

K15



KS TOOLS



HYBRID / HIGH-VOLTAGE TOOLS



Innovation is
our mission!



	PAGE
INDUSTRIAL SAFETY	430 - 431
1/4" PROGRAM	432
3/8" PROGRAM	433 - 435
1/2" PROGRAM	435 - 437
SPANNERS	437 - 438
PLIERS	438 - 442
PLASTIC PLIERS / CLAMPS	442 - 443
CRIMPING TOOLS	443 - 444
SCREWDRIVERS	444
KEY WRENCHES	444 - 445
CABLE CUTTING	445 - 447
ELECTRICIAN'S KNIVES	447 - 448
SAWING	449
BRUSHES	449
HAMMER	449
BOOTS AND INSULATION	449 - 450
TWEEZERS	450
INSPECTION MIRRORS	450
LED LAMP	450
INSULATED TOOL SETS	450 - 451

INDUSTRIAL SAFETY

Insulated electrical protective glove

- Dielectric latex gloves
- Insulated to DIN EN 60903
- With anatomical fit
- Anti-allergy treated
- With straight edge
- UV-resistant packaging

The use of glove liners is recommended for absorbing skin moisture and for better ventilation.

Attention: Over-gloves are necessary for mechanical protection!



	Thickness mm	Size mm	Electrosort Class	L mm	
117.1661	1,0	9	0	400,0	215
117.1662	1,0	10	0	400,0	215
117.1762	2,0	10	0	410,0	470
117.1756	1,0	9	00	410,0	168
117.1757	1,0	10	00	410,0	189

Pneumatic electrician protective glove tester

- For the testing of insulated gloves
- Always carry out before starting work



	D mm	L mm	
117.1666	110,0	140,0	800

Protection pocket for electricians gloves

- Belt pocket made out of canvas
- For the storage and protection of the electricians gloves



	B mm	H mm	
117.1665	180,0	200,0	200

Insulated electrical protective glove

- Dielectric latex gloves
- Insulated to DIN EN 60903
- With anatomical fit
- Anti-allergy treated
- With straight edge
- UV-resistant packaging

The use of glove liners is recommended for absorbing skin moisture and for better ventilation.

Attention: Over-gloves are necessary for mechanical protection!



	Thickness mm	Electrosort Class	Size mm	L mm	
117.1663	1,0	0	9	360,0	215
117.1664	1,0	0	10	360,0	215
117.1132	2,0	1	10	360,0	250
117.1133	2,0	3	10	410,0	690
117.1134	2,5	4	10	410,0	890

Pull-on gloves for electrician's protective gloves

- Waterproof
- Treated with silicone
- Leather gloves for dielectric gloves
- Velcro fastening on the back of the hand
- Split leather cuff
- For protecting against mechanical risks
- Full-grain calf leather

Caution: This insulating-glove cover is required for mechanical protection (rubbing, cuts, pricks) in conjunction with dielectric gloves!



	Size mm	L mm	
117.1560	10	320,0	175

Under gloves

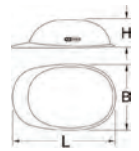
- Made out of fine mutton cloth



	L mm	
117.1660	260,0	225

Work protective hardhat

- DIN EN 397
- Special plastic



	Colour code	L mm	B mm	H mm	
117.1608		290,0	225,0	175,0	370
117.1609		290,0	225,0	175,0	370
117.1610		290,0	225,0	175,0	370

Electrician's face shield

- DIN EN 397
- Fault arc tested to DGUV GS-ET-29, test level W(LBP) = 158 kJ (corresponds to prospective test short-circuit current 4 kA/0.5 s) EN 166
- Personal eye protection equipment
- Natural rendering of colours thanks to transparent, non-tinted visor
- Colour rendering index > 90%
- Light transmission: > 88%
- Suitable for standard electrician's hardhat
- Face shield for 117.1608-117.1610



	Arc fault		
117.1780	class 1	1000V	278

Electrician's face shield

- DIN EN 166
- Fault arc tested to DGUV GS-ET-29, test level W(LBP) = 318 kJ (corresponds to prospective test short-circuit current 7 kA/0.5 s) EN 166
- Personal eye protection equipment
- Also fault arc tested to ASTM F2178, ATPV: 7.0 cal/cm²
- Natural rendering of colours thanks to transparent, non-tinted visor
- Colour rendering index > 90%
- Light transmission > 70%
- Suitable for standard electrician's hardhat
- Anti-mist protective gel supplied



	Arc fault		
117.1796	class 2	1000V	525

Carrying bag for work helmet

- Made out of red leather
- With carrying strap



	B mm	H mm	kg
117.1612	500.0	480.0	500

Insulated safety rubber boots

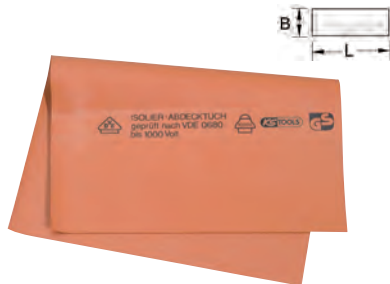
- For working environment of voltages AC 1000 V and DC 1500 V
- In accordance with new standard EN 50321
- With steel bar



	Size mm	⚡	kg
117.1613	39	1000V	3.00
117.1614	40	1000V	3.00
117.1615	41	1000V	3.00
117.1616	42	1000V	3.00
117.1617	43	1000V	3.00
117.1618	44	1000V	3.00
117.1619	45	1000V	3.00
117.1620	46	1000V	3.00
117.1621	47	1000V	3.00

Insulated rubber protective mat

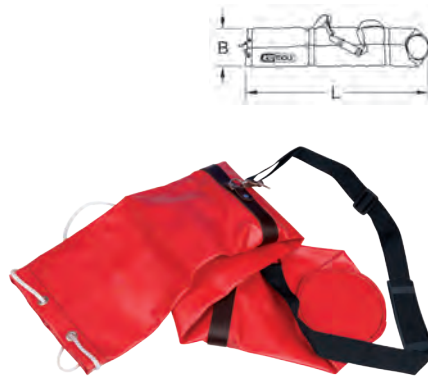
- Tested to VDE 0680/1
- Insulated to DIN EN 60903
- Extensively tear and water resistant
- Particularly suitable for external usage



	Thickness mm	B mm	L mm	⚡	kg
117.1651	1,0	130,0	130,0	⚡ GS	0,04
117.1652	1,0	250,0	350,0	⚡ GS	0,21
117.1653	1,0	500,0	500,0	⚡ GS	0,43
117.1654	1,0	600,0	600,0	⚡ GS	0,70
117.1655	1,0	1000,0	1000,0	⚡ GS	1,80
117.1656	1,0	1200,0	1000,0	⚡ GS	2,95
117.1657	1,0	1000,0	10000,0	⚡ GS	16,75
117.1658	1,0	1200,0	10000,0	⚡ GS	20,10

Protective bag for insulating mat

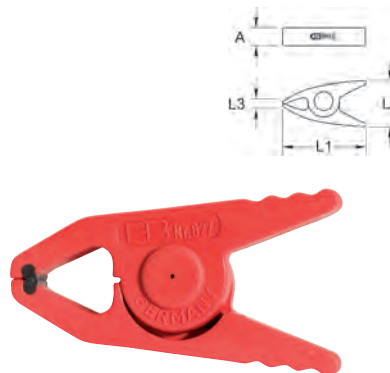
- Made out of red leather
- With carrying strap



	B mm	L mm	kg
117.1399	230.0	1000.0	900

Insulated plastic clamp, small

- Insulated to IEC 60900
- Extra small execution
- With inserted steel spring
- For clamping of uncovered cable
- Made from plastic



	A mm	L1 mm	L2 mm	L3 mm	⚡	kg
117.1643	15.0	80.0	44.0	10.0	⚡ GS	30

Insulated plastic clamp, large

- Insulated to IEC 60900
- In large execution
- With inserted steel spring
- For clamping of uncovered cable
- Made from plastic



	A mm	L1 mm	L2 mm	L3 mm	⚡	kg
117.1644	16.0	160.0	94.0	27.0	⚡ GS	70

Red/white diagonal striped foil barrier tape

- For safeguarding and indicating hazard areas
- In accordance with ASR A1.3 and BGV A8
- High tear resistance
- Block diagonal stripes in red/white
- For outdoor and indoor use
- Polyethylene
- In stable unwinding box



	B mm	L m	kg
917.3899	50.0	500.0	2.50

Hybrid warning sign - flash for working on hybrid and electric vehicles

- Warning against hazardous voltage
- For safety in the workplace
- For outdoor and indoor use
- For company premises and workshops
- Sturdy quality with laminate coating
- Resistant to abrasion and chemicals
- Aluminium/plastic composite



	Thickness mm	L mm	kg
917.3898	5	200.0	66

Hybrid warning sign - switch for working on hybrid and electric vehicles

- Do not switch on, work is currently in progress
- For safety in the workplace
- For outdoor and indoor use
- For company premises and workshops
- Sturdy quality with laminate coating
- Resistant to abrasion and chemicals
- Aluminium/plastic composite

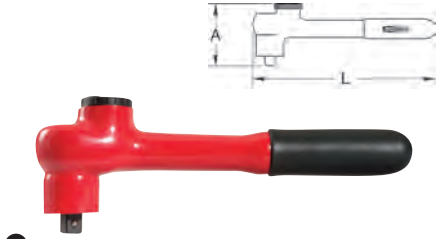


	Thickness mm	Ø mm	kg
917.3897	5	200	84

1/4" PROGRAM

Insulated reversing ratchet

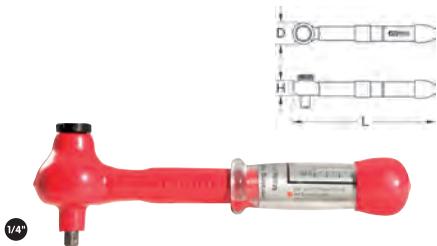
- Square drive adaptor to DIN 3120 / 1174 with ball lock
- In accordance to DIN 7449
- Insulated handle to IEC 60900
- With reversible 32-teeth ratchet head
- With frictional contact square drive with locking device
- Chrome vanadium



	■	A mm	L mm	⚡	⚙️
117.1401	1/4"	54.5	141.0	1000V	128

Insulated mini torque wrench with reversible ratchet head

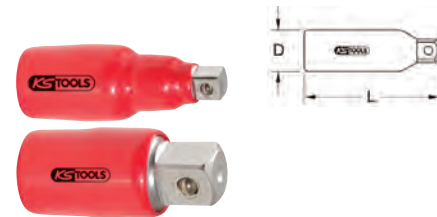
- Insulated handle to IEC 60900
- For working environment of voltages AC 1000 V and DC 1500 V
- Actuation accuracy: $\pm 3\%$ tolerance of the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- An audible and palpable signal when the desired torque value is achieved
- With exact gearing 30 teeth ratchet mechanism
- Ergonomic designed handle provides secure transmission of the torque
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 national standard



	■	N·m	D mm	H mm	L mm	⚡	⚙️
117.1400	1/4"	2-12	40.0	41.0	200.0	1000V	400
117.1402	1/4"	5-25	40.0	41.0	200.0	1000V	420

Insulated reducing adaptor

- In accordance to DIN 3123 / ISO 3316
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Matt chrome
- Chrome vanadium



	□	■	D mm	L mm	⚡	⚙️
117.1189	1/4"	3/8"	17.0	39.0	1000V	60
117.3885	3/8"	1/2"	23.0	52.0	1000V	80
117.1190	3/8"	1/4"	22.0	86.0	1000V	60
117.1285	1/2"	3/8"	20.0	75.0	1000V	220

Insulated extension

- In accordance to DIN 7434
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- With frictional contact square drive with locking device
- Chrome vanadium



	■	L mm	⚡	⚙️
117.1451	1/4"	50.0	1000V	40
117.1452	1/4"	75.0	1000V	45
117.1453	1/4"	100.0	1000V	56
117.1454	1/4"	150.0	1000V	68

Insulated socket

- 6 point
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium



	⌀ mm	D1 mm	D2 mm	L mm	⚡	⚙️
117.1404	4	16.0	10.0	37.0	1000V	14
117.1405	5	16.5	11.5	37.0	1000V	12
117.1406	6	16.5	12.0	37.0	1000V	12
117.1407	7	16.5	13.5	37.0	1000V	15
117.1408	8	16.5	15.5	37.0	1000V	15
117.1409	9	16.5	16.5	37.0	1000V	16
117.1410	10	16.5	17.5	37.0	1000V	18
117.1411	11	16.5	20.0	37.0	1000V	18
117.1412	12	16.5	21.0	37.0	1000V	24
117.1413	13	16.5	22.0	37.0	1000V	26
117.1414	14	16.5	24.0	37.0	1000V	29

Insulated bit socket for hexagon screws

- Hexagon socket
- Insulated handle to IEC 60900
- Internal square drive adaptor to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium



	⌀ mm	D mm	L mm	⚡	⚙️
117.1415	3	16.5	44.0	1000V	13
117.1416	4	16.5	44.0	1000V	13
117.1417	5	16.5	44.0	1000V	14
117.1418	6	16.5	44.0	1000V	15
117.1419	8	16.5	44.0	1000V	19

Insulated bit holder

- Insulated handle to IEC 60900
- Internal square drive adaptor to DIN 3120 / ISO 1174 with ball reception
- With magnet
- For bits to DIN 3126 / C 6,3
- Chrome vanadium



	□	○	D1 mm	D2 mm	L mm	⚡	⚙️
117.1420	1/4"	1/4"	16.0	16.5	40.0	1000V	240

Insulated socket wrench set

- Insulated handle to IEC 60900
- In durable plastic storage case
- Chrome vanadium



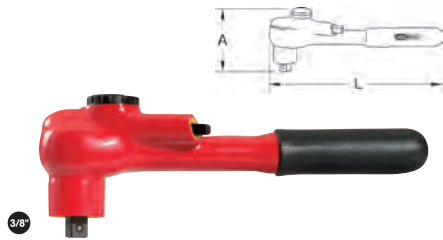
	⚙️	⚡
117.1877	22 pcs Insulated socket wrench set	1.60
1 x	1/4"	
4 x	1/4": 50 - 75 - 100 - 150 mm	
1 x	1/4"	
1 x	1/4"	
10 x	1/4": 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	
5 x	1/4": 3 - 4 - 5 - 6 - 8 mm	



3/8" PROGRAM

Insulated reversing ratchet

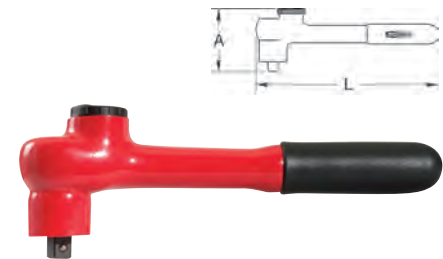
- Square drive adaptor to DIN3120 / ISO 1174 with ball lock
- In accordance to DIN 7449
- Insulated handle to IEC 60900
- With reversible 32-teeth ratchet head
- Secure locking function on the square drive
- Chrome vanadium



	■	A mm	L mm	⚡	⚙️
117.3800	3/8"	78.0	205.0	1000V	370

Insulated reversing ratchet

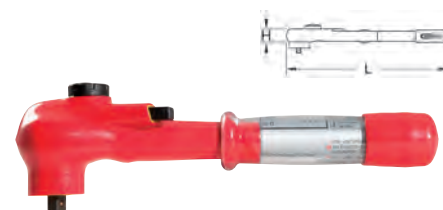
- Square drive adaptor to DIN 3120 / 1174 with ball lock
- In accordance to DIN 7449
- Insulated handle to IEC 60900
- With reversible 32-teeth ratchet head
- With frictional contact square drive with locking device
- Chrome vanadium



	■	A mm	L mm	⚡	⚙️
117.3801	3/8"	73.0	200.0	1000V	350

Insulated torque wrench with reversible ratchet head

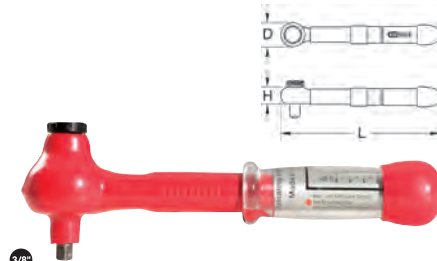
- Insulated handle to IEC 60900
- For working environment of voltages AC 1000 V and DC 1500 V
- Actuation accuracy: $\pm 3\%$ tolerance of the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Scale in N-m divisions for precise adjustment
- Large vision panel for precise adjustment
- An audible and palpable signal when the desired torque value is achieved
- With exact gearing 30 teeth ratchet mechanism
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 national standard



	■	N-m	H mm	L mm	⚡	⚙️
117.3805	3/8"	2-27	51.0	280.0	1000V	0.92
117.3810	3/8"	5-50	51.0	370.0	1000V	1.07

Insulated mini torque wrench with reversible ratchet head

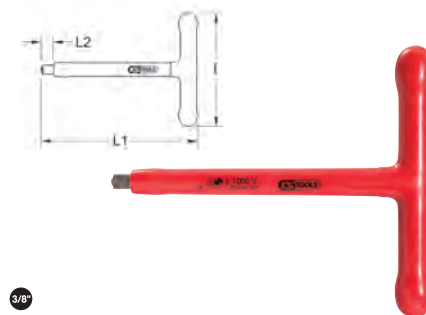
- Insulated handle to IEC 60900
- For working environment of voltages AC 1000 V and DC 1500 V
- Actuation accuracy: $\pm 3\%$ tolerance of the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- An audible and palpable signal when the desired torque value is achieved
- With exact gearing 30 teeth ratchet mechanism
- Ergonomic designed handle provides secure transmission of the torque
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 national standard



	■	N-m	D mm	H mm	L mm	⚡	⚙️
117.1184	3/8"	5-25	40.0	42.0	200.0	1000V	440

Insulated T-grip socket spanner with screw adjustment

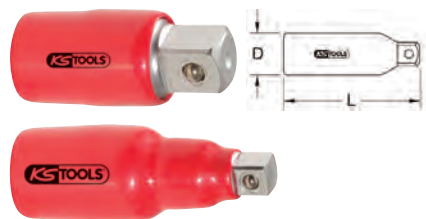
- Square drive adaptor to DIN 3120 / 1174 with ball lock
- In accordance to DIN 7436
- Insulated handle to IEC 60900
- With screw adjustment
- Chrome vanadium



	■	I mm	L1 mm	L2 mm	⚡	⚙️
117.3820	3/8"	165.0	200.0	15.0	1000V	250

Insulated reducing adaptor

- In accordance to DIN 3123 / ISO 3316
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Matt chrome
- Chrome vanadium



	□	■	D mm	L mm	⚡	⚙️
117.1189	1/4"	3/8"	17.0	39.0	1000V	60
117.3885	3/8"	1/2"	23.0	52.0	1000V	80
117.1190	3/8"	1/4"	22.0	86.0	1000V	60
117.1285	1/2"	3/8"	20.0	75.0	1000V	220

Insulated extension

- In accordance to DIN 7434
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- With frictional contact square drive with locking device
- Chrome vanadium



	■	L mm	⚡	⚙️
117.3851	3/8"	125.0	1000V	140
117.3852	3/8"	250.0	1000V	280

Insulated extension with screw adjustment

- In accordance to DIN 7434
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- With screw adjustment on the square drive
- Chrome vanadium



	■	L mm	⚡	⚙️
117.3823	3/8"	125.0	1000V	140
117.3825	3/8"	250.0	1000V	280



1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26

Insulated socket

- 12 point
- FlankTraction profile
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium



3/8"

	mm	D1 mm	D2 mm	L mm	⚡	U
117.3831	6	23.0	14.0	48.0	1000V	30
117.3832	7	23.0	15.0	48.0	1000V	30
117.3833	8	23.0	16.0	48.0	1000V	30
117.3834	9	23.0	17.0	48.0	1000V	35
117.3835	10	23.0	19.5	48.0	1000V	35
117.3836	11	23.0	19.5	48.0	1000V	35
117.3837	12	23.0	20.5	48.0	1000V	40
117.3838	13	23.0	23.0	48.0	1000V	40
117.3839	14	23.0	23.5	48.0	1000V	40
117.3840	15	23.0	26.0	48.0	1000V	45
117.3841	16	23.0	26.5	48.0	1000V	45
117.3842	17	23.0	28.0	48.0	1000V	50
117.3843	18	23.0	30.0	48.0	1000V	50
117.3844	19	23.0	30.0	48.0	1000V	60
117.3845	20	23.0	32.0	48.0	1000V	60
117.3846	21	23.0	33.5	48.0	1000V	60
117.3847	22	23.0	37.5	48.0	1000V	60
117.3813	23	22.5	34.0	48.0	1000V	91
117.3848	24	23.0	38.5	48.0	1000V	60
117.1020	1/4"	22.0	13.0	48.0	1000V	30
117.1021	5/16"	22.0	15.5	48.0	1000V	30
117.1022	3/8"	22.0	19.0	48.0	1000V	31
117.1023	7/16"	22.0	20.0	48.0	1000V	32
117.1024	1/2"	22.0	23.0	48.0	1000V	40
117.1025	9/16"	22.0	24.5	48.0	1000V	40
117.1026	5/8"	22.0	26.5	48.0	1000V	42
117.1027	11/16"	22.0	29.0	48.0	1000V	50
117.1028	3/4"	22.0	30.0	48.0	1000V	60
117.1029	13/16"	22.0	32.0	48.0	1000V	60
117.1030	7/8"	22.0	36.0	48.0	1000V	60
117.1031	15/16"	22.0	37.0	48.0	1000V	91

Insulated socket, deep

- FlankTraction profile
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium

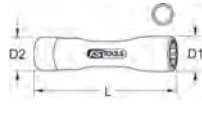


3/8"

	Profile	mm	D1 mm	D2 mm	L mm	⚡	U
117.1090	○	10	22.0	18.0	80.0	1000V	60
117.1091	○	11	22.0	19.5	80.0	1000V	60
117.1092	○	12	22.0	21.0	80.0	1000V	70
117.1093	○	13	22.0	23.0	80.0	1000V	70
117.1094	○	14	22.0	24.0	80.0	1000V	80
117.1095	○	15	22.0	26.0	80.0	1000V	80
117.1096	○	16	22.0	27.0	80.0	1000V	110
117.1097	○	17	22.0	28.0	80.0	1000V	110
117.3881	○	18	22.0	29.5	80.0	1000V	138
117.3882	○	19	22.0	30.5	80.0	1000V	180
117.3883	○	22	22.0	34.5	80.0	1000V	180
117.3884	○	24	22.0	37.5	80.0	1000V	213

Insulated socket, extra deep

- 12 point
- FlankTraction profile
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Insulated handle to IEC 60900
- Chrome vanadium

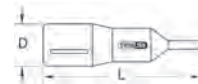


3/8"

	mm	D1 mm	D2 mm	L mm	⚡	U
117.3853	10	23.0	19.0	135.0	1000V	180
117.3854	11	23.0	20.0	135.0	1000V	185
117.3855	12	23.0	22.0	135.0	1000V	200
117.3856	13	23.0	22.0	135.0	1000V	210
117.3857	14	23.0	26.0	135.0	1000V	220
117.3858	17	23.0	29.0	135.0	1000V	240
117.3859	19	23.0	31.0	135.0	1000V	260
117.3860	22	23.0	35.0	135.0	1000V	280

Insulated bit socket for hexagon screws

- Hexagon socket
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium



3/8"

	mm	D mm	L mm	⚡	U
117.1735	4	22.0	54.0	1000V	40
117.1736	5	22.0	54.0	1000V	40
117.1737	6	22.0	54.0	1000V	40
117.1738	8	22.0	54.0	1000V	40

Insulated bit socket, long

- Hexagon socket
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium

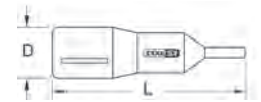


3/8"

	mm	D mm	L mm	⚡	U
117.3861	4	23.0	82.0	1000V	45
117.3862	5	23.0	82.0	1000V	50
117.3863	6	23.0	82.0	1000V	50
117.3864	8	23.0	82.0	1000V	65
117.3865	10	23.0	82.0	1000V	80
117.3866	12	23.0	82.0	1000V	85
117.3867	4	23.0	116.0	1000V	70
117.3868	5	23.0	116.0	1000V	75
117.3869	6	23.0	116.0	1000V	76
117.3870	8	23.0	116.0	1000V	75
117.3871	10	23.0	116.0	1000V	80
117.3872	12	23.0	116.0	1000V	85
117.3873	5	23.0	270.0	1000V	100
117.3874	6	23.0	270.0	1000V	100
117.3875	5	23.0	270.0	1000V	115
117.3876	6	23.0	270.0	1000V	120
117.3877	8	23.0	270.0	1000V	140
117.3878	10	23.0	270.0	1000V	170

Insulated bit socket for Spline(XZN®) screws

- Spline(XZN®)
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Burnished
- Chrome vanadium

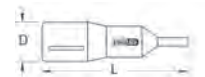


3/8"

	mm	D mm	L mm	⚡	U	
117.3893	3/8"	M8	23.0	95.0	1000V	85
117.3894	3/8"	M10	23.0	95.0	1000V	90
117.3895	3/8"	M12	23.0	95.0	1000V	95

Insulated bit socket for PZ screws

- PZ
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium



3/8"

		D mm	L mm	⚡	U
117.1739	PZ 1	22.0	95.0	1000V	60
117.1740	PZ 2	22.0	95.0	1000V	58
117.1741	PZ 3	22.0	95.0	1000V	70

Insulated bit holder

- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- With magnet
- For bits to DIN 3126 / C 6.3
- Chrome vanadium



3/8"

	mm	D1 mm	D2 mm	L mm	⚡	U	
117.3811	3/8"	1/4"	25.0	13.0	125.0	1000V	165
117.3812	3/8"	1/4"	25.0	13.0	250.0	1000V	250

Insulated socket wrench set

- Insulated handle to IEC 60900
- In durable plastic storage case
- Chrome vanadium

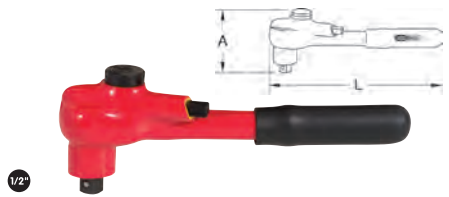


117.1888 13 pcs Insulated socket wrench set 2.40			
1 x		3/8"	
2 x		3/8": 125 - 250 mm	
1 x		3/8"	
5 x		3/8": 8 - 10 - 13 - 17 - 19 mm	
4 x		3/8": 4 - 5 - 6 - 8 mm	

1/2" PROGRAM

Insulated reversing ratchet

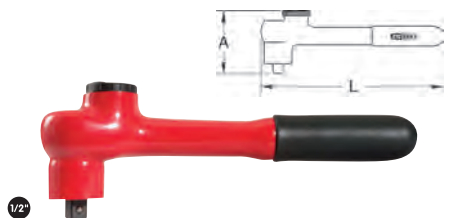
- Square drive adaptor to DIN3120 / ISO 1174 with ball lock
- In accordance to DIN 7449
- Insulated handle to IEC 60900
- With reversible 32-teeth ratchet head
- Secure locking function on the square drive
- Special tool steel



	A mm	L mm	⚡	⚙️
117.1200	1/2"	88.0	245.0	750

Insulated reversing ratchet

- Square drive adaptor to DIN 3120 / 1174 with ball lock
- In accordance to DIN 7449
- Insulated handle to IEC 60900
- With reversible 32-teeth ratchet head
- With frictional contact square drive with locking device
- Chrome vanadium



	A mm	L mm	⚡	⚙️
117.1201	1/2"	90.0	245.0	700

Insulated torque wrench with reversible ratchet head

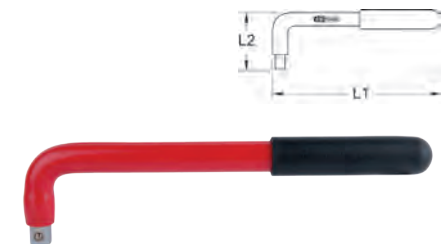
- Insulated handle to IEC 60900
- For working environment of voltages AC 1,000 V and DC 1500 V
- Actuation accuracy: $\pm 3\%$ tolerance of the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Scale in N·m divisions for precise adjustment
- Large vision panel for precise adjustment
- An audible and palpable signal when the desired torque value is achieved
- With exact gearing 30 teeth ratchet mechanism
- Torque setting is quick and easy using the locking knob in the handle end
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 national standard



		N·m	H mm	L mm	⚡	⚙️
117.1301	1/2"	2-27	61.0	280.0	1000V	0.93
117.1300	1/2"	5-50	61.0	370.0	1000V	1.10
117.1302	1/2"	20-100	61.0	460.0	1000V	1.20
117.1303	1/2"	40-220	61.0	530.0	1000V	1.30

Insulated socket spanner

- Square drive adaptor to DIN 3120 / 1174 with ball lock
- In accordance to DIN 7436
- Insulated handle to IEC 60900
- With screw adjustment
- Chrome vanadium



	L1 mm	L2 mm	⚡	⚙️
117.1403	1/2"	280.0	70.0	470

Insulated T-grip socket spanner with screw adjustment

- Square drive adaptor to DIN 3120 / 1174 with ball lock
- In accordance to DIN 7436
- Insulated handle to IEC 60900
- With screw adjustment
- Chrome vanadium



	L1 mm	L2 mm	⚡	⚙️
117.1205	1/2"	165.0	200.0	490

Insulated reducing adaptor

- In accordance to DIN 3123 / ISO 3316
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Matt chrome
- Chrome vanadium



	D mm	L mm	⚡	⚙️
117.1285	1/2"	3/8"	20.0	75.0

Insulated extension

- In accordance to DIN 7434
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- With frictional contact square drive with locking device
- Chrome vanadium



	L mm	⚡	⚙️
117.1251	1/2"	125.0	212
117.1252	1/2"	250.0	395

Insulated extension with screw adjustment

- In accordance to DIN 7434
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- 250 mm with locking screw at the outer square
- 125 mm with locking screw also for connected Hex, Torx, XZN sockets trough the extension by the inner square
- With screw adjustment on the square drive
- Chrome vanadium



	L mm	⚡	⚙️
117.1202	1/2"	125.0	211
117.1203	1/2"	250.0	406

Insulated extension

- In accordance to DIN 7434
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- With frictional contact square drive with locking device
- Chrome vanadium



	L mm	⚡	⚙️
117.1229	1/2"	125.0	198
117.1231	1/2"	250.0	374

Insulated socket

- 6 point
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium



	mm	D1 mm	D2 mm	L mm	⚡	⚙️
117.1208	8	26.0	17.0	55.0	1000V	65
117.1209	9	26.0	19.0	55.0	1000V	65
117.1210	10	26.0	20.0	55.0	1000V	70
117.1211	11	26.0	21.0	55.0	1000V	75
117.1212	12	26.0	22.0	55.0	1000V	75
117.1213	13	26.0	23.5	55.0	1000V	75
117.1214	14	26.0	25.0	55.0	1000V	80
117.1215	15	26.0	26.0	55.0	1000V	80
117.1216	16	26.0	26.5	55.0	1000V	85
117.1217	17	26.0	28.5	55.0	1000V	90
117.1218	18	26.0	31.0	55.0	1000V	85
117.1219	19	26.0	31.5	55.0	1000V	100
117.1220	20	26.0	33.0	55.0	1000V	100
117.1221	21	26.0	34.5	55.0	1000V	120
117.1222	22	26.0	35.0	55.0	1000V	120
117.1223	23	26.0	36.0	55.0	1000V	125
117.1224	24	26.0	37.0	55.0	1000V	140
117.1226	26	26.0	39.0	61.0	1000V	175
117.1227	27	26.0	41.0	61.0	1000V	195
117.1228	28	26.0	44.0	61.0	1000V	190
117.1230	30	26.0	46.0	61.0	1000V	230
117.1232	32	26.0	49.5	61.0	1000V	280

Insulated socket, long

- 6 point
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium



	mm	D1 mm	D2 mm	L mm	⚡	⚙️
117.1333	8	26.0	19.0	94.0	1000V	105
117.1334	10	26.0	21.0	94.0	1000V	110
117.1335	11	26.0	21.0	94.0	1000V	130
117.1336	12	26.0	22.0	94.0	1000V	145
117.1337	13	26.0	23.5	94.0	1000V	145
117.1338	14	26.0	25.5	94.0	1000V	145
117.1339	15	26.0	27.0	94.0	1000V	145
117.1340	16	26.0	28.0	94.0	1000V	160
117.1341	17	26.0	29.0	94.0	1000V	180
117.1342	18	26.0	30.0	94.0	1000V	190
117.1343	19	26.0	30.5	94.0	1000V	210
117.1344	21	26.0	35.0	94.0	1000V	215
117.1345	22	26.0	35.5	94.0	1000V	230
117.1346	23	26.0	36.0	94.0	1000V	235
117.1347	24	26.0	39.0	94.0	1000V	250
117.1348	27	26.0	42.0	94.0	1000V	390
117.1349	30	26.0	46.5	94.0	1000V	420
117.1350	32	26.0	48.5	94.0	1000V	460

Insulated socket, extra deep

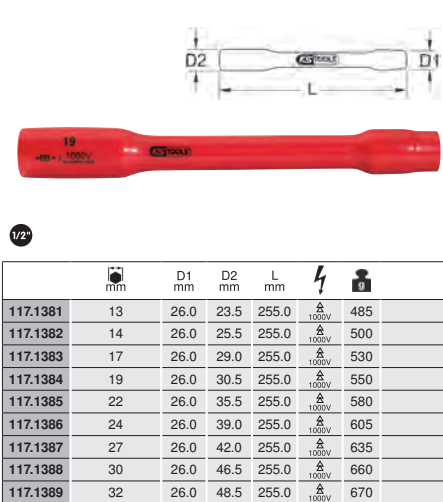
- 6 point
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium



	mm	D1 mm	D2 mm	L mm	⚡	⚙️
117.1371	13	26.0	23.5	145.0	1000V	250
117.1372	14	26.0	25.5	145.0	1000V	260
117.1373	17	26.0	29.0	145.0	1000V	280
117.1374	19	26.0	30.5	145.0	1000V	295
117.1375	22	26.0	35.5	145.0	1000V	310
117.1376	24	26.0	29.0	145.0	1000V	330
117.1377	27	26.0	42.0	145.0	1000V	350
117.1378	30	26.0	46.5	145.0	1000V	380
117.1379	32	26.0	48.5	145.0	1000V	410

Insulated socket, extra deep

- 6 point
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium



	mm	D1 mm	D2 mm	L mm	⚡	⚙️
117.1381	13	26.0	23.5	255.0	1000V	485
117.1382	14	26.0	25.5	255.0	1000V	500
117.1383	17	26.0	29.0	255.0	1000V	530
117.1384	19	26.0	30.5	255.0	1000V	550
117.1385	22	26.0	35.5	255.0	1000V	580
117.1386	24	26.0	39.0	255.0	1000V	605
117.1387	27	26.0	42.0	255.0	1000V	635
117.1388	30	26.0	46.5	255.0	1000V	660
117.1389	32	26.0	48.5	255.0	1000V	670



Insulated socket

- 12 point
- FlankTraction profile
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium



	mm	D1 mm	D2 mm	L mm	⚡	⚙️
117.1351	5/16"	26.0	18.0	55.0	1000V	70
117.1352	3/8"	26.0	19.5	55.0	1000V	70
117.1353	7/16"	26.0	21.0	55.0	1000V	75
117.1354	15/32"	26.0	21.5	55.0	1000V	75
117.1355	1/2"	26.0	24.5	55.0	1000V	75
117.1356	9/16"	26.0	25.0	55.0	1000V	80
117.1357	5/8"	26.0	26.5	55.0	1000V	85
117.1358	11/16"	26.0	29.0	55.0	1000V	90
117.1359	25/32"	26.0	29.5	55.0	1000V	85
117.1361	3/4"	26.0	30.0	55.0	1000V	100
117.1362	13/16"	26.0	34.5	55.0	1000V	110
117.1363	7/8"	26.0	35.5	59.0	1000V	120
117.1364	15/16"	26.0	38.0	59.0	1000V	140
117.1368	1"	26.0	39.5	59.0	1000V	175
117.1369	1.1/8"	26.0	45.0	59.0	1000V	190
117.1367	1.1/4"	26.0	49.0	59.0	1000V	280

Insulated bit socket

- Hexagon socket
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium



	mm	D mm	L mm	⚡	⚙️
117.1151	4	26.0	95.0	1000V	80
117.1152	5	26.0	95.0	1000V	80
117.1153	6	26.0	95.0	1000V	85
117.1154	8	26.0	95.0	1000V	95
117.1155	10	26.0	95.0	1000V	105
117.1156	12	26.0	95.0	1000V	125
117.1157	14	26.0	95.0	1000V	170
117.1158	17	26.0	95.0	1000V	185
117.1159	19	26.0	95.0	1000V	195

Insulated bit socket, long

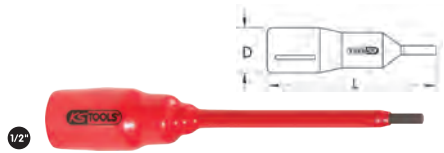
- Hexagon socket
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium



	mm	D mm	L mm	⚡	⚙️
117.1161	4	26.0	118.0	1000V	95
117.1162	5	26.0	118.0	1000V	100
117.1163	6	26.0	118.0	1000V	100
117.1164	8	26.0	118.0	1000V	110
117.1165	10	26.0	118.0	1000V	110
117.1166	12	26.0	118.0	1000V	160

Insulated bit socket, extra long

- Hexagon socket
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium



	mm	D mm	L mm	⚡	U
117.1171	5	26.0	156.0	1000V	110
117.1172	6	26.0	156.0	1000V	110
117.1173	5	26.0	267.0	1000V	125
117.1174	6	26.0	267.0	1000V	145
117.1175	8	26.0	267.0	1000V	155
117.1176	10	26.0	267.0	1000V	190

Insulated socket wrench set

- Insulated handle to IEC 60900
- In durable plastic storage case



	mm	A mm	B mm	L mm	⚡	U
117.1860	16 pcs	Insulated socket wrench set		4.50		
1 x		1/2"				
2 x		1/2": 125 - 250 mm				
1 x		1/2"				
8 x		1/2": 10 - 12 - 13 - 14 - 17 - 19 - 22 - 24 mm				
3 x		1/2": 5 - 6 - 8 mm				
1 x		3,5 mm				



SPANNERS

Insulated open ended spanner

- In accordance to DIN 7446
- Insulated handle to IEC 60900
- Jaw 15° offset
- Chrome vanadium



	mm	A mm	B mm	L mm	⚡	U
117.1506	6	12.0	23.5	70.1	1000V	30
117.1507	7	12.0	25.0	77.0	1000V	30
117.1508	8	12.5	27.2	84.0	1000V	30
117.1509	9	12.5	29.2	90.0	1000V	40
117.1510	10	13.0	31.2	97.0	1000V	40
117.1511	11	13.4	33.3	104.0	1000V	50
117.1512	12	13.5	35.2	110.0	1000V	50
117.1513	13	13.9	37.4	117.0	1000V	70
117.1514	14	14.2	39.5	124.0	1000V	80
117.1515	15	14.4	41.2	130.0	1000V	90
117.1516	16	14.7	42.7	137.0	1000V	120
117.1517	17	14.9	44.5	144.0	1000V	120
117.1518	18	15.2	46.7	150.0	1000V	120
117.1519	19	15.4	48.7	157.0	1000V	150
117.1522	22	16.2	54.9	174.0	1000V	190
117.1524	24	16.7	58.4	190.0	1000V	300
117.1527	27	17.4	63.7	210.0	1000V	390
117.1530	30	18.1	69.8	230.0	1000V	510
117.1532	32	18.4	65.8	244.0	1000V	550

Insulated ratchet ring spanner

- FlankTraction profile
- In accordance to DIN 7446
- Insulated handle to DIN 60900
- Straight form
- Exact gearing with 72 teeth
- Chrome vanadium



	mm	A mm	B mm	L mm	⚡	U
117.4206	6	6.7	14.4	126.0	1000V	30
117.4207	7	6.9	17.2	137.0	1000V	40
117.4208	8	6.9	17.2	140.0	1000V	40
117.4209	9	7.3	19.2	150.0	1000V	40
117.4210	10	7.7	21.2	159.0	1000V	60
117.4211	11	8.1	22.2	165.0	1000V	60
117.4212	12	8.6	23.2	172.0	1000V	80
117.4213	13	9.0	25.2	178.0	1000V	90
117.4214	14	9.4	28.2	191.0	1000V	120
117.4215	15	9.8	29.2	200.0	1000V	130
117.4216	16	10.3	31.2	208.0	1000V	160
117.4217	17	10.7	32.2	226.0	1000V	190
117.4218	18	11.1	33.2	237.0	1000V	230
117.4219	19	11.6	34.2	248.0	1000V	250
117.4221	21	13.4	40.4	274.0	1000V	360
117.4222	22	13.4	40.4	290.0	1000V	340
117.4224	24	14.9	46.4	323.0	1000V	490
117.4227	27	15.9	52.4	331.0	1000V	610
117.4228	30	17.4	59.2	389.0	1000V	900
117.4229	32	17.9	62.4	415.0	1000V	1100
117.4230	34	17.9	62.4	460.0	1000V	1250

Insulated ring spanner, offset

- FlankTraction profile
- In accordance to DIN 7447
- Insulated handle to IEC 60900
- Ring head 75° offset
- Chrome vanadium



	mm	A mm	B mm	L mm	⚡	U
117.1306	6	6.1	13.6	160.0	1000V	55
117.1307	7	6.7	12.6	160.0	1000V	55
117.1308	8	7.1	14.0	170.0	1000V	60
117.1309	9	7.4	15.5	170.0	1000V	65
117.1310	10	7.8	17.0	170.0	1000V	80
117.1311	11	8.1	18.4	180.0	1000V	90
117.1312	12	10.2	19.9	190.0	1000V	100
117.1313	13	10.9	21.3	190.0	1000V	110
117.1314	14	11.3	22.8	210.0	1000V	160
117.1315	15	11.9	24.1	215.0	1000V	170
117.1316	16	12.2	25.7	220.0	1000V	200
117.1317	17	12.6	27.1	225.0	1000V	250
117.1318	18	13.2	28.6	230.0	1000V	270
117.1319	19	13.6	30.1	240.0	1000V	290
117.1322	22	13.9	34.4	260.0	1000V	320
117.1324	24	15.4	36.2	280.0	1000V	490
117.1327	27	16.4	40.4	295.0	1000V	540
117.1330	30	17.4	44.4	310.0	1000V	580
117.1332	32	18.4	47.4	330.0	1000V	590

Insulated adjustable spanner

- In accordance to DIN 3117
- Insulated handle to IEC 60900
- Jaw 15° offset
- Swedish type design
- With mm scale
- Matt finish
- Chrome vanadium



	mm	A mm	B mm	C mm	H1 mm	H2 mm	L mm	⚡	U
117.1250	24.0	12.0	55.0	30.0	8.0	14.0	200.0	1000V	310
117.1253	30.0	14.0	77.0	40.0	14.0	19.0	250.0	1000V	540
117.1254	34.0	17.5	78.0	48.0	17.5	18.0	300.0	1000V	830

Insulated adjustable spanner

- In accordance to DIN 3117
- Insulated handle to IEC 60900
- Jaw 15° offset
- Swedish type design
- With mm scale
- Matt finish
- Burnished
- Chrome vanadium



	mm	A mm	B mm	C mm	H1 mm	H2 mm	L mm	⚡	U
117.4270	27	13.0	57.5	20.0	13.0	18.5	210.0	1000V	329
117.4271	31	15.0	68.5	30.0	15.0	20.0	260.0	1000V	530
117.4272	34	17.5	79.0	36.0	17.5	23.0	315.0	1000V	800

Insulated Socket Screwdriver

- 6 point
- In accordance to DIN 7445
- Insulated to IEC 60900
- Chrome vanadium



	mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	⚡	U
117.1177	3	10.0	215.0	125.0	90.0	37.0	1000V	65
117.1178	3.5	10.0	215.0	125.0	90.0	37.0	1000V	70
117.1179	4	10.0	215.0	125.0	90.0	37.0	1000V	70
117.1181	4.5	10.0	215.0	125.0	90.0	37.0	1000V	70
117.1235	5	11.5	215.0	125.0	90.0	37.0	1000V	75
117.1182	5.5	15.5	215.0	125.0	90.0	37.0	1000V	70
117.1236	6	12.5	215.0	125.0	90.0	37.0	1000V	75
117.1237	7	14.5	225.0	125.0	100.0	37.0	1000V	115
117.1238	8	15.5	225.0	125.0	100.0	37.0	1000V	115
117.1239	9	16.5	225.0	125.0	100.0	37.0	1000V	155
117.1240	10	17.0	225.0	125.0	100.0	37.0	1000V	120
117.1241	11	19.5	235.0	125.0	110.0	37.0	1000V	160
117.1242	12	20.5	235.0	125.0	110.0	37.0	1000V	170
117.1243	13	21.5	235.0	125.0	110.0	37.0	1000V	170
117.1244	14	23.5	235.0	125.0	110.0	37.0	1000V	170
117.1247	17	26.5	235.0	125.0	110.0	37.0	1000V	190

Insulated T-grip socket spanner

- 6 point
- In accordance to DIN 7440
- Insulated handle to IEC 60900
- For use of especially long threaded bolts
- Made from precision steel tube
- Chrome vanadium



	mm	D mm	I mm	L mm	⚡	U
117.1771	10	17.0	165.0	175.0	1000V	320
117.1772	11	19.0	165.0	175.0	1000V	380
117.1773	12	19.0	165.0	175.0	1000V	370
117.1774	13	20.0	165.0	175.0	1000V	370
117.1775	14	24.0	165.0	175.0	1000V	370
117.1776	16	26.0	165.0	175.0	1000V	420
117.1777	17	26.0	165.0	175.0	1000V	430
117.1778	18	29.0	165.0	175.0	1000V	460
117.1779	19	30.0	165.0	175.0	1000V	440
117.1781	20	32.0	165.0	175.0	1000V	460
117.1782	22	33.0	165.0	175.0	1000V	570
117.1783	24	35.0	165.0	175.0	1000V	590



Insulated T-grip socket spanner, long

- 6 point
- In accordance to DIN 7440
- Insulated handle to IEC 60900
- For use of especially long threaded bolts
- Made from precision steel tube
- Chrome vanadium

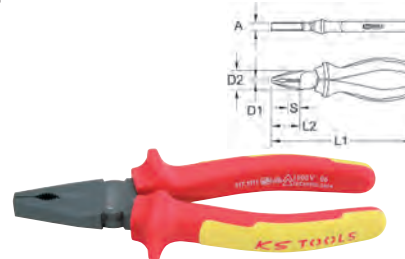


	mm	D mm	I mm	L mm	⚡	U
117.1725	8	17.0	165.0	300.0	1000V	350
117.1726	10	20.0	165.0	300.0	1000V	380
117.1727	11	20.0	165.0	300.0	1000V	430
117.1728	12	20.0	165.0	300.0	1000V	430
117.1729	13	20.0	165.0	300.0	1000V	420
117.1730	14	23.0	165.0	300.0	1000V	440
117.1731	17	28.0	165.0	300.0	1000V	520
117.1732	19	32.0	165.0	300.0	1000V	590
117.1733	22	33.0	165.0	300.0	1000V	690
117.1734	24	33.5	165.0	300.0	1000V	780

PLIERS

ERGOTORQUE® VDE combination pliers

- In accordance to DIN ISO 5748
- Wrap around insulation to IEC 60900
- With two component handle
- Suitable for wire
- Inductively hardened precision cutting edges
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	⚡	U
117.1111	10.0	6.0	24.0	162.5	35.0	2.4	1000V	310
117.1112	11.0	7.0	27.0	180.0	38.5	2.5	1000V	380
117.1113	12.0	7.0	30.0	205.0	42.5	3.0	1000V	400

CLASSIC 1000V high leverage combination pliers

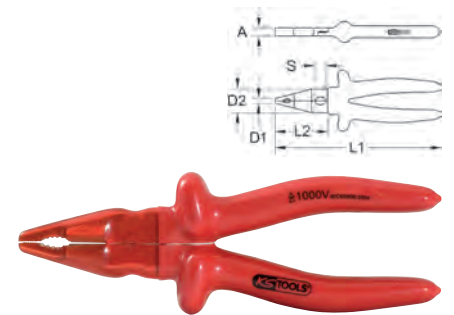
- In accordance to DIN / ISO 5746
- Insulated handle to IEC 60900
- Also suitable for hard wire
- Extra heavy execution
- Inductively hardened precision cutting edges
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	⚡	U
117.1278	8.5	6.0	25.0	160.0	36.5	13.0	1000V	230
117.1275	11.0	7.5	28.0	185.0	40.0	16.5	1000V	290
117.1276	11.5	8.0	28.0	205.0	43.0	18.0	1000V	390
117.1279	13.0	8.0	35.0	250.0	53.0	21.5	1000V	570

CLASSIC 1000V combination pliers

- In accordance to DIN / ISO 5244
- Insulated handle to IEC 60900
- With coated working head
- Also suitable for hard wire
- Extra heavy execution
- Inductively hardened precision cutting edges
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	⚡	U
117.1711	16.0	8.0	30.0	185.0	38.0	16.0	1000V	280
117.1712	16.0	8.5	32.5	205.0	44.0	18.5	1000V	350

ERGOTORQUE® VDE high leverage side cutters

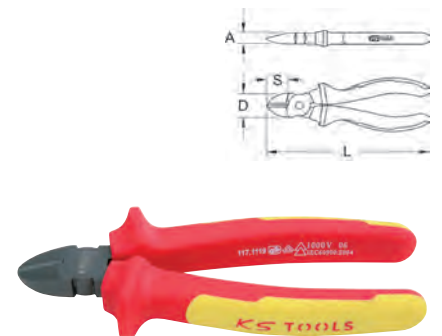
- In accordance to DIN / ISO 5749
- Wrap around insulation to IEC 60900
- With two component handle
- For all types of wire
- Requires light expenditure of energy
- Inductively hardened precision cutting edges
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm	⚡	U
117.1115	12.0	30.0	175.0	22.5	1000V	330
117.1116	12.5	30.0	200.0	22.5	1000V	370

ERGOTORQUE® VDE diagonal side cutters

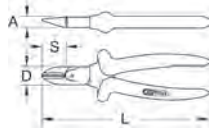
- In accordance to DIN / ISO 5749
- Wrap around insulation to IEC 60900
- With two component handle
- For soft and medium wire
- Inductively hardened precision cutting edges
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm	⚡	U
117.1119	10.0	20.0	156.0	20.0	1000V	210

CLASSIC 1000V side cutters

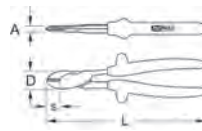
- In accordance to DIN / ISO 5232
- Insulated handle to IEC 60900
- For soft and hard wire
- Inductively hardened precision cutting edges
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm	⚡	🛡️
117.1277	11.0	21.5	160.0	24.0	1000V	270
117.1288	11.0	21.5	180.0	24.0	1000V	330

CLASSIC 1000V high leverage side cutter

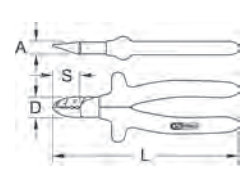
- In accordance to DIN / ISO 5749
- Insulated handle to IEC 60900
- For all types of wire
- Especially for the line construction
- Requires light expenditure of energy
- Inductively hardened precision cutting edges
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm	⚡	🛡️
117.1282	12.0	26.0	180.0	21.0	1000V	320
117.1283	12.5	29.0	205.0	24.0	1000V	370
117.1284	13.5	33.0	260.0	30.0	1000V	580

CLASSIC 1000V electrical side cutters

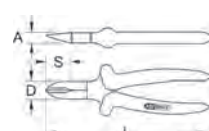
- Insulated handle to DIN / EN 60900
- For cutting, stripping and crimping
- Wire strippers for wires from 1,5 mm² + 2,5 mm²
- For crimping of insulated cable lugs with Ø 1,5 mm + 2,5 mm
- Inductively hardened precision cutting edges
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm	⚡	🛡️
117.1281	10.5	22.0	175.0	27.0	1000V	320

CLASSIC 1000V side cutters

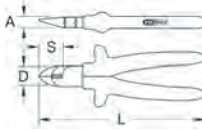
- In accordance to DIN / ISO 5232
- Insulated handle to IEC 60900
- Working head coated
- For soft and hard wire
- Inductively hardened precision cutting edges
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm	⚡	🛡️
117.1721	26.0	25.5	160.0	22.0	1000V	230
117.1722	27.0	27.0	180.0	25.0	1000V	330

CLASSIC 1000V lead sealing pliers

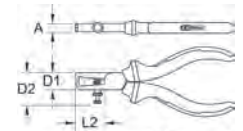
- Insulated handle to DIN / EN 60900
- With interchangeable clamping inserts
- Combined with side cutter
- Inductively hardened precision cutting edges
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm	⚡	🛡️
117.1268	10.0	20.0	160.0	15.0	1000V	220

ERGOTORQUE® VDE cable stripper

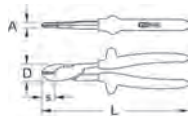
- In accordance to DIN / ISO 5232
- Wrap around insulation to IEC 60900
- Locking jaw opening
- Adjusting screw and spring
- Two component handle
- For wires from 0,8 - 6,0 mm²
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	⚡	🛡️
117.1114	10.0	17.5	31.5	160.0	36.0	1000V	210

CLASSIC 1000V high leverage side cutter

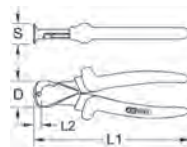
- In accordance with DIN/ISO 5749
- Insulated handle to IEC 60900
- For all types of wire
- Especially for overhead line construction
- Low energy requirement
- 40% power saving
- Inductively hardened precision cutting edges
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm	⚡	🛡️
117.1234	12.0	28.5	200.0	25.0	1000V	380

CLASSIC 1000V cutting pliers

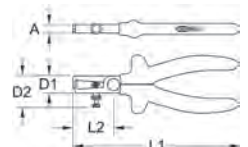
- In accordance to DIN / ISO 5748
- Insulated handle to IEC 60900
- For soft and hard wire
- Inductively hardened precision cutting edges
- Matt chrome
- Special tool steel



	D mm	L mm	L2 mm	S mm	⚡	🛡️
117.1198	30.0	160.0	6.5	23.0	1000V	280

CLASSIC 1000V wire strippers

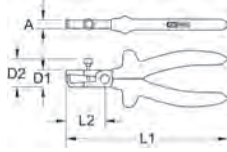
- In accordance to DIN / ISO 5232
- Insulated handle to IEC 60900
- Locking jaw opening
- Adjusting screw and spring
- For wires from 0,8 - 6,0 mm²
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	⚡	🛡️
117.1271	9.5	18.5	31.5	160.0	44.0	1000V	180

CLASSIC 1000V wire strippers

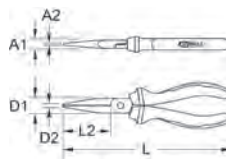
- In accordance to DIN / ISO 5232
- Insulated handle to IEC 60900
- Coated working head
- Locking jaw opening
- Adjusting screw and spring
- For wires from 0,8 - 6,0 mm²
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1713	11.0	18.5	20.0	160.0	34.0		180

ERGOTORQUE® VDE flat pliers

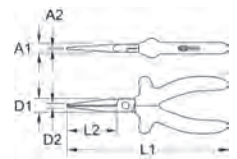
- In accordance to DIN / ISO 5745
- Wrap around insulation to IEC 60900
- With two component handle
- Serrated execution
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1125	9.0	3.8	18.0	3.0	165.0	49.5		210

CLASSIC 1000V flat pliers

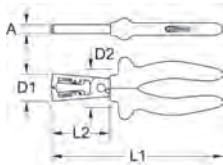
- In accordance to DIN / ISO 5745
- Insulated handle to IEC 60900
- With coated working head
- Short and powerful jaws
- Serrated execution
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1715	11.0	11.0	19.0	5.0	160.0	36.0		190

CLASSIC 1000V wire strippers

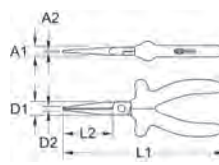
- Insulated handle to IEC 60900
- Multifunctional wire strippers
- Self-adjusting
- With replaceable knives
- For wires from 0.5 - 5.0 mm²
- With cutting holes for separating cables and wires
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1225	10.0	24.0	40.0	185.0	61.0		260

CLASSIC 1000V flat pliers

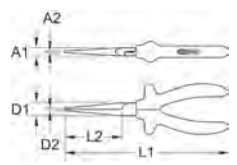
- In accordance to DIN 5745
- Insulated handle to IEC 60900
- With long jaws
- Serrated execution
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1289	8.5	5.5	15.0	3.5	160.0	50.0		210

CLASSIC 1000V long jaw flat pliers

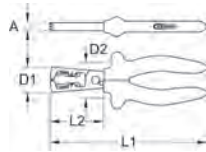
- In accordance to DIN / ISO 5745
- Insulated handle to IEC 60900
- With long jaws
- Serrated execution
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1299	7.0	8.5	16.0	4.0	160.0	51.0		210

CLASSIC 1000V wire strippers

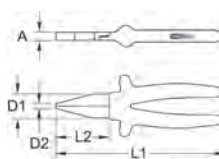
- Insulated handle to IEC 60900
- Self-adjusting
- With replaceable knives
- For wires from 0,5 - 5,0 mm²
- Cutting holes for the separation of cables and wires
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	Replacement blades	
117.1272	10.5	28.5	47.5	160.0	20.0	117.1258	220

CLASSIC 1000V flat pliers

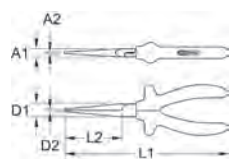
- In accordance to DIN / ISO 5745
- Insulated handle to IEC 60900
- Short and powerful jaws
- Serrated execution
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1298	9.0	17.0	4.5	160.0	34.0		200

CLASSIC 1000V long jaw flat pliers

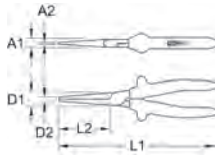
- In accordance to DIN / ISO 5745
- Insulated handle to IEC 60900
- With coated working head
- With long jaws
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1716	13.0	7.5	18.5	4.5	160.0	50.0		130

CLASSIC 1000V drawing pliers

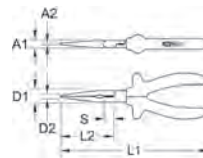
- In accordance to DIN / ISO 5745
- Insulated handle to IEC 60900
- With flat and smooth gripping jaws
- Rounded edges
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	⚡	⚙️
117.1280	7.5	6.5	17.0	4.5	200.0	65.0	220	

CLASSIC 1000V long nosed pliers

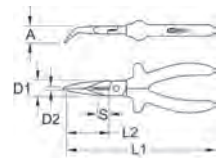
- In accordance to DIN / ISO 5745
- Insulated handle to IEC 60900
- Long jaws
- For soft and medium wire
- Inductively hardened precision cutting edges
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	⚡	⚙️
117.1291	9.5	2.5	16.0	4.0	200.0	74.0		230	
117.1293	9.0	2.0	15.5	3.0	160.0	55.0		170	

CLASSIC 1000V long nosed pliers, curved

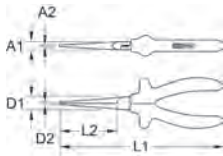
- In accordance to DIN / ISO 5745
- Insulated handle to IEC 60900
- Curved jaws
- For soft and medium wire
- Inductively hardened precision cutting edges
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	⚡	⚙️
117.1292	9.5	17.0	4.0	200.0	78.0	14.0		210
117.1294	9.5	15.5	4.0	160.0	51.0	11.0		170

CLASSIC 1000V drawing pliers

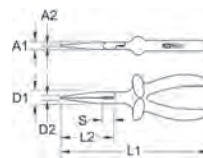
- In accordance to DIN / ISO 5745
- Insulated handle to IEC 60900
- With coated working head
- With flat and smooth gripping jaws
- Rounded edges
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	⚡	⚙️
117.1714	7.5	6.5	19.0	4.5	200.0	65.0	1000V	220

CLASSIC 1000V long nosed pliers

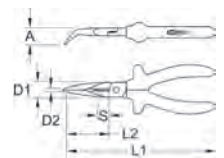
- In accordance to DIN / ISO 5745
- Insulated handle to IEC 60900
- With coated working head
- Long jaws
- Suitable for soft and medium hard wire
- Inductively hardened precision cutting edges
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	⚡	⚙️
117.1717	10.0	3.5	17.5	4.0	160.0	55.0	10.0	1000V	180
117.1718	10.5	3.5	18.0	5.0	200.0	74.0	14.0	1000V	230

CLASSIC 1000V long nosed pliers, curved

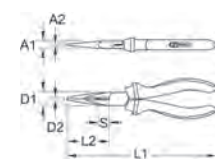
- In accordance to DIN / ISO 5745
- Insulated handle to IEC 60900
- With coated working head
- Curved jaws
- For soft and medium wire
- Inductively hardened precision cutting edges
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	⚡	⚙️
117.1719	12.0	5.0	19.0	200.0	79.0	14.0	1000V	220

ERGOTORQUE® VDE long nosed pliers

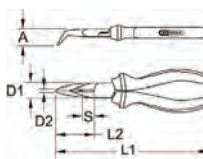
- In accordance to DIN / ISO 5745
- Wrap around insulation to IEC 60900
- With two component handle
- Long jaws
- Suitable for medium and hard wire
- Inductively hardened precision cutting edges
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	⚡	⚙️
117.1117	9.0	2.9	18.0	3.2	165.0	48.0	2.5	1000V	177
117.1118	11.0	3.5	22.0	4.5	208.0	69.0	2.5	1000V	291

ERGOTORQUE® VDE long nosed pliers, curved

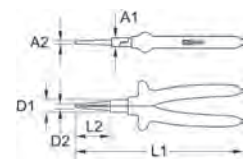
- In accordance to DIN / ISO 5745
- Wrap around insulation to IEC 60900
- With two component handle
- Curved jaws
- For soft and medium wire
- Inductively hardened precision cutting edges
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	⚡	⚙️
117.1120	9.0	18.0	3.2	165.0	48.0	2.5	1000V	210
117.1121	11.0	22.0	5.0	208.0	70.0	2.5	1000V	310

CLASSIC 1000V round pliers

- In accordance to DIN / ISO 5745
- Insulated handle to IEC 60900
- With round, short and strong jaws
- With smooth tips
- Serrated execution
- Matt chrome
- Special tool steel

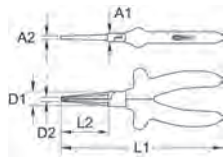


	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	⚡	⚙️
117.1297	10.0	3.5	14.0	6.0	160.0	33.0	1000V	180

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26

CLASSIC 1000V long jaw round pliers

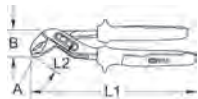
- In accordance to DIN / ISO 5745
- Insulated handle to IEC 60900
- With round and long jaws
- With smooth tips
- Serrated execution
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	⚡	⚖️
117.1290	9.0	2.5	14.0	5.5	160.0	47.5	1000V	205

ERGOTORQUE® VDE water pump pliers

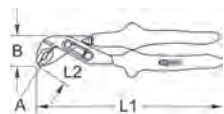
- In accordance to DIN / ISO 8976
- Wrap around insulation to IEC 60900
- With two component handle
- Toothed gripping surfaces
- Substantial through joint
- Optimum power transfer
- With grooved adjustment
- With zip fastener
- With inductively hardened handle areas
- Phosphate finish
- Special tool steel



	A mm	B mm	L1 mm	L2 mm	⚡	⚖️
117.2000	33.0	42.0	240.0	32.0	1000V	420

CLASSIC 1000V water pump pliers

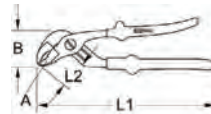
- In accordance to DIN / ISO 8976
- Insulated handle to IEC 60900
- Toothed gripping surfaces
- Substantial through joint
- Optimum power transfer
- With grooved adjustment
- With zip fastener
- With inductively hardened handle areas
- Matt chrome
- Special tool steel



	A mm	B mm	L1 mm	L2 mm	⚡	⚖️
117.1273	39.0	35.0	240.0	51.0	1000V	350
117.1274	65.0	47.0	300.0	65.0	1000V	690

CLASSIC 1000V water pump pliers

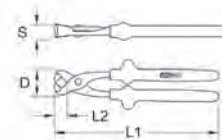
- In accordance to DIN / ISO 8976
- Insulated handle to IEC 60900
- Toothed gripping surfaces
- Heavy execution
- Through flexible head with flat-die thread rolling
- Optimum power transfer
- With zip fastener
- With inductively hardened handle areas
- Matt chrome
- Special tool steel



	A mm	B mm	L1 mm	L2 mm	⚡	⚖️
117.1207	54.0	56.0	260.0	35.0	1000V	560

CLASSIC 1000V rabbit pliers

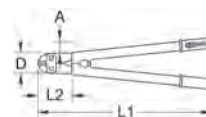
- Insulated handle to DIN / EN 60900
- For soft wire
- For the cutting and twisting of tie wire
- Inductively hardened precision cutting edges
- Phosphate finish
- Special tool steel



	D mm	L1 mm	L2 mm	S mm	⚡	⚖️
117.1204	36.0	250.0	16.0	25.0	1000V	480

Insulated bolt cutter

- Insulated handle to IEC 60900
- With steel tube legs and eccentric adjustment
- With interchangeable cutter head
- Cutter head made of high quality special steel
- Inductively hardened precision cutting edges
- Phosphate finish
- Special tool steel

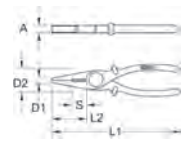


	A mm	D mm	L1 mm	L2 mm	Replacement cutter head	⚡	⚖️
117.1256	8.0	79.0	610.0	115.0	117.1257	1000V	2.70

PLASTIC PLIERS / CLAMPS

Insulated plastic combination pliers

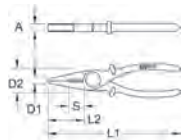
- With two-component handle
- Fully insulated pliers
- Reduces the risk of short-circuit
- For assembling counters and locking
- Glass-fibre reinforced plastic
- With soft plastic area on the handle
- For firm hold



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	⚡	⚖️
117.1765	11.5	6.0	32.0	185.0	33.0	19.0	1000V	130

Insulated plastic combination pliers

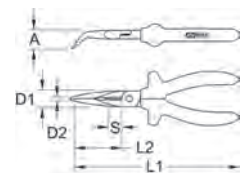
- With two-component handle
- Fully insulated pliers
- Reduces the risk of short-circuit
- For assembling counters and locking
- Glass-fibre reinforced plastic
- With soft plastic area on the handle
- For firm hold



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	⚡	⚖️
117.1766	5.0	10.0	32.0	225.0	72.0	20.0	1000V	140

Insulated plastic combination pliers

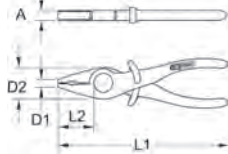
- With two-component handle
- Fully insulated pliers
- Reduces the risk of short-circuit
- For assembling counters and locking
- Glass-fibre reinforced plastic
- With soft plastic area on the handle
- For firm hold



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	⚡	⚖️
117.1767	5.0	10.0	32.0	230.0	110.0	20.0	1000V	140

Insulated plastic flat pliers

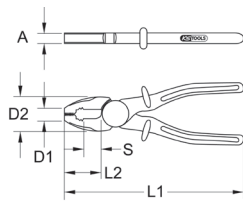
- Insulated to IEC 60900
- Suitable for meter assembly and closure
- Made out of extremely durable plastic



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	⚡	⚙️
117.1642	11.0	10.0	38.0	180.0	37.0	1000V	85

Insulated plastic combination pliers with cutting function

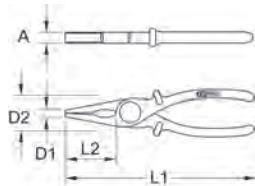
- Insulated to IEC 60900/ IEC60900:2400
- With machined cutting edge
- Made out of extremely durable plastic



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	⚡	⚙️
117.1639	15.0	15.0	37.0	200.0	39.0	14.0	1000V	152

Insulated plastic flat pliers

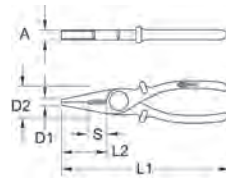
- Insulated to IEC 60900
- Made out of extremely durable plastic



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	⚡	⚙️
117.1640	9.0	6.0	32.0	200.0	55.0	1000V	106

Insulated plastic flat pliers

- Insulated to IEC 60900
- With machined cutting edge
- Made out of extremely durable plastic

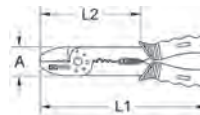


	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	⚡	⚙️
117.1641	9.0	6.0	32.0	190.0	55.0	14.0	1000V	108

CRIMPING TOOLS

Multifunction pliers for insulated and non insulated cable terminals

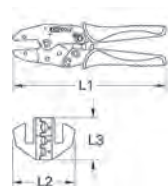
- For professional cable cutting and stripping of wires from 0,75 - 6,0 mm²
- For crimping cable lugs and connectors of 1,5 - 6,0 mm²
- Cutting function
- Two component handle
- Pliers body made of flat steel



	A mm	L1 mm	L2 mm	⚙️
115.1231	40.0	220.0	130.0	230

Crimping pliers for non insulated terminals

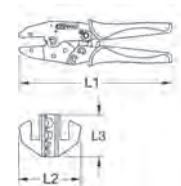
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	φ mm ²	AWG	L1 mm	L2 mm	L3 mm	⚙️	⚙️
115.1425	0.5-1.0/1.5-2.5/4.0-6.0	22-18/16-14/12-10	220.0	50.0	34.0	115.1415	491

Crimping pliers for insulated terminals

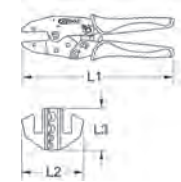
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	φ mm ²	AWG	L1 mm	L2 mm	L3 mm	⚙️	⚙️
115.1430	1.5/2.5/6.0/10.0	20-18/16-14/12-10/8	220.0	50.0	34.0	115.1416	487

Crimping pliers for pin terminals

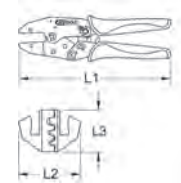
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through Precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	φ mm ²	AWG	L1 mm	L2 mm	L3 mm	⚙️	⚙️
115.1440	0.5/0.75/1.0/1.5/2.5/4.0	22/20/18/16-14/12-10	220.0	50.0	34.0	115.1418	499
115.1450	6.0/10.0/16.0	10/8/6	220.0	50.0	34.0	115.1420	499

Crimping pliers for spade terminals

- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	φ mm ²	AWG	L1 mm	L2 mm	L3 mm	⚙️	⚙️
115.1435	0.5-1.0/1.5-2.5/4.0-6.0	20-18/16-14/12-10	220.0	50.0	34.0	115.1417	499
115.1455	2.5/5.0/8.0/10.0	14-22/8-6	220.0	50.0	34.0	115.1421	505

Electricians crimping pliers set

- Ideal configuration for electricians
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- In durable plastic storage case
- Two component handle
- Burnished
- Pliers body made of flat steel

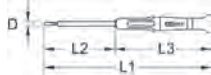


115.1480		3 pcs	Electricians crimping pliers set	910
1 x			220 mm	
1 x			Ø 0,5 - 4,0 mm, H	
1 x			Ø 1,5 - 10,0 mm, B	

SCREWDRIVERS

Insulated precision screwdriver for slotted screws

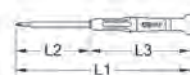
- Slotted
- Insulated to IEC 60900
- Twist end cap
- Colour coding
- Hardened blade
- Burnished tip
- Blades made from special steel



	D mm	L1 mm	L2 mm	L3 mm	⚡	🛡️
500.6138	1,5	140,0	40,0	100,0		10
500.6139	1,8	160,0	60,0	100,0		10
500.6140	2,0	160,0	60,0	100,0		15
500.6141	2,5	175,0	75,0	100,0		15
500.6142	3,0	175,0	75,0	100,0		15

Insulated precision screwdriver for phillips screws PH

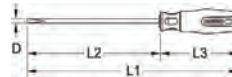
- PH
- Insulated to IEC 60900
- Twist end cap
- Colour coding
- Hardened blade
- Burnished tip
- Blades made from special steel



	L1 mm	L2 mm	L3 mm	⚡	🛡️	
500.6136	PH 00	175,0	75,0	100,0		15
500.6137	PH 0	175,0	75,0	100,0		15

ERGOTORQUE® VDE screwdriver for slotted screws

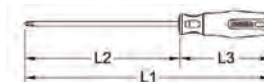
- Slotted
- In accordance to DIN 5264 / DIN ISO 2380
- Insulated to IEC 60900
- Two component handle
- Burnished tip
- S2 special steel



	D mm	L1 mm	L2 mm	L3 mm	⚡	🛡️
117.0502	2,5	155,0	75,0	80,0		32
117.0504	3,0	180,0	100,0	80,0		35
117.0506	3,5	180,0	100,0	80,0		38
117.0508	4,0	180,0	100,0	80,0		41
117.0512	5,5	230,0	125,0	105,0		92
117.0514	6,5	255,0	150,0	105,0		111
117.0516	8,0	290,0	175,0	115,0		164
117.0518	10,0	315,0	200,0	115,0		230

ERGOTORQUE® VDE screwdriver for phillips screws PH

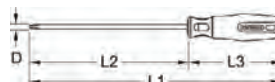
- PH
- In accordance to DIN 7438 / DIN ISO 8764
- Insulated to IEC 60900
- Two component handle
- Burnished tip
- S2 special steel



		L1 mm	L2 mm	L3 mm	⚡	🛡️
117.0522	PH 0	140,0	60,0	80,0		32
117.0524	PH 1	185,0	80,0	105,0		38
117.0526	PH 2	205,0	100,0	105,0		95
117.0528	PH 3	265,0	150,0	115,0		152

ERGOTORQUE® VDE screwdriver for Phillips screws PZ

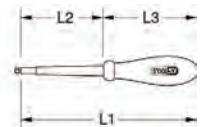
- PZ
- In accordance to DIN 7438 / DIN ISO 8764
- Insulated to IEC 60900
- With two component handle
- Burnished
- S2 special steel



		L1 mm	L2 mm	L3 mm	⚡	🛡️
117.0532	PZ 0	140,0	60,0	80,0		32
117.0534	PZ 1	185,0	80,0	105,0		38
117.0536	PZ 2	205,0	100,0	105,0		95
117.0538	PZ 3	265,0	150,0	115,0		152

Insulated screwdriver for internal TX screws

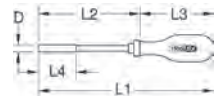
- TX
- Insulated to IEC 60900
- Burnished tip
- Special steel



		L1 mm	L2 mm	L3 mm	⚡	🛡️
117.0551	T10	170,0	80,0	90,0		27
117.0552	T15	170,0	80,0	90,0		28
117.0553	T20	190,0	100,0	90,0		36
117.0554	T25	190,0	100,0	90,0		61
117.0555	T27	205,0	115,0	90,0		74
117.0556	T30	205,0	115,0	90,0		93

Insulated bit screwdriver with magazine

- Insulated to IEC 60900
- With magnet
- For bits to DIN 3126 - C 6,3
- Chrome vanadium



1/4"

	1/4"	D mm	L1 mm	L2 mm	L3 mm	L4 mm	⚡	🛡️
117.1625	1/4"	12,5	230,0	120,0	110,0	50,0		170

KEY WRENCHES

Insulated T-grip socket spanner

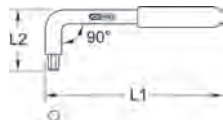
- Insulated to IEC 60900
- With magnet
- For bits to DIN 3126 - C 6,3
- Chrome vanadium



	1/4"	D mm	L mm	I mm	⚡	🛡️
117.1743	1/4"	14,0	120,0	110,0		166
117.1744	1/4"	14,0	160,0	110,0		242
117.1745	1/4"	14,0	250,0	165,0		310

Insulated angled hexagon screwdriver

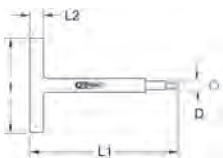
- Hexagon
- In accordance to DIN 7439
- Insulated handle to IEC 60900
- Specially for cable branch clamp ring
- Matt chrome
- Chrome vanadium



	mm	L1 mm	L2 mm	⚡	⚙️
117.1601	3	130.0	24.0	1000V	20
117.1602	4	120.0	40.0	1000V	25
117.1603	5	140.0	47.0	1000V	45
117.1604	6	140.0	50.0	1000V	60
117.1605	8	150.0	50.0	1000V	110
117.1606	10	235.0	51.0	1000V	230
117.1607	12	265.0	60.0	1000V	350

Insulated T-grip hexagon box spanner

- Hexagon socket
- Insulated handle to IEC 60900
- Extremely versatile
- Burnished
- Chrome vanadium

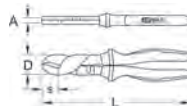


	mm	I mm	D mm	L1 mm	L2 mm	⚡	⚙️
117.1671	3	65.0	5.0	120.0	17.5	1000V	80
117.1672	3	65.0	5.0	115.0	18.5	1000V	140
117.1673	4	65.0	10.0	115.0	19.0	1000V	85
117.1674	4	104.0	15.0	146.0	22.0	1000V	145
117.1675	4	64.0	10.0	185.0	18.0	1000V	150
117.1676	4	94.0	13.0	235.0	19.0	1000V	168
117.1677	5	65.0	11.0	116.0	20.0	1000V	85
117.1678	5	105.0	15.0	148.0	21.0	1000V	250
117.1679	5	65.0	10.0	185.0	18.0	1000V	150
117.1681	5	105.0	15.0	235.0	20.0	1000V	168
117.1682	6	90.0	11.0	105.0	20.0	1000V	110
117.1683	6	105.0	15.0	145.0	21.0	1000V	250
117.1684	6	65.0	11.0	185.0	19.0	1000V	150
117.1742	6	105.0	8.0	250.0	20.0	1000V	307
117.1685	8	105.0	15.0	145.0	21.0	1000V	260
117.1686	8	160.0	13.0	182.0	22.0	1000V	325
117.1687	8	100.0	17.0	235.0	22.0	1000V	360
117.1688	10	160.0	15.0	185.0	20.0	1000V	390
117.1689	10	160.0	15.0	235.0	20.0	1000V	420
117.1691	10	160.0	15.0	285.0	20.0	1000V	450
117.1692	11	160.0	15.0	185.0	20.0	1000V	400
117.1693	12	160.0	16.0	185.0	20.0	1000V	420
117.1694	13	160.0	16.0	185.0	21.0	1000V	450
117.1695	14	160.0	17.0	185.0	21.0	1000V	490
117.1696	17	160.0	20.0	185.0	21.0	1000V	640

CABLE CUTTING

ERGOTORQUE® VDE cable shear

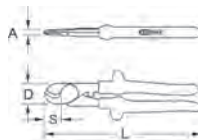
- Wrap around insulation to IEC 60900
- For lead cable up to max. Ø 50 mm²
- For squeeze free cutting of and on more wiry copper and aluminium cables
- Requires light expenditure of energy
- Not suited for steel wire and hard pulled copper cables
- Phosphate finish
- With two component handle
- Special tool steel



	Ø mm	A mm	D mm	L mm	S mm	⚡	⚙️
117.1122	10.0	10.8	24.5	162.0	15.0	1000V	200
117.1123	12.5	13.0	29.0	208.0	17.5	1000V	270
117.1124	15.0	13.5	45.0	235.0	31.0	1000V	550

CLASSIC 1000V cable shear

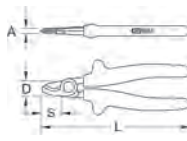
- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- For lead cable up to max. Ø 50 mm²
- Requires light expenditure of energy
- Not suited for steel wire and hard pulled copper cables
- Matt chrome
- Special tool steel



	Ø mm	Cutting ratio mm²	A mm	D mm	L mm	S mm	⚡	⚙️
117.1269	15.0	50.0	13.5	38.0	240.0	25.0	1000V	455

CLASSIC 1000V single handed cable shear

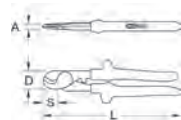
- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- For lead cable up to max. Ø 50 mm²
- Requires light expenditure of energy
- Not suited for steel wire and hard pulled copper cables
- Matt chrome
- Special tool steel



	Ø mm	Cutting ratio mm²	A mm	D mm	L mm	S mm	⚡	⚙️
117.1107	15.0	50.0	10.0	23.5	165.0	24.0	1000V	250
117.1108	20.0	60.0	12.0	28.5	205.0	27.0	1000V	350

CLASSIC 1000V cable shear

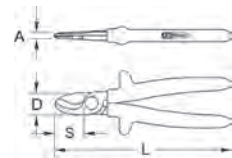
- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- For lead cable up to max. Ø 50 mm²
- Requires light expenditure of energy
- Not suited for steel wire and hard pulled copper cables
- Matt chrome
- Special tool steel



	Ø mm	Cutting ratio mm²	A mm	D mm	L mm	S mm	⚡	⚙️
117.4278	10.0	38.0	13.0	29.0	210.0	18.0	1000V	370
117.4279	20.0	60.0	15.0	32.0	250.0	26.0	1000V	600

CLASSIC 1000V single handed cable shear

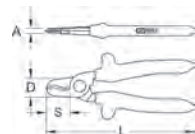
- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- Extremely versatile
- Suitable for wire up to 25 mm²
- Suitable for multi-strand wire up to 50 mm²
- Suitable for ultra-wire up to 70 mm²
- Not suited for steel wire and hard pulled copper cables
- Phosphate finish
- Special tool steel



	Ø mm	A mm	D mm	L mm	S mm	⚡	⚙️
117.1259	22.0	18.0	31.0	215.0	32.0	1000V	360

CLASSIC 1000V single handed cable shear

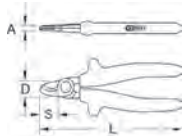
- Insulated handle to IEC 60900
- With coated working head
- For and on multi strand copper and aluminium cable
- With after adjustable screw joint
- With zip fastener
- Not suited for steel wire and hard pulled copper cables
- Phosphate finish
- Special tool steel



	Ø mm	Cutting ratio mm²	A mm	D mm	L mm	S mm	⚡	⚙️
117.1103	17.0	35.0	13.0	31.0	165.0	20.5	1000V	280
117.1109	20.0	50.0	18.0	33.5	210.0	34.0	1000V	400

CLASSIC 1000V single handed cable shear

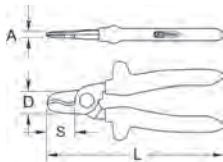
- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- Extremely versatile
- No bruising, slight shaping of the cable
- With precision screw joint
- Suitable for wire up to 16 mm²
- Suitable for multi strand wire up to 25 mm²
- Suitable for ultra wire up to 50 mm²
- Not suited for steel wire and hard pulled copper cables
- Special tool steel



	Ø mm	A mm	D mm	L mm	S mm	⚡	⚖
117.1286	15,0	12,0	25,0	160,0	20,0	1000V	250

CLASSIC 1000V single handed cable shear

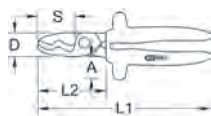
- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- With after adjustable screw joint
- With zip fastener
- Not suited for steel wire and hard pulled copper cables
- Phosphate finish
- Special tool steel



	Ø mm	Cutting ratio mm ²	A mm	D mm	L mm	S mm	⚡	⚖
117.1287	17,0	35,0	15,0	27,0	165,0	25,0	1000V	240

CLASSIC 1000V two cut cable shear

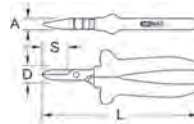
- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- Precision blade for easy and clean cut
- With before and after cut
- With after adjustable screw joint
- Not suited for steel wire and hard pulled copper cables
- Matt chrome
- Special tool steel



	Ø mm	Cutting ratio mm ²	A mm	D mm	L1 mm	L2 mm	S mm	⚡	⚖
117.1270	20,0	50,0	13,5	33,0	200,0	83,0	48,0	1000V	365

CLASSIC 1000V electrical shear

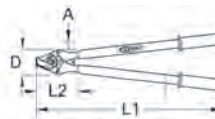
- Insulated handle to IEC 60900
- Only suitable for copper and aluminium wire
- For the cutting of thin wires and sheet metals
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm	⚡	⚖
117.1206	9,0	14,0	180,0	38,0	1000V	170

Insulated cable shear

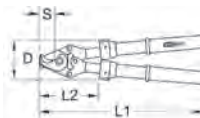
- Insulated handle to IEC 60900
- For bruise free cutting of copper and aluminium cables
- With interchangeable cutter head
- Knife head made out of special alloyed steel
- Requires light expenditure of energy
- Not suited for steel wire and hard pulled copper cables
- Matt chrome
- Special tool steel



	Ø mm	Cutting ratio mm ²	A mm	D mm	L1 mm	L2 mm	Replacement cutter head	⚡	⚖
117.1260	26,0	150,0	16,0	80,0	600,0	80,0	117.1258	1000V	2,70
117.1261	33,0	180,0	17,0	86,0	700,0	105,0	117.1263	1000V	3,30

Insulated cable shear, telescopic handle

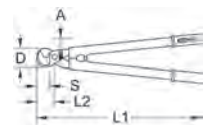
- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- With telescopic handle
- With interchangeable cutter head
- Requires light expenditure of energy
- Not suited for steel wire and hard pulled copper cables
- Matt chrome
- Special tool steel



	Ø mm	Cutting ratio mm ²	D mm	L1 mm	L2 mm	S mm	Replacement cutter head	⚡	⚖
117.1233	31,0	185,0	82,0	360-520	63,0	35,0	117.1234	1000V	2,00

Insulated cable shear

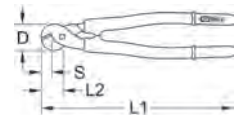
- Insulated handle to IEC 60900
- For bruise free cutting of copper and aluminium cables
- Clean cut through new cutting edge geometry
- With after adjustable screw joint
- Requires light expenditure of energy
- Not suited for steel wire and hard pulled copper cables
- Matt chrome
- Special tool steel



	Ø mm	Cutting ratio mm ²	A mm	D mm	L1 mm	L2 mm	S mm	⚡	⚖
117.1264	27,0	150,0	15,0	59,0	500,0	58,0	37,0	1000V	1,48

Insulated cable shear

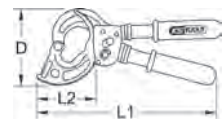
- Insulated handle to IEC 60900
- For bruise free cutting of copper and aluminium cables
- Clean cut through new cutting edge geometry
- With after adjustable screw joint
- Requires light expenditure of energy
- Not suited for steel wire and hard pulled copper cables
- Matt chrome
- Special tool steel



	Cutting ratio mm ²	D mm	L1 mm	L2 mm	S mm	⚡	⚖
117.4281	95,0	58,0	310,0	35,0	25,0	1000V	0,82
117.4282	150,0	66,0	460,0	41,0	30,0	1000V	1,40
117.4283	325,0	90,0	600,0	55,0	46,0	1000V	2,50
117.4284	500,0	90,0	800,0	75,0	54,0	1000V	3,80

Insulated ratchet cable shear

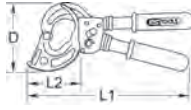
- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- With double supported eccentric drive
- Almost break proof gearing
- Thin cutting steel sheet casing
- With ratchet function
- Not suitable for hardened steel wire
- Phosphate finish
- Special tool steel



	Ø mm	Cutting ratio mm ²	D mm	L1 mm	L2 mm	⚡	⚖
117.1248	62,0	840,0	150,0	400,0	90,0	1000V	2,20
117.1249	80,0	1000,0	190,0	530,0	110,0	1000V	3,15

Insulated ratchet cable shear

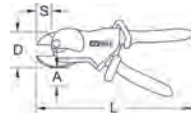
- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- With double supported eccentric drive
- Almost break proof gearing
- Thin cutting steel sheet casing
- With ratchet function
- Not suitable for hardened steel wire
- Phosphate finish
- Special tool steel



			D mm	L1 mm	L2 mm	
117.1102	52.0	25.0	135.0	310.0	110.0	917

Insulated single handed ratchet cable shear

- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- Working head coated
- Automatic reserve through spring return
- Cutting edge process can be interrupted in every position
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm		
117.1245	40.0	80.0	290.0	35.0	Δ 1000V	1.00
117.1246	40.0	85.0	310.0	40.0	Δ 1000V	1.15

Storage pouch for insulated cable shears

- From black synthetic leather
- For storage and protection of insulated cable shears

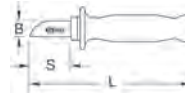


	L mm	B mm	
117.1262	650.0	95 - 190	→ 117.1260 + 117.1261 241

ELECTRICIAN'S KNIVES

Insulated cable knife

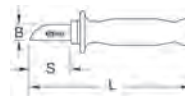
- Insulated to IEC 60900
- With durable and straight blade
- Straight blade
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1295	18.5	50.0	210.0	Δ 1000V	105

Insulated cable knife

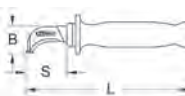
- Insulated to IEC 60900
- With two component handle
- With durable and straight blade
- Straight blade
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1397	16.7	53.0	205.0	Δ 1000V	90

Insulated cable knife with hook blade

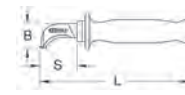
- Insulated to IEC 60900
- With durable blade
- Hook shaped cutting edge
- For slitting and stripping cable
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1296	28.0	40.0	200.0	Δ 1000V	100

Insulated cable knife with hook blade

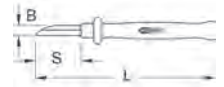
- Insulated to IEC 60900
- With two component handle
- With durable blade
- Hook shaped cutting edge
- For slitting and stripping cable
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1331	30.0	47.0	200.0	Δ 1000V	92

Insulated cable knife

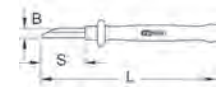
- Insulated to IEC 60900
- With durable, part insulated and straight blade
- Straight blade
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1390	18.5	50.0	210.0	Δ 1000V	115

Insulated cable knife

- Insulated to IEC 60900
- With two component handle
- With durable, part insulated and straight blade
- Straight blade
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1304	20.3	53.0	205.0	Δ 1000V	99

Insulated dismantling knife

- Insulated to IEC 60900
- With durable and straight blade
- Hook shaped cutting edge
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1391	19.0	35.0	182.0	Δ 1000V	95

Insulated dismantling knife

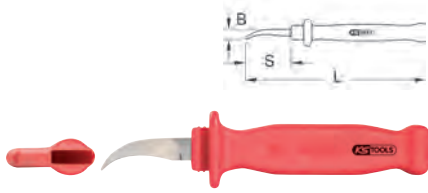
- Insulated to IEC 60900
- With two component handle
- With durable and straight blade
- Hook shaped cutting edge
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1305	19.0	35.0	185.0	Δ 1000V	92

Isolated paper section knife

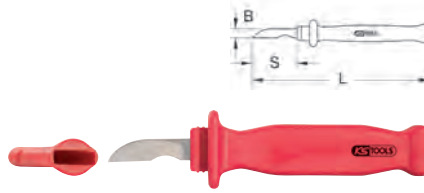
- Insulated to IEC 60900
- With durable blade
- Hook shaped cutting edge
- Suitable for sector cable
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm	⚡	Ⓜ
117.1392	19.0	50.0	205.0	1000V	90

Insulated cable stripping knife

- Insulated to IEC 60900
- With durable blade
- Short and bent cutting edge for fine cable working
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm	⚡	Ⓜ
117.1395	13.0	45.0	195.0	1000V	95

Insulated cable sheath cutters

- Insulation according to IEC 60900
- With durable and straight blade
- For stripping all insulation layers from cables
- Replaceable double knife
- Cutting depth adjustable
- Suitable for longitudinal and round cutting



	L mm	∅ Wire mm	Replacement blades	⚡	Ⓜ
117.3901	240.0	> 25.0	117.3902	1000V	250

Isolated paper section knife

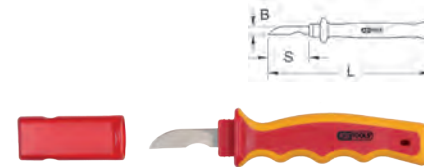
- Insulated to IEC 60900
- With two component handle
- With durable blade
- Hook shaped cutting edge
- Suitable for sector cable
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm	⚡	Ⓜ
117.1320	17.0	56.0	210.0	1000V	83

Insulated cable stripping knife

- Insulated to IEC 60900
- With two component handle
- With durable blade
- Short and bent cutting edge for fine cable working
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm	⚡	Ⓜ
117.1329	13.0	45.0	200.0	1000V	83

Insulated cable knife with replaceable blade

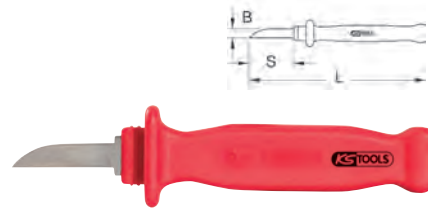
- Insulation according to IEC 60900
- With durable, partially insulated and replaceable blade
- Straight cutting edge
- Safety handle made out of tough elastic and impact-resistant plastic
- With built-in protective cap



	B mm	S mm	L mm	⚡	Replacement blades	Ⓜ
117.1148	21.5	45.0	189.0	1000V	117.1149	67

Insulated cable stripping knife

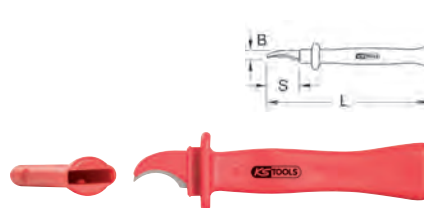
- Insulated to IEC 60900
- With durable blade
- Narrow and straight cutting edge
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm	⚡	Ⓜ
117.1396	11.0	50.0	200.0	1000V	95

Insulated cutting knife

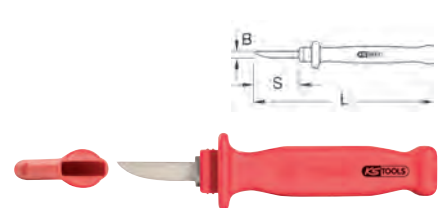
- Insulated to IEC 60900
- With durable blade
- Hook shaped and part isolated cutting edge
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm	⚡	Ⓜ
117.1394	21.0	35.0	165.0	1000V	75

Insulated gutta percha knife

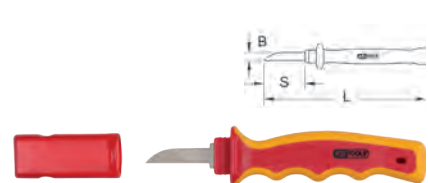
- Insulated to IEC 60900
- With durable blade
- Arched cutting edge
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm	⚡	Ⓜ
117.1393	12.0	50.0	200.0	1000V	95

Insulated cable stripping knife

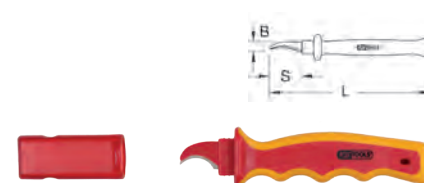
- Insulated to IEC 60900
- With two component handle
- With durable blade
- Narrow and straight cutting edge
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm	⚡	Ⓜ
117.1360	11.0	50.0	200.0	1000V	86

Insulated cutting knife

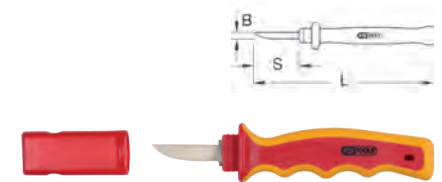
- Insulated to IEC 60900
- With two component handle
- With durable blade
- Hook shaped and part isolated cutting edge
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm	⚡	Ⓜ
117.1328	21.2	30.0	180.0	1000V	87

Insulated gutta percha knife

- Insulated to IEC 60900
- With two component handle
- With durable blade
- Arched cutting edge
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover

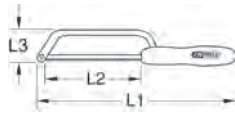


	B mm	S mm	L mm	⚡	Ⓜ
117.1326	12.0	50.0	250.0	1000V	85

SAWING

Insulated hacksaw

- Insulated handle to IEC 60900
- Frame out of reinforced flat iron 10 x 5 mm
- With insulated handle for tensioning the saw blade



	L1 mm	L2 mm	L3 mm			
117.1321	280.0	150.0	80.0	997.1216	1000V	225

Insulated hacksaw

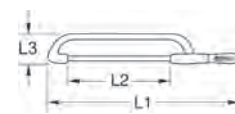
- Insulated handle to IEC 60900
- With plastic screw for tensioning the saw blade



	L1 mm	L2 mm	L3 mm			
117.1265	265.0	145.0	100.0	997.1216	1000V	180

Isolated metal frame saw, heavy execution

- Insulated handle to IEC 60900
- Frame out of reinforced flat iron 10 x 5 mm
- Heavy execution
- With insulated handle for tensioning the saw blade

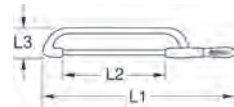


	L1 mm	L2 mm	L3 mm			
117.1323	520.0	330.0	130.0	129.6620-24	1000V	770



Insulated hacksaw

- Insulated handle to IEC 60900
- Heavy execution
- With plastic screw for tensioning the saw blade



	L1 mm	L2 mm	L3 mm			
117.1325	450.0	340.0	140.0	129.6620-24	1000V	700

BRUSHES

Insulated dusting brush, straight

- Insulated to IEC 60900
- With hanging hole
- Short execution
- No electric run
- Made from plastic



	B mm	L mm		
117.1645	25.0	180.0	1000V	11

Insulated dusting brush, angled

- Insulated to IEC 60900
- With hanging hole
- Long and angled execution
- No electric run
- Made from plastic

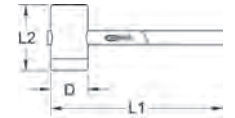


	B mm	L mm		
117.1646	25.0	400.0	1000V	70
117.1647	37.5	400.0	1000V	75
117.1648	50.0	400.0	1000V	80

HAMMER

Insulated soft face hammer

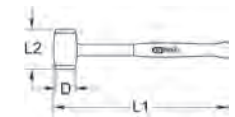
- Insulated to IEC 60900
- Made from plastic
- Without metal parts



	D mm	L1 mm	L2 mm		
117.1131	55.0	300.0	82.0	1000V	325

Insulated dead blow hammer

- Insulated to IEC 60900
- Shock absorbing effect through steel shot in the head
- Shatterproof and wear resistant
- Polyamid heads interchangeable
- For safer working with less recoil



	D mm	L1 mm	L2 mm	head, spare		
117.1126	25.0	300.0	105.0	117.1128	1000V	560
117.1127	35.0	310.0	115.0	117.1129	1000V	790

BOOTS AND INSULATION

Insulated protective sleeve

- Insulated handle to IEC 60900
- For isolating of cable heads and single conductors
- Made out of tough elastic insulating material



	D mm	L mm		
117.1784	2.0	40.0	1000V	1
117.1785	3.0	40.0	1000V	1
117.1786	4.0	40.0	1000V	1
117.1787	5.0	40.0	1000V	1
117.1788	7.0	50.0	1000V	1
117.1789	10.0	70.0	1000V	5
117.1790	15.0	110.0	1000V	17
117.1791	20.0	110.0	1000V	21
117.1792	25.0	110.0	1000V	22
117.1793	30.0	120.0	1000V	38
117.1794	35.0	140.0	1000V	49
117.1795	40.0	140.0	1000V	62

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
i

Insulated meter protective sleeve

- Insulated handle to IEC 60900
- For isolating of cable single conductors
- Beveled
- Made out of tough elastic insulating material



		D mm	L mm	⚡ 1000V	⚖️
117.4244	#1	12.0	80.0	⚡ 1000V	6
117.4245	#2	12.0	80.0	⚡ 1000V	6
117.4246	#3	12.0	80.0	⚡ 1000V	6

Slip-on protective sleeve

- Insulated handle to IEC 60900
- For isolating of cable single conductors
- Beveled
- Made out of tough elastic insulating material



	D mm	L mm	⚡ 1000V	⚖️
117.4247	6.0	40.0	⚡ 1000V	1
117.4248	6.0	60.0	⚡ 1000V	1
117.4249	8.0	40.0	⚡ 1000V	1
117.4250	10.0	30.0	⚡ 1000V	1
117.4251	10.0	40.0	⚡ 1000V	1
117.4252	10.0	60.0	⚡ 1000V	1
117.4253	12.0	90.0	⚡ 1000V	6
117.4254	15.0	110.0	⚡ 1000V	14
117.4255	20.0	110.0	⚡ 1000V	20
117.4256	25.0	110.0	⚡ 1000V	20
117.4257	30.0	110.0	⚡ 1000V	37
117.4258	40.0	110.0	⚡ 1000V	37

Insulated protective sleeve with clamp cap

- Insulated handle to IEC 60900
- For isolating of cable heads and single conductors
- With cross cut cover
- Made out of tough elastic insulating material



	D mm	L mm	⚡ 1000V	⚖️
117.4234	10.0	40.0	⚡ 1000V	10
117.4235	10.0	100.0	⚡ 1000V	11
117.4236	15.0	100.0	⚡ 1000V	16
117.4241	17.5	80.0	⚡ 1000V	10
117.4237	25.0	100.0	⚡ 1000V	30
117.4242	26.0	100.0	⚡ 1000V	20
117.4243	35.0	115.0	⚡ 1000V	40
117.4238	40.0	135.0	⚡ 1000V	68
117.4239	50.0	155.0	⚡ 1000V	99
117.4240	60.0	140.0	⚡ 1000V	140

TWEEZERS

Insulated tweezers, curved

- Insulated handle to IEC 60900
- Wrap insulation
- Chrome vanadium



	B mm	L mm	⚡ 1000V	⚖️
117.1623	11.5	145.0	⚡ 1000V	35
117.1624	15.5	200.0	⚡ 1000V	72

Insulated tweezers, straight

- Insulated handle to IEC 60900
- Wrap insulation
- Chrome vanadium

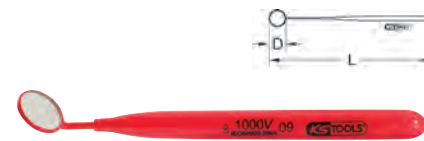


	B mm	L mm	⚡ 1000V	⚖️
117.1626	11.0	130.0	⚡ 1000V	30
117.1627	13.5	130.0	⚡ 1000V	30
117.1628	15.0	145.0	⚡ 1000V	55
117.1629	15.5	200.0	⚡ 1000V	72

INSPECTION MIRRORS

Insulated inspection mirror

- Insulated handle to IEC 60900
- Insulated
- Chrome vanadium



	D mm	L mm	⚡ 1000V	⚖️
117.1630	22.0	175.0	⚡ 1000V	20

LED LAMP

Insulated LED-lamp

- Insulated handle to IEC 60900
- For the illumination of cable ducts and switch cabinets
- White illuminant
- Includes AA-Lithium batteries



	D mm	L mm	Replacement battery	⚡ 1000V	⚖️
117.1650	19.0	90.0	AA-Lithium	⚡ 1000V	58

INSULATED TOOL SETS

Insulated socket wrench set

- Insulated handle to IEC 60900
- In durable plastic storage case
- Chrome vanadium



1/4"

			⚖️
117.1877	22 pcs	Insulated socket wrench set	1.60
1 x		1/4"	
4 x		1/4": 50 - 75 - 100 - 150 mm	
1 x		1/4"	
1 x		1/4"	
10 x		1/4": 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	
5 x		1/4": 3 - 4 - 5 - 6 - 8 mm	

Insulated socket wrench set

- Insulated handle to IEC 60900
- In durable plastic storage case
- Chrome vanadium



3/8"

			⚖️
117.1888	13 pcs	Insulated socket wrench set	2.40
1 x		3/8"	
2 x		3/8": 125 - 250 mm	
1 x		3/8"	
5 x		3/8": 8 - 10 - 13 - 17 - 19 mm	
4 x		3/8": 4 - 5 - 6 - 8 mm	

Insulated socket wrench set

- Insulated handle to IEC 60900
- In durable plastic storage case



1/2"			
117.1860	16 pcs	Insulated socket wrench set	4.50
1 x		1/2"	
2 x		1/2": 125 - 250 mm	
1 x		1/2"	
8 x		1/2": 10 - 12 - 13 - 14 - 17 - 19 - 22 - 24 mm	
3 x		1/2": 5 - 6 - 8 mm	
1 x		3,5 mm	

Insulated tool set for PSA electric vehicles

- Range of tools tailored specifically to PSA
- Dipped insulation according to DIN 60900
- With foam material inserts in durable plastic case
- Special tool steel

Application areas: Peugeot iOn and Citroën C-Zero



1/2"			
117.1825	8 pcs	Insulated tool set for PSA electric vehicles	1.80
1 x		10 mm	
1 x		160 mm	
1 x		3/8"	
1 x		3/8": 125 mm	
4 x		3/8": 10 - 11 - 12 - 13 mm	

Insulated tool set for hybrid and electric vehicles

- Dipped insulation according to DIN 60900
- With foam material inserts in durable plastic case
- Special tool steel



1/2"			
117.1835	16 pcs	Insulated tool set for hybrid and electric vehicles	3.90
1 x		3/8"	
1 x		3/8"	
6 x		8 - 10 - 11 - 12 - 13 - 14 mm	
2 x		10 - 12 mm	
1 x		5,5 mm	
1 x		PH2	
1 x			
1 x		12 - 750 V	
1 x		# 10	
1 x		200 mm	



Insulated tool set for hybrid and electric vehicles

- Dipped insulation according to DIN 60900
- With foam material inserts in durable plastic case
- Special tool steel



1/2"			
117.1845	51 pcs	Insulated tool set for hybrid and electric vehicles	6.50
1 x		240 mm	
1 x		160 mm	
1 x		180 mm	
1 x		180 mm	
1 x		205 mm	
1 x		200 mm	
4 x		2,5 - 3,0 - 3,5 - 4,0 mm	
3 x		PH1 - PH2 - PH3	
3 x		T20 - T25 - T30	
1 x		195 mm	
1 x		3/8"	
2 x		125 - 250 mm	
17 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm	
3 x		M8 - M10 - M12	
4 x		4 x: 17,5 - 26 mm	
1 x		200 mm	
1 x		200 mm	
1 x		500 m	

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26