

Insulated tools



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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.



Safe tool



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.

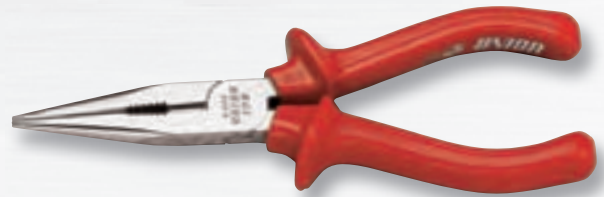
VDE BI line

- 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



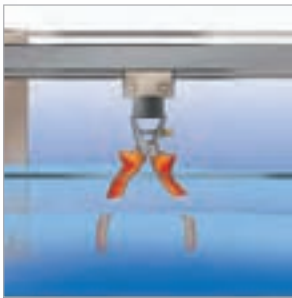
Flame retardancy test:

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 $70\text{ °C} \pm 2\text{ °C}$ 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 $-25 \pm 3\text{ °C}$ (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 $23 \pm 5\text{ °C}$. 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

	dimension
	tube diameter in mm
	dimension in mm
	wire diameter
	number of items
	socket - 6 point
	socket - 12 point
	1/2" internal 4-point
	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
	cutting jaws
	round jaws
	straight half-round jaws
	stripping jaws

Contact

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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.

110/2VDEDP

Insulated single open end wrench

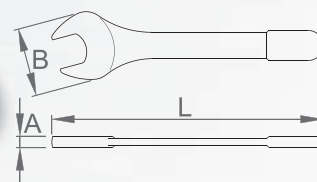


Head: chrome plated
according to EN12540

Material: chrome
vanadium 31CrV3

Double layered insulation:
protection from temperature,
electrical, mechanical, and
other risks

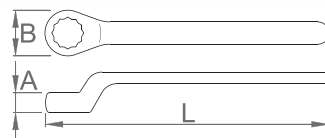
- Proper heat treatment (ISO 1711-1, DIN 899)
- Durability in relation to the required torques (ISO 1711-1, DIN 899)
- Opening in accordance with ISO 691 (DIN 475)



Barcode	Size	L	B	A
618370	6	74	16	6.9
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
612184	24	224	56	14
617802	27	235	59	15
618336	30	267	66.1	15.8
618337	32	283	71.4	17.6

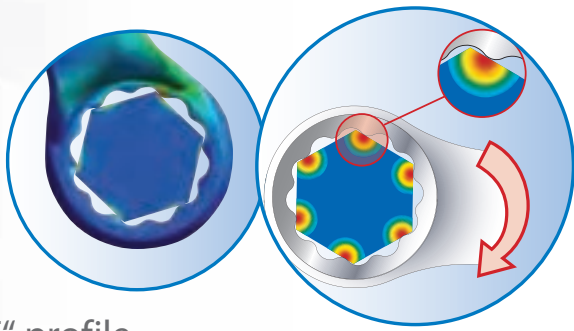
180/2VDEDP

Insulated single offset ring wrench



- 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)

Barcode	Size	L	B	A
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



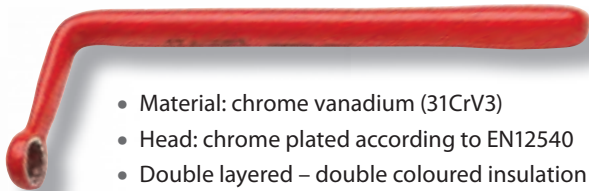
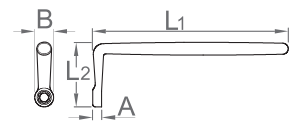
„LIFE“ profile

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

Barcode	Size	L1	L2	B	A
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**

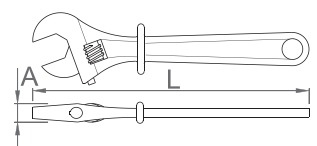


The flat shape also enables work in small and tight places.



The wrench sustains both directions of rotation.

Measuring scale for quick determination of the screw and nut size



Barcode	Size	L	A	mm
616849	200	215	35	28
616850	250	265	35	32
616851	300	310	36	38

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.

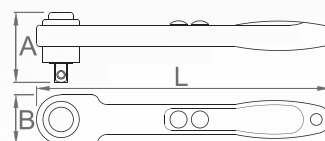
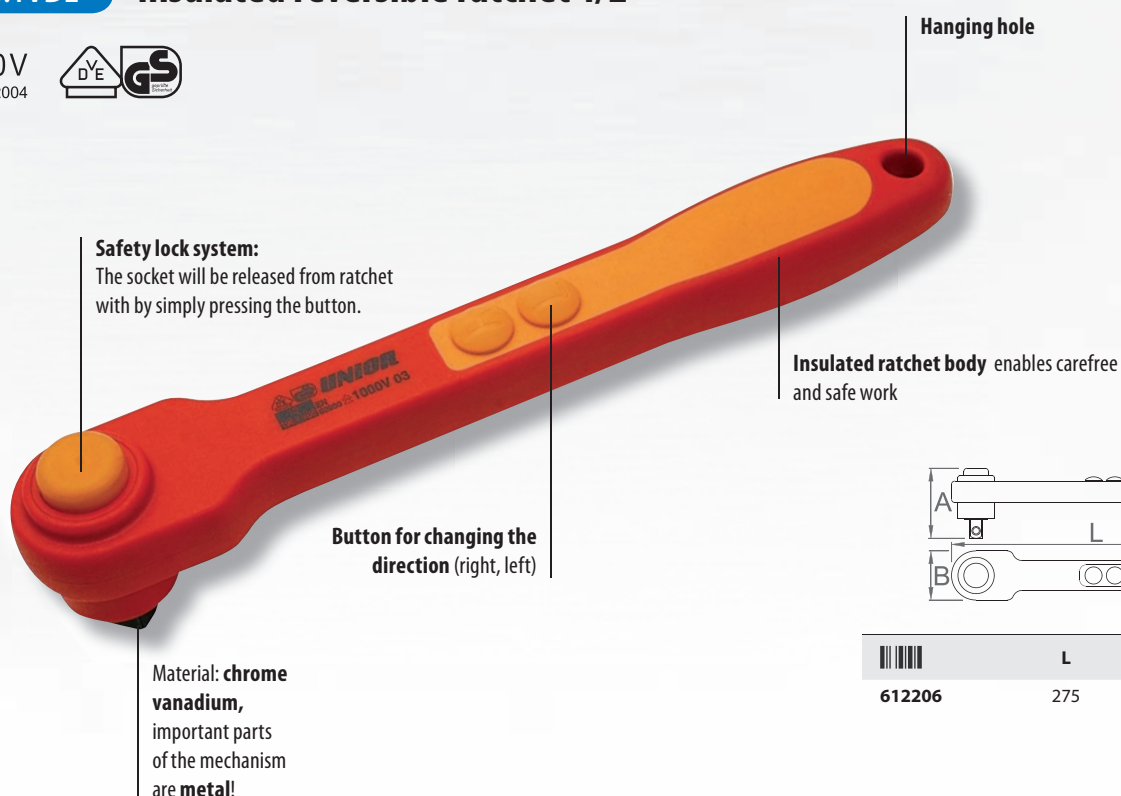
190.1VDE

Insulated reversible ratchet 1/2"

1000V
IEC 60900:2004



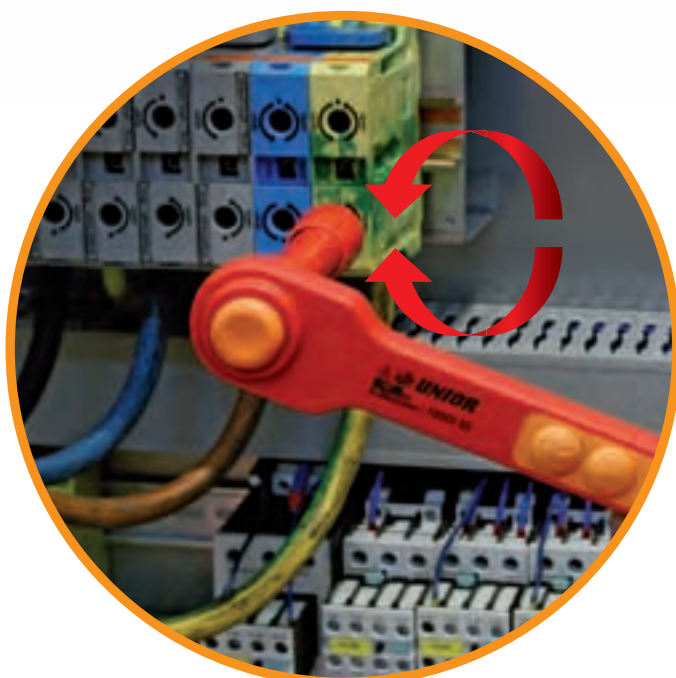
1/2"



	L	B	A
612206	275	66	46

1/2" profile

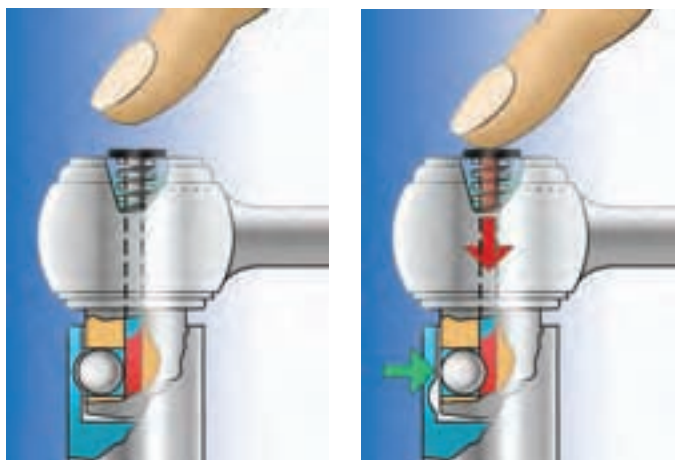
- With 36 teeth
- Minimal angle of turn 10°
- 30% higher torque upon DIN standard
- Fast, simple, and safe screwing
- Fit with our sockets 190/2VDEDP
- Screwing in the clockwise direction and other direction



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



238.1AVDEDP

Insulated reversible ratchet 3/8"



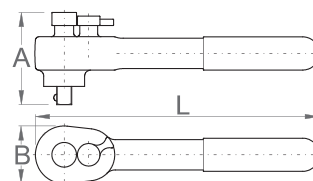
1000V
IEC 60900:2004



Insulated with **double layered – double coloured insulation**. The insulated ratchet body is resistant to electrical shocks and therefore enables carefree and safe work.



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



619118	L	B	A
	200	72	42

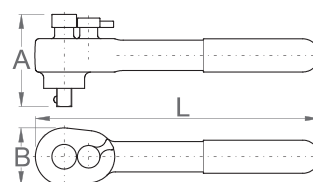


190.1AVDEDP

Insulated reversible ratchet 1/2"



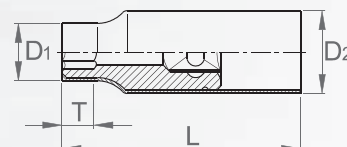
1000V
IEC 60900:2004



619119	L	B	A
	245	80	49

190/2VDEDP

Insulated socket 1/2"

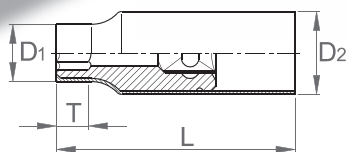


- Head: chrome plated according to EN12540
- Material: chrome vanadium
- Drop forged, entirely hardened and tempered
- Durability in relation to the required torques (ISO 1711-1, DIN 899)
- Proper heat treatment (ISO 1711-1, DIN 899)
- The hexagon profile is in accordance with the prescribed standard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

Barcode	Ø	L	D1	D2	T
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

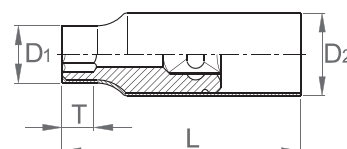
Insulated socket 1/2", long type



Barcode	12	L	D1	D2	T
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"



Barcode	Ø	L	D1	D2	T
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
619166	17	49	28.6	23	15
619167	19	49	31.4	23	17
619168	22	51	35	23	17

190.4/2VDEDP

Insulated extension bar 1/2"



- 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



Barcode	Length (mm)	Length (in)	Diameter (mm)
612204	250	144	28
612205	125	268	27

238.4/2VDEDP

Insulated extension bar 3/8"



- 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.



Barcode	Length (mm)	Length (in)	Diameter (mm)
619169	125	144	17
619170	250	268	17

190.5/2VDEDP

Insulated offset handle 1/2"



Material: **chrome vanadium**

Surface finish:
chrome plated
according to
EN12540

- 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.



Barcode	L1 (mm)	L2 (mm)
615178	250	72



192/2HXVDEDP

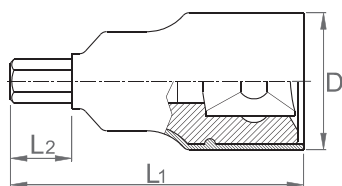
Insulated hexagonal screwdriver socket 1/2"



Bit: special tool steel

Material: socket – chrome molybdenum

Insulated with **double layered – double coloured insulation**



Barcode	Hex	L1	L2	D
615173	4	76	18	27
615174	5	76	18	27
615175	6	76	18	27
615176	8	76	18	27
615177	10	76	18	27

236/2HXVDEDP

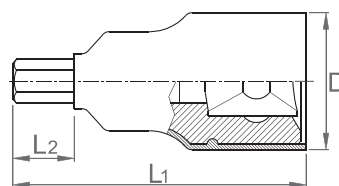
Insulated hexagonal screwdriver socket 3/8"



Bit: special tool steel

Material: socket – chrome molybdenum

Insulated with **double layered – double coloured insulation**



Barcode	Hex	L1	L2	D
619171	4	67	6	23.6
619172	5	67	7.4	24.4
619173	6	67	8.5	23.4
619174	8	67	9.4	24
619175	10	67	10.2	23.4

196/2BVDEDP

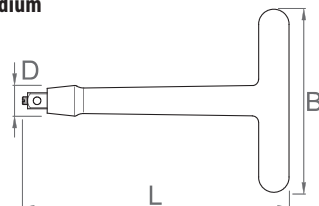
Insulated T-handle



Head: chrome plated according to EN12540

Insulated with **double layered – double coloured insulation**

Material: chrome vanadium



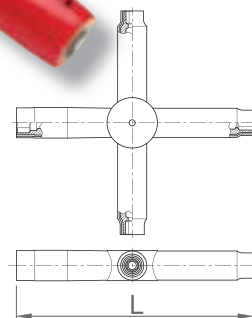
Barcode	Hex	L	D	B
619116	3/8"	210	20	145
619117	1/2"	210	24	145

213/2VDEDP

Insulated four way rim wrench



Insulated with **double layered – double coloured insulation**



Barcode	Hex	Hex	Hex	Hex	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

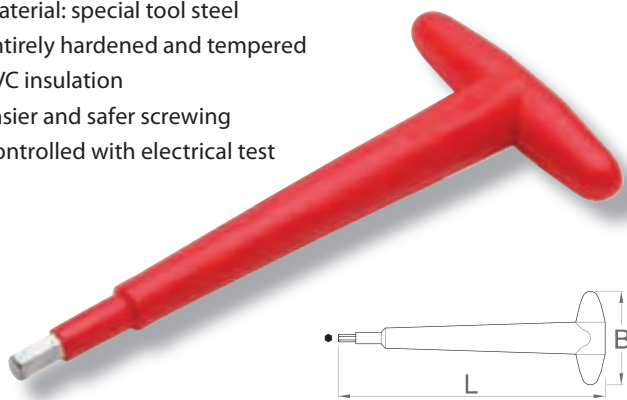
220TVDE

Insulated hexagon T-wrench

1000V
IEC 60900:2004



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



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

196/2LVDEDP

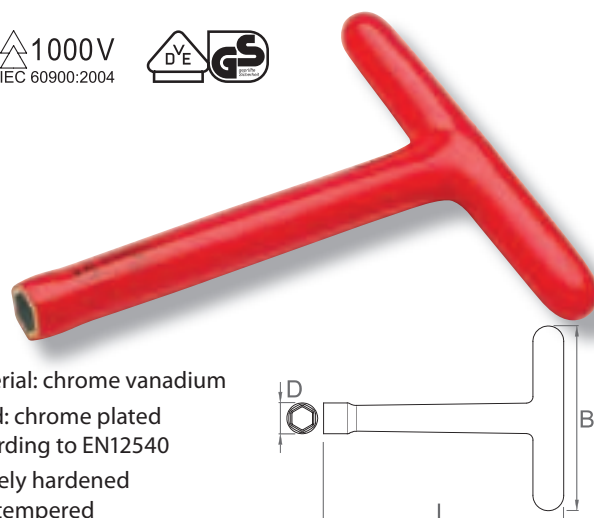
Insulated socket wrench with T-handle, long type



1000V
IEC 60900:2004



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



Barcode	Socket	L	B	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



1000V
IEC 60900:2004



Insulated with **double layered – double coloured insulation**

- Material: chrome vanadium
- Entirely hardened and tempered

Barcode	Hexagon	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

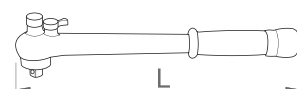
Insulated torque wrench 1/2"



1000V
IEC 60900:2004



- 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



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

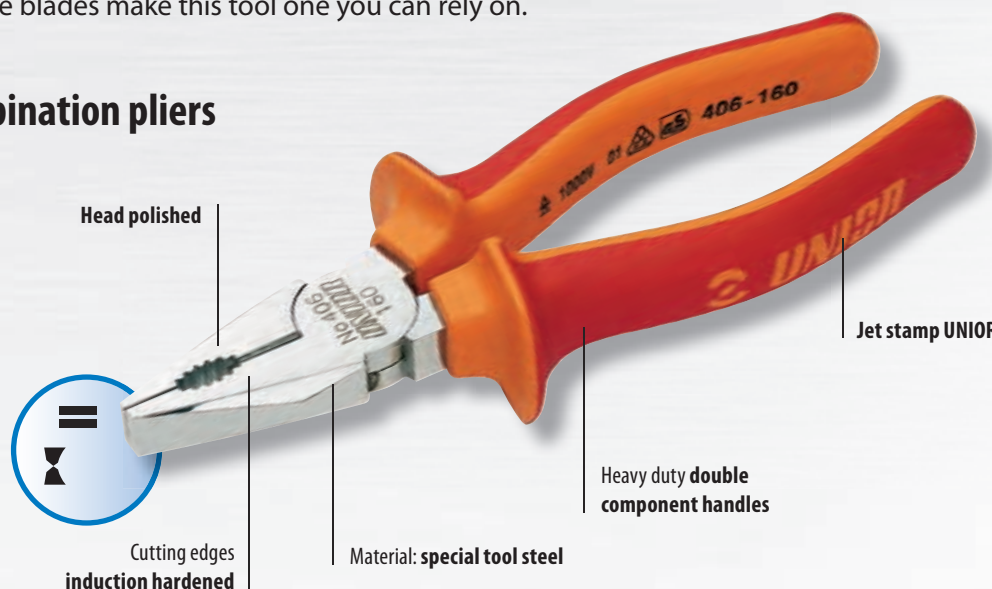
When you can rely on your tools

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.

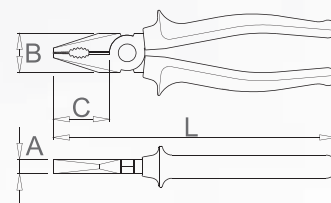
406/1VDEBI

Combination pliers

1000V
IEC 60900:2004



- Surface finish: chrome plated to standard EN12540
- Forged
- Entirely hardened and tempered (hardness 44-48 HRC)
- For cutting wires $\varnothing 1,6$ 1600 N/mm² and soft wires CuSn₆ $\varnothing 1-740-830$ N/mm²
- Cutting edges induction hardened (60 HRC/min.)
- For cutting wire $\varnothing 1,6$, 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

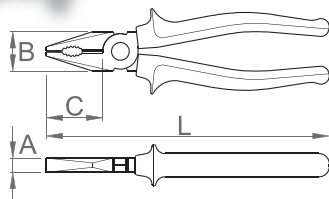


	L	B	C	A
610421	160	24	35	9.5
610422	180	27	38	10
610423	200	29	41	10.5
610424	220	32	47	11

406/1VDE

Combination pliers

1000V
IEC 60900:2004

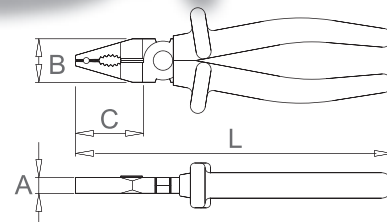


	L	B	C	A
605007	140	23	32	8
605008	160	24	35	9.5
605009	180	27	38	10
605010	200	29	41	10.5
605011	220	32	47	11

406/1VDEDP

Combination pliers

1000V
IEC 60900:2004

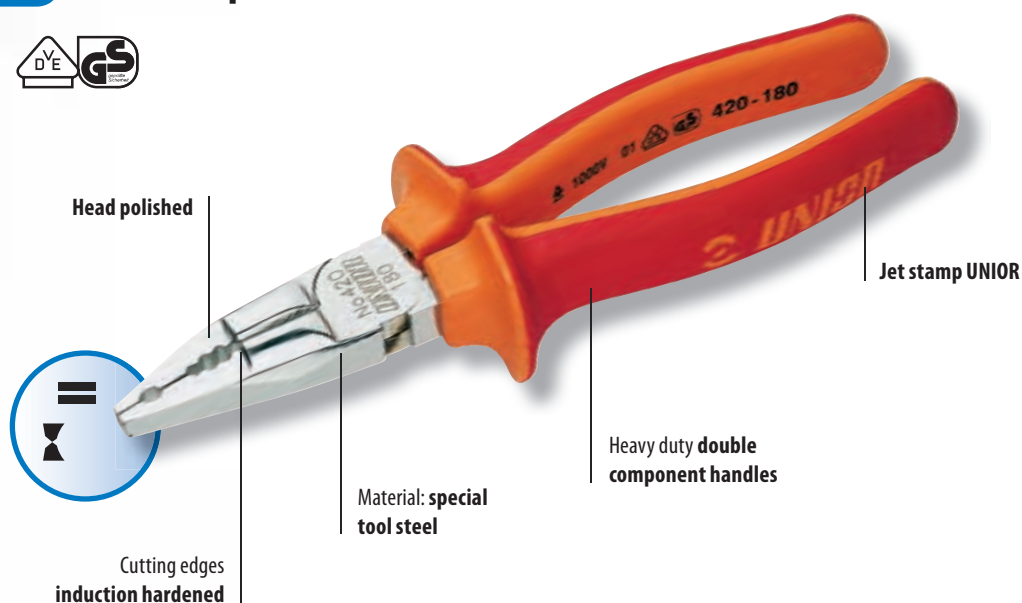


	L	B	C	A
619177	140	23	32	8
619178	160	24	35	9.5
619179	180	27	38	10
619180	200	29	41	10.5
619181	220	32	47	11

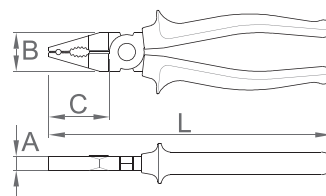
420/1VDEBI

Linmen's pliers

1000V
IEC 60900:2004



- Surface finish: chrome plated to standard EN12540
- Forged
- Entirely hardened and tempered (hardness 44-48 HRC)
- For cutting wires $\varnothing 1,6$ 1600 N/mm² and soft wires CuSn₆ $\varnothing 1 - 740-830$ N/mm²
- Cutting edges induction hardened (60 HRC/min.)
- For cutting wire $\varnothing 1,6$, 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.)

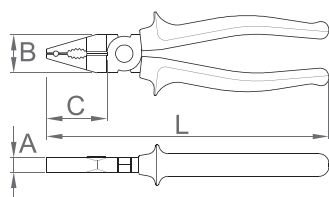


610425	L	B	C	A
	180	24	45	11

420/1VDE

Linmen's pliers

1000V
IEC 60900:2004



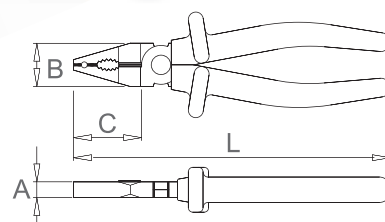
607125	L	B	C	A
	180	24	45	11

420/1VDEDP

Linmen's pliers



1000V
IEC 60900:2004



619176	L	B	C	A
	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 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.

447/1VDEBI

Insulated waterpump box joint pliers

1000V
IEC 60900:2004



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



Jaw aperture adjustable in 7 position

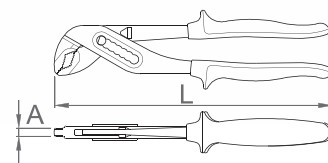


Jet stamp UNIOR

Heavy duty double component handles



- Material: chrome vanadium
- Entirely oil hardened
- Entirely hardened and tempered (hardness of pliers: 45-49 HRC)
- Teeth induction hardened (min. 52 HRC)
- Surface finish: chrome plated to standard EN12540
- Pliers are adjustable to pipes and nuts up to \varnothing 35 mm
- One-handed use
- Safe grip
- Made according to standard ISO 8976 and EN 60900



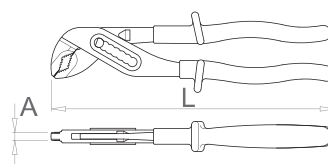
611993	L	A	35
	240	6.5	

447/1VDEDP

Insulated waterpump box joint pliers



1000V
IEC 60900:2004



619199	L	A	35
	240	6.5	

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.

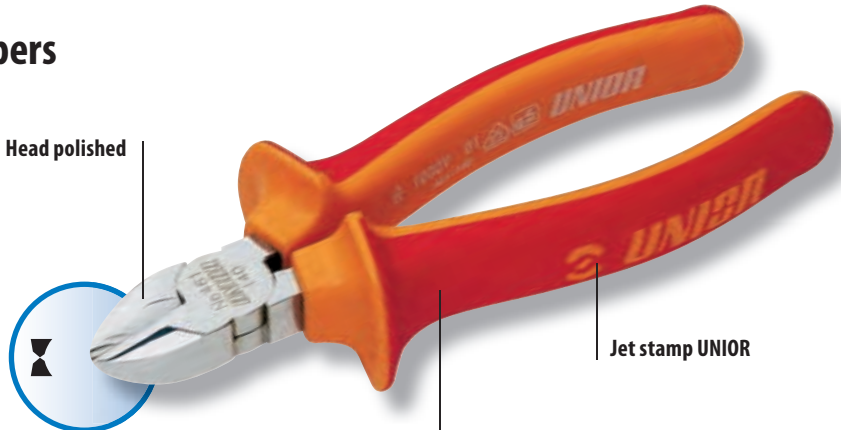
461/1VDEBI Diagonal cutting nippers

1000V
IEC 60900:2004



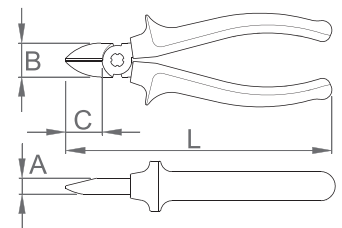
- Material: special tool steel
- Surface finish: chrome plated to standard EN12540
- Forged
- Entirely hardened and tempered (hardness of pliers: 44-48 HRC)
- For work with electrical installations up to 1000 V
- The specially formed jaw enables cutting wires in difficult-to-reach places
- Sharp and precise cutting edges enable exact cutting
- For cutting wires \varnothing 1.8 2150 N/mm² and soft wires Cu-ETP \varnothing 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 \varnothing 1.6, no greater force needed than the one prescribed (460 N)
- Made according to standard ISO 5749 and EN 60900

Head polished

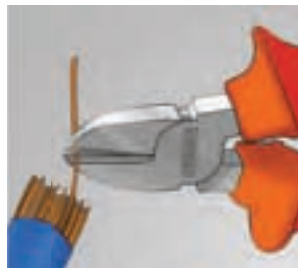


Jet stamp UNIOR

Heavy duty double component handles



	L	B	C	A
610426	140	19	18	9.5
610427	160	22.5	22	10



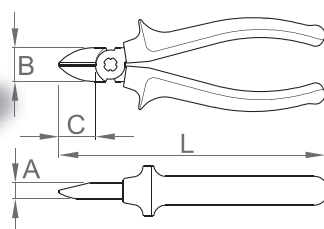
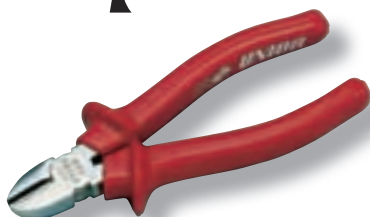
Before use under high voltage always check the insulated tools and watch out for cut wire after cutting. Therefore it is suggested to use safety goggles and gloves when using the tool.

Cutting capability (10 N = 1 kg)

Dim.	Wire max. 1600 N/mm ² Max. diameter (mm)	Wire max. 650 N/mm ² Max. diameter (mm)
140	1.6	2.0
160	1.6	2.5

461/1VDE Diagonal cutting nippers

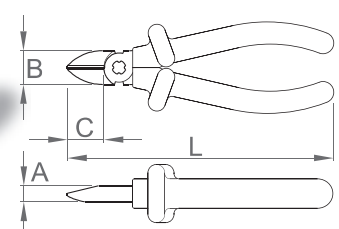
1000V
IEC 60900:2004



	L	B	C	A
605012	140	19	18	9.5
605013	160	22.5	22	10

461/1VDEDP Diagonal cutting nippers

1000V
IEC 60900:2004



	L	B	C	A
619193	140	19	18	9.5
619194	160	22.5	22	10

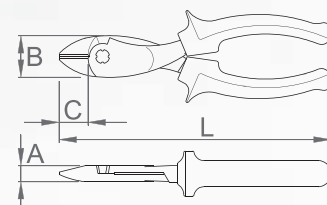
466/1VDEBI

Heavy duty diagonal cutting nippers

1000V
IEC 60900:2004



- 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 $\varnothing 1.8 - 2150 \text{ N/mm}^2$ and soft wires Cu-ETP $\varnothing 0.5$ (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 $\varnothing 1.6$, no greater force needed than the one prescribed (to 1020 N)
- Made according to standard ISO 5749 and EN 60900

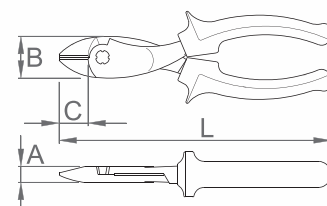


	L	B	C	A
610428	180	28	20	11
611756	200	27	21	11

466/1VDE

Heavy duty diagonal cutting nippers

1000V
IEC 60900:2004



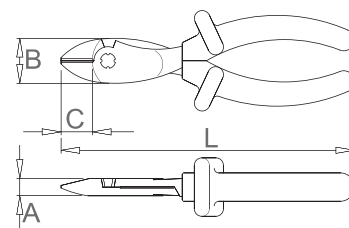
	L	B	C	A
605212	180	28	20	11

466/1VDEDP

Heavy duty diagonal cutting nippers



1000V
IEC 60900:2004



	L	B	C	A
619195	180	28	20	11
619196	200	27	21	11

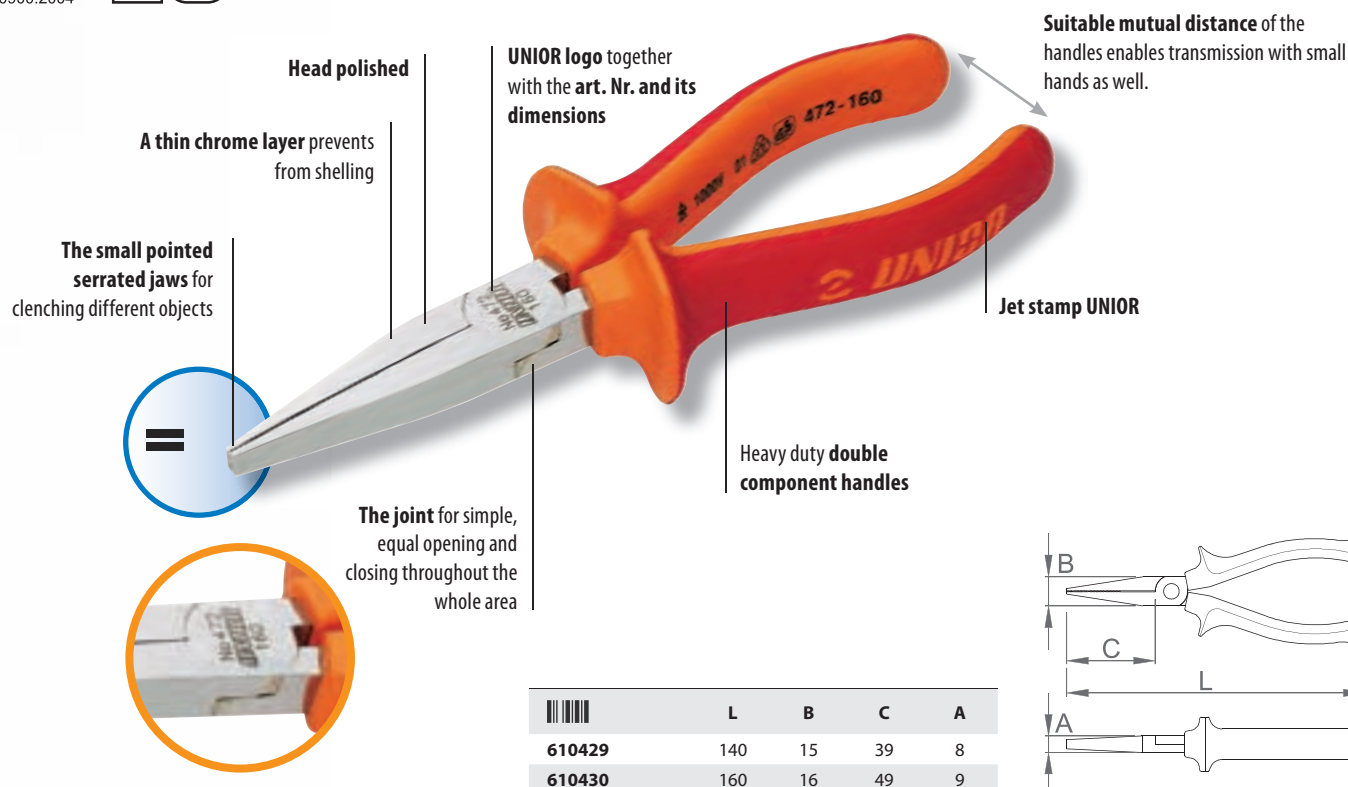
Very precise and durable

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 $T = 5 \text{ Nm}$)
- Made according to standard ISO 5745 and EN 60900

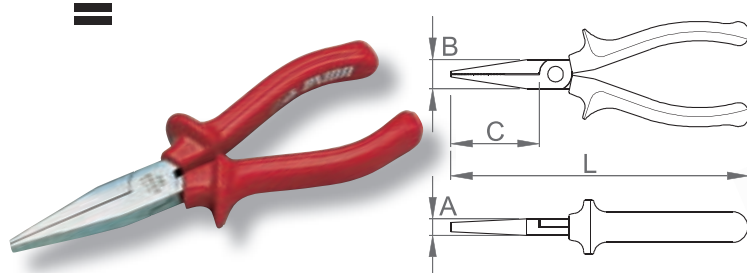
472/1VDEBI Long flat nose pliers

1000V
IEC 60900:2004



472/1VDE Long flat nose pliers

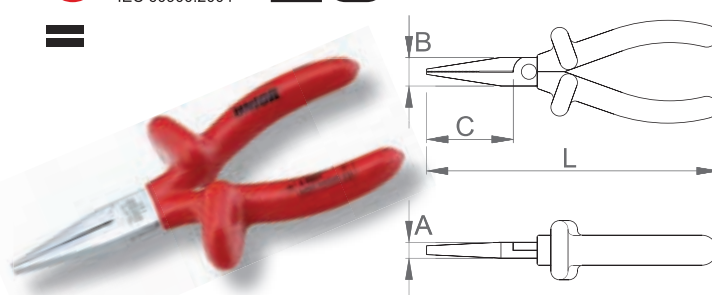
1000V
IEC 60900:2004



	L	B	C	A
605014	140	15	39	8
605015	160	16	49	9

472/1VDEDP Long flat nose pliers

1000V
IEC 60900:2004



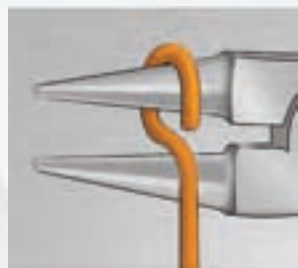
	L	B	C	A
619182	140	15	39	8
619183	160	16	49	9

Quality in shape

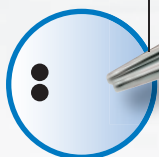
The production of the VDE pliers is based on constant quality control. In each stage of production, the pliers are individually checked and tested to prevent the possibility of failures on the tools and increases safety during use. The advantage of long round nose pliers is its exact clenching, bending,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

476/1VDEBI Long round nose pliers

1000V
IEC 60900:2004



Surface finish: chrome plated to standard EN12540



Long round points

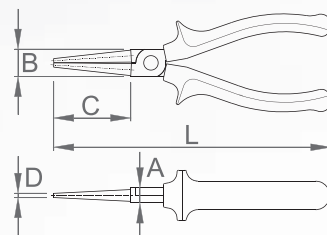
Head polished

Long, round jaws

Jet stamp UNIOR

Heavy duty double component handles

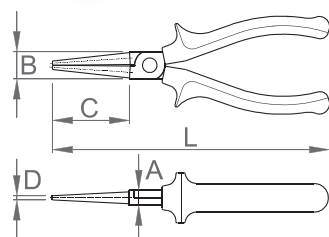
- Material: special tool steel
- Forged
- Entirely hardened and tempered (44-48 HRC)
- Minor possibility of damaging wires
- Long points enable reaching of wires in hard-to-reach places
- Passed the torsion test without deformation (torque $t = 5 \text{ Nm}$)
- Made according to standard ISO 5745 and EN 60900



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

476/1VDE Long round nose pliers

1000V
IEC 60900:2004

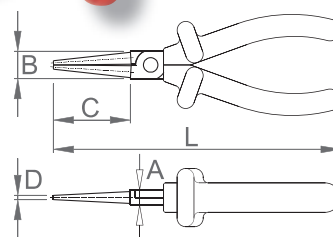


	L	B	A	C	D
605016	140	15	9	39	2
605017	160	16	10	49	2.5

476/1VDEDP Long round nose pliers



1000V
IEC 60900:2004



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

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.

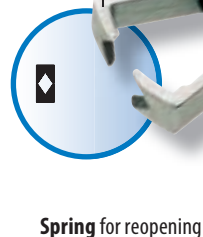
478/1VDEBI Wire stripping pliers

1000V
IEC 60900:2004



The adjustment screw enables adjustment of the pliers to different sizes of wires.

Surface finish: chrome plated to standard EN12540

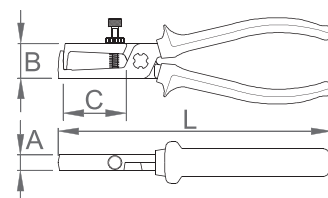


Head polished

Heavy duty double component handles

Jet stamp UNIOR

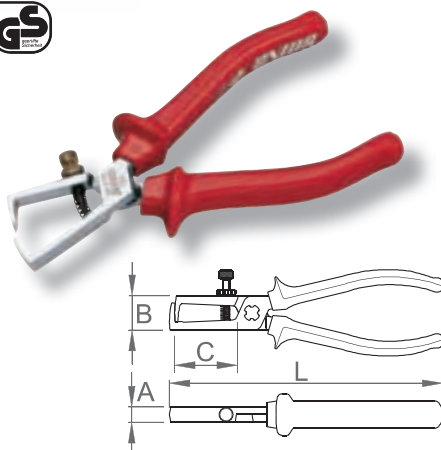
- Material: special tool steel
- Forged
- Entirely hardened and tempered (44-48 HRC)
- For single, multiple, and specially formed wires with plastic or rubber insulation
- Simple adaptation to the wire diameter
- Stripping capacity: up to max 0.6-10 mm²



Barcode	L	mm ²	B	C	A
610433	160	0.6 - 10	18	40	9

478/1VDE Wire stripping pliers

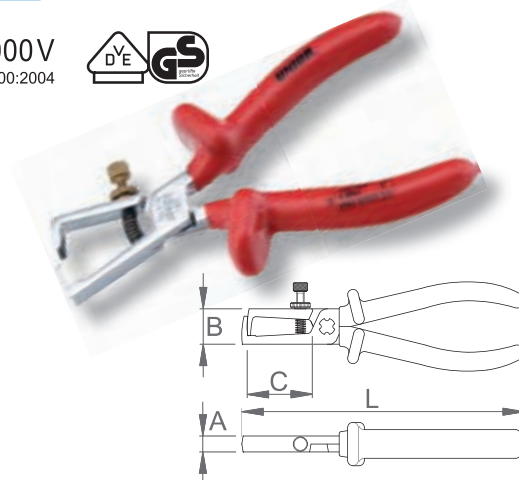
1000V
IEC 60900:2004



Barcode	L	mm ²	B	C	A
605018	160	0.6 - 10	18	40	9

478/1VDEDP Wire stripping pliers

1000V
IEC 60900:2004



Barcode	L	mm ²	B	C	A
619186	160	0.6 - 10	18	40	9

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.

506/1VDEBI Long nose pliers with side cutter

1000V
IEC 60900:2004



Gripping surface serrated

Head polished

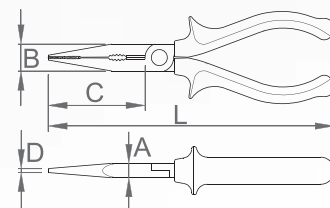
Surface finish: **chrome plated to standard EN12540**

Heavy duty **double component handles**

Jet stamp UNIOR

Long, round jaws

- Material: special tool steel
- Forged
- Entirely hardened and tempered (44-48 HRC)
- For working with electronic devices – for clenching and cutting
- For cutting wires $\varnothing 1.6 - 2600 \text{ N/mm}^2$ and soft wires $\text{CuSn}_6 \varnothing 1 - 740-830 \text{ N/mm}^2$ (cutting edges induction hardened – 60 HRC/min.)
- For cutting wire $\varnothing 1.6$, 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 $T = 5 \text{ Nm}$)
- Made according to standard ISO 5745 and EN 60900

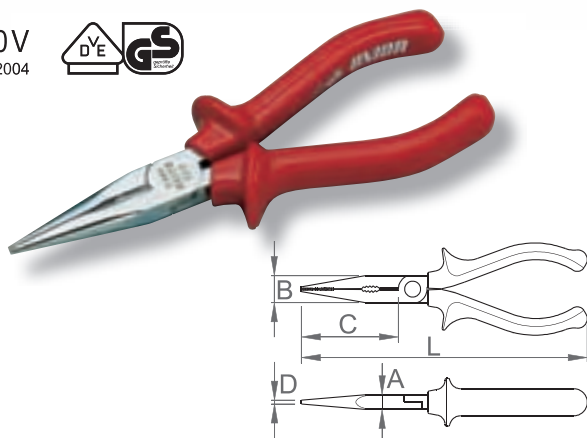


	L	B	D	A	C
610434	140	15	2	8	39
610435	160	16	2.5	9	49

506/1VDE

Long nose pliers with side cutter

1000V
IEC 60900:2004



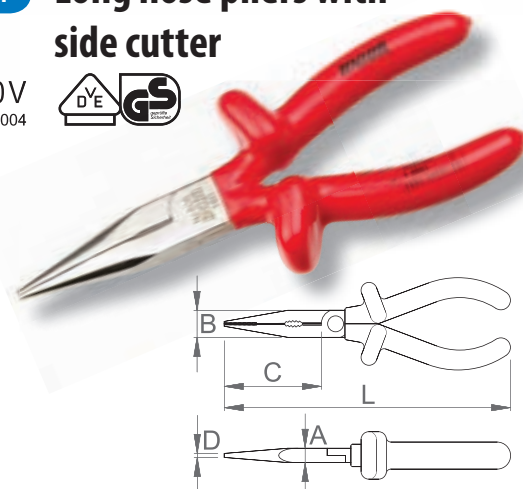
	L	B	D	A	C
605019	140	15	2	8	39
605020	160	16	2.5	9	49

506/1VDEDP

Long nose pliers with side cutter



1000V
IEC 60900:2004

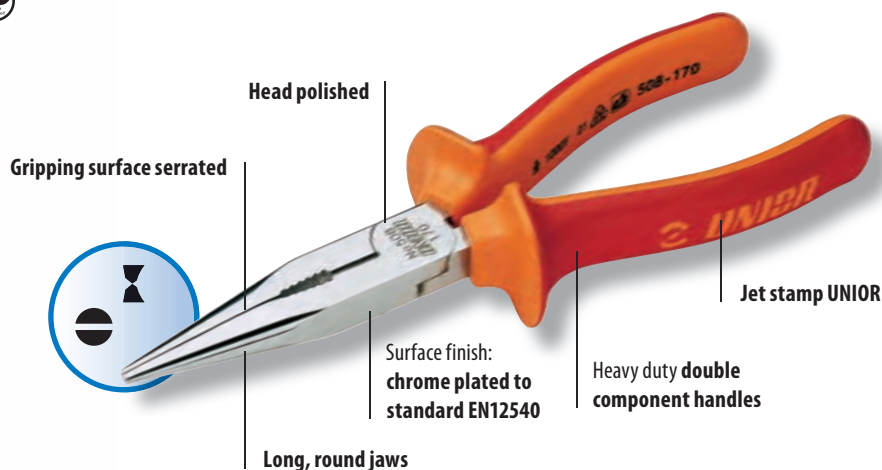


	L	B	D	A	C
619187	140	15	2	8	39
619188	160	16	2.5	9	49

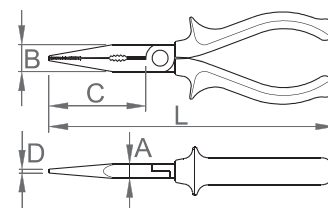
508/1VDEBI

Long nose pliers with side cutter and pipe grip, straight

1000V
IEC 60900:2004



- Material: special tool steel
- Forged
- Entirely hardened and tempered (44-48 HRC)
- For working with electronic devices – for clenching and cutting
- For cutting wires $\varnothing 1.6 - 2600 \text{ N/mm}^2$ and soft wires $\varnothing 1 - 740 - 830 \text{ N/mm}^2$ (cutting edges induction hardened – 60 HRC/min.)
- For cutting wire $\varnothing 1.6$, 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 $T = 5 \text{ Nm}$)
- Made according to standard ISO 5745 and EN 60900

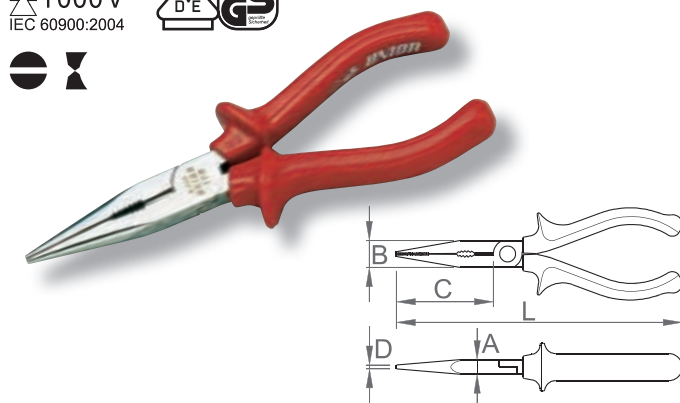


	L	B	D	A	C
610436	170	17	2.5	9	61
610437	200	17	2.5	9	77

508/1VDE

Long nose pliers with side cutter and pipe grip, straight

1000V
IEC 60900:2004

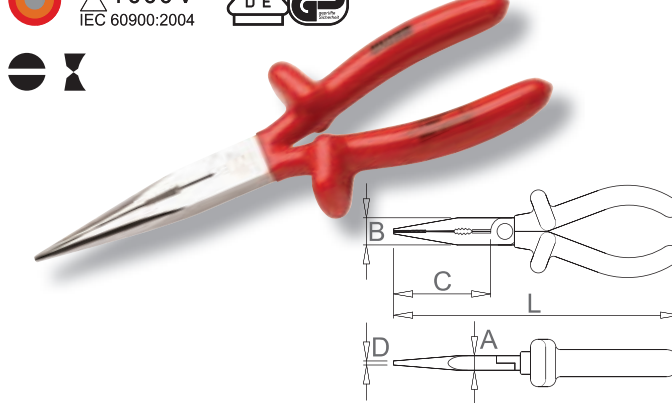


	L	B	D	A	C
605021	170	17	2.5	9	61
605022	200	17	2.5	9	77

508/1VDEDP

Long nose pliers with side cutter and pipe grip, straight

1000V
IEC 60900:2004



	L	B	D	A	C
619189	170	17	2.5	9	61
619190	200	17	2.5	9	77

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.

512/1VDEBI

Long nose pliers with side cutter and pipe grip, bent

1000V
IEC 60900:2004



- Material: special tool steel
- Entirely hardened and tempered (44-48 HRC)
- Forged
- Gripping surface serrated
- Jaws bent to an angle of 45°
- For cutting wires $\varnothing 1.6$ 1600 N/mm² and soft wires CuSn₆ $\varnothing 1 - 740-830$ N/mm² (cutting edges induction hardened – 60 HRC/min.)
- For cutting wire $\varnothing 1.6$, no greater force needed than the one prescribed (570 N)
- The strong jaws enable good grip

Head polished
Semi-round jaws

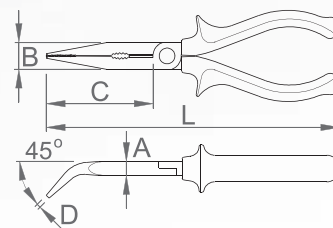


Surface finish:
chrome plated to
standard EN12540



Jet stamp UNIOR

Heavy duty double
component handles



Cutting capability (10 N = 1 kg)

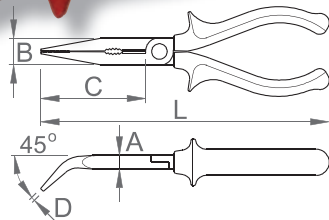
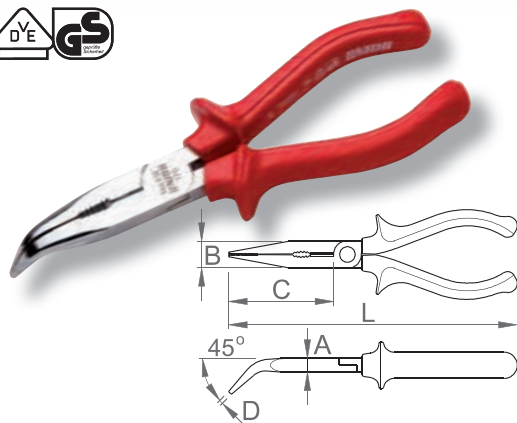
Dim.	Wire max. 1600 N/mm ² Max. diameter (mm)	Wire max. 650 N/mm ² Max. diameter (mm)
170	1.6	2.0
200	1.6	2.5

	L	B	D	A	C
610438	170	17	2.5	9	61
610439	200	17	2.5	9	77

512/1VDE

Long nose pliers with side cutter and pipe grip, bent

1000V
IEC 60900:2004

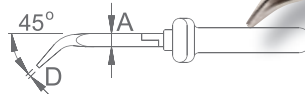
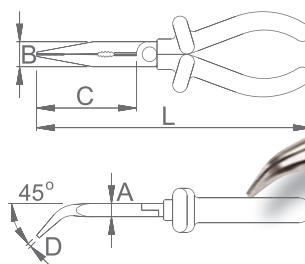


	L	B	D	A	C
607123	170	17	2.5	9	61
607124	200	17	2.5	9	77

512/1VDEDP

Long nose pliers with side cutter and pipe grip, bent

1000V
IEC 60900:2004



	L	B	D	A	C
619191	170	17	2.5	9	61
619192	200	17	2.5	9	77

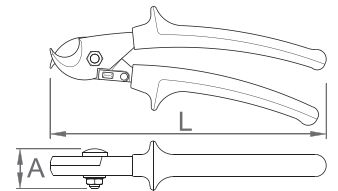
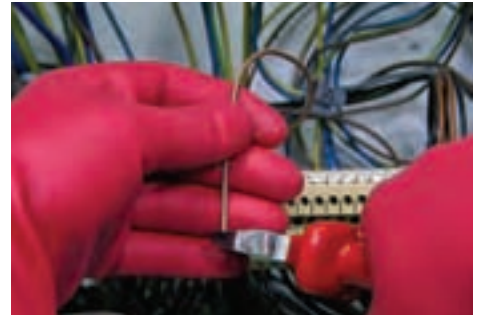
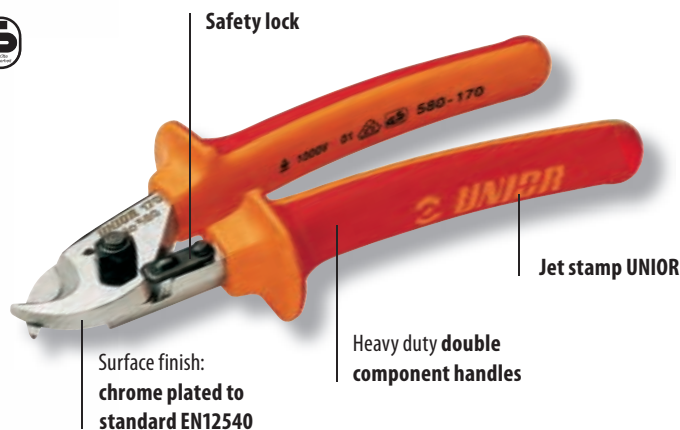
A mixture of functionality and high quality

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

1000V
IEC 60900:2004



Barcode	L	A	Ø
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 $\varnothing 10$ (dim. 170) and $\varnothing 17$ (dim. 230) (cutting edges inductive hardened – 54 Hrc/min.)
- Enable a simple and smooth cut without damaging the cables

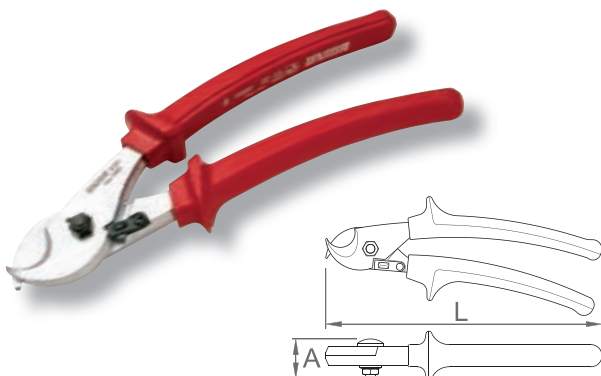
Caution!

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

580/1VDE

Cable shears

1000V
IEC 60900:2004

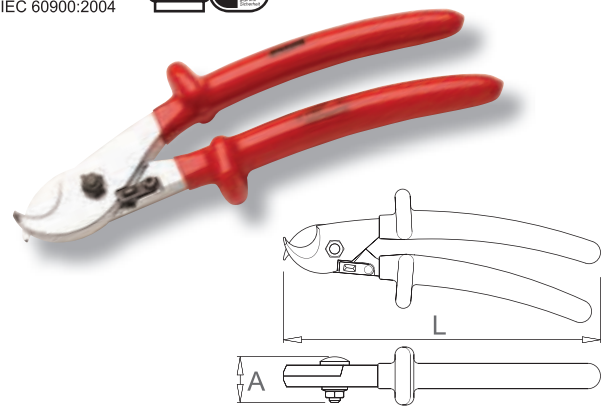


Barcode	L	A	Ø
608502	170	18	10
608851	230	22	17

580/1VDEDP

Cable shears

1000V
IEC 60900:2004



Barcode	L	A	Ø
619197	170	18	10
619198	230	22	17

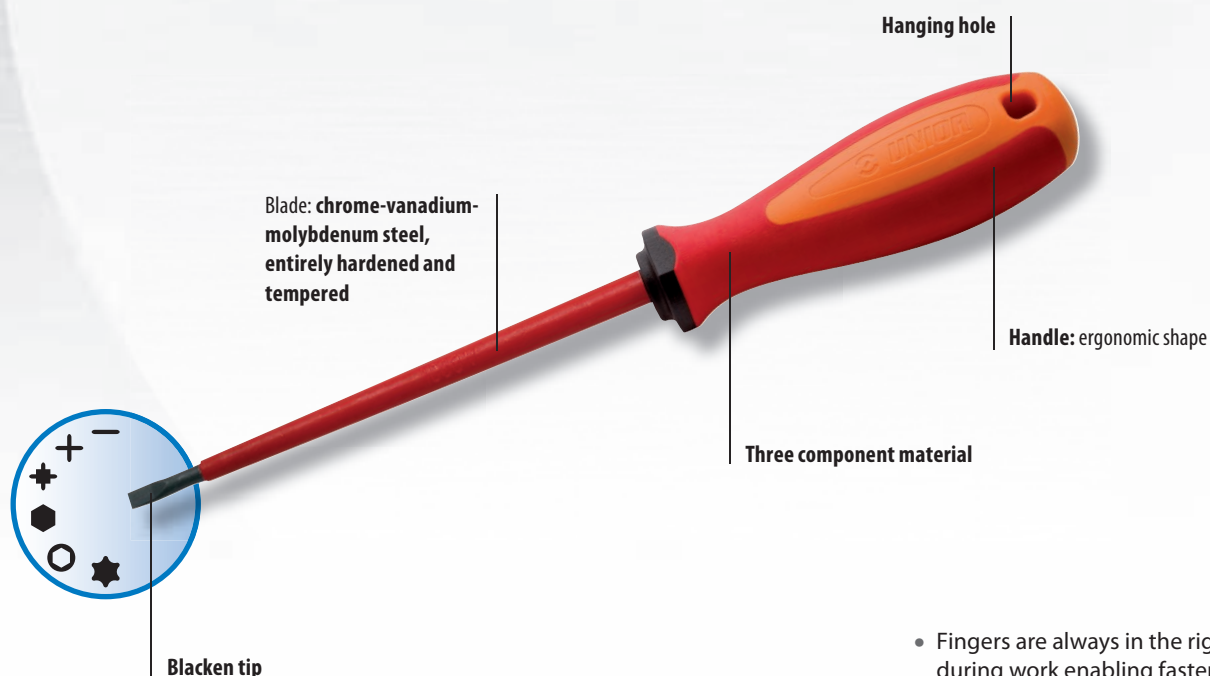
Screwing with the best grip

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.

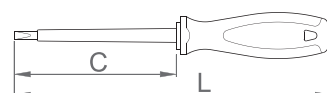
603VDETBI

Electrician's screwdriver with insulated blade VDE TBI

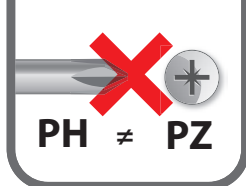
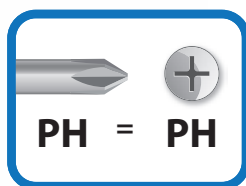
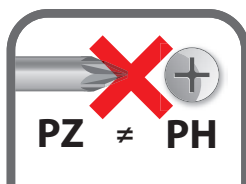
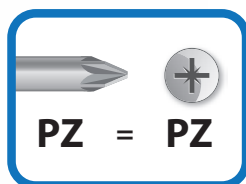
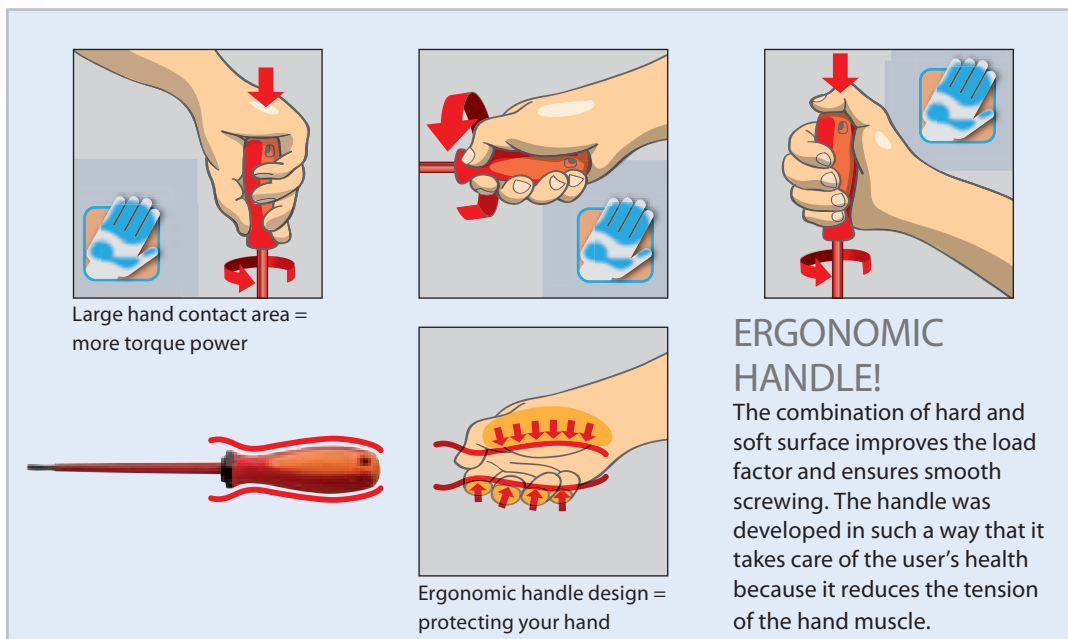
1000V
IEC 60900:2004



- 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



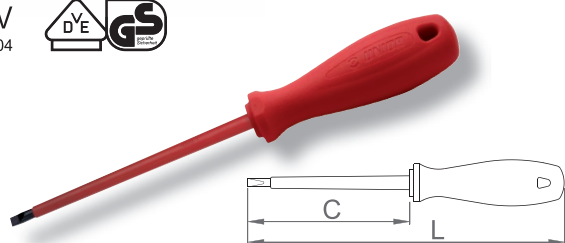
Barcode	a x b	C	L
616436	0.4 x 2.5	75	160
616437	0.5 x 3.0	100	185
616438	0.6 x 3.5	100	185
616439	0.8 x 4.0	100	185
616440	1.0 x 5.5	125	225
616441	1.2 x 6.5	150	260
616442	1.2 x 8.0	175	295



- 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.

603VDE Electrician's screwdriver with insulated blade VDE

1000V
IEC 60900:2004



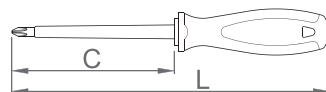
Barcode	a x b	C	L
616470	0.4 x 2.5	75	160
616471	0.5 x 3.0	100	185
616472	0.6 x 3.5	100	185
616473	0.8 x 4.0	100	185
616474	1.0 x 5.5	125	225
616475	1.2 x 6.5	150	260
616476	1.2 x 8.0	175	295
616477	1.6 x 10.0	200	320

613VDE TBI Crosstip (PH) screwdriver with insulated blade VDE TBI

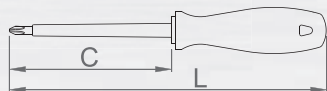
1000V
IEC 60900:2004



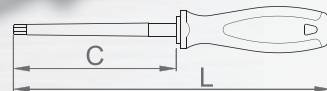
+



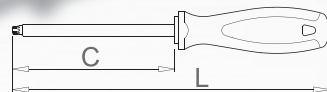
Barcode	+	C	L
616443	0	60	145
616444	1	80	180
616445	2	100	210
616446	3	150	270
616447	4	200	320

613VDE**Crosstip (PH) screwdriver with insulated blade VDE**1000V
IEC 60900:2004

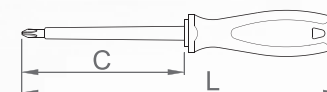
Barcode	+	C	L
616478	0	60	145
616479	1	80	165
616480	2	100	200
616481	3	150	260

620VDE TBI**Hexagon screwdriver with insulated blade VDE TBI**1000V
IEC 60900:2004

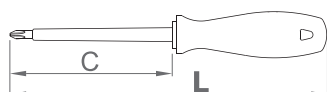
Barcode	Hexagon	C	L
616448	2.5	75	160
616449	3	75	175
616450	4	75	175
616451	5	75	185
616452	6	100	210
616453	8	100	210

621VDE TBI**Screwdriver with insulated blade, VDE TBI with TX profile**1000V
IEC 60900:2004

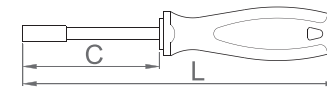
Barcode	TX	C	L
616454	10	60	140
616455	15	80	180
616456	20	80	180
616457	25	80	180
616458	27	100	210
616459	30	100	210

623VDE TBI**Double crosstip (PZ) screwdriver with insulated blade VDE TBI**1000V
IEC 60900:2004

Barcode	+	C	L
616460	0	60	145
616461	1	80	180
616462	2	100	210
616463	3	150	270

623VDE**Double crosstip (PZ) screwdriver with insulated blade VDE**1000V
IEC 60900:2004

Barcode	+	C	L
616482	0	60	145
616483	1	80	165
616484	2	100	200
616485	3	150	260

629VDE TBI**Insulated socket wrench with VDE TBI handle**1000V
IEC 60900:2004

Barcode	Hexagon	C	L
616464	5.5	125	225
616465	6	125	225
616466	7	125	235
616467	8	125	235
616468	10	125	235
616469	13	125	245

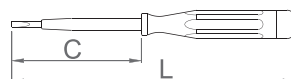
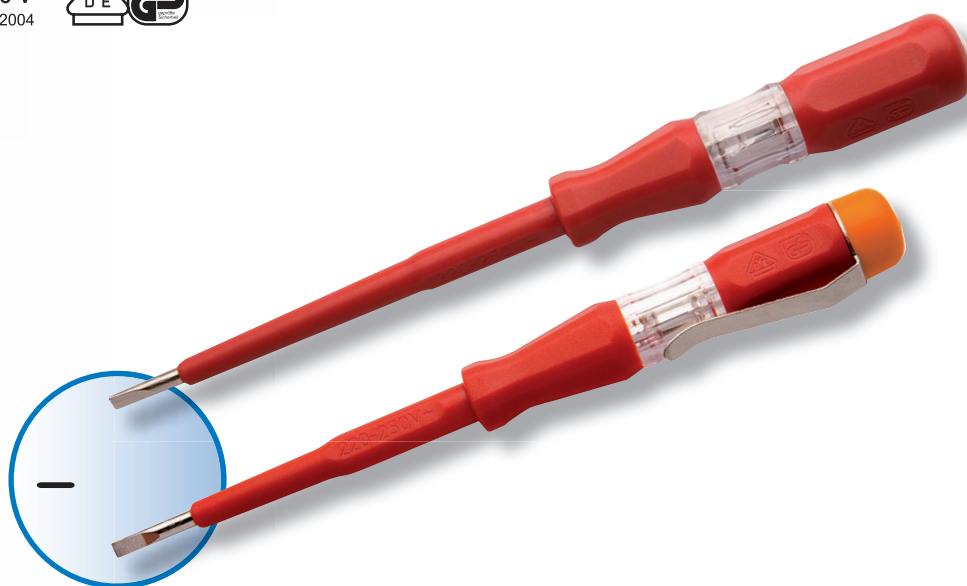
For safe testing

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

1000V
IEC 60900:2004



- 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

Barcode	a x b	C	L
617659	0.5 x 3.0	60	140
617660	0.6 x 3.5	90	180



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.

110/2VDEDP

Set of insulated open end wrenches in carton box



1000V
IEC 60900:2004



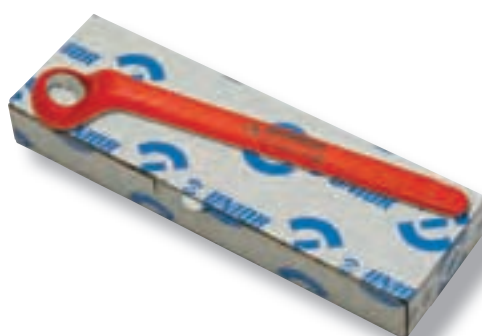
Barcode	Grt.
612676	10-24
Art.	
110/2VDEDP	10, 11, 12, 13, 14, 15, 17, 19, 22, 24

180/2VDEDP

Set of insulated single offset ring wrenches in carton box



1000V
IEC 60900:2004



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

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

1000V
IEC 60900:2004



Barcode	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**

1000V
IEC 60900:2004



Barcode	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**

1000V
IEC 60900:2004



Barcode	Grt.	
619420	8-27	
Art.	↗	
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



Barcode	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**

1000V
IEC 60900:2004



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.****406/1VDEBI**

180

3

478/1VDEBI

160

3

461/1VDEBI

160

3

508/1VDEBI

200

3

447/1VDEBIST**Set of waterpump box joint pliers on carton display**

1000V
IEC 60900:2004



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.****447/1VDEBI**

240

6



964/15SOS

Set of VDE BI tools in SOS tool tray

1000V
IEC 60900:2004



619441

Art.

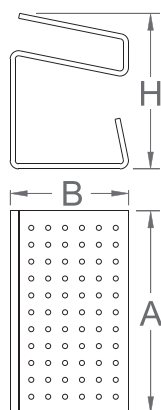


613VDEBTI	PH2 x 100, PH1 x 80	1
603VDEBTI	(1.0 x 5.5 x 125; 0.4 x 2.5 x 75; 0.6 x 3.5 x 100)	1
461/1VDEBTI	160	1
478/1VDEBTI	160	1
406/1VDEBTI	180	1
630VDE	140	1

978VDE

Displaystand for screwdrivers VDE

- Material: acryl glass



609952

A

B

H

330

205

240



603CS6AVT



Set of screwdrivers VDE TBI



1000V
IEC 60900:2004



617653

Art.  

603VDE TBI	0.4 × 2.5 × 75; 0.5 × 3.0 × 100; 0.8 × 4.0 × 100; 1.0 × 5.5 × 125	1
613VDE TBI	(PH1 × 80), (PH2 × 100)	1



603CS6ATVT

Set of screwdriver VDE TBI
with voltage tester

1000V
IEC 60900:2004



617654

Art.  

603VDE TBI	0.5 × 3.0 × 100; 0.8 × 4.0 × 100; 1.0 × 5.5 × 125	1
613VDE TBI	(PH1 × 80), (PH2 × 100)	1
630VDE	140	1

603CS6VDE TBI



Set of screwdrivers VDE TBI



1000V
IEC 60900:2004



617042

Art.  

603VDE TBI	0.4 × 2.5 × 75; 0.8 × 4.0 × 100; 1.0 × 5.5 × 125; 1.2 × 6.5 × 150	1
613VDE TBI	(PH1 × 80), (PH2 × 100)	1



603CS6TVDE TBI

Set of screwdrivers VDE TBI
with voltage tester

1000V
IEC 60900:2004



617043

Art.  

603VDE TBI	0.8 × 4.0 × 100; 1.0 × 5.5 × 125; 1.2 × 6.5 × 150	1
613VDE TBI	(PH1 × 80), (PH2 × 100)	1
630VDE	140	1



603S50VDE TBI

Set of screwdrivers VDE TBI
on display stand

1000V
IEC 60900:2004



617046

Art.  

603VDE TBI	3.0 × 100; 4.0 × 100; 5.5 × 125; 6.5 × 150; 1.2 × 8.0 × 175	5
613VDE TBI	(PH0 × 60), (PH1 × 80), (PH2 × 100)	5
623VDE TBI	(PZ1 × 80), (PZ2 × 100)	5

603CS6VDE



Set of screwdrivers VDE



1000V
IEC 60900:2004



617044

Art.  

603VDE	0.4 × 2.5 × 75; 0.8 × 4.0 × 100; 1.0 × 5.5 × 125; 1.2 × 6.5 × 150	1
613VDE	(PH1 × 80), (PH2 × 100)	1

603CS6TVDE**Set of screwdrivers VDE with voltage tester**

1000V
IEC 60900:2004



617045

Art.		
603VDE	0.8 × 4.0 × 100; 1.0 × 5.5 × 125; 1.2 × 6.5 × 150	1
613VDE	(PH1 × 80), (PH2 × 100)	1
630VDE	140	1

603CS6AVDE**Set of screwdrivers VDE**

1000V
IEC 60900:2004



617655

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

603CS6ATVD**Set of screwdrivers VDE with voltage tester**

1000V
IEC 60900:2004



617656

Art.		
603VDE	0.5 × 3.0 × 100; 0.8 × 4.0 × 100; 1.0 × 5.5 × 125	1
613VDE	(PH1 × 80), (PH2 × 100)	1
630VDE	140	1

603S50VDE**Set of screwdrivers VDE on display stand**

1000V
IEC 60900:2004



617047

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

620CS6VDEBTBI**Set of insulated hexagon screwdrivers VDE TBI**

1000V
IEC 60900:2004



617048

Art.		
620VDEBTBI	2.5; 3; 4; 5; 6; 8	1

621CS6VDEBTBI**Set of insulated screwdrivers VDE TBI with TX profile**

1000V
IEC 60900:2004



617049

Art.		
621VDEBTBI	(TX 10, 15, 20, 25, 27, 30)	1

629CS6VDEBTBI**Set of insulated socket wrenches with VDE TBI handle**

1000V
IEC 60900:2004

**617050****Art.****629VDEBTBI**

5.5; 6; 7; 8; 10; 13



1

905VDE**Tool set VDE in bag**

1000V
IEC 60900:2004

**617570****Art.****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 × 80), (PH2 × 100)

1

630VDE

0.5 × 3.0

1

905VDEBI**Tool set VDE BI in bag**

1000V
IEC 60900:2004

**617571****Art.****406/1VDEBI**

180



1

461/1VDEBI

160

1

478/1VDEBI

160

1

472/1VDEBI

160

1

753VDE

150

1

358VDE

180

1

603VDEBTBI

2.5 × 75; 4.0 × 100; 5.5 × 125

1

613VDEBTBI

(PH1 × 80), (PH2 × 100)

1

630VDE

(0.5 × 3.0)

1

710P

3

1

906VDE**Tool set VDE in bag**

1000V
IEC 60900:2004

**617572****Art.****461/1VDE**

160



1

406/1VDE

180

1

603VDE

2.5 × 75; 4.0 × 100

1

613VDE

PH2 × 100

1

630VDE

0.5 × 3.0

1

906VDEBI

Tool set VDE BI in bag



1000V
IEC 60900:2004



617573

Art.



461/1VDEBI 160 1

406/1VDEBI 180 1

603VDEBTBI 2.5 × 75; 4.0 × 100 1

613VDEBTBI PH2 × 100 1

630VDE 0.5 × 3.0 1

971/2VDE

Tool set VDE 52 pcs in tool case 970U2



1000V
IEC 60900:2004



608541

Art.



1000T

1

971/3VDE

Tool set 343 pcs in tool case 970U3



1000V
IEC 60900:2004



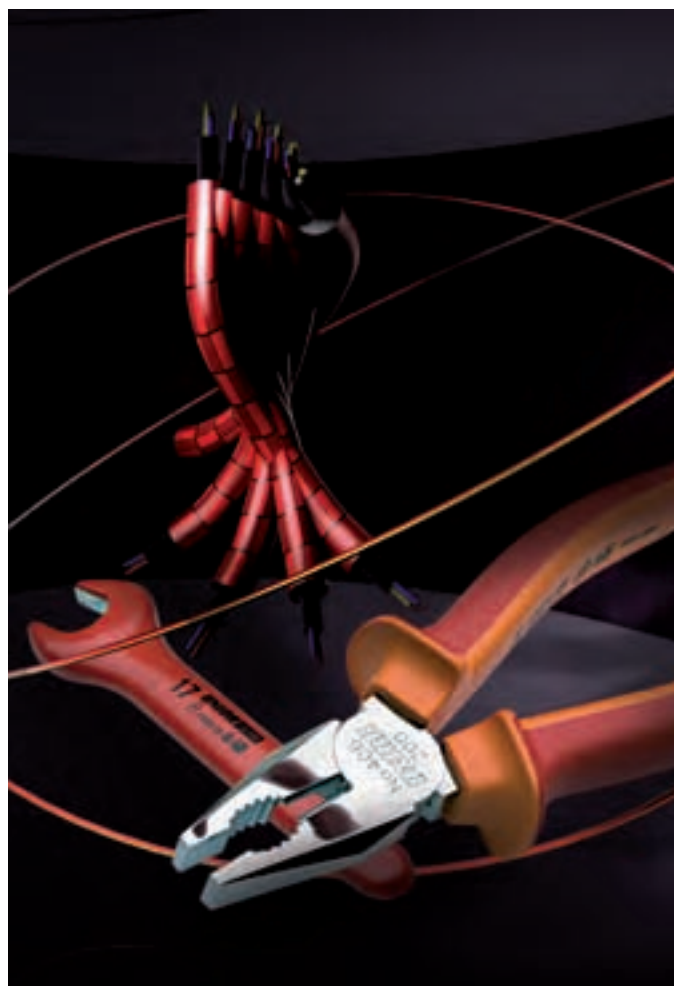
612548

Art.



1000AD

1



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

1000 V
IEC 60900:2004

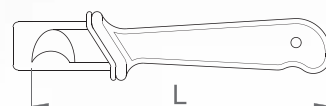


With **solid and fixed**
straight or bent blade

Safe **ergonomically**
shaped handle

With **safety cover**

- Blade: stainless steel
- Handle: polyamide B20



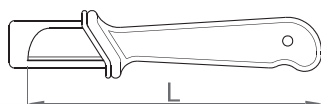
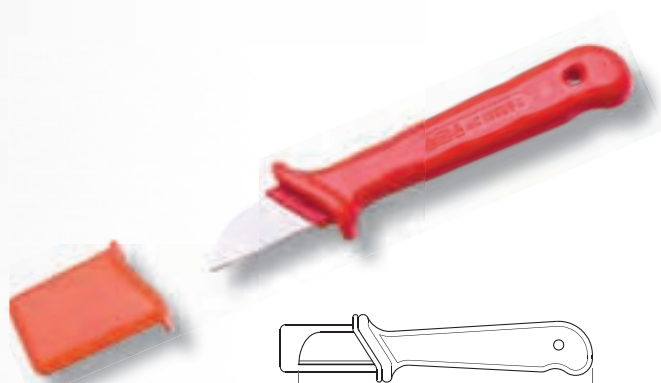
615494

L
180



385AVDE**Insulated knife**

1000V
IEC 60900:2004

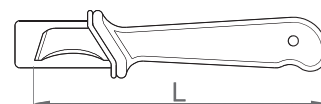
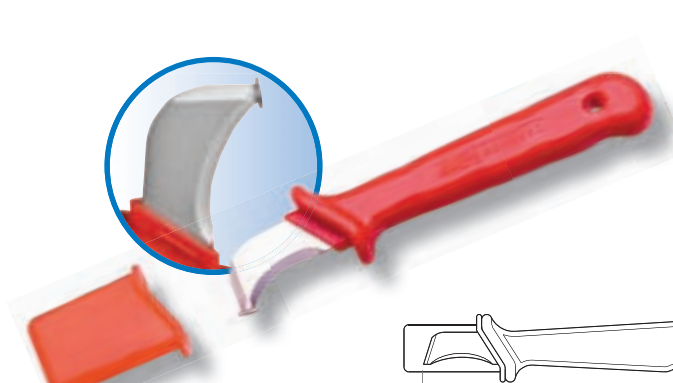


619101

140

385BVDE**Insulated knife**

1000V
IEC 60900:2004

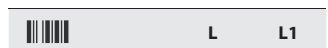
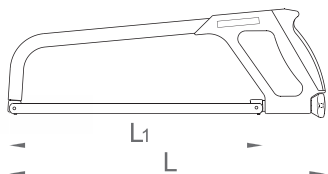


619102

140

750VDE**Insulated saw**

1000V
IEC 60900:2004



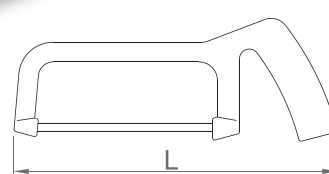
619098

460

270

753VDE**Insulated saw**

1000V
IEC 60900:2004



615502

150

- With replaceable blade
- Double layered - double coloured insulation

Two types of VDE tweezers:

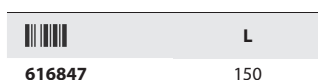
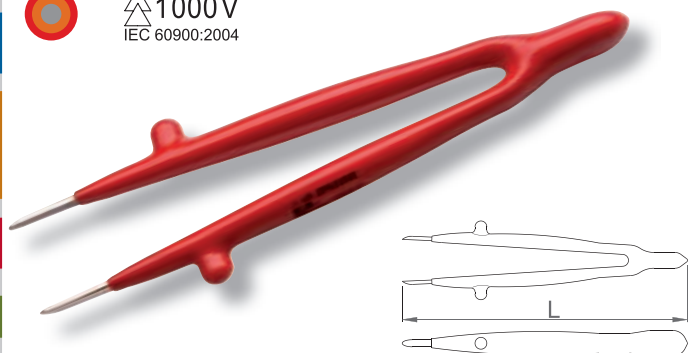
- Straight with ribbed clenching surface
- Bent
- Material: stainless steel

1340VDE

Straight tweezers



1000V
IEC 60900:2004

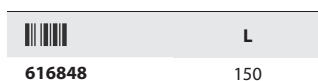
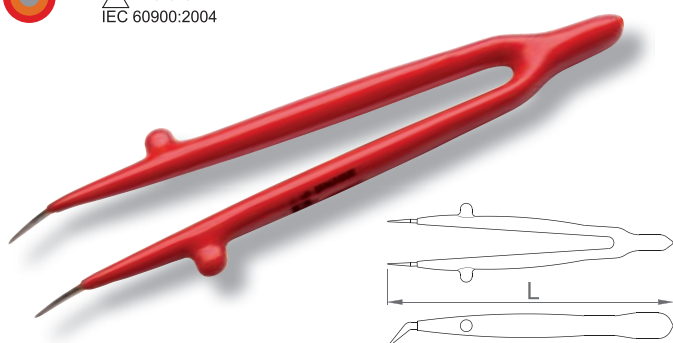


1341VDE

Bent tweezers



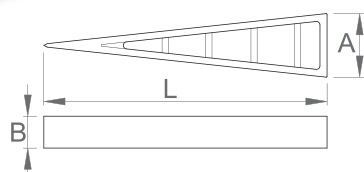
1000V
IEC 60900:2004



1350VDE

Wedge

1000V
IEC 60900:2004



- plastic material



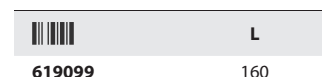
1351VDE

Plastic clamps

1000V
IEC 60900:2004



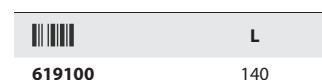
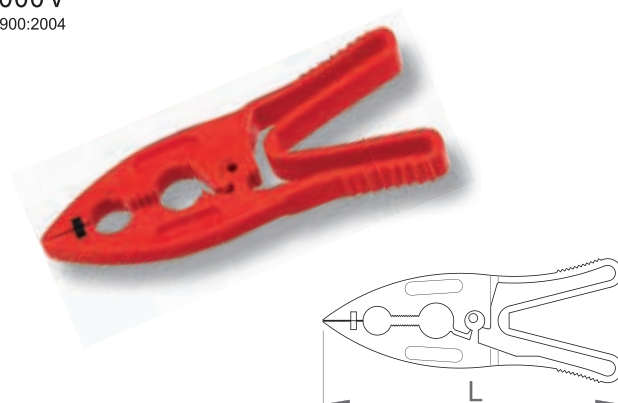
- Plastic material
- For holding of insulated awning on their place
- Fully insulated
- Prevention of short-circuits



1352VDE

Plastic clamps

1000V
IEC 60900:2004

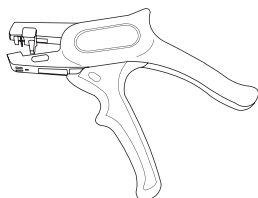


380

Wire stripper



- Fully insulated automatic wire stripper for all common stranded and solid conductors of 0, 2-6 mm²
- Adjustable length stop of 5-12 mm
- Easily accessible built-in side cutter for max. 2 mm



610925

0.2 - 6

385G

Cable stripper with straight knife



- Accurate, fast and safe stripping of all common round cables of 4 - 28 mm²
- 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
- Inside of handles are spare swivel blade

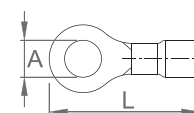


610931

4 - 28

423.1R

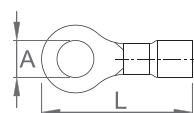
Ring terminals



	A	mm ²	L
609193	3	0.5 - 1.5	17
609194	4	0.5 - 1.5	17
609195	5	0.5 - 1.5	20

423.1B

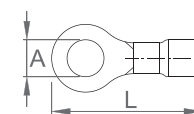
Ring terminals



	A	mm ²	L
609196	4	1.5 - 2.5	22
609197	5	1.5 - 2.5	22
609198	6	1.5 - 2.5	27
609199	8	1.5 - 2.5	27

423.1J

Ring terminals



	A	mm ²	L
609200	5	2.5 - 6	26
609201	6	2.5 - 6	31
609202	8	2.5 - 6	34
609203	10	2.5 - 6	34

385H

Cable stripper with hook knife



- Accurate, fast and safe stripping of all common round cables of 4-28 mm²
- 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
- Inside of handles are spare swivel blade

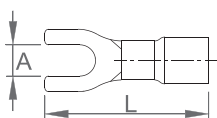


610930

4-28

423.2R

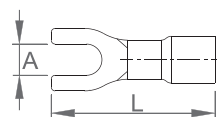
Spade terminals



	A	mm ²	L
609204	3	0.5 - 1.5	21
609205	4	0.5 - 1.5	21
609206	5	0.5 - 1.5	21

423.2B

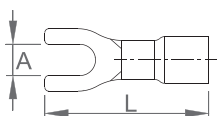
Spade terminals



	A	mm ²	L
609207	4	1.5 - 2.5	21
609208	5	1.5 - 2.5	21

423.2J

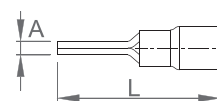
Spade terminals



	A	mm ²	L
609209	4	2.5 - 6	25
609210	5	2.5 - 6	25
609211	6	2.5 - 6	25

423.3R

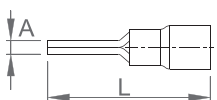
Spade terminals



	A	mm ²	L
609212	1.9	0.5 - 1.5	21

423.3B

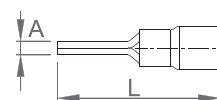
Spade terminals



	A	mm ²	L
609213	1.9	1.5 - 2.5	21

423.3J

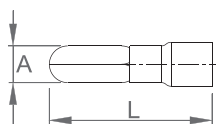
Spade terminals



	A	mm ²	L
609214	2.8	2.5 - 6	25

423.4R

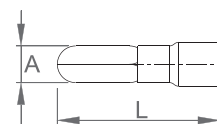
Male connectors



	A	mm ²	L
609215	4	0.5 - 1.5	21

423.4B

Male connectors

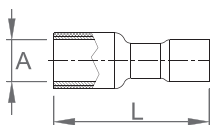


	A	mm ²	L
609216	5	1.5 - 2.5	21



423.5R

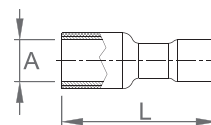
Female connectors



Barcode	A	mm ²	L
609217	4	0.5 - 1.5	24

423.5B

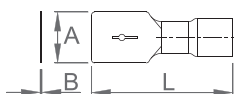
Female connectors



Barcode	A	mm ²	L
609218	5	1.5 - 2.5	24

423.6R

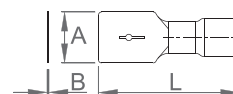
Male spade terminals



Barcode	A	B	mm ²	L
609219	6.3	0.8	0.5 - 1.5	22

423.6B

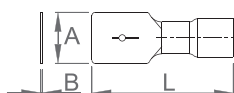
Male spade terminals



Barcode	A	B	mm ²	L
609220	6.3	0.8	1.5 - 2.5	22

423.6J

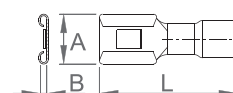
Male spade terminals



Barcode	A	B	mm ²	L
609221	6.3	0.8	2.5 - 6	22

423.7R

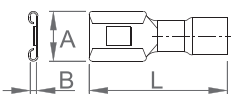
Female spade terminals



Barcode	A	B	mm ²	L
609222	2.8	0.5	0.5 - 1.5	20
609223	6.3	0.8	0.5 - 1.5	22

423.7B

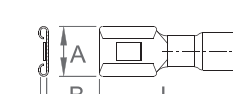
Female spade terminals



Barcode	A	B	mm ²	L
609224	6.3	0.8	1.5 - 2.5	22

423.7J

Female spade terminals

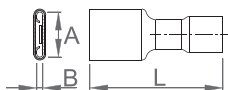


Barcode	A	B	mm ²	L
609225	6.3	0.8	2.5 - 6	22



423.8R

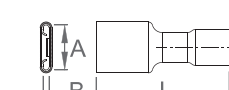
Insulated female spade terminals



609226	A	B	mm ²	L
609226	6.3	0.8	0.5 - 1.5	23

423.8B

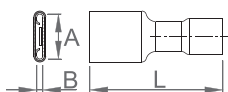
Insulated female spade terminals



609227	A	B	mm ²	L
609227	6.3	0.8	1.5 - 2.5	24

423.8J

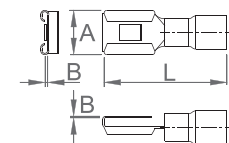
Insulated female spade terminals



609228	A	B	mm ²	L
609228	6.3	0.8	2.5 - 6	24

423.9R

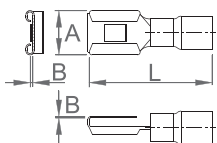
Insulated female spade terminals



609229	A	B	mm ²	L
609229	6.3	0.8	0.5 - 1.5	22

423.9B

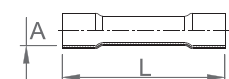
Insulated female spade terminals



609230	A	B	mm ²	L
609230	6.3	0.8	1.5 - 2.5	22

423.10R

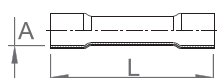
Cable connectors



609231	A	mm ²	L
609231	1.6	0.5 - 1.5	25

423.10B

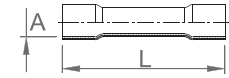
Cable connectors



609232	A	mm ²	L
609232	2.3	1.5 - 2.5	26

423.10J

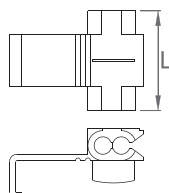
Cable connectors



609233	A	mm ²	L
609233	3.6	2.5 - 6	26

423.11R

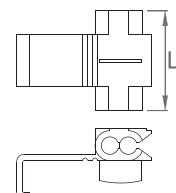
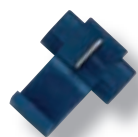
Rapid connectors



609234	mm ²	L
609234	0.5 - 1.5	20

423.11B

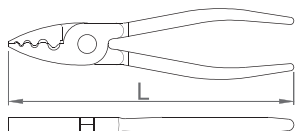
Rapid connectors



609235	mm ²	L
609235	1.5 - 2.5	20

424/4P

Crimping pliers

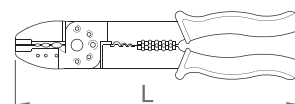
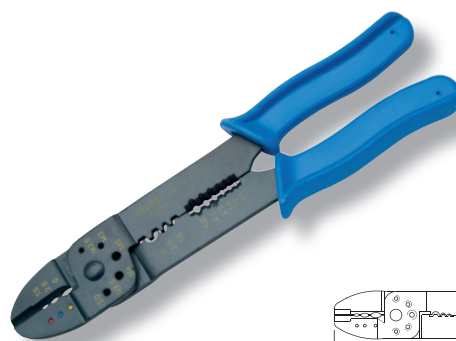


- Material: special tool steel
- Drop forged, entirely hardened and tempered
- Head surface finish: fine grinding
- Surface finish: phosphated to standard DIN 12476
- For non insulated terminals (dim. 140 from 0.5 - 2.5 mm², dim. 180 0.25 - 16 mm²)
- Handles plastic dipped

	mm ²	L
607949	0.5 - 2.5	140
607950	0.25 - 16	180

425/4A

Crimping pliers

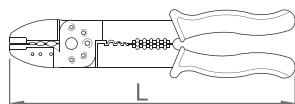
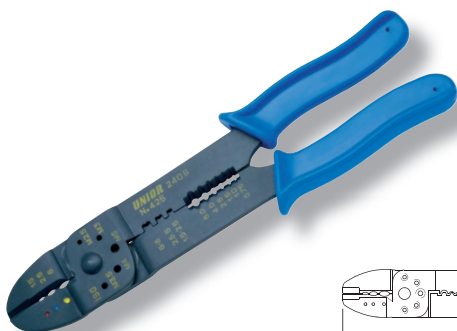


- Material: sheet metal
- Entirely hardened and tempered
- For insulated and closed non insulated terminals (1.5 - 6 mm²), for cutting cables and stripping insulation
- Surface finish: phosphated to standard DIN 12476
- Heavy duty plastic handles

	mm ²	L
601136	1.5 - 6	240

425/4B

Crimping pliers

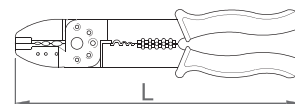
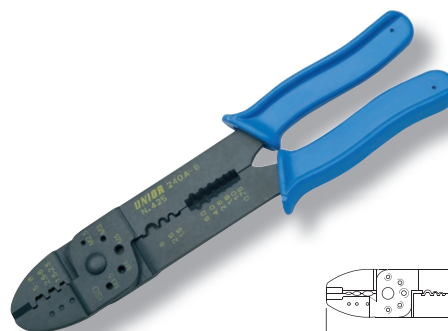


- Material: sheet metal
- Entirely hardened and tempered
- For insulated and non insulated open terminals (1.5 - 6 mm²), for cutting cables and stripping insulation
- Surface finish: phosphated to standard DIN 12476
- Heavy duty plastic handles

	mm ²	L
601137	1.5 - 6	240

425/4AB

Crimping pliers



- Material: sheet metal
- Entirely hardened and tempered
- For non insulated standard and closed terminals (1.5 - 6 mm²), for cutting cables and stripping insulation
- Surface finish: phosphated to standard DIN 12476
- Heavy duty plastic handles

	mm ²	L
605806	1.5 - 6	240

426/3A

Crimp - grip pliers

- For insulated terminals (0.5 - 6 mm²), for cutting cables and wires
- Toggle joint ensures high compression pressure with little effort
- Tool steel jaws, oil hardened, phosphated
- Handles nickel plated
- Material: sheet metal

	mm ²	L
601138	0.5 - 6	220

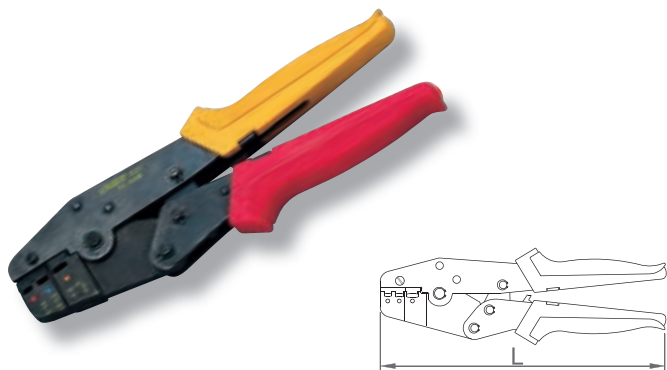
426/3B

Crimp - grip pliers

- For non insulated terminals (0.5 - 10 mm²), for cutting cables and wires
- Toggle joint ensures high compression pressure with little effort
- Tool steel jaws, oil hardened, phosphated
- Handles nickel plated
- Material: sheet metal

	mm ²	L
601139	0.5 - 10	220

428/4

Crimp lever pliers

- 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

	mm ²	L
602327	0.5 - 6	240

428.1/4

Spare parts for art. 428/4

- Spare head

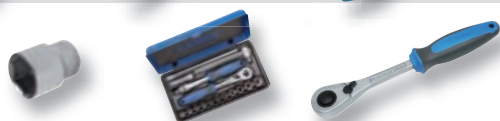
602328

Additional hand tools

Wrenches



Sockets with accessories



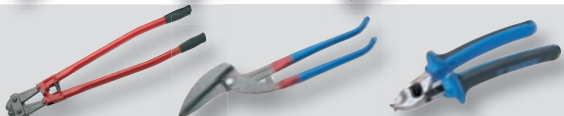
Pliers



Plumbing tools



Shears



Screwdrivers



Hammers, punches and chisels



Pullers



Measuring tools



Workshop equipment



Pneumatic tools



Additional hand tools



Set of tools



Automotive tools



Tools for bicycle service





A series of horizontal lines for writing, spanning the width of the page. The lines are evenly spaced and cover the majority of the page area.



Lined writing area with horizontal lines.



Lined writing area with horizontal ruling lines.



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