

# SPARKless

-SAFETY FIRST-

## VDE INSULATED SAFETY TOOLS



AC 1000V  
IEC 60900:2004

Manufactured  
According to IEC60900  
Standard and ASTM  
F1505 Standard





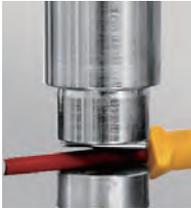
### IMPACT TEST

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 flaking. This test can be compared to a fall of the tool from a height of 0.6m at a temperature of  $-25^{\circ}\text{C}$  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 ( $\pm 0.5$  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!

[www.sparkless.in](http://www.sparkless.in)

# 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 COMBINATION PLIERS

mm		
160	2	1.6
180	2.4	2
200	2.5	2.2

## DIPPED INSULATED CURVED NOSE CUTTING PLIERS



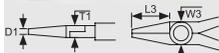
mm		
160	2	1.6
200	2.4	2

## DIPPED INSULATED DIAGONAL PLIERS



mm			
160	2.6	2.4	2
180	4	2.7	2.2

## DIPPED INSULATED FLAT NOSE PLIERS



mm	L3	W3	D1	T1
160	48	16	6.5	9

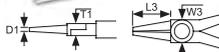
## DIPPED INSULATED WATER PUMP PLIERS



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) mm<sup>2</sup> (Max)

32	240
52	380

## DIPPED INSULATED WIRE STRIPPERS

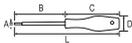


mm	mm	mm <sup>2</sup>
160	5.0	10.0

# 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

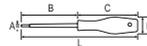


VDE SLOTTED SCREWDRIVER

..	..	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

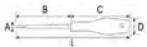
	A	B	CxD	L
PH0	3	60	95X25	155
PH1	5	80	105X30	185
PH2	6	100	115X35	215
PH3	8	150	118X41	268

## 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

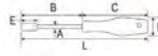
## INSULATED CHANGABLE SCREWDRIVER 12PCS SET



### 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

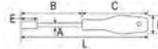


●	A	B	E	CxD	L
4	7.2	125	31	105x30	230
5	7.2	125	31	105x30	230
5.5	7.2	125	31	105x30	230
6	7.2	125	31	105x30	230
7	7.2	125	31	105x30	230
8	7.2	125	31	105x30	230
9	7.2	125	31	105x30	230
10	7.2	125	31	105x30	230
11	8.1	125	31	118x41	240
12	8.1	125	31	118x41	243
13	8.1	125	31	118x41	243
14	8.1	125	31	118x41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

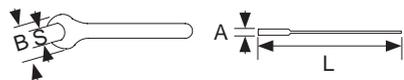
# INSULATED WRENCHES & SOCKETS



**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



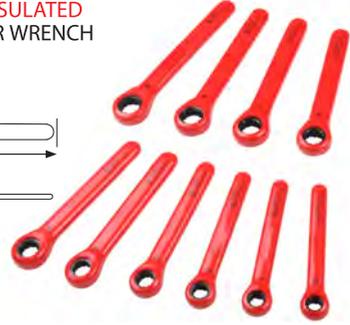
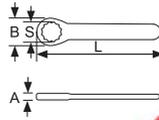
## DIPPED INSULATED RING WRENCH

VDE GS  
PENDING



## DIPPED INSULATED RING GEAR WRENCH

72 teeth



	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

	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

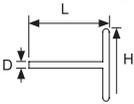
13 X 17

17 X 19

19 X 24

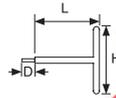


## DIPPED INSULATED SOCKET WRENCH



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



mm
1/2"
270

## 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

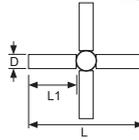
## DIPPED INSULATED EXTENSION BAR 1/2" 3/8"

VDE GS



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

## DIPPED INSULATED CROSS RIM WRENCH



	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)



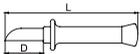
V51218  
CABLE KNIFE (GUARD)



S1416  
DISMANTLING KNIFE



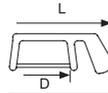
V50819  
CABLE KNIFE (CHANGABLE)



V51501  
KNIFE BLADE

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

## 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"8"10"
- 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"8"10"
- 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

41, Nagdevi Cross Lane, Mumbai 40003  
[www.sparkless.in](http://www.sparkless.in)