Insulated tools

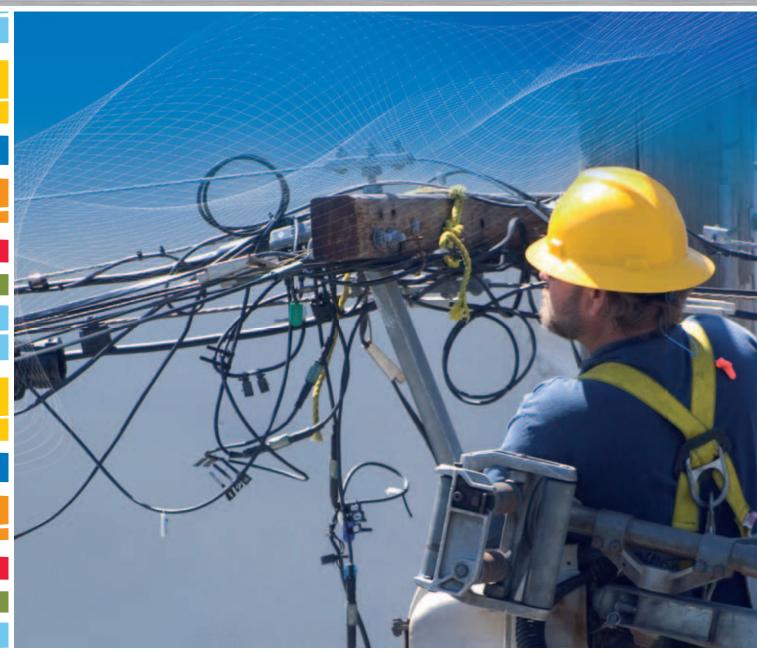






Table of contents:

1	Wrenches VDE	8
2	Ratchets VDE	10
3	Insulated sockets	12
4	Combination pliers VDE	16
5	Insulated water pump box joint pliers VDE	18
6	Diagonal cutting nippers VDE	19
7	Long flat nose pliers VDE	21
8	Long round nose pliers VDE	22



9	VDE wire stripping pliers	23
10	Long nose pliers with side cutter VDE	24
11	Long nose pliers with side cutter and pipe grip, bent VDE	26
12	Cable shears VDE	27
13	Insulated screwdrivers VDE	28
14	Voltage tester VDE	31
15	Tool sets VDE	32
16	Other tools VDE	40



Throughout the world, UNIOR is a synonym for reliable, qualitative, and functional hand tools. Unior Joint-Stock Company is among the most important and best European producers of hand tools, pressed parts, sintered parts, and numerical control machines in the metal manufacturing industry.

From a rich blacksmith tradition with own experience and new knowledge, the company forges trustworthy success among professional users. With constant adaptation to European and world standards, we preserve and strengthen the position of an important international supplier of the metal manufacturing industry. The company has a high rank, modern manufacturing processes and employees with professional experience and knowledge.





The VDE tools





With the EN 60900:2004 standard and each individual testing of tools, a safety rate of 100 % can be achieved with proper use and following the safety instructions:

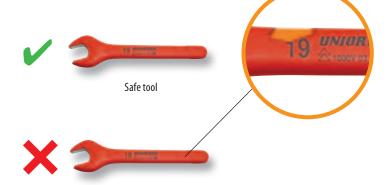
- During work always use safety goggles and gloves
- Never use the VDE tool when showing signs of damage
- Do not modify the insulated VDE tools
- Do not lend tools to other users
- Always check the VDE sign on the tool
- Use the right and appropriate tools
- Always read and follow the safety instructions

are, due to its insulation which does not conduct electricity, one of the safest tools for works under high voltage. Each part of this series of tools is individually insulated, only smaller chrome-plated parts are preserved in its original appearance. VDE tools have two insulating layers: the inner (the first layer) offers electrical insulation, whereas the outer (second layer) provides a mechanic protection for electrical insulation. In this way the insulated tools prevent injuries and electric shocks at the workplace. Each individually tested part ensures 100 % control.



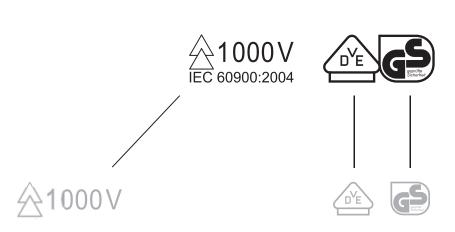
ORANGE AS A WARNING SIGN:

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.



 $Worn\ out\ tool-immediate\ replacement$





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.).

Only tools with the recognizable VDE certification sign are trusted insulated tools.



VDE BI line

- Material: special tool steel
- 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 line

- Material: special tool steel
- Entirely hardened and tempered
- Cutting edges induction hardened
- Head polished
- Surface finish: chrome plated to standard EN12540
- Heavy duty plastic handles



VDE DP line

- Material: special tool steel
- Entirely hardened and tempered
- Cutting edges induction hardened
- Head polished
- Surface finish: chrome plated to standard EN12540
- Handles are double layered double coloured insulated
- Double layered insulation VDE tools, double safety! Establish wear of your VDE tools, just in time



Wrenches

• Material: chrome vanadium



Screwdrivers

- Blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- Blacken tip
- Handle: ergonomic shape
- Three component material
- Hanging hole



- Blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- Blacken tip
- Handle: ergonomic shape, polypropylene
- Hanging hole



5 basic tests according to standard EN 60900



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.



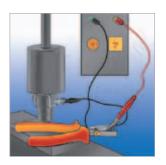
Insulation test:

Before testing the test piece is heated to 70 °C \pm 2 °C for 168 hours. The hanger is loaded with weights (500 N), wrenches and socket sets with weights (100 N). The duration of test is 3 minutes after the test piece has been removed from heat. The test piece is acceptable if the handle remains firmly attached to the conducting part after 3 minutes of testing.



Electrical test:

Before testing, the tools are immersed in a bath of water at room temperature for 24 hours (± 5 hours). The test pieces are acceptable if there is no electrical discharge, spark over or flashover, during the 3 minutes of testing at a voltage of 10 kV.



Stamp test:

The indenter, loaded with a weight of 20 N and a voltage of 5 kV, is applied to the centre of the handle. The test is successful if the test piece subsequently passes the electrical test.



Impact test:

There are two tests carried out: The first test is performed at an ambient of -25 \pm 3 °C (the tools lay in a cold chamber for 2 hours) and is carried out 120 seconds after the tools have been removed from the chamber. The second test is carried out at an ambient temperature of 23 \pm 5 °C. The hammer is allowed to fall freely on three different places of the insulated material. The test piece is acceptable if the handle is not cracked, broken or does not show signs of faking. This test can be compared to a fall of the tool from a height of 0.6 m at a temperature of -25 °C and a fall from a height of 2 m at room temperature.

Legend of symbols used in catalogue

À	dimension
Hausen H	differision
0	tube diameter in mm
	dimension in mm
mm²	wire diameter
ap?	number of items
0	socket - 6 point
12	socket – 12 point
1/2"	1/2" internal 4-point
3/8"	3/8" internal 4-point
	HEXAGON profile
*	LIFE profile
*	TX profile
_	screwdriver profile, flat
+	screwdriver profile, cross tip, PH
+++++++++++++++++++++++++++++++++++++++	screwdriver profile, double cross tip, PZ
	flat jaws
X	cutting jaws
= X :	round jaws
	straight half-round jaws
•	stripping jaws

Contact



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> Tel: 01453 844 333 Fax: 01453 842 224

E-mail: sales@s-w-a.co.uk

www.s-w-a.co.uk



A tool that should present a constituent part of your collection

Unior insulated VDE tools ensure ultimate protection even when used around live circuits with up to a 1000-volt potential. Besides safety, this tool offers quality, simplicity, reliability, comfort, and reduced risk during use. The tools are suitable for professional as well as hobby-workers.

618370

612184

617802

618336

618337

110/2VDEDP

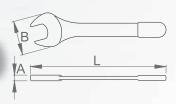
Insulated single open end wrench



Head: chrome plated according to EN12540







Α

6.9

Double layered insulation: protection from temperature, Material: chrome vanadium 31CrV3 electrical, mechanical, and other risks

618331	7	74	16.1	6.9
617801	8	108	21	7
612175	10	109.5	24.5	7.5
612176	11	113	26	7.5
612177	12	127	28	8
612178	13	131	30.5	8.5
612179	14	143	33	8.5
612180	15	150	35	9
612181	17	158	40	10
612182	19	173	44	11
618333	20	180	46.4	12.2
619201	21	183	48.8	12.5
612183	22	198	49	13
618335	23	215	52.8	13.1

24

27

30

32

- Proper heat treatment (ISO 1711-1, DIN 899)
- Durability in relation to the required torques (ISO 1711-1, DIN 899)
- Opening in accordance with ISO 691 (DIN 475)

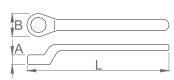
1	80	/2V	D	ED	P

Insulated single offset ring wrench









224

235

267

283

56

59

66.1

71.4

14

15

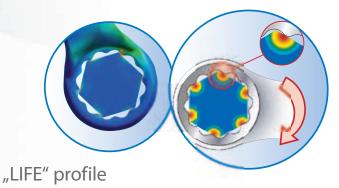
17.6

15.8

6	O Marines
	 Proper heat treatment (ISC)

- O 1711-1, DIN 899)
- Durability in relation to the required torques (ISO 1711-1, DIN 899)
- Opening in accordance with ISO 691 (DIN 475)

	1	L	В	Α
612185	10	162	19.5	11
612186	11	175	20	11.5
612187	12	185	21.5	11.5
612188	13	185	23	12.5
612189	14	190	25.5	13
612190	15	195	27	13.5
612191	17	208	30.5	15.5
612192	19	227	33	15.5
619202	21	244	36.4	13.2
612193	22	250	37.5	17.5
612194	24	255	42	18.5



The advantage of a "LIFE" profile is its characteristic – because the pressure does not have a direct effect on the tip of the nut but on the surface of the nut end, therefore it does not damage screws and bolts. With this profile, the contact surface between



the wrench and the nut is larger, and therefore the force is equidistantly placed. A big advantage is the useful life of wrenches and nuts and the tool's ability to unscrew damaged screws.

180/2AVDEDP Insulated single ring wrench, offset 90°





- Material: chrome vanadium (31CrV3)
- Head: chrome plated according to EN12540
- Double layered double coloured insulation
- Double layered insulation: protection from temperature, electrical, mechanical, and other risks

B	L ₁
O LUA	

	1	L1	L2	В	Α
619123	10	220	78	18.2	10
619124	12	220	78	21.2	10
619125	13	220	78	23.3	11
619126	14	230	85	24.4	11.6
619127	17	255	100	29.3	13.8
619128	19	255	103	30.6	13
619129	20	267	107	33.3	16
619130	22	265	115	35.8	16
619131	24	265	115	38.8	16.9

250/1VDEDP Insulated adjustable wrench





Toothed adjustable screw for adapting the wrench jaw to the size of the screw or nut.

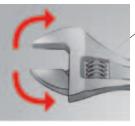




The adjustable jaw always stays on its place and does not fall out even when it is opened to its maximum.

Material: chrome vanadium

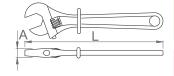
The flat shape also enables work in small and tight places.



The wrench sustains both directions of rotation.

determination of the screw and nut size 10

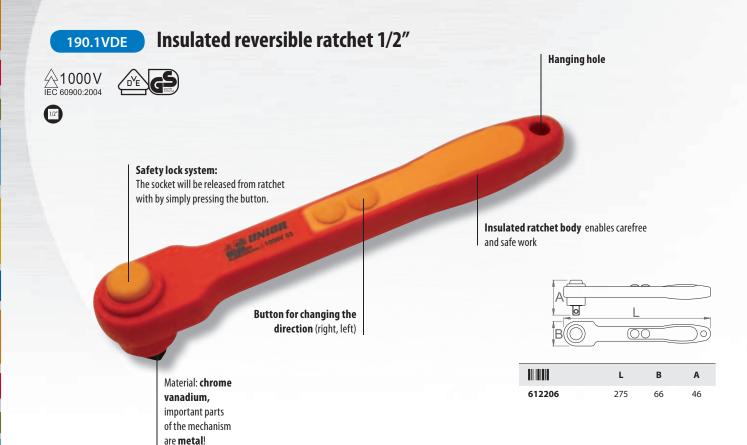
Measuring scale for quick

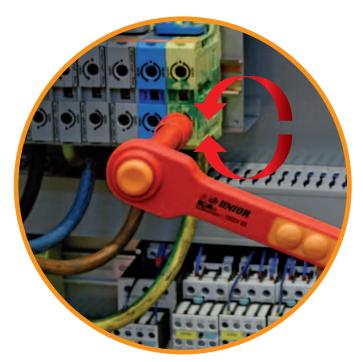


616849 200 215 35 28 616850 250 265 35 32 616851 300 310 38 36

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.





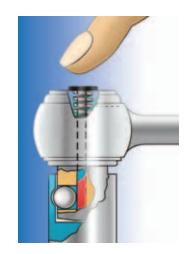
1/2" profile

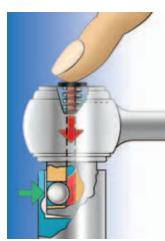
- With 36 teeth
- Minimal angle of turn 10°
- 30% higher torque upon DIN standard
- Fast, simple, and safe screwing
- Fit with our sockets 190/2VDEDP
- Screwing in the clockwise direction and other direction

Higher Security And User Comfort

The new heavy duty double-component handle is fully adaptable to the hand. The ergonomic shape of the handle is designed to enable maximum transmission and to assure longer useful life of the ratchet.

Features of Unior's safety lock system





Insulated reversible ratchet 3/8" 238.1AVDEDP





- Fast, simple, and safe screwing
- Fit with our sockets 190 VDE 1/2" or 3/8"
- Screwing in the clockwise direction and other direction



190.1AVDEDP

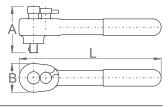
Insulated reversible ratchet 1/2"











	L	В	Α
619119	245	80	49



190/2VDEDP

Insulated socket 1/2"





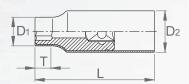








- Head: chrome plated according to EN12540
- Material: chrome vanadium
- Drop forged, entirely hardened and tempered
- Durability in relation to the required torques (ISO 1711-1, DIN 899)
- Proper heat treatment (ISO 1711-1, DIN 899)
- The hexagon profile is in accordance with the prescribed standard
- The new profile ensures a better grip, reduces force, and increases the useful life of the tool itself



	0	L	D1	D2	т
617803	8	54.6	18	27.4	12
612195	10	51.5	18	26	12
612196	11	51.5	19.5	26.5	12
612197	12	51.5	20.5	26.5	12
612198	13	51.5	21.5	26.5	12
612199	14	51.5	22.5	26.5	12
612200	17	51.5	28	26	12
612201	19	51.5	30	28	14
612202	22	51.5	34	29	14
612203	24	55	37	32.5	16
617804	27	58	40.5	32.5	18

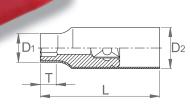
190/2LVDEDP

Insulated socket 1/2", long type









	1 2	L	D1	D2	Т
619104	10	96	20.7	27	27
619105	11	96	21.6	27	27
619106	12	96	22.6	27	27
619107	13	96	23.3	27	27
619108	14	96	25.8	27	35
619109	15	96	26.8	27	35
619110	16	96	27.4	27	35
619111	17	96	30	27	35
619112	18	96	31.7	27	35
619113	19	96	32	27	35
619114	20	96	33.4	27	35
619115	21	96	33	27	35

238/2VDEDP

Insulated socket 3/8"



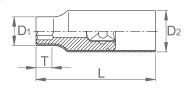












619161 10 46.5 18.7 23 10 619162 11 46.5 20.7 23 10 619163 12 46.5 21.8 23 10 619164 13 46.5 23 23 10 619165 14 46.5 24.9 23 14		0	L	D1	D2	Т
619163 12 46.5 21.8 23 10 619164 13 46.5 23 23 10	619161	10	46.5	18.7	23	10
619164 13 46.5 23 23 10	619162	11	46.5	20.7	23	10
	619163	12	46.5	21.8	23	10
619165 14 465 249 23 14	619164	13	46.5	23	23	10
17 40.5 24.9 25 14	619165	14	46.5	24.9	23	14
619166 17 49 28.6 23 15	619166	17	49	28.6	23	15
619167 19 49 31.4 23 17	619167	19	49	31.4	23	17
619168 22 51 35 23 17	619168	22	51	35	23	17

190.4/2VDEDP

Insulated extension bar 1/2"

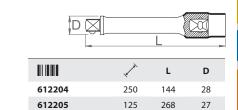


1000 V IEC 60900:2004





- Material: chrome vanadium
- Drop forged, entirely hardened and tempered
- Head: chrome plated according to EN12540
- Proper heat treatment (40-45 HRc)
- The VDE extensions are used together with the VDE insulated sockets. Due to its safe, simple and fast mounting to the insulated sockets, the work will be carried out faster



238.4/2VDEDP

Insulated extension bar 3/8"



1000 V





- Material: chrome vanadium
- Drop forged, entirely hardened and tempered
- Head: chrome plated according to EN12540
- Proper heat treatment (40-45 HRc)
- The VDE extensions are used together with the VDE insulated sockets. Due to its safe, simple and fast mounting to the insulated sockets, the work will be carried out faster.



IIIIII	1	L	D
619169	125	144	17
619170	250	268	17

190.5/2VDEDP

Insulated offset handle 1/2"



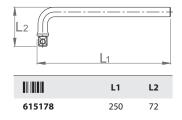
1000 V IEC 60900:2004







Material: chrome vanadium





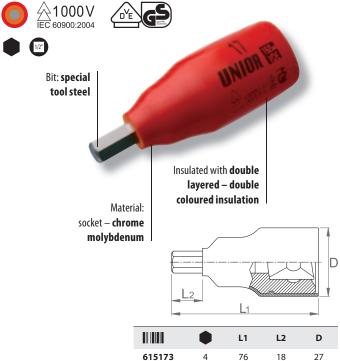
- Drop forged, entirely hardened and tempered
- For 1/2" profile
- For simple screwing by hand
- The VDE insulated offset handle is used together with the VDE insulated sockets. Due to its safe, simple and fast mounting of the insulated sockets, the work will be carried out faster.



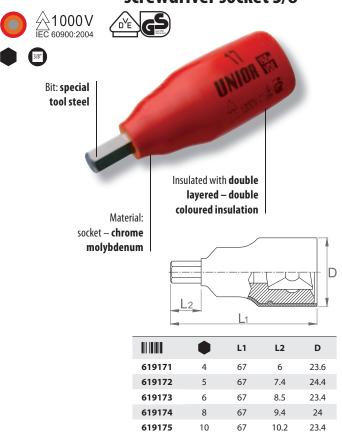




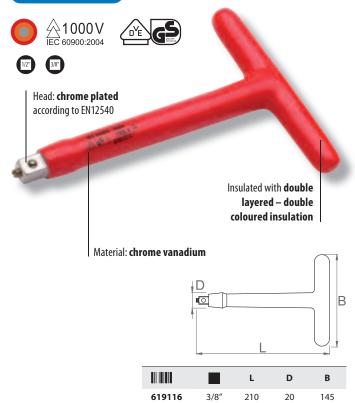




236/2HXVDEDP Insulated hexagonal screwdriver socket 3/8"

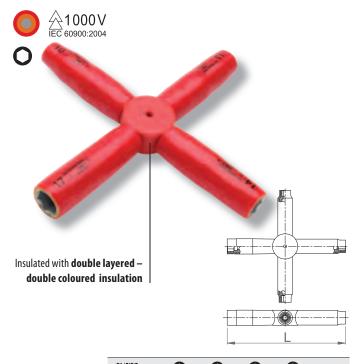


196/2BVDEDP Insulated T-handle



1/2"

213/2VDEDP Insulated four way rim wrench



	O	O	O	O	L
619093	10	11	14	17	207
619094	11	12	13	17	207
619095	10	13	14	17	207
619096	11	13	14	17	207
619097	13	17	19	22	207

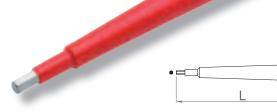
220TVDE

Insulated hexagon T-wrench

$\bigwedge_{\mathsf{IEC}} 1000\,\mathsf{V}$



- Material: special tool steel
- Entirely hardened and tempered
- PVC insulation
- Easier and safer screwing
- Controlled with electrical test

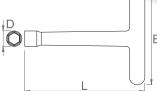


		L	В
619132	4	200	69
619133	5	203	69
619134	6	207	98
619135	8	209	99

Insulated socket wrench 196/2LVDEDP with T-handle, long type



- Material: chrome vanadium
- Head: chrome plated according to EN12540
- Entirely hardened and tempered



	0	L	В	D
619143	10	300	160	20
619150	11	300	160	21
619151	12	300	160	24
619152	13	300	160	24
619153	14	300	160	27
619154	17	300	160	30
619155	19	300	160	32
619156	20	300	160	34
619157	21	300	160	34
619158	22	300	160	34
619159	23	300	160	45
619160	24	300	160	45

220/3LVDEDP

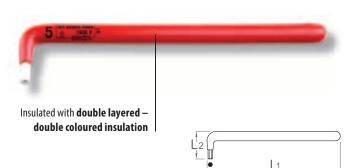
Insulated hexagon wrench











- Material: chrome vanadium
- Entirely hardened and tempered

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

264VDEDP

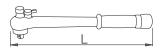
Insulated torque wrench 1/2"



 $\bigwedge_{\mathsf{IEC}} 1000\,\mathsf{V}$



- Double layered double coloured insulation enable additional safety
- If second layer is visible, replace your VDE tool with the new one.
- Made according to standard EN60900



	(Nm)	(bf.ft)	L
619120	5 -50	5 - 35	375
619121	20 - 100	20 - 70	470
619122	40 - 220	30 - 160	540

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





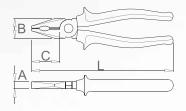








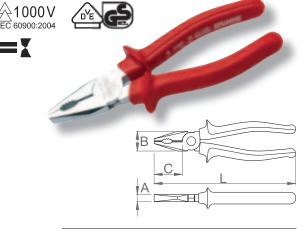
- Entirely hardened and tempered (hardness 44-48 HRc)
- For cutting wires ø 1,6 1600 N/mm² and soft wires CuSn₆ ø 1-740-830 N/mm²
- Cutting edges induction hardened (60 HRc/min.)
- For cutting wire ø 1,6, no greater force needed than the one prescribed (580 N, depending on the dim.)
- Passed the torsion test without deformation (moment T = 15-20 Nm, depending on the dim.)
- Made according to standard ISO 5746 and EN 60900



L	В	С	Α
160	24	35	9.5
180	27	38	10
200	29	41	10.5
220	32	47	11
	160 180 200	160 24 180 27 200 29	160 24 35 180 27 38 200 29 41



Combination pliers



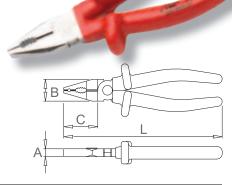
	L	В	c	Α
605007	140	23	32	8
605008	160	24	35	9.5
605009	180	27	38	10
605010	200	29	41	10.5
605011	220	32	47	11

406/1VDEDP



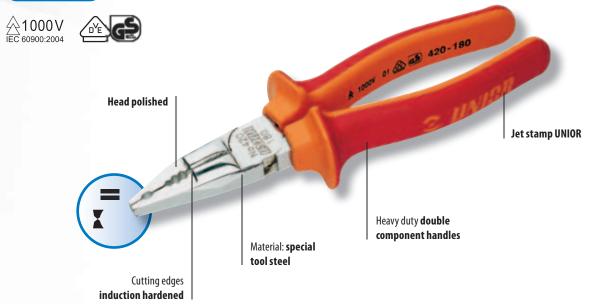




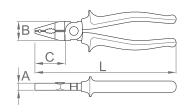


	L	В	c	Α
619177	140	23	32	8
619178	160	24	35	9.5
619179	180	27	38	10
619180	200	29	41	10.5
619181	220	32	47	11

Linmen's pliers 420/1VDEBI



- Surface finish: chrome plated to standard EN12540
- Forged
- Entirely hardened and tempered (hardness 44-48 HRc)
- For cutting wires ø 1,6 1600 N/mm 2 and soft wires CuSn $_6$ ø 1 740-830 N/mm 2
- Cutting edges induction hardened (60 HRc/min.)
- For cutting wire ø 1,6, no greater force needed than the one prescribed (580 N, depending on the dim.)
- Passed the torsion test without deformation (moment T = 15-20 Nm, depending on the dim.)



	L	В	c	Α
610425	180	24	45	11

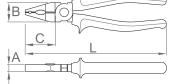
Linmen's pliers 420/1VDE











	L	В	c	Α
607125	180	24	45	11

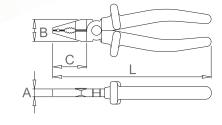
420/1VDEDP

Linmen's pliers





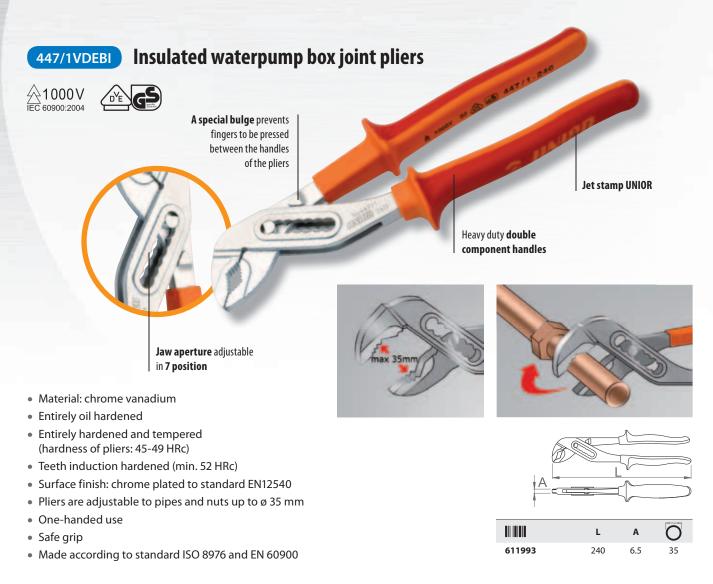




	L	В	c	Α
619176	180	24	45	11

One-handed use

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



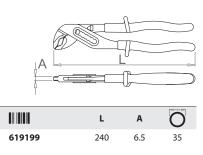
447/1VDEDP Insulated waterpump box joint pliers











Minimum effort – maximum transmission

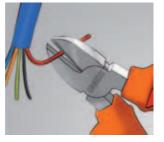
The Diagonal cutting nippers VDE with its precise cutting edges offer exact and better cutting of wires with minimum effort and maximum transmission. Due to the reduced wearing out of cutting edges, the useful life of the pliers gets longer.

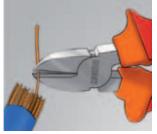
Diagonal cutting nippers 461/1VDEBI





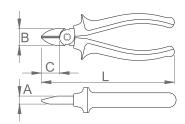
- Material: special tool steel
- Surface finish: chrome plated to standard EN12540
- Forged
- Entirely hardened and tempered (hardness of pliers: 44-48 HRc)
- For work with electrical installations up to 1000 V
- The specially formed jaw enables cutting wires in difficult-to-reach places
- Sharp and precise cutting edges enable exact cutting
- For cutting wires ø 1.8 2150 N/mm² and soft wires Cu-ETP ø 0.5
- Cutting edges induction hardened (minimal 60 HRc/min.)
- Induction hardened cutting edges are therefore extremely hard and durable. The advantage of induction hardening is also that the cutting edges remain sharp for a longer period of time.
- For cutting wire ø 1.6, no greater force needed than the one prescribed (460 N)
- Made according to standard ISO 5749 and EN 60900





Before use under high voltage always check the insulated tools and watch out for cut wire after cutting. Therefore it is suggested to use safety goggles and gloves when using the tool.

Head polished Jet stamp UNIOR Heavy duty double component handles



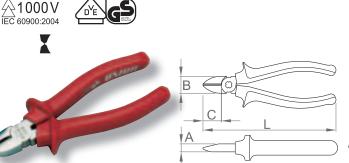
	L	В	c	Α
610426	140	19	18	9.5
610427	160	22.5	22	10

Cutting capability (10 N = 1 kg) Wire max. 1600 N/mm² Wire max. 650 N/mm² Dim. Max. diameter (mm) Max. diameter (mm) 140 2.0 160

461/1VDE

Diagonal cutting nippers

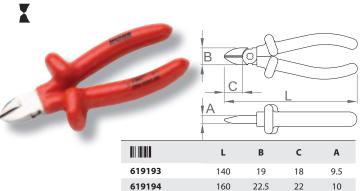
461/1VDEDP



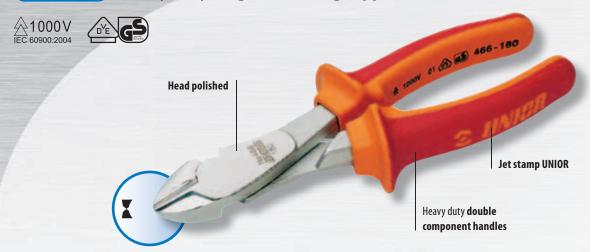
	L	В	c	Α
605012	140	19	18	9.5
605013	160	22.5	22	10

Diagonal cutting nippers

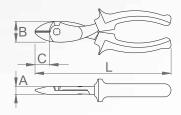




466/1VDEBI Heavy duty diagonal cutting nippers



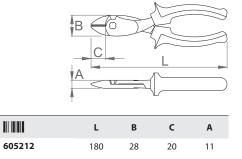
- Material: special tool steel
- Surface finish: chrome plated to standard EN12540
- Entirely hardened and tempered (hardness of pliers: 44-48 HRc)
- For work with electrical installations up to 1000 V
- The specially formed jaw enables cutting wires in difficult-to-reach places
- Sharp and precise cutting edges enable exact cutting
- For cutting wires ø 1.8 2150 N/mm² and soft wires Cu-ETP ø 0.5 (cutting edges induction hardened – 60 HRc/min.)
- Induction hardened cutting edges are therefore extremely hard and durable.
 The advantage of induction hardening is also that the cutting edges remain sharp for a longer period of time.
- For cutting wire Ø 1.6, no greater force needed than the one prescribed (to 1020 N)
- Made according to standard ISO 5749 and EN 60900



	L	В	С	Α
610428	180	28	20	11
611756	200	27	21	11

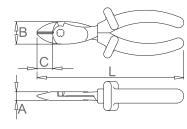
466/1VDE Heavy duty diagonal cutting nippers





466/1VDEDP Heavy duty diagonal cutting nippers





	L	В	c	Α
619195	180	28	20	11
619196	200	27	21	11

Very precise and durable

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.

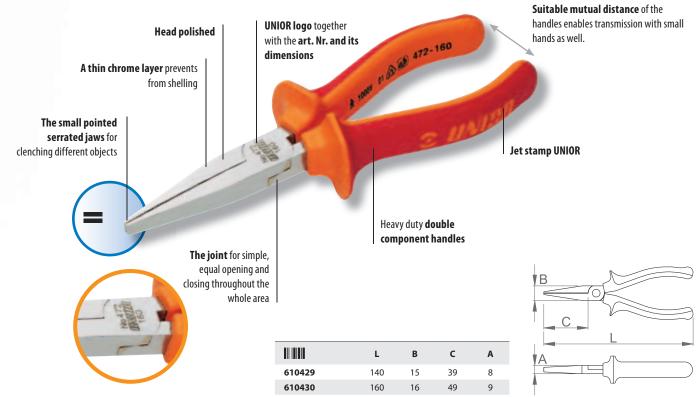
- Material: special tool steel
- Surface finish: chrome plated to standard EN12540
- Forged
- Entirely hardened and tempered (44-48 HRc)
- Flat long jaws
- Gripping surface serrated
- For clenching and bending of wires and other objects of sheet metal
- Passed the torsion test without deformation (torque T = 5 Nm)
- Made according to standard ISO 5745 and EN 60900

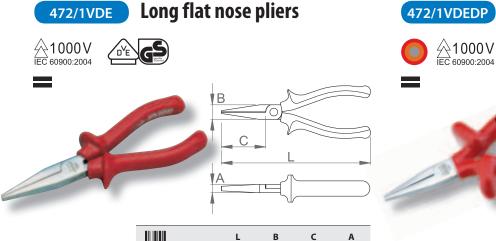


Long flat nose pliers









140

160

15

16

39

8

9

B C A

140

160

15

16

619182

619183

Long flat nose pliers



605014

605015

39

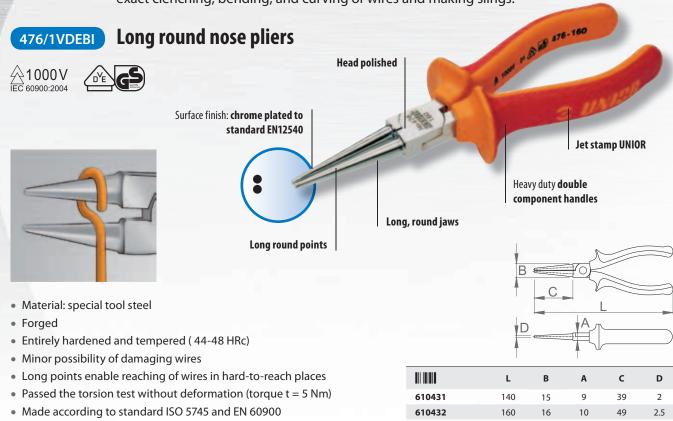
Quality in shape

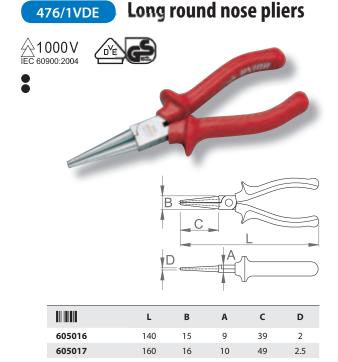
The production of the VDE pliers is based on constant quality control. In each stage of production, the pliers are individually checked and tested to prevent the possibility of failures on the tools and increases safety during use. The advantage of long round nose pliers is its exact clenching, bending,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

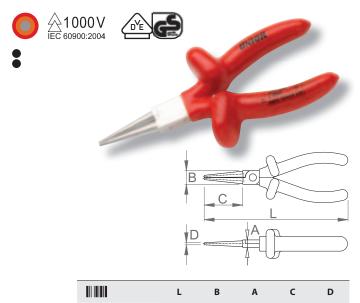
476/1VDEDP

619184

619185







140

160

15

16

10

2.5

Long round nose pliers

Perfect grip of your hands

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.

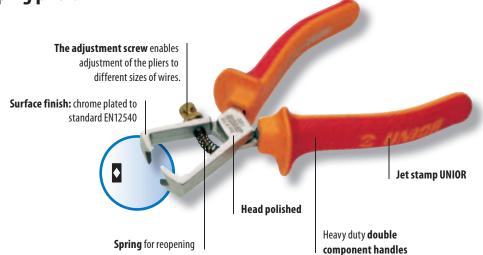
478/1VDEBI

Wire stripping pliers

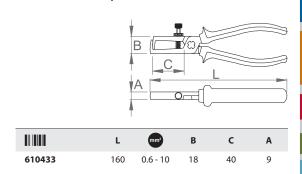






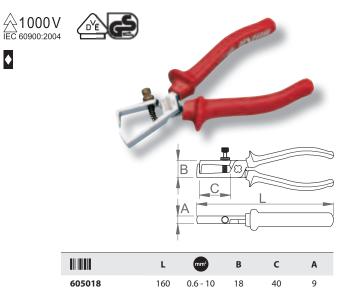


- Material: special tool steel
- Forged
- Entirely hardened and tempered (44-48 HRc)
- For single, multiple, and specially formed wires with plastic or rubber insulation
- Simple adaptation to the wire diameter
- Stripping capacity: up to max 0.6-10 mm²



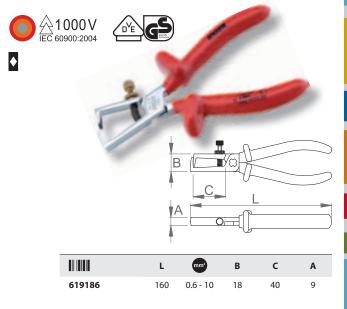
478/1VDE

Wire stripping pliers



478/1VDEDP Wire

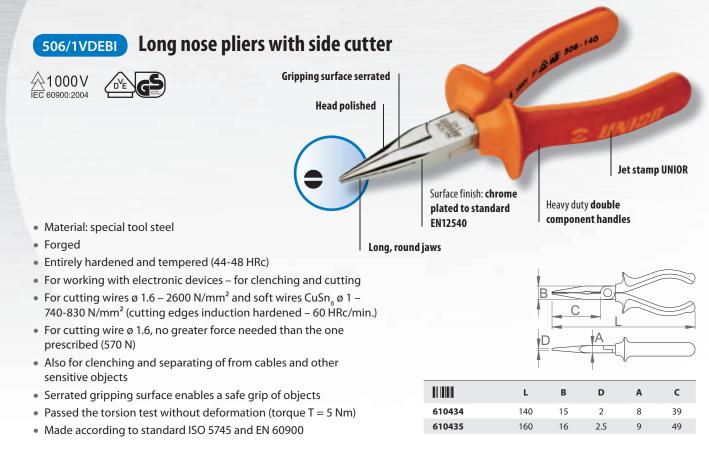
Wire stripping pliers

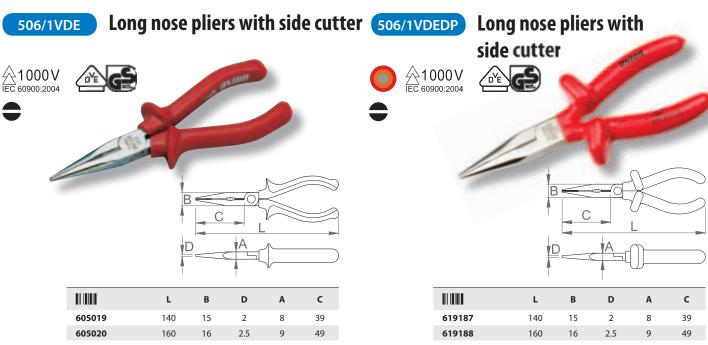




With simplicity to good results

In daily use, the long nose pliers with side cutter will offer complete satisfaction. Unior's VDE tools are made of special materials and with their designed shapes enable work to be carried out much faster. You will achieve effective and qualitative results without difficulties.



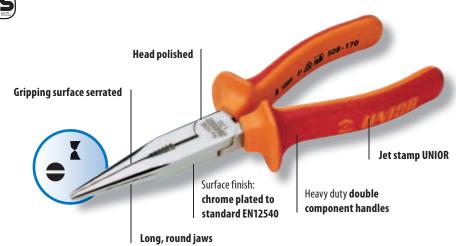


508/1VDEBI

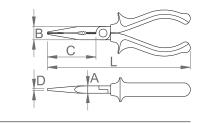
Long nose pliers with side cutter and pipe grip, straight







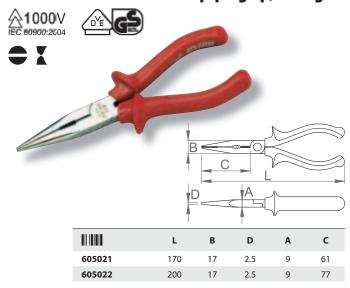
- Material: special tool steel
- Forged
- Entirely hardened and tempered (44-48 HRc)
- For working with electronic devices for clenching and cutting
- For cutting wires ø 1.6 2600 N/mm² and soft wires ø 1 740-830 N/mm² (cutting edges induction hardened 60 HRc/min.)
- For cutting wire ø 1.6, no greater force needed than the one prescribed (570 N)
- Also for clenching and separating of from cables and other sensitive objects
- Serrated gripping surface enables a safe grip of objects
- Passed the torsion test without deformation (torque T = 5 Nm)
- Made according to standard ISO 5745 and EN 60900



	L	В	D	Α	c
610436	170	17	2.5	9	61
610437	200	17	2.5	9	77

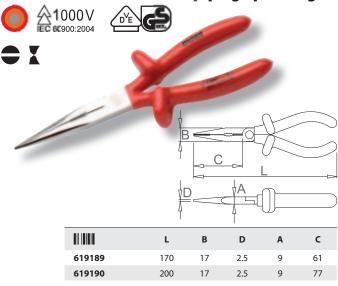
508/1VDE

Long nose pliers with side cutter and pipe grip, straight



508/1VDEDP

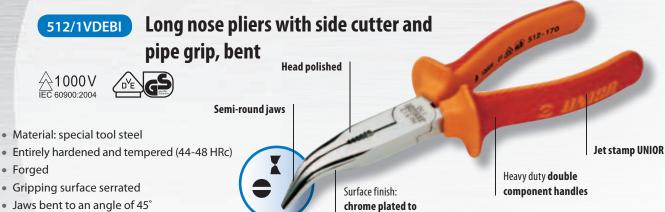
Long nose pliers with side cutter and pipe grip, straight





Difficult-to-reach places are history

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.



- Entirely hardened and tempered (44-48 HRc)
- Gripping surface serrated
- Jaws bent to an angle of 45°
- For cutting wires ø 1.6 1600 N/mm² and soft wires CuSn₆ ø 1 – 740-830 N/mm² (cutting edges induction hardened - 60 HRc/min.)
- For cutting wire ø 1.6, no greater force needed than the one prescribed (570 N)

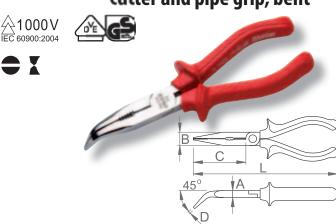


standard EN12540

512/1VDE

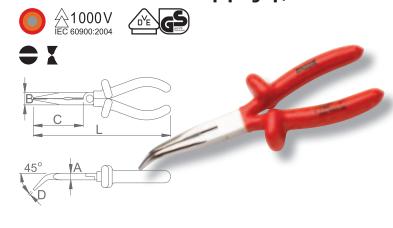
200

Long nose pliers with side cutter and pipe grip, bent



	L	В	D	Α	С
607123	170	17	2.5	9	61
607124	200	17	2.5	9	77

Long nose pliers with side **512/1VDEDP** cutter and pipe grip, bent



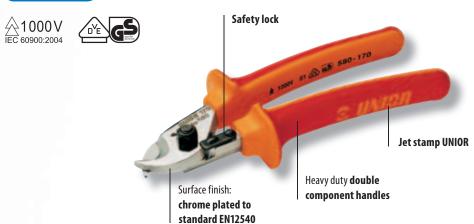
III III II	L	В	D	Α	С
619191	170	17	2.5	9	61
619192	200	17	2.5	9	77

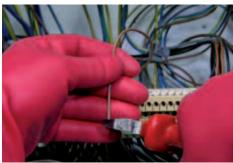
A mixture of functionality and high quality

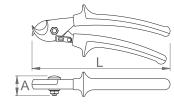
The shears are a mixture of functionality, high quality, reliability, and durability. They ensure reduced possibility of injuries on eventual contact with an electric conductor up to 1000 V.

580/1VDEBI

Cable shears







	L	Α	O
610440	170	18	10
610441	230	22	17

- Material: special tool steel
- Forged
- Entirely hardened and tempered (39 HRc/min.)
- For cutting copper and aluminium cables and other single and multiple shaped wires without steel wire ø 10 (dim. 170) and ø 17 (dim. 230) (cutting edges inductive hardened – 54 Hrc/min.)
- Enable a simple and smooth cut without damaging the cables

Caution!

• Only tools with the sign "up to 1000 V" have electric shock protection.

580/1VDE

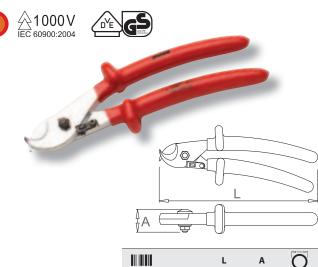
Cable shears





	L	Α	O
608502	170	18	10
608851	230	22	17

Cable shears 580/1VDEDP





Screwing with the best grip

Unior's VDE screwdrivers enable safe screwing without injuries and a better transmission, the shape of the handle enables a high torque. There is no traction during use and the soft material ensures maximum traction also when the handle is oiled.

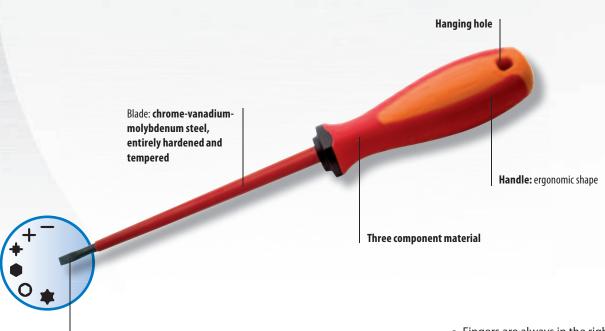
603VDETBI

Electrician's screwdriver with insulated blade VDE TBI



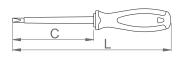


Blacken tip

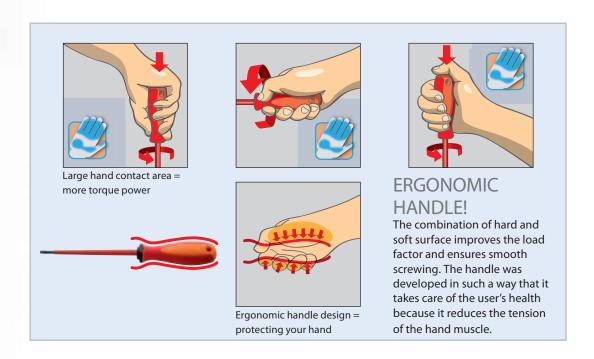


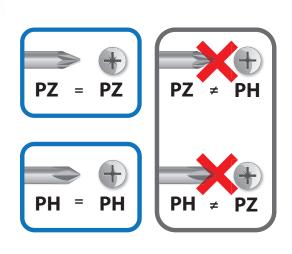
- Fingers are always in the right position during work enabling faster screwing
- The tips perfectly fit the screws and do not cause friction
- Safe and precise transmission of power
- Adaptation to different types of screws



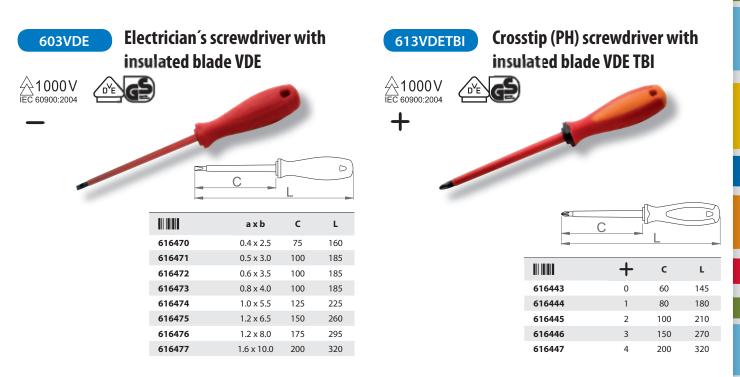


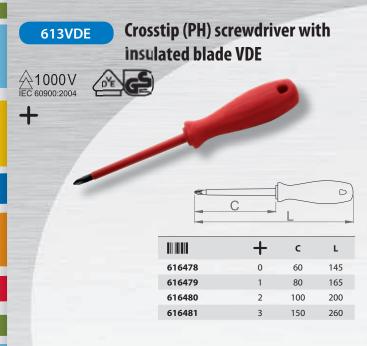
	axb	c	L
616436	0.4 x 2.5	75	160
616437	0.5 x 3.0	100	185
616438	0.6 x 3.5	100	185
616439	0.8 x 4.0	100	185
616440	1.0 x 5.5	125	225
616441	1.2 x 6.5	150	260
616442	1.2 x 8.0	175	295



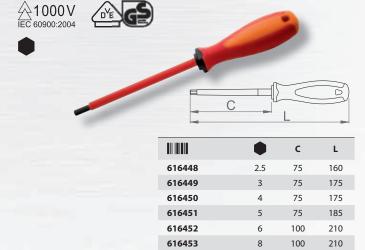


- Only the right choice of the screwdriver enables a longer useful life of the tool. It fits the entire contact surface and enables a maximal transmission.
- When the wrong screwdriver is chosen, the opposite can happen – a smaller contact surface occurs between the screwdriver and the screw increasing is also the possibility of injuries.

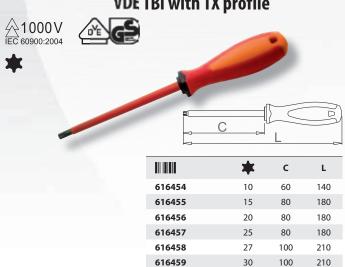




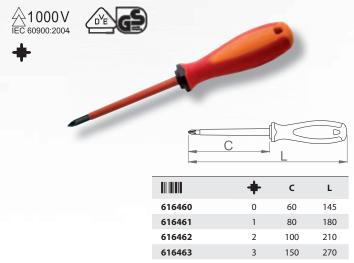
Hexagon screwdriver with insulated blade VDE TBI



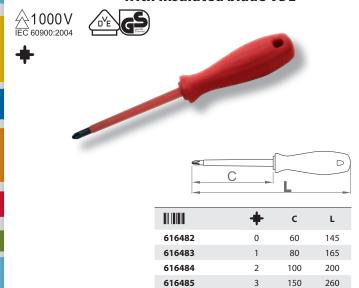
Screwdriver with insulated blade, VDE TBI with TX profile



Double crosstip (PZ) screwdriver with insulated blade VDE TBI



Double crosstip (PZ) screwdriver with insulated blade VDE



629VDETBI

Insulated socket wrench with VDE TBI handle



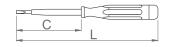
For safe testing

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

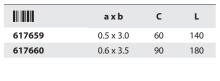
630VDE

Voltage tester 220 - 250 V





- In accordance with the VDE regulations.
 The implemented light inside the handle lights up when voltage is detected. Please use this tool in the voltage range between 220-250 V
- Dimension 140 with clip







Tool sets for easier choice

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.

110/2VDEDPCB

Set of insulated open end wrenches in carton box









	Grt.
612676	10-24
Art.	₹
110/2VDEDP	10, 11, 12, 13, 14, 15, 17, 19, 22, 24

180/2VDEDPCB

Set of insulated single offset ring wrenches in carton box









	Grt.
612677	10 - 24
Art.	<i>*</i>
180/2VDEDP	10, 11, 12, 13, 14, 15, 17, 19, 22, 24

190VDE6P11A Insulated socket set 1/2" in metal box







III II III	Grt.
612678	10-24
Art.	₹
190/2VDEDP	10, 11, 12, 13, 14, 17, 19, 22, 24
190.1VDE	275
190.4/2VDEDP	125

190VDE6P11 Insulated socket set 1/2" in metal box







	Grt.	
616704	13-19	
Art.	✓	
190/2VDEDP	13, 14, 17, 19	
190.1VDE	275	
190.4/2VDEDP	125	
192/2HXVDEDP	4, 5, 6, 8, 10	

190VDEDP6P13B Insulated socket set 1/2" in metal box









	Grt.
619420	8-27
Art.	<i>₹</i>
190.1AVDEDP	245
190.4/2VDEDP	125
190/2VDEDP	8, 10, 11, 12, 13, 14, 17, 19, 22, 24, 27

239VDEDP6P13 Insulated socket set 3/8" in metal box





1000V IEC 60900:2004



	Grt.
619419	10-19
Art.	₹
238.1AVDEDP	200
238.4/2VDEDP	125, 250
196/2BVDEDP	3/8"
238/2VDEDP	10, 11, 13, 14, 17, 19
236/2HXVDEDP	4, 5, 6



400/7VDE

Set of VDE BI pliers on carton display







This set includes a collection of 4 different types of VDE pliers:

- Combination pliers (3 pcs.)
- Wire stripping pliers (3 pcs.)
- Diagonal cutting nippers (3 pcs.)
- Long nose pliers with side cutter and pipe grip (3 pcs.)

This set can be used in the industry, workshops, and also at home. The collection of VDE pliers will become an important part of safe and qualitative work.

611937		
Art.	<i>></i>	a_{N}
406/1VDEBI	180	3
478/1VDEBI	160	3
461/1VDEBI	160	3
508/1VDEBI	200	3

447/1VDEBIST







With this 6-segment set of waterpump box joint pliers, work will become a great pleasure, because its use enables a clean grip, removable joint and so enables fast adaptation of the pliers to the current object.

615186		
Art.	1	ay?
447/1VDEBI	240	6





Set of VDE BI tools in SOS tool tray







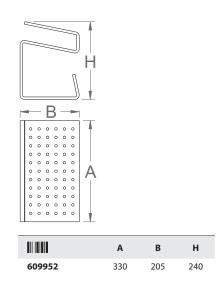
619441		
Art.	₹	and the second
613VDETBI	PH2 x 100, PH1 x 80	1
603VDETBI	(1.0 x 5.5 x 125; 0.4 x 2.5 x 75; 0.6 x 3.5 x 100)	1
461/1VDETBI	160	1
478/1VDETBI	160	1
406/1VDETBI	180	1
630VDE	140	1

978VDE

Displaystand for screwdrivers VDE

• Material: acryl glass









603CS6AVT Set of screwdrivers VDE TBI







	120 00300:2004	$\overline{}$
617653		
Art.	₹	also a
603VDETBI	$0.4 \times 2.5 \times 75$; $0.5 \times 3.0 \times 100$; $0.8 \times 4.0 \times 100$; $1.0 \times 5.5 \times 125$	1
613VDETBI	(PH1 × 80), (PH2 × 100)	1

603CS6VDETBI Set of screwdrivers VDE TBI







617042		
Art.	₹	ally-
603VDETBI	$0.4 \times 2.5 \times 75$; $0.8 \times 4.0 \times 100$; $1.0 \times 5.5 \times 125$; $1.2 \times 6.5 \times 150$	1
613VDETBI	$(PH1 \times 80), (PH2 \times 100)$	1

603S50VDETBI Set of screwdrivers VDE TBI on display stand



 $\bigwedge_{\mathsf{IEC}} 1000\,\mathsf{V}$



617046		
Art.	₹	and
603VDETBI	3.0×100 ; 4.0×100 ; 5.5×125 ; 6.5×150 ; $1.2 \times 8.0 \times 175$	5
613VDETBI	$(PH0 \times 60)$, $(PH1 \times 80)$, $(PH2 \times 100)$	5
623VDETBI	$(PZ1 \times 80)$, $(PZ2 \times 100)$	5

603CS6ATVT Set of screwdriver VDE TBI with voltage tester





617654		
Art.	₹	all s
603VDETBI	$0.5 \times 3.0 \times 100$; $0.8 \times 4.0 \times 100$; $1.0 \times 5.5 \times 125$	1
613VDETBI	(PH1 × 80), (PH2 × 100)	1
630VDE	140	1

603CS6TVDETBI Set of screwdrivers VDE TBI with voltage tester







617043		
Art.	₹	ap?
603VDETBI	$0.8 \times 4.0 \times 100$; $1.0 \times 5.5 \times 125$; $1.2 \times 6.5 \times 150$	1
613VDETBI	(PH1 × 80), (PH2 × 100)	1
630VDE	140	1

603CS6VDE

Set of screwdrivers VDE



1000 V IEC 60900:2004



617044		
Art.	₹	all s
603VDE	$0.4 \times 2.5 \times 75$; $0.8 \times 4.0 \times 100$; $1.0 \times 5.5 \times 125$; $1.2 \times 6.5 \times 150$	1
613VDE	(PH1 × 80), (PH2 × 100)	1

603CS6TVDE Set of screwdrivers VDE with voltage tester



III III III		
617045		
Art.	₹	and
603VDE	$0.8 \times 4.0 \times 100$; $1.0 \times 5.5 \times 125$; $1.2 \times 6.5 \times 150$	1
613VDE	$(PH1 \times 80), (PH2 \times 100)$	1
630VDE	140	1

603CS6AVDE Set of screwdrivers VDE





617655		
Art.	✓	ely
603VDE	$0.4 \times 2.5 \times 75$; $0.5 \times 3.0 \times 100$; $0.8 \times 4.0 \times 100$; $1.0 \times 5.5 \times 125$	1
613VDE	(PH1 × 80), (PH2 × 100)	1

603CS6ATVD Set of screwdrivers VDE with voltage tester





617656		
Art.	✓	all
603VDE	$0.5 \times 3.0 \times 100$; $0.8 \times 4.0 \times 100$; $1.0 \times 5.5 \times 125$	1
613VDE	$(PH1 \times 80), (PH2 \times 100)$	1
630VDE	140	1

603S50VDE Set of screwdrivers VDE on display stand





617047		
Art.	₹	ap.
603VDE	3.0×100 ; 4.0×100 ; 5.5×125 ; 6.5×150 ; $1.2 \times 8.0 \times 175$	5
613VDE	$(PH0 \times 60), (PH1 \times 80), (PH2 \times 100)$	5
623VDE	(PZ1 × 80), (PZ2 × 100)	5

620CS6VDETBI Set of insulated hexagon screwdrivers VDE TBI





	IEC 00900.2004	
617048		
Art.	<i>*</i>	al
620VDETBI	2.5; 3; 4; 5; 6; 8	1

Set of insulated screwdrivers VDE TBI with TX profile







617049		
Art.	<i>></i>	ap.
621VDETBI	(TX 10, 15, 20, 25, 27, 30)	1



Set of insulated socket 629CS6VDETBI wrenches with **VDE TBI handle**







617050		
Art.	<i>></i>	all
629VDETBI	5.5; 6; 7; 8; 10; 13	1

905VDE

Tool set VDE in bag







617570		
Art.	<i>></i>	Egy.
406/1VDE	180	1
461/1VDE	160	1
478/1VDE	160	1
472/1VDE	160	1
556A	160	1
753P	150	1
710P	3	1
603VDE	2.5×75 ; 4.0×100 ; 5.5×125	1
613VDE	(PH1 \times 80), (PH2 \times 100)	1
630VDE	0.5 x 3.0	1

905VDEBI

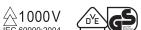
Tool set VDE BI in bag



Tool set VDE in bag







IEC 60900:2004	- Option School	
617571		
Art.	✓	an
406/1VDEBI	180	1
461/1VDEBI	160	1
478/1VDEBI	160	1
472/1VDEBI	160	1
753VDE	150	1
358VDE	180	1
603VDETBI	2.5×75 ; 4.0×100 ; 5.5×125	1
613VDETBI	$(PH1 \times 80), (PH2 \times 100)$	1
630VDE	(0.5×3.0)	1
710P	3	1







EC 60900.2004		
617572		
Art.	<i>*</i>	an
461/1VDE	160	1
406/1VDE	180	1
603VDE	$2.5 \times 75; 4.0 \times 100$	1
613VDE	PH2 × 100	1
630VDE	0.5×3.0	1

906VDEBI

Tool set VDE BI in bag



1000 V IEC 60900:2004



11111111		
617573		
Art.		aps.
461/1VDEBI	160	1
406/1VDEBI	180	1
603VDETBI	2.5×75 ; 4.0×100	1
613VDETBI	PH2 × 100	1
630VDE	0.5 × 3.0	1

971/3VDE

Tool set 343 pcs in tool case 970U3







612548	
Art.	a _l y
1000AD	1

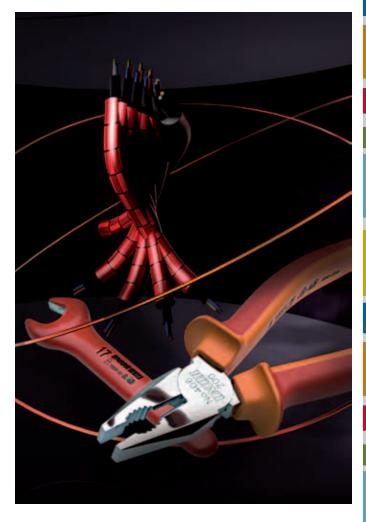
971/2VDE

Tool set VDE 52 pcs in tool case 970U2





608541
Art.
1000T 1





964/15SOS

Set of VDE BI tools in SOS tool tray





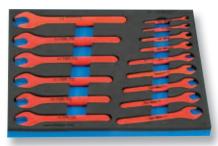


964/15SOS

> 406/1VDEBI (180), 461/1VDEBI (160), 478/1VDEBI (160), 603VDETBI (0,4 \times 2,5 \times 75, 0,6 \times 3,5 \times 100, 1,0 \times 5,5 \times 125), **613VDETBI** (PH1 \times 80, PH2 \times 100), 630VDE (140), vl964/15SOS

964VDE1

Set of insulated open end wrenches in SOS tool tray



Nο 964VDE1 6 - 24 / 15

> 110/2VDEDP (6, 7, 8, 10, 12, 13, 14, 15, 17, 19, 20, 21, 22, 23, 24), VL964VDE1

964/11SOS

Set of crimp-grip pliers with terminals in SOS tool trays



Nº 621065 964/11SOS 281

> 426/3A (220), 423.1R (3, 5), 423.1B (4, 6), 423.1J (5, 8), 423.2R (4), 423.2B (4), **423.3R** (1.9), **423.3B** (1,9), **423.3J** (2,8), **423.5B** (5), **423.7R** (6,3 x 0,8), 423.7B (6,3 x 0,8), VL964/11SOS

964VDE2

Set of insulated offset ring wrenches in SOS tool tray



dh Nο 621784 964VDE2 10 - 24 / 11

180/2VDEDP (10, 11, 12, 13, 14, 15, 17, 19, 21, 22, 24), VL964VDE2

964/12SOS

Set of crimping pliers with terminals in SOS tool trays



964/12SOS

> 425/4A (240), 423.1R (3, 5), 423.1B (4, 6), 423.1J (5, 8), 423.2R (4), 423.2B $\textbf{(4), 423.3R}\ \textbf{(1,9), 423.3B}\ \textbf{(1,9), 423.3J}\ \textbf{(2,8), 423.5B}\ \textbf{(5), 423.7R}\ \textbf{(6,3}\times\textbf{0,8),}$ 423.7B (6,3 x 0,8), VL964/12SOS

964VDE3

Set of insulated pliers in **SOS tool tray**



964VDE3

> 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

964VDE4

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

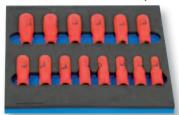


IIIIII № **& 621788 964VDE4** 5

264VDEDP (5-50, 20-100, 60-220), **196/2BVDEDP** (3/8", 1/2")

964VDE5L

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

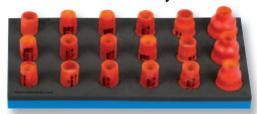


Nº **№** 621792 964VDE5L 14

190/2LVDEDP (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24), **VL964VDE5L**

964VDE5

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



№ № 621790 964VDE5 8 - 27 / 18

190/2VDEDP (8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32)

964VDE6

Set of insulated hexagon T-wrenches in SOS tool tray



621796 964VDE6 4-8/4 220TVDE (4, 5, 6, 8), VL964VDE6

964VDE5A

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

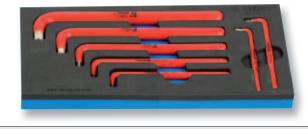


IIIIIII № **E 621794 964VDE5A** 4

190.1AVDEDP (1/2"), 190.4/2VDEDP (250, 125), 190.5/2VDEDP (250), VL964VDE5A

964VDE7

Set of insulated hexagon wrenches SOS tool tray



Nº **№** 621798 964VDE7 7

220/3LVDEDP (3, 4, 5, 6, 8, 10, 12), VL964VDE7



964VDE8A

Set of insulated flat screwdriver VDETBI in SOS tool tray



Nº **№** 621800 964VDE8A 11

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** (140, 180), **VL964VDE8A**

964VDE8D

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

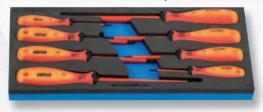


№ № 621806 964VDE8D TX 10 - TX 30 / 6

621VDETBI (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30), VL964VDE8D

964VDE8B

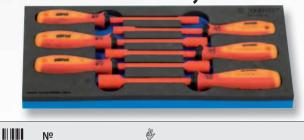
Set of insulated crosstip screwdriver VDETBI in SOS tool tray



> **613VDETBI** (PH0 × 60, PH1 × 80, PH2 × 100, PH3 × 150), **623VDETBI** (PZ0 × 60, PZ1 × 80, PZ2 × 100, PZ3 × 150), **VL964VDE8B**

964VDE8E

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



621808 964VDE8E 5.5-13/6

629VDETBI (5,5, 6, 7, 8, 10, 13), **VL964VDE8E**

964VDE8C

Set of insulated hexagon screwdriver VDETBI in SOS tool tray



620VDETBI (2,5, 3, 4, 5, 6, 8), VL964VDE8C

964VDE9

Set of insulated tools in SOS tool tray



№ № 621810 964VDE9 10

385VDE (180), **385AVDE** (140), **385BVDE** (140), **750VDEDP** (460), **753VDEDP** (150), **1340VDEDP** (150), **1341VDEDP** (150), **1350VDE** (165), **1351VDE** (160), **1352VDE** (140), **VL964VDE9**

Even bigger offer

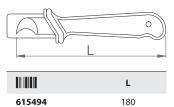
Among all other already mentioned VDE tools, the Unior VDE program also includes other tools like tweezers, insulated knives, insulated saws etc. All those tools are in accordance with the European standard EN 60900:2004.

385VDE

Insulated knife



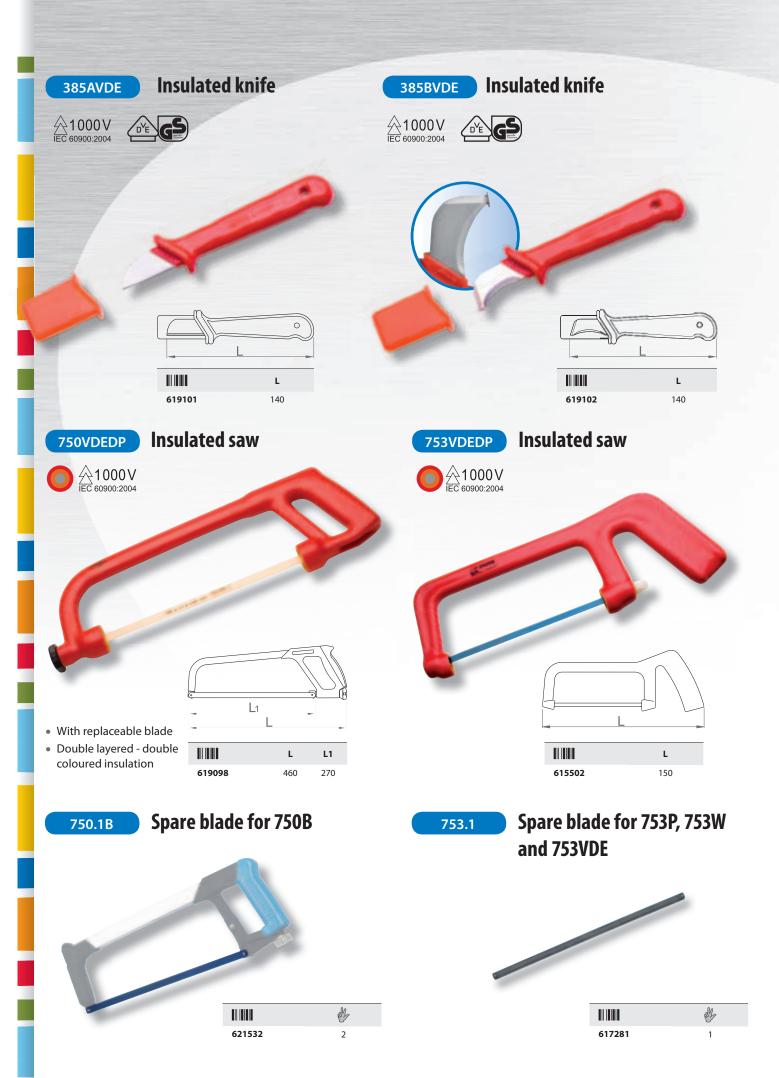




- Blade: stainless steel
- Handle: polyamide B20







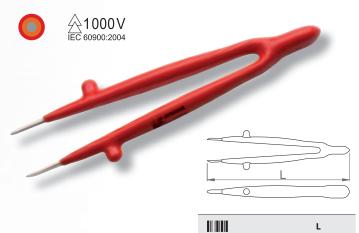
Two types of VDE tweezers:

- Straight with ribbed clenching surface
- Bent
- Material: stainless steel



1341VDE

Straight tweezers



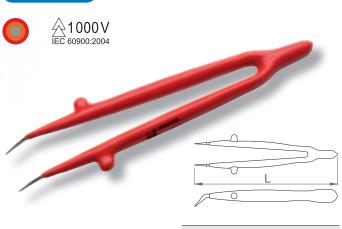
616847

150



1351VDE

Plastic clamps



Bent tweezers



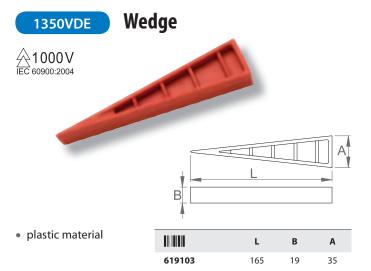


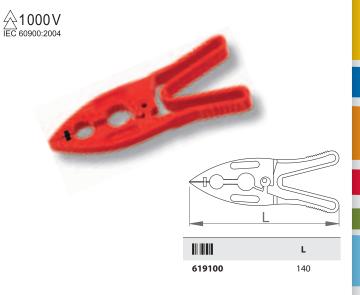
- Plastic material
- For holding of insulated awning on their place
- Fully insulated
- Prevention of short-circuits

III III III	L
619099	160

1352VDE

Plastic clamps









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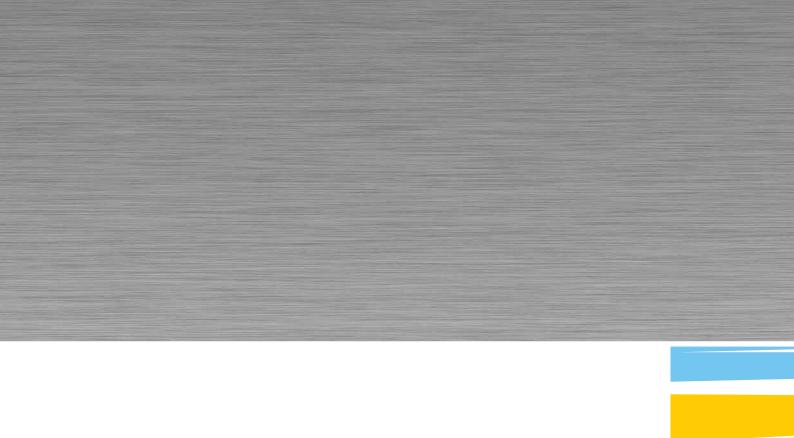








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