



-SAFETY FIRST-

VDE INSULATED SAFETY TOOLS



AC 1000V
IEC 60900:2004

Manufactured
According to IEC60900
Standard and ASTM
F1505 Standard





IMPACT TEST

There are two tests carried out: The first test is performed at an ambient of $-25\pm 3^{\circ}\text{C}$ (the tools lay in a cold chamber for 2 hours), if with C marked test need to be done by $-40\pm 3^{\circ}\text{C}$ and is carried out 120 seconds after the tools have been removed from the chamber. The second test is carried out at ambient temperature of $23\pm 5^{\circ}\text{C}$. 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 0.6m at a temperature of -25°C and a fall from a height of 2m at room temperature.



ELECTRICAL TEST

Before testing, the tools are immersed in a bath of water at room temperature of 24 hours (± 0.5 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 20N 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.



INSULATION TEST

Before testing the test piece is heated to $70^{\circ}\text{C}\pm 3^{\circ}\text{C}$ for 168 hours. The hanger is loaded with weights (500N), wrenches and sockets sets with weights (100N). 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.



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 120mm in an observation period of 20 seconds after the burner has been removed.

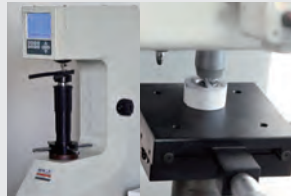
SALT-SPRAYER TEST



TORQUE LIFE TEST



HARDNESS TEST





What is VDE?



The VDE Testing and Certification Institute is a nationally and internationally accredited institution in the field of testing and certification of electrical engineering devices, components and systems. These electrical products are tested for safety, electromagnetic compatibility and other product properties.



VDE-GS Mark

Technical working equipment and consumable materials subject to the applicable device and product safety laws bear the VDE-GS mark, which stands for the safety of the product with regard to electrical, mechanical, thermal, toxicological, radiological and other dangers. In addition, tools with the VDE-GS mark conform to the VDE regulations or European or internationally harmonised standards, i.e. they confirm the compliance with the safety requirements of the respective guidelines.



Double triangle and voltage range

If insulated tools or aids are marked with the symbol of the double triangle and the assigned voltage or voltage range specification or the class, they are suitable for working on energised parts at the stated voltage.

IEC 60900





IEC 60900

An international standard which, among other things, describes the design of insulated tools in detail. For example, the thickness of the protective insulation is specified. In addition, the standard defines individual tests (piece tests) as well as series and random sample tests for checking the electrical safety of the protective insulation.



Looking for
global distributors
in all areas!

INSULATED PLIERS

-  Soft wire
-  Medium hard wire
-  Hard wires
-  Cu+Al multi-conductor cable, strand and multi-stranded



1000V

Metal part made in CRV steel

Pearl nickel plated surface

Precision machined body with strictly heat treatment

Manufactured according to IEC60900 standard

DIPPED GRIP



DIPPED INSULATED CURVED NOSE CUTTING PLIERS





m		
160	2	1.6
200	2.4	2

DIPPED INSULATED DIAGONAL PLIERS

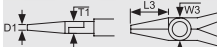


mm			
160	2.6	2.4	2
180	4	2.7	2.2

DIPPED INSULATED COMBINATION PLIERS

m		
160	2	1.6
180	2.4	2
200	2.5	2.2

DIPPED INSULATED FLAT NOSE PLIERS



mm	L3	W3	D1	T1
160	48	16	6.5	9

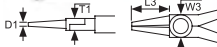
DIPPED INSULATED WATER PUMP PLIERS



mm mm (Max)

250	28
300	35

DIPPED INSULATED ROUND NOSE PLIERS



mm	L3	W3	D1	T1
160	46	16	2.6	9

INJECTION INSULATED CABLE CUTTERS



mm (Max) mm² (Max)

32	240
52	380

DIPPED INSULATED WIRE STRIPPERS



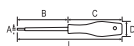
mm mm mm²

160	5.0	10.0
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INSULATED SCREWDRIVERS



Blade made in S2 material,
with black finish surface
Grip and sleeve manufactured
according to EN 60900 standard
Tip type shown by endcap



VDE SLOTTED SCREWDRIVER

mm	mm	A	B	CxD	L
0.4	2.5	2.5	75	95x25	170
0.5	3	3	100	95x25	195
0.6	3.5	3.5	100	95x25	195
0.8	4	4	100	105x30	205
1	5.5	5.5	125	115x35	240
1.2	6.5	6.5	150	115x35	265



Blade made in S2 material,
with black finish surface
Grip and sleeve manufactured
according to EN 60900 standard
Tip type shown by endcap



VDE PHILLIPS SCREWDRIVER

	A	B	CxD	L
PH0	3	60	95X25	155
PH1	5	80	105X30	185
PH2	6	100	115X35	215
PH3	8	150	118X41	268

VDE POZI SCREWDRIVER



	A	B	CxD	L
PZ0	3	60	95X25	155
PZ1	5	80	105X30	185
PZ2	6	100	115X35	215
PZ3	8	150	118X41	268

VDE HEX SCREWDRIVER



	A	B	CxD	L
2.5	2.5	75	95X25	170
3	3	75	95X25	170
4	4	75	105X30	180
5	5	75	105X30	180
6	6	100	115X35	215
8	8	100	118X41	218

INSULATED CHANGABLE SCREWDRIVER 12PCS SET



Content

Slotted: 0.4x2.0x100 0.4x2.5x100 0.5x3.0x100
0.6x3.5x100 0.8x4.0x100 1.0x5.5x100 1.2x6.5x100
Phillips: PH0x100 PH1x100 PH2x100
Voltage Tester: 3.0x70
Handle: 31x105

VDE NUT SCREWDRIVER



	A	B	E	CxD	L
4	7.2	125	31	105x30	230
5	7.2	125	31	105x30	230
5.5	7.2	125	31	105x30	230
6	7.2	125	31	105x30	230
7	7.2	125	31	105x30	230
8	7.2	125	31	105x30	230
9	7.2	125	31	105x30	230
10	7.2	125	31	105x30	230
11	8.1	125	31	118x41	240
12	8.1	125	31	118x41	243
13	8.1	125	31	118x41	243
14	8.1	125	31	118x41	243

2 IN 1 BITS HOLDER

With magnetic
1/4" bits holder

With function of
voltage tester
100-500v



	A	B	E	CxD	L
1/4"	10	105	40	110x30	210

INSULATED WRENCHES & SOCKETS



**DIPPED INSULATED
OPEN END WRENCH**

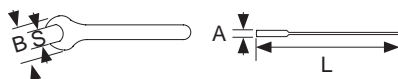
	S	A	B	L
	6	7.5	18	90
	7	7.5	20	90
	8	8	22	100
	9	9	24	100
	10	9	26	105
	11	9.5	29	110
	12	10	32	125
	13	10	33	135
	14	11	35	140
	15	11	38	150
	16	12	40	160
	17	12	42	160
	18	12	44	165
	19	13	45	170
	21	14	48	188
	22	14	52	200
	24	15	55	225
	27	16	62	255
	30	16	62	295
	32	17	70	315

1000V

VDE GS
PENDING



DIPPED



DIPPED INSULATED RING WRENCH

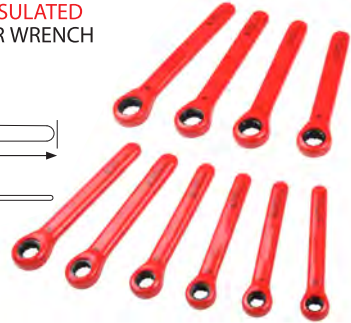
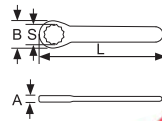
VDE GS
PENDING



	S	A	B	L
	6	8	17	140
	7	10.5	17	150
	8	12	19	155
	9	12	20.5	160
	10	12	20.5	165
	11	12	23	175
	12	12	24	185
	13	13	26	190
	14	13	27	200
	15	13	29	205
	16	14	30	205
	17	14.5	32	210
	18	14.5	33	220
	19	14.5	35	230
	21	16	38	240
	22	16	40	250
	24	16	42	270
	27	16.5	46.5	285
	30	17	50	310
	32	18	52	310

DIPPED INSULATED RING GEAR WRENCH

72 teeth



	S	A	B	L
	10	13.5	25	135
	11	13.5	26.5	140
	12	14	27.5	145
	13	16	29.5	150
	14	16	32	160
	15	17	34.5	165
	16	16.5	34.5	170
	17	18	37.5	180
	18	17	38	190
	19	17	38.5	220

DIPPED INSULATED ADJUSTABLE WRENCH

PRECISION MACHINED BODY
WITH STRICTLY HEAT TREATMENT



mm	S (Max)
200	30
250	36
300	40



DIPPED INSULATED GEAR SOCKET WRENCH

GEAR REVERSIBLE
TWO SIZES IN ONE

Size / mm

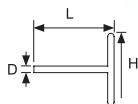
13 X 17

17 X 19

19 X 24

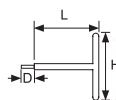


DIPPED INSULATED SOCKET WRENCH



ØI	D	L	H
8	15	200	145
10	19	200	145
12	22.5	200	145
13	23.5	200	145
14	24.5	200	145
16	26.5	200	145
17	28.5	200	145
18	30.5	200	145
19	31.5	200	145
10	19.5	300	145
12	22	300	145
13	23.5	300	145
14	24.5	300	145
16	27	300	145
17	28.5	300	145
18	29.5	300	145
19	31	300	145

DIPPED INSULATED HEXAGON KEY T-WRENCH



ØI	D	L	H
5	15	120	95
6	15	120	95
8	15	120	95
10	15	120	95
5	15	250	95
6	15	250	95
8	15	250	95

DIPPED INSULATED HEXAGON KEY L-WRENCH

FOR HEXAGON SCREWS



DIPPED INSULATED HEXAGON KEY L-WRENCH

FOR HEXAGON SCREWS



⊙ I	mm
3	130
4	140
5	160
6	180
8	210
10	240
12	250

DIPPED INSULATED T-HANDLE



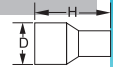
□	H	L
1/2"	155	205
3/8"	155	205

DIPPED INSULATED HEXAGONAL SOCKET 1/2"



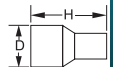
⊙	mm
4	120
5	120
6	120
8	120
10	120

DIPPED INSULATED SOCKET 1/2"



⊙ I	D	H
10	19.7	54
11	21.0	54
12	22.1	54
13	23.3	54
14	24.7	54
16	27.4	54
17	28.1	54
18	29.7	54
19	30.0	54
21	32.0	54
22	34.0	54
24	36.3	54
27	41.0	58
30	44.1	59
32	46.1	59

DIPPED INSULATED SOCKET 3/8"



⊙ I	D	H
8	16.3	44
10	18.9	44
11	20.1	44
12	23.0	44
13	23.1	44
14	23.9	44
16	26.3	44
17	27.7	44
18	29.0	46
19	30.3	46
21	32.0	46
22	34.0	46

DIPPED INSULATED REVERSIBLE RATCHET HANDLE 1/2" 3/8"

VDE GS
PENDING



DIPPED

	mm
1/2"	250
3/8"	200

INJECTION INSULATED EXTENSION BAR 1/2" 3/8"

VDE GS



	mm
1/2"	125
1/2"	250
3/8"	125
3/8"	250

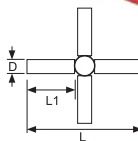
DIPPED INSULATED EXTENSION BAR 1/2" 3/8"

VDE GS



	mm
1/2"	125
1/2"	250
3/8"	125
3/8"	250

DIPPED INSULATED CROSS RIM WRENCH



ØI	D	L1	L
13	24.3	94	230
14	27.3	94	230
17	29.4	94	230
19	31	94	230

INJECTION INSULATED PLASTIC CLAMP

VDE GS C



mm
200

INJECTION INSULATED PLASTIC CLAMP

VDE GS



mm
150

INJECTION INSULATED KNIVES



V50418
CABLE KNIFE (STRAIGHT)



V50616
DISMANTLING KNIFE (SEMICIRCLE)



V51018
DISMANTLING KNIFE (LONG HOOK)



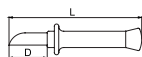
V51218
CABLE KNIFE (GUARD)



S1416
DISMANTLING KNIFE



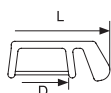
V50819
CABLE KNIFE (CHANGABLE)



D	mm
50	180
28	155
50	180
50	180
38	155
48	185

SPARKless

INJECTION INSULATED JUNIOR HACKSAW



D	L
150	300

VOLTAGE TESTER



VDE GS/CE
125~250V

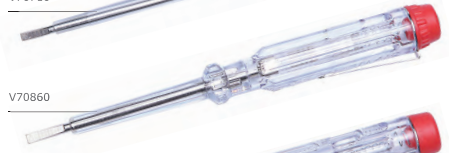
V70670



V70710



V70860



V70960



mm
70
105
60
60

INJECTION INSULATED MALLET



Φ mm	mm	Weight/kg
30	315	0.6

INSULATED TOOLS SET

Metal part made in CRV steel,chrome plated surface
Well heat treated to meet DIN standard
Bi-color injection grip and dipped grip manufactured according to IEC60900 standard

22"
WATER PROOF
CASE
IP67 CLASS



1000V

V81700
22" WATER PROOF CASE
IP67 CLASS

V81852
A+B+C+D
52PCS INSULATED TOOLS SET
WITH WATER PROOF CASE

V81945
A+B+D+F
45PCS INSULATED TOOLS SET
WITH WATER PROOF CASE



A TRAY **V81946**
6PCS INSULATED PLIERS

7" COMBINATION PLIERS
8" LONG NOSE PLIERS
6" DIAGONAL CUTTER
6" STRIPPING PLIERS
10" WATER PUMP PLIERS
6" CABLE CUTTER



B TRAY **V81947**
11PCS SCREWDRIVER, KNIFE
AND TESTER

PH0X60,PH1X80,PH2X100,PH3X150
2.5x75mm,3x100mm,4x100mm,
5.5x125mm,6.5x150mm
STRAIGHT KNIFE
VOLTAGE TESTER



C TRAY **V81948**
21PCS 1/2" SOCKETS AND
ACCESSORY

SOCKETS: 10/11/12/13/14/16/
17/18/19/21/22/24/27
SOCKETS BITS: 4.5,6,8MM
EXTENSION BAR 5"X10"
T HANDLE
RATCHET HANDLE



D TRAY **V81949**
14PCS OPEN WRENCH ES AND
ADJUSTABLE WRENCH ES

OPEN WRENCH 8/10/11/12/13/14/15
/16/17/18/19/22/24
8" ADJUSTABLE WRENCH



E TRAY **V81950**
20PCS 3/8" SOCKETS AND
ACCESSORY

SOCKETS : 8/10/11/12/13/14/
16/17/18/19/21/22
SOCKETS BITS: 4.5,6,8MM
EXTENSION BAR 5"X10"
T HANDLE
RATCHET HANDLE



F TRAY **V81951**
14PCS NUTS AND PRECISION
SCREWDRIVER S

NUT: 5/5.5/6/7/8/10/13
PRECISION:
3/PH0/T6/T8/T10/T15/T20



G TRAY **V81952**
14PCS RING WRENCH ES AND HEX
KEY S

RING WRENCH:
10/11/12/13/14/15/17/19
HEX KEY:3/4/5/6/8/10



H TRAY **V81953**
4PCS SPECIAL TOOL S

240MM RATCHET CABLE CUTTER
HACK SAW
PLASTIC CLAMP*2



AC 1000V
IEC 60900:2004

Sparkless Safety Tools

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