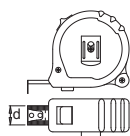


				
604575	21	14000	1F	1
1000AC, 969S (485 x 380 x 175), 969.55				



**710P****Measuring tape**

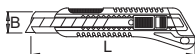
- plastic double component casing
- with stop and clip



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

556A**Utility knife**

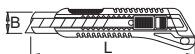
- double component handle
- 3 automatic exchangeable snap-off blades inside the handle
- blade with 13 snap-off blades
- blade from high alloy steel



	L	B			
616853	160	18	99	4A	10

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



	L	B			
612136	160	18	167	4A	10

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

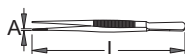


	L	B			
612137	140	18	75	1S	10

1342

Flat tweezers

- material: stainless steel



	L	A			
619280	160	2	25	4A	10

1343

Bent flat tweezers

- material: stainless steel



	L	A			
619281	155	2	26	4A	10

1344

Flat tweezers

- material: stainless steel



	L	A			
619282	140	1.5	18	4A	10

1345

Pointed tweezers

- material: stainless steel



	L	A			
619283	115	1.5	11	4A	10

1346

Bent pointed tweezers

- material: stainless steel



	L	A			
619284	165	2	28	4A	10

1347

Cross pointed tweezers

- material: stainless steel



	L	A			
619285	115	1.2	15	4A	10

1348

Spade pointed tweezers

- material: stainless steel



	L	A			
619286	120	1	12	4A	10

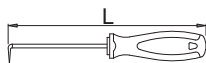
639A

Awl with round straight blade

	L			
617773	165	31	4B	10

639B

Awl with round, 90° bent blade



	L			
617774	165	31	4B	10

639C

Awl with round, double bent blade



	L			
617775	165	31	4B	10

639D

Awl with round, double bent small blade



	L			
617776	165	31	4B	10

639PB

Awl set

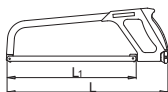


617777	4	140	1F	1
639A (165), 639B (165), 639C (165), 639D (165)				

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

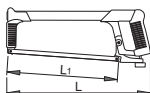


	L	L1	L1			
601890	407	310	12"	780	1Z	1

750B

Hacksaw

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



	L	L1			
621531	400	300	731	1Z	1

750.1B

Spare blade for 750B, 2 pcs set



621532	2	40	1P	1

750.1CAR

Carbon saw blade for 750B, 2 pcs set

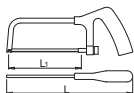


623099	40	1P	1

753P

Saw

- plastic handle
- replaceable blade

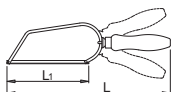


	L1	L			
612164	150	260	192	1Z	1

753W

Saw

- wooden handle
- adjustable handle
- replaceable blade



	L1	L			
612163	150	305	127	1Z	10

753.1

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



617281	3	1E	10

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
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
385.1H	Blade for 385H	87
385AVDE	Insulated knife	66
385BVDE	Insulated knife	66
385G	Cable stripper with straight knife	87
385H	Cable stripper with hook knife	86
385VDE	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
427/4AG	Crimp grip pliers	90
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 exchangeable jaws in plastic box	93
447/1VDEBI	Insulated waterpump box joint pliers	35
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	43
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
556A	Utility knife	124
556B	Utility knife	124
580/1VDEBI	Cable shears	55
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 electronic 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
613VDETBI	Crosstip (PH) screwdriver with insulated blade, VDE TBI	60
613VDETBI	Crosstip (PH) screwdriver with insulated blade, VDE TBI	61

614VDE TBI	Crosstip (PH) SLIM screwdriver with insulated blade, VDE TBI	58
615E	Crosstip (PH) electronic screwdriver	107
619E	Electronic Screwdriver with TS profile	105
620CS6VDE TBI	Set of insulated hexagon screwdrivers VDE TBI	73
620VDE TBI	Hexagon screwdriver with insulated blade VDE TBI	64
621CS6VDE TBI	Set of insulated screwdrivers VDE TBI with TX profile	73
621CS7E	Set of electronic screwdrivers with TX profile in carton box	111
621E	Electronic screwdriver with TX profile	106
621VDE TBI	Screwdriver with insulated blade VDE TBI with TX profile	64
623VDE	Double-crosstip (PZ) screwdriver with insulated blade, VDE	62
623VDE TBI	Double-crosstip (PZ) screwdriver with insulated blade, VDE TBI	62
624VDE TBI	Double-crosstip (PZ) SLIM screwdriver with insulated blade, VDE TBI	58
625E	Double-crosstip (PZ) electronic screwdriver	106
629CS6VDE TBI	Set of insulated socket wrenches with VDE TBI handle	74
629VDE TBI	Insulated socket wrench with VDE TBI handle	65
630VDE	Voltage tester 220 - 250 V	63
633	Magnetizer/demagnetizer	114
639A	Awl with round straight blade	126
639A	Awl with round straight blade	126
639B	Awl with round, 90° bent blade	127
639B	Awl with round, 90° bent blade	127
639C	Awl with round, double bent blade	127
639C	Awl with round, double bent blade	127
639D	Awl with round, double bent small blade	127
639D	Awl with round, double bent small blade	127
639PB	Awl set	127
639PB	Awl set	127
665/6A	Electrician`s chisel	118
6776PB21	Bits set in plastic box	114
6778FBS1	Bits set	115
6778FBS2	Bits set	115
6778FBS3	Bits set	115
710P	Measuring tape	123
721.1/6	Swivel base for 721/6 and 721Q/6	123
750VDEDP	Insulated saw	68
753VDEDP	Insulated saw	68
809	Masons` hammer	116
812	Locksmiths` hammer	116

812A	Locksmiths' hammer	117
817	Club hammer	117
905VDE	Tool set VDE in bag	74
905VDEBI	Tool set VDE BI in bag.	75
906VDE	Tool set VDE in bag	74
906VDEBI	Tool set VDE BI in bag.	75
909	Electrical bag	119
909/1	Electrical bag	119
909/1PES	Electrical bag	119
909PES	Electrical bag	118
960/6	Installers tool box	118
964VDE1	Set of insulated open end wrenches in SOS tool tray	77
964VDE2	Set of insulated offset ring wrenches in SOS tool tray	77
964VDE3	Set of insulated pliers in SOS tool tray	78
964VDE4	Set of insulated torque wrenches and T-wrenches in SOS tool tray	79
964VDE5	Set of insulated socket wrenches 1/2" in SOS tool tray	78
964VDE5A	Set of insulated accessories 1/2" in SOS tool tray	79
964VDE5L	Set of long insulated socket wrenches 1/2" in SOS tool tray	80
964VDE6	Set of insulated hexagon T-wrenches in SOS tool tray	80
964VDE7	Set of insulated hexagon wrenches SOS tool tray	81
964VDE8A	Set of insulated flat screwdriver VDETBI in SOS tool tray	81
964VDE8B	Set of insulated crosstip screwdriver VDETBI in SOS tool tray	82
964VDE8C	Set of insulated hexagon screwdriver VDETBI in SOS tool tray	82
964VDE8D	Set of insulated screwdriver VDETBI with TX profile in SOS tool tray	83
964VDE8E	Set of insulated socket wrenches with VDETBI handle in SOS tool tray	83
964VDE9	Set of insulated tools in SOS tool tray	83
971/2VDE	Tool set VDE in tool case	121
971/3VDE	Tool set in tool case	121
971/4	Tool set in tool case	122
1000T	Tool set	120
1340VDEDP	Straight tweezers	67
1341VDEDP	Bent tweezers	67
1342	Flat tweezers	125
1343	Bent flat tweezers	125
1344	Flat tweezers	125
1345	Pointed tweezers	125
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