

# INSULATED TOOLS

Get ready for a high-voltage future.

## INSULATED TOOLS

ARE YOU EQUIPPED TO TACKLE ALL SPECIFICITIES OF YOUR WORK?

Protection against shock from energised sources – greater safety!

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

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

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

**UNIOR**

IEC 60900:2004  
1000V 06



### VDE BI LINE

- \* material: special composition steel suitable for hardening and tempering
- \* forged, entirely hardened and tempered
- \* cutting edges induction hardened
- \* head polished, \* surface finish: chrome plated
- \* heavy duty double component handles
- \* jet stamp Unior



### VDE LINE

- \* material: special composition steel suitable for hardening and tempering
- \* forged, entirely hardened and tempered
- \* cutting edges induction hardened
- \* head polished
- \* surface finish: chrome plated
- \* heavy duty plastic handles



### wrenches

- \* material: chrom vanadium



### screwdrivers

- \* blade: chrome-vanadium-molybdenum steel
- \* burnished tip, \* three component material
- \* hanging hole



- \* blade: chrome-vanadium-molybdenum steel
- \* burnished tip
- \* handle: polypropylene
- \* hanging hole



**Double layered insulation VDE tools, double safety !!!**  
- establish wear of your VDE tools, just in time



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

Hand tools for live working up to 1000 V A.C. and 1500 V D.C.

The VDE hand tools is in accordance to European standard EN 60900:2004

#### Agenda:

A.C. - alternating current

D.C. - direct current

Every insulated hand tools is tasted individual on the end of production process.

#### For correct use of insulated tools:

- wear insulating gloves and eye protection
- never use a tool, that looks unsafe
- do not modify insulation
- do not let others use your insulated tools
- check standards and approval markings

When working on electrical installations, the safest is to disconnect these systems from the energy supply first. Only skilled and qualified electrician may work on live installations.

VDE tools enable you highest protection, when working with high voltage.

**SAFETY LOCK SYSTEM**

The socket will be released from ratchet with by simply pressing the button.  
Fit with our sockets 190 VDE 1/2".



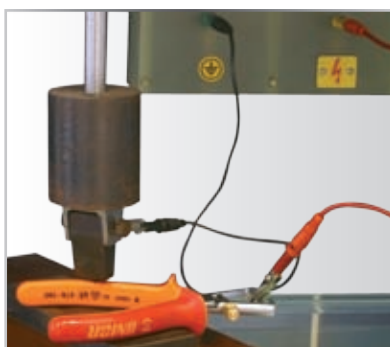
- \*with 36 teeth
- \*30% higher torque upon DIN standard
- \*minimal angle of turn 10°
- \*Hanging hole
- \*Important inside parts of mechanism are metal.
- \*Mechanical characteristics according with DIN 7449 likes by our existence ratchet 190. 1AB1

Buttons for changing the screwing directions

hanging hole

**HIGHER SECURITY AND USER COMFORT**

Comfort to the end user and perfect adaptability to the handle is assured by a heavy duty double - component handle.

**STAMP TEST**

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

**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). The duration of test is 3 minutes. The test piece is acceptable if the handle remains firmly attached to the conducting part.

**IMPACT TEST**

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

**ELECTRICAL TEST (10kV)**

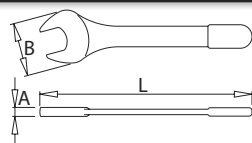
Before testing the tools are immersed in a bath of water at 23° C for 24 hours  $\pm$  5 hours. The test pieces are acceptable if there is no electrical discharge, spark over or flashover, and if the current leakage is less than 1mA for 20 mm insulation.





### 110 VDE INSULATED SINGLE OPEN END WRENCH

material: chrome vanadium  
head: chrome plated  
100% control - every peace is tested



EN60900:2004

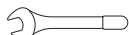
Code	EAN	mm	L	B	A	kg
617801	178011	8	108	21	7	25
612175	121758	10	109,5	24,5	7,5	28
612176	121765	11	113	26	7,5	32
612177	121772	12	127	28	8	41
612178	121789	13	131	30,5	8,5	52
612179	121796	14	143	33	8,5	62
612180	121802	15	150	35	9	74
612181	121819	17	158	40	10	97
612182	121826	19	173	44	11	140
612183	121833	22	198	49	13	160
612184	121840	24	224	56	14	277
617802	178028	27	235	59	15	340



### 110VDE CB SET OF INSULATED OPEN END WRENCHES IN CARTON BOX

Code	EAN	Set	kg
612676	126760	10-24	1180

Art.	Dim.
------	------

110 VDE  10,11,12,13,14,15,17,19,22,24

Double layered insulation VDE tools, double safety !!!  
- establish wear of your VDE tools, just in time

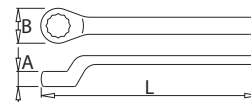


if second layer visible, replace your VDE tool with the new one



### 180 VDE INSULATED SINGLE OFFSET RING WRENCH

material: chrome vanadium  
head: chrome plated  
100% control - every peace is tested



EN60900:2004

Code	EAN	mm	L	B	A	kg
612185	121857	10	162	19,5	11	63
612186	121864	11	175	20	11,5	71
612187	121871	12	185	21,5	11,5	91
612188	121888	13	185	23	12,5	93
612189	121895	14	190	25,5	13	118
612190	121901	15	195	27	13,5	129
612191	121918	17	208	30,5	15,5	162
612192	121925	19	227	33	15,5	206
612193	121932	22	250	37,5	17,5	288
612194	121949	24	255	42	18,5	375



### 180VDE CB SET OF INSULATED SINGLE OFFSET RING WRENCH IN CARTON BOX

Code	EAN	Set	kg
612677	126777	10-24	1765

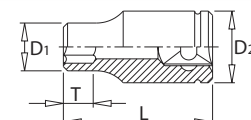
Art.	Dim.
------	------

180 VDE  10,11,12,13,14,15,17,19,22,24



### 190 VDE INSULATED SOCKET 1/2"

material: chrome vanadium  
head: chrome plated  
100% control - every peace is tested



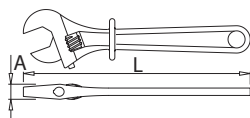
EN60900:2004

Code	EAN	mm	D1	D2	L	T	kg
617803	178035	8	18	27,4	54,6	12	90
612195	121956	10	18	26	51,5	12	96
612196	121963	11	19,5	26,5	51,5	12	98
612197	121970	12	20,5	26,5	51,5	12	98
612198	121987	13	21,5	26,5	51,5	12	99
612199	121994	14	22,5	26,5	51,5	12	105
612200	122007	17	28	26	51,5	12	120
612201	122014	19	30	28	51,5	14	132
612202	122021	22	34	29	51,5	14	180
612203	122038	24	37	32,5	55	16	200
617804	178042	27	40,5	32,5	58	18	260



### 250 VDE INSULATED ADJUSTABLE WRENCH

material: chrome vanadium  
head: chrome plated  
100% control - every piece is tested



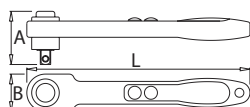
EN60900:2004

Code	EAN	dim	L	A		
616849	168494	200	215	35	24	350
616850	168500	250	265	35	28	590
616851	168517	300	310	36	34	910



### 190.1 VDE INSULATED REVERSIBLE RATCHET 1/2"

material: chrome vanadium  
with 36 teeth  
30% higher torque than DIN standard  
minimal angle of turn 10°  
important inside parts of mechanism are metal  
mechanical characteristics according to DIN 7449  
like our existing ratchet 190. 1AB1  
button for changing the direction  
100% control - every piece is tested



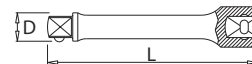
EN60900:2004

Code	EAN	L	B	A	
612206	122069	275	66	46	512



### 190.4 VDE INSULATED EXTENSION BAR 1/2"

material: chrome vanadium  
head: chrome plated  
100% control - every piece is tested



EN60900:2004

Code	EAN	L	D	
612204	122045	250	28	371
612205	122052	125	27	194



### 190.3L VDE INSULATED OFFSET HANDLE 1/2"

material: chrome vanadium  
chrome plated



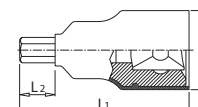
EN60900:2004

Code	EAN	L1	L2	
615178	151786	250	72	397



### 192 HX VDE INSULATED HEXAGONAL SCREWDRIVER SOCKET 1/2"

material: socket: chrome molybdenum  
bit: special tool steel

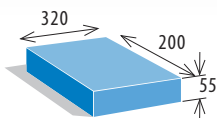


EN60900:2004

Code	EAN		L1	L2	D	
615173	151731	4	76	18	27	62
615174	151748	5	76	18	27	62
615175	151755	6	76	18	27	68
615176	151762	8	76	18	27	85
615177	151779	10	76	18	27	98

**190VDE Set** INSULATED SOCKET SET 1/2" IN METAL BOX

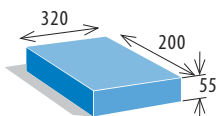
Code	EAN	Set		
612678	126784	10-24	11	2620



Art.		Dim.
190 VDE		10, 11, 12, 13, 14, 17, 19, 22, 24
190.1VDE		275
190.4VDE		125

**190VDE6P11** INSULATED SOCKET SET 1/2" IN METAL BOX

Code	EAN	Set		
616704	167046	13-19	11	2650

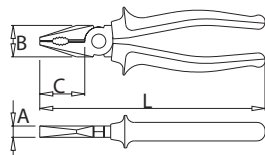


Art.		Dim.
190VDE		13, 14, 17, 19
190.1VDE		275
190.4VDE		125
192HX VDE		4, 5, 6, 8, 10


**406 VDE BI** COMBINATION PLIERS

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty double - component handles  
jet stamp UNIOR

EN60900:2004



Code	EAN	L	B	C	A	
610421	104218	160	24	35	9,5	200
610422	104225	180	27	38	10	250
610423	104232	200	29	41	10,5	310
610424	104249	220	32	47	11	390

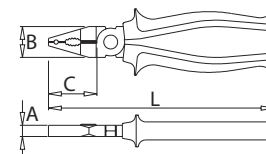
**cutting capacity (10N = 1kg)**

Dim	Wire max. 1600 N/mm <sup>2</sup> Max. diameter (mm)	Wire max. 650 N/mm <sup>2</sup> Max. diameter (mm)
160	1,6	2,0
180	1,8	2,5
200	2,0	2,5
220	2,0	3,0


**420 VDE BI** LINEMEN'S PLIERS

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty double - component handles  
jet stamp UNIOR

EN60900:2004



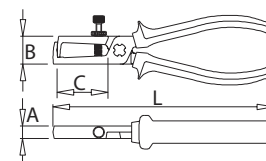
Code	EAN	L	B	C	A	
610425	104256	180	24	45	11	220

Cutting capacities same as Art. 406 VDE BI


**478 VDE BI** WIRE STRIPPING PLIERS

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty double - component handles  
jet stamp UNIOR  
stripping capacity: up to max 0.6 - 10mm<sup>2</sup>  
spring for reopening

EN60900:2004

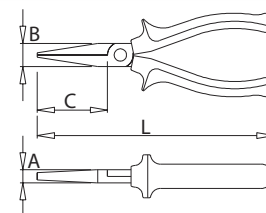


Code	EAN	L	mm <sup>2</sup>	B	A	C	
610433	104331	160	0,6 - 10	18	9	40	170


**472 VDE BI** LONG FLAT NOSE PLIERS

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty double - component handles  
jet stamp UNIOR  
flat long jaws  
gripping surface serrated

EN60900:2004



Code	EAN	L	B	C	A	
610429	104294	140	15	39	8	120
610430	104300	160	16	49	9	145

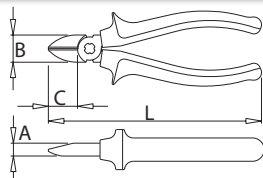




### 461 VDE BI DIAGONAL CUTTING NIPPERS

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty double - component handles  
jet stamp UNIOR

EN60900:2004



Code	EAN	L	B	A	C	
610426	104263	140	19	9,5	18	150
610427	104270	160	22,5	10	22	180

#### cutting capacity (10N = 1kg)

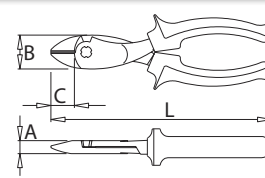
Dim	Wire max. 1600 N/mm <sup>2</sup> Max. diameter (mm)	Wire max. 650 N/mm <sup>2</sup> Max. diameter (mm)
140	1,6	2,0
160	1,6	2,5



### 466 VDE BI HEAVY DUTY DIAGONAL CUTTING NIPPERS

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty double - component handles  
jet stamp UNIOR

EN60900:2004



Code	EAN	L	B	A	C	
610428	104287	180	28	11	20	310
611756	117560	200	27	11	21	293

#### cutting capacity (10N = 1kg)

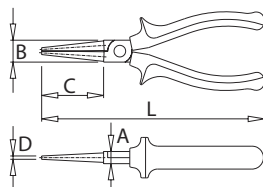
Dim	Wire max. 1600 N/mm <sup>2</sup> Max. diameter (mm)	Wire max. 650 N/mm <sup>2</sup> Max. diameter (mm)
180	1,8	3,0
200	1,8	3,0



### 476 VDE BI LONG ROUND NOSE PLIERS

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty double - component handles  
jet stamp UNIOR  
long round jaws

EN60900:2004



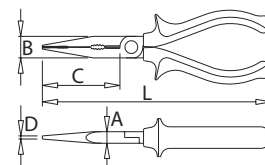
Code	EAN	L	B	C	A	
610431	104317	140	9	39	2	100
610432	104324	160	10	49	2,5	130



### 506 VDE BI LONG NOSE PLIERS WITH SIDE CUTTER

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty double - component handles  
jet stamp UNIOR  
gripping surface serrated  
half - round jaws

EN60900:2004



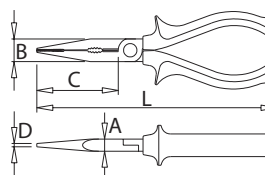
Code	EAN	L	B	D	A	C	
610434	104348	140	15	2	8	39	110
610435	104355	160	16	2,5	9	49	150



### 508 VDE BI LONG NOSE PLIERS WITH SIDE CUTTER AND PIPE GRIP, STRAIGHT

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty double - component handles  
jet stamp UNIOR  
gripping surface serrated  
half - round jaws

EN60900:2004



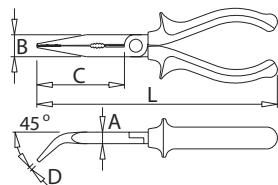
Code	EAN	L	B	D	A	C	
610436	104362	170	17	2,5	9	61	160
610437	104379	200	17	2,5	9	77	180





### 512 VDE BI LONG NOSE PLIERS WITH SIDE CUTTER AND PIPE GRIP, BENT

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty double - component handles  
jet stamp UNIOR  
gripping surface serrated  
half - round jaws  
jaws bent to an angle of 45°



EN60900:2004

Code	EAN	L	B	D	A	C	
610438	104386	170	17	2,5	9	61	160
610439	104393	200	17	2,5	9	77	180

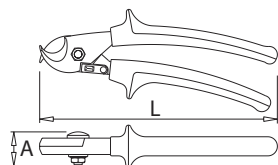
#### cutting capacity (10N = 1 kg)

Dim	Wire max. 1600 N/mm <sup>2</sup> Max. diameter (mm)	Wire max. 650 N/mm <sup>2</sup> Max. diameter (mm)
170	1,6	2,0
200	1,8	2,5



### 580 VDE BI CABLE SHEARS

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty double - component handles  
jet stamp UNIOR  
for cutting the cable without steel wire



EN60900:2004

Code	EAN	L	A		
610440	104409	170	18	10	260
610441	104416	230	22	17	510

### 400/7 VDE SET OF VDE BI PLIERS ON CARTON DISPLAY

Code	EAN		
611937	119373	12	2760

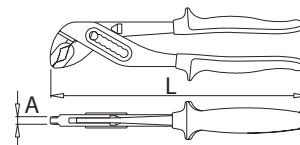


Art.		Dim.	
406VDE BI		180	3
478VDE BI		160	3
461VDE BI		160	3
508VDE BI		200	3



### 447/1 VDE BI INSULATED WATERPUMP BOX JOINT PLIERS

material: chrome vanadium  
entirely oil hardened  
entirely chrome plated  
jaw aperture adjustable in 7 position  
working surfaces induction hardened  
heavy duty double - component handles  
jet stamp UNIOR



EN60900:2004

Code	EAN	L	A		
611993	119939	240	6,5	35	427

### 447/1VDE BI ST SET OF WATERPUMP BOX JOINT PLIERS ON CARTON DISPLAY

Code	EAN		
615186	151861	6	2705



Art.		Dim.	
447/1 VDE BI		240	6



**905 VDE BI** TOOL SET VDE BI IN BAG

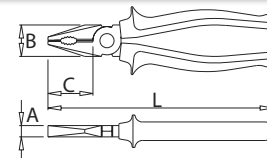
Code EAN  
617571 175713

13

1970

**406 VDE** COMBINATION PLIERS

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished; surface finish: chrome plated  
heavy duty plastic handles



EN60900:2004

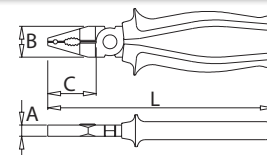
Code	EAN	L	B	C	A	
605007	050072	140	23	32	8	160
605008	050089	160	24	35	9,5	200
605009	050096	180	27	38	10	250
605010	050102	200	29	41	10,5	310
605011	050119	220	32	47	11	390

**cutting capacity (10N = 1kg)**

Dim	Wire max. 1600 N/mm <sup>2</sup> Max. diameter (mm)	Wire max. 650 N/mm <sup>2</sup> Max. diameter (mm)
160	1,6	2,0
180	1,8	2,5
200	2,0	2,5
220	2,0	3,0

**420 VDE** LINEMEN'S PLIERS

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished; surface finish: chrome plated  
heavy duty plastic handles



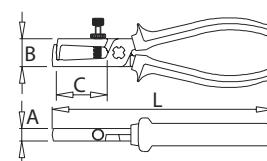
EN60900:2004

Code	EAN	L	B	C	A	
607125	071251	180	24	45	11	220

Cutting capacities same as Art. 406 VDE BI

**478 VDE** VDE WIRE STRIPPING PLIERS

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty plastic handles  
stripping capacity: up to max 0.6 - 10mm<sup>2</sup>  
spring for reopening



EN60900:2004

Code	EAN	L	mm <sup>2</sup>	B	A	C	
605018	050188	160	0,6 - 10	18	9	40	170

Art.		Dim.
406 VDE BI		180
461 VDE BI		160
478 VDE BI		160
472 VDE BI		160
753 VDE		150
358 VDE		180
603 VDE TBI		0.4x2,5
603 VDE TBI		0.8x4.0
603 VDE TBI		1.0x5.5
613 VDE TBI		1
613 VDE TBI		2
630 VDE		0,5x3,0
710 P		3m
905BAG		

**906 VDE BI** TOOL SET VDE BI IN BAG

Code EAN  
617573 175737

6

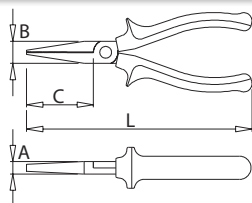
889



Art.		Dim.
461 VDE BI		160
406 VDE BI		180
603 VDE TBI		0.4x2,5
603 VDE TBI		0.8x4.0
613 VDE TBI		2
630 VDE		0,5x3,0
906BAG		

**472 VDE** LONG FLAT NOSE PLIERS

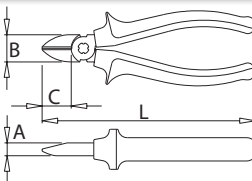
material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty plastic handles  
flat long jaws  
gripping surface serrated



Code	EAN	L	B	C	A	
605014	050140	140	15	39	8	120
605015	050157	160	16	49	9	145

**461 VDE** DIAGONAL CUTTING NIPPERS

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty plastic handles



EN60900:2004

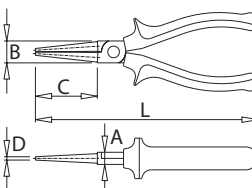
Code	EAN	L	B	A	C	
605012	050126	140	19	9,5	18	150
605013	050133	160	22,5	10	22	180

**cutting capacity (10N = 1kg)**

Dim	Wire max. 1600 N/mm <sup>2</sup> Max. diameter (mm)	Wire max. 650 N/mm <sup>2</sup> Max. diameter (mm)
140	1,6	2,0
160	1,6	2,5

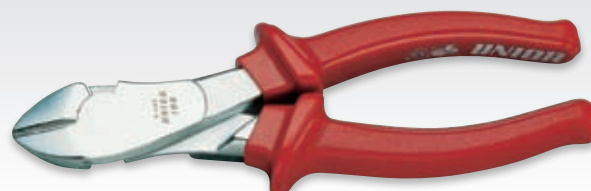
**476 VDE** LONG ROUND NOSE PLIERS

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty plastic handles  
long round jaws

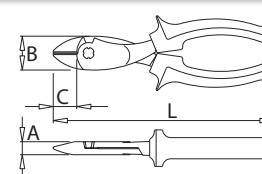


EN60900:2004

Code	EAN	L	B	A	C	D	
605016	050164	140	15	9	39	2	100
605017	050171	160	16	10	49	2,5	130

**466 VDE** HEAVY DUTY DIAGONAL CUTTING NIPPERS

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty plastic handles



EN60900:2004

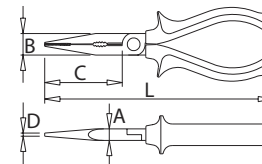
Code	EAN	L	B	A	C	
605212	052120	180	28	11	20	310

**cutting capacity (10N = 1kg)**

Dim	Wire max. 1600 N/mm <sup>2</sup> Max. diameter (mm)	Wire max. 650 N/mm <sup>2</sup> Max. diameter (mm)
180	1,8	3,0
200	1,8	3,0

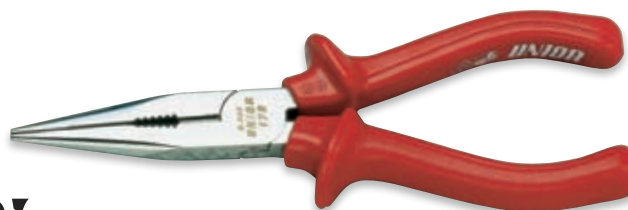
**506 VDE** LONG NOSE PLIERS WITH SIDE CUTTER

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty plastic handles  
gripping surface serrated  
half - round jaws

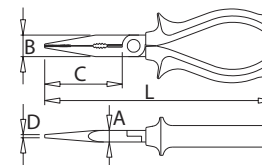


EN60900:2004

Code	EAN	L	B	D	A	C	
605019	050195	140	15	2	8	39	110
605020	050201	160	16	2,5	9	49	150

**508 VDE** LONG NOSE PLIERS WITH SIDE CUTTER AND PIPE GRIP, STRAIGHT

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty plastic handles  
gripping surface serrated  
half - round jaws



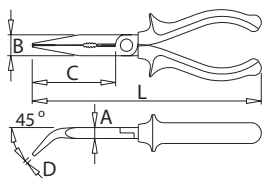
EN60900:2004

Code	EAN	L	B	D	A	C	
605021	050218	170	17	2,5	9	61	160
605022	050225	200	17	2,5	9	77	180



# 512 VDE LONG NOSE PLIERS WITH SIDE CUTTER AND PIPE GRIP, BENT

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty plastic handles  
gripping surface serrated  
half - round jaws  
jaws bent to an angle of 45°



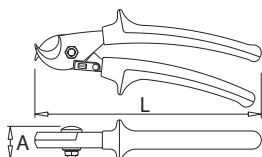
EN60900:2004

Code	EAN	L	B	D	A	C	
607123	071237	170	17	2,5	9	61	160
607124	071244	200	17	2,5	9	77	180



# 580 VDE CABLE SHEARS

material: special composition for hardening and tempering  
entirely hardened and tempered  
cutting edges induction hardened  
head polished  
surface finish: chrome plated  
heavy duty plastic handles  
for cutting the cable without steel wire



EN60900:2004

Code	EAN	L	A		
608502	085029	170	18	10	260
608851	088518	230	22	17	510

# 905 VDE

## TOOL SET VDE IN BAG

Code	EAN		
617570	175706	13	1960



Art.		Dim.
406 VDE		= 180
461 VDE		≡ 160
478 VDE		≡ 160
472 VDE		= 160
556 A		160
753 P		150
710 P		3m
603VDE		0.4x2,5
603VDE		0.8x4.0
603VDE		1.0x5.5
613VDE		1
613VDE		2
630 VDE		0,5x3,0
905BAG		

# 906 VDE

## TOOL SET VDE IN BAG

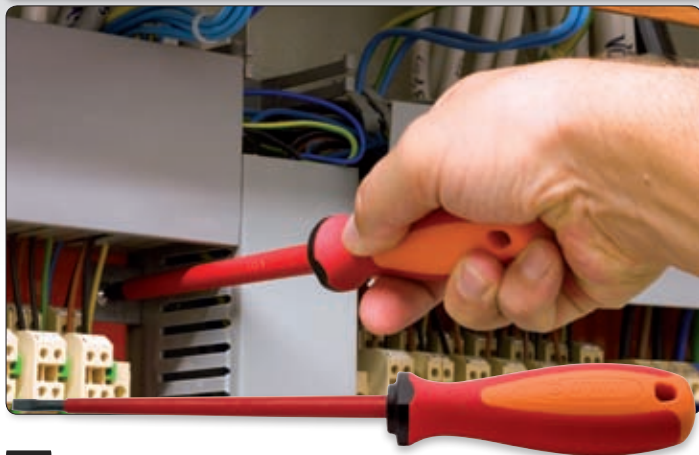
Code	EAN		
617572	175720	6	884



Art.		Dim.
461 VDE		≡ 160
406 VDE		= 180
603VDE		0.4x2,5
603VDE		0.8x4.0
613VDE		2
630 VDE		0,5x3,0
906BAG		

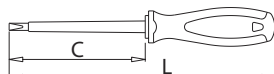






### 603 VDE TBI ELECTRICIAN'S SCREWDRIVER WITH INSULATED BLADE, VDE TBI

blade: chrome-vanadium-molybdenum steel  
burnished tip  
handle: ergonomic shape  
three component material  
hanging hole



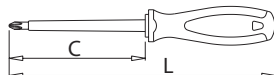
EN60900:2004

Code	EAN	a	b	C	L	
616436	164366	0.4 x 2,5		75	160	31
616437	164373	0.5 x 3,0		100	185	36
616438	164380	0.6 x 3.5		100	185	39
616439	164397	0.8 x 4.0		100	185	39
616440	164403	1.0 x 5.5		125	225	70
616441	164410	1.2 x 6.5		150	260	105
616442	164427	1.2 x 8.0		175	295	145



### 613 VDE TBI CROSSTIP (PH) SCREWDRIVER WITH INSULATED BLADE, VDE TBI

blade: chrome-vanadium-molybdenum steel  
burnished tip  
handle: ergonomic shape  
three component material  
hanging hole



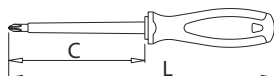
EN60900:2004

Code	EAN	+	C	L	
616443	164434	PH 0	60	145	33
616444	164441	PH 1	80	180	58
616445	164458	PH 2	10	210	92
616446	164465	PH 3	150	270	156
616447	164472	PH 4	200	320	238



### 623 VDE TBI DOUBLE CROSSTIP (PZ) SCREWDRIVER WITH INSULATED BLADE, VDE TBI

blade: chrome-vanadium-molybdenum steel  
burnished tip  
handle: ergonomic shape  
three component material  
hanging hole



EN60900:2004

Code	EAN	+	C	L	
616460	164601	PZ 0	60	145	33
616461	164618	PZ 1	80	180	58
616462	164625	PZ 2	100	210	92
616463	164632	PZ 3	150	270	156

### 603CS6VDE TBI SET OF SCREWDRIVERS VDE TBI

Code EAN  
617042 170428

6

500



Art.	Dim.	
603 VDE TBI	0.4x2,5x75+0.8x4.0x100+1.0x5.5x125+1.2x6.5x150	4
613 VDE TBI	PH1x80, PH2x100	2

### 603CS6T VDE TBI SET OF SCREWDRIVERS VDE TBI WITH VOLTAGE TESTER

Code EAN  
617043 170435

6

480

Art.	Dim.	
603 VDE TBI	0.8x4.0x100+1.0x5.5x12+1.2x6.5x150	3
613 VDE TBI	PH1x80, PH2x100	2
630 VDE	140	1

### 603CS6AVT SET OF SCREWDRIVERS VDE TBI

Code EAN  
617653 176536

6

884

Art.	Dim.	
603 VDE TBI	0.4x2,5x75+0,5x3,0x100+0.8x4.0x100+1.0x5.5x125	4
613 VDE TBI	PH1x80, PH2x100	2

### 603CS6ATVT SET OF SCREWDRIVERS VDE TBI WITH VOLTAGE TESTER

Code EAN  
617654 176543

6

480

Art.	Dim.	
603 VDE TBI	0,5x3,0x100+0.8x4.0x100+1.0x5.5x125	3
613 VDE TBI	PH1x80, PH2x100	2
630 VDE	140	1



**603S50VDE TBI**
**SET OF SCREWDRIVERS VDE TBI ON DISPLAY STAND**
**Code** **EAN**  
**617046** 170466

50 5218


**620CS6VDE TBI**
**SET OF INSULATED HEXAGON SCREWDRIVERS VDE TBI**
**Code** **EAN**  
**617048** 170480

6 550

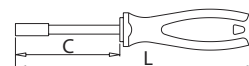

**Art.**
**Dim.**
**620 VDE TBI**

2,5,3,4,5,6,8

6


**629 VDE TBI**
**INSULATED SOCKET WRENCHES WITH VDE TBI HANDLE**

blade: chrome-vanadium-molybdenum steel  
 burnished tip  
 handle: ergonomic shape  
 three component material  
 hanging hole



EN60900:2004

Code	EAN	mm	C	L	img alt="person icon"/>
616464	164649	5.5	125	225	83
616465	164656	6	125	225	88
616466	164663	7	125	235	122
616467	164670	8	125	235	123
616468	164687	10	125	235	127
616469	164694	13	125	245	167

**629CS6VDE TBI**
**SET OF INSULATED SOCKET WRENCHES WITH VDE TBI HANDLE**
**Code** **EAN**  
**617050** 170503

6 840

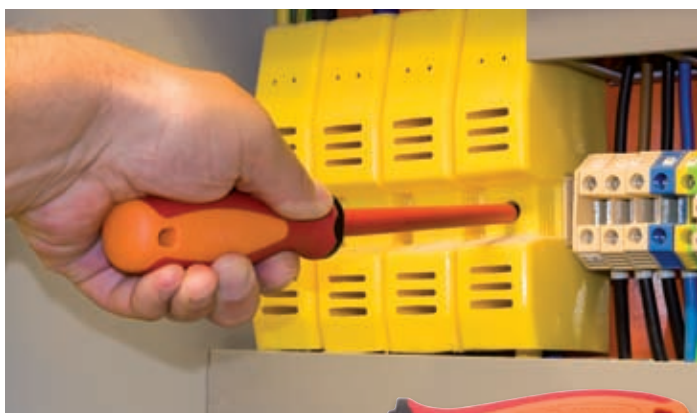

**Art.**
**Dim.**
**629 VDE TBI**

5.5,6,7,8,10,13

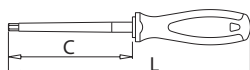
6



Art.	Dim.	img alt="box icon"/>
603 VDE TBI	0,4x2,5x75	5
603 VDE TBI	0,8x4,0x100	5
603 VDE TBI	1,0x5,5x125	5
603 VDE TBI	1,2x6,5x150	5
603 VDE TBI	1,2x8,0x175	5
613 VDE TBI	PH0x60	5
613 VDE TBI	PH1x80	5
613 VDE TBI	PH2x100	5
623 VDE TBI	PZ1x80	5
623 VDE TBI	PZ2x100	5


**620 VDE TBI**
**HEXAGON SCREWDRIVER WITH INSULATED BLADE VDE TBI**

blade: chrome-vanadium-molybdenum steel  
 burnished tip  
 handle: ergonomic shape  
 three component material  
 hanging hole



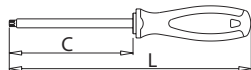
EN60900:2004

Code	EAN	mm	C	L	img alt="person icon"/>
616448	164489	2,5	75	160	33
616449	164496	3	75	175	49
616450	164502	4	75	175	55
616451	164519	5	75	185	79
616452	164526	6	100	210	95
616453	164533	8	100	210	129



### 621 VDE TBI SCREWDRIVER WITH INSULATED BLADE VDE TBI WITH TX PROFILE

blade: chrome-vanadium-molybdenum steel  
burnished tip  
handle: ergonomic shape  
three component material  
hanging hole



EN60900:2004

Code	EAN		C	L	
616454	164540	10	60	140	33
616455	164557	15	80	180	58
616456	164564	20	80	180	59
616457	164571	25	80	180	59
616458	164588	27	100	210	91
616459	164595	30	100	210	92

### 621CS6VDE TBI SET OF INSULATED SCREWDRIVERS VDE TBI WITH TX PROFILE

Code	EAN		
617049	170497	6	495



Art.	Dim.
621 VDE TBI	TX10,15,20,25,27,30

### 603S50VDE SET OF SCREWDRIVERS VDE ON DISPLAY STAND

Code	EAN		
617047	170473	50	5218

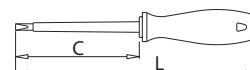


Art.	Dim.	
603 VDE	0,4x2,5x75	5
603 VDE	0,8x4,0x100	5
603 VDE	1,0x5,5x125	5
603 VDE	1,2x6,5x150	5
603 VDE	1,2x8,0x175	5
613 VDE	PH0x60	5
613 VDE	PH1x80	5
613 VDE	PH2x100	5
623 VDE	PZ1x80	5
623 VDE	PZ2x100	5



### 603 VDE ELECTRICIAN'S SCREWDRIVER WITH INSULATED BLADE, VDE

blade: chrome-vanadium-molybdenum steel  
burnished tip  
handle: ergonomic shape  
handle: polypropylene  
hanging hole



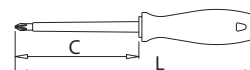
EN60900:2004

Code	EAN	a/b	C	L	
616470	164700	0,4 x 2,5	75	160	29
616471	164717	0,5 x 3,0	100	185	33
616472	164724	0,6 x 3,5	100	185	33
616473	164731	0,8 x 4,0	100	185	36
616474	164748	1,0 x 5,5	125	225	68
616475	164755	1,2 x 6,5	150	260	101
616476	164762	1,2 x 8,0	175	295	142
616477	164779	1,6 x 10,0	200	320	175



### 613 VDE CROSSTIP (PH) SCREWDRIVER WITH INSULATED BLADE, VDE

blade: chrome-vanadium-molybdenum steel  
burnished tip  
handle: ergonomic shape  
handle: polypropylene  
hanging hole



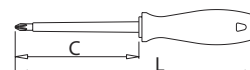
EN60900:2004

Code	EAN		C	L	
616478	164786	PH 0	60	145	30
616479	164793	PH 1	80	165	44
616480	164809	PH 2	100	200	75
616481	164816	PH 3	150	260	141



### 623 VDE DOUBLE CROSSTIP (PZ) SCREWDRIVER WITH INSULATED BLADE, VDE

blade: chrome-vanadium-molybdenum steel  
burnished tip  
handle: ergonomic shape  
handle: polypropylene  
hanging hole



EN60900:2004

Code	EAN		C	L	
616482	164823	PZ 0	60	145	30
616483	164830	PZ 1	80	165	44
616484	164847	PZ 2	100	200	75
616485	164854	PZ 3	150	260	141



**603CS6VDE** SET OF SCREWDRIVERS VDE

Code	EAN		
617044	170442	6	450



Art.	Dim.	
603 VDE	0.4x2,5x75+ 0.8x4.0x100+ 1.0x5.5x125+ 1.2x6.5x150	4
613 VDE	PH1x80, PH2x100	2

**603CS6T VDE** SET OF SCREWDRIVERS VDE WITH VOLTAGE TESTER

Code	EAN		
617045	170459	6	440

Art.	Dim.	
603 VDE	0.8x4.0x100+1.0x5.5x125+ 1.2x6.5x150	3
613 VDE	PH1x80, PH2x100	2
630 VDE	140	1

**603CS6AVDE** SET OF SCREWDRIVERS VDE

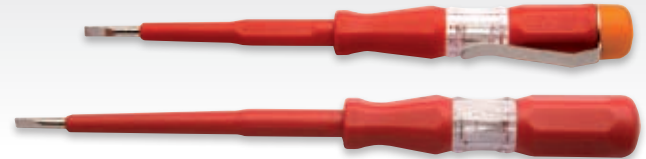
Code	EAN		
617655	176550	6	450

Art.	Dim.	
603 VDE	0,4x2,5x75+0,5x3,0x 100+0,8x4.0x100+ 1,0x5,5x125	4
613 VDE	PH1x80, PH2x100	2

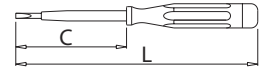
**603CS6ATVD** SET OF SCREWDRIVERS VDE WITH VOLTAGE TESTER

Code	EAN		
617656	176567	6	440

Art.	Dim.	
603 VDE	0,5x3,0x100+0,8x4,0x 100+1,0x5,5x125	3
613 VDE	PH1x80, PH2x100	2
630 VDE	140	1

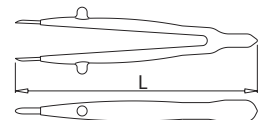

**630 VDE** VOLTAGE TESTER 220 - 250 V

dimension 140 with clip



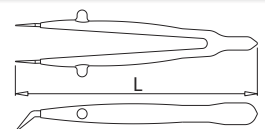
EN60900:2004

Code	EAN		C	L	
617659	176598	0,5 x 3,0	60	140	25
617660	176604	0,6 x 3,5	90	180	30


**1340 VDE** STRAIGHT TWEEZERS


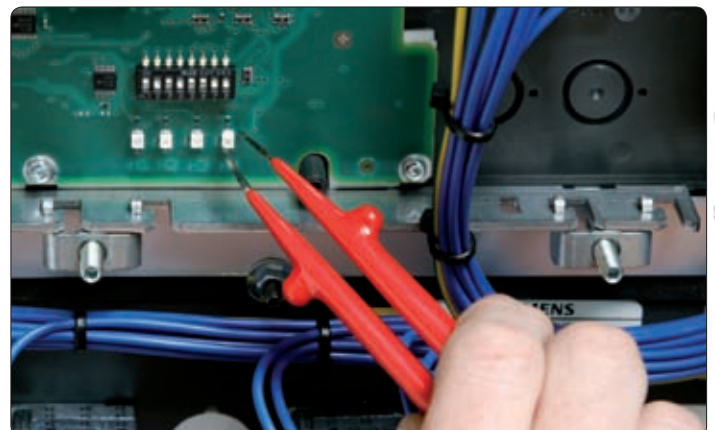
EN60900:2004

Code	EAN	L	
616847	168470	150	40


**1341 VDE** BENT TWEEZERS


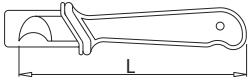
EN60900:2004

Code	EAN	L	
616848	168487	150	40





**385 VDE** INSULATED KNIFE



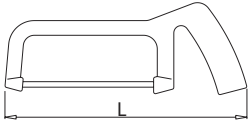
EN60900:2004

Code	EAN	L	
615494	154947	180	65



**753 VDE** INSULATED SAW

replaceable blade



EN60900:2004

Code	EAN	L	
615502	155029	150	240