INJECTION INSULATED TOOLS

DIPPED INSULATED TOOLS

MANUFACTURED ACCORDING TO

IEC60900 STANDARD AND

ASTM F1505

STANDARD

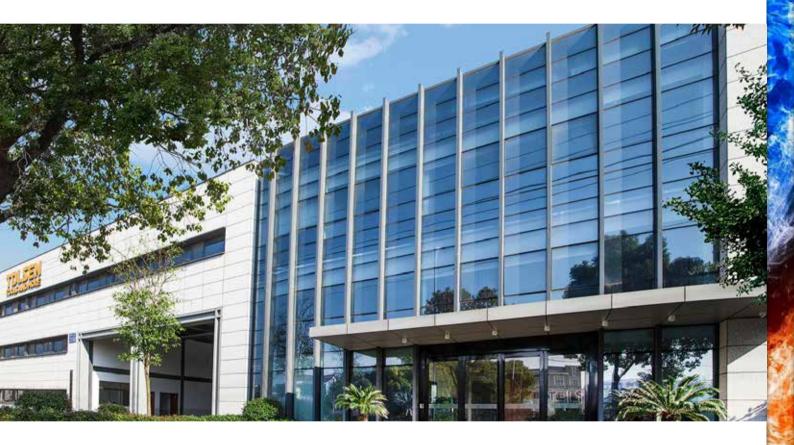


ELECTRIC VEHICLES, POWER





PROFESSIONAL PERFORMANCE WHY CHOOSE TOLSEN VDELIME?



TOLSEN VDELINE, founded in 2004, is a leading influencer in industries such as electrical insulation, new energy vehicle maintenance and telecom tool manufacture.

Through continuous research, development and quality management system, we have become one of the few manufacturers capable of supplying full series of VDE certificates in the world.

Our full range of diverse tools meet the needs of different workplaces. We can also manufacture according to your samples and drawings of any customization.



What is VDE?



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



VDE-GS Mark

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



Double triangle and voltage range

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

IEC 60900

IEC 60900

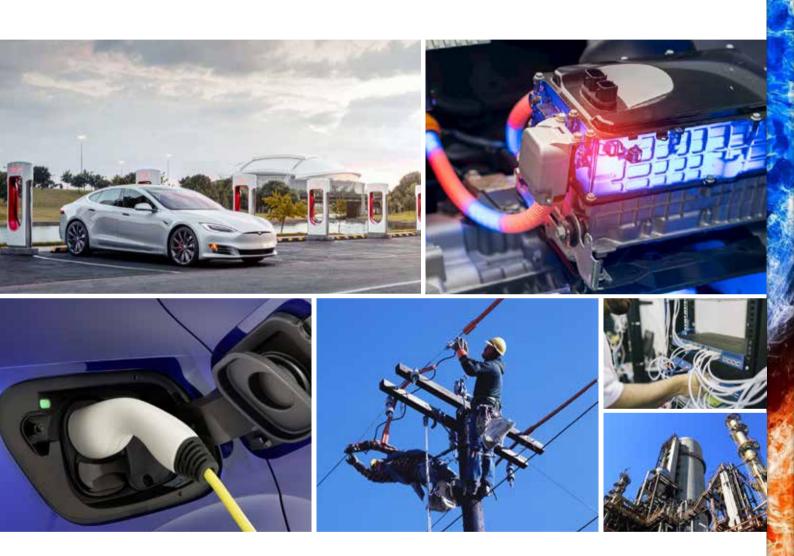
An international standard which, among other things, describes the design of insulated tools in detail. For example, the thickness of the protective insulation is specified. In addition, the standard defines individual tests (piece tests) as well as series and random sample tests for checking the electrical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













WE PROVIDE FULL RANGE OF **PROFESSIONAL** TOOLS



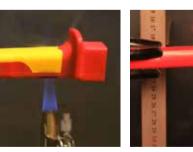














There are two tests carried out: The first test is performed at an ambient of $-25\pm3^{\circ}$ C(the tools lay in a cold chamber for 2 hours), if with C marked test need to be done by $-40\pm3^{\circ}$ C and is carried out 120 seconds after the tools have been removed from the chamber. The second test is carried out at ambient temperature of $23\pm5^{\circ}$ C. The hammer is allowed to fall freely on three different places of the insulated material. The test piece is acceptable if the handle is not cracked, broken or does not show signs of faking. This test can be compared to a fall of the tool from a height of 0.6m at a temperature of -25° C and a fall from a height of 2m at room temperature.

ELECTRICAL TEST

Before testing, the tools are immersed in a bath of water at room temperature of 24 hours(±0.5hours) The test pieces are acceptable if there is no electrical discharge, spark over or flashover, during the 3 minutes of testing at a voltage of 10 KV.

STAMP TEST

The indenter, loaded with a weight of 20N and a voltage of 5 KV, is applied to the centre of the handle. The test is successful if the test piece subsequently passes the electrical test.

DRAWING-FORCE TEST

Before testing the test piece is heated to $70^{\circ}\text{C}\pm3^{\circ}\text{C}$ for 168 hours. The hanger is loaded with weights[500N], wrenches and sockets sets with weights[100N]. The duration of test is 3 minutes after the test piece has been removed from heat. The test piece is acceptable if the handle remains firmly attached to the conducting part after 3 minutes of testing.

FLAME RETARDANCY TEST

The flame is applied to the test piece for 10 seconds. The test piece is acceptable if the height of the flame on the burning handle does not exceed 120mm in an observation period of 20 seconds after the burner has been removed.

SALT-SPRAYER TEST

TORQUE LIFE TEST



HARDNESS TEST







INSULATED PLIERS 18-23



INSULATED SCREWDRIVERS **24-29**



INSULATED WRENCHES & SOCKETS **30-43**



SPECIAL SPECIFICATIONS
44-49



INSULATED ACCESSORIES **50-53**



TELECOM TOOLS **54-67**





INSULATED TOOL SET

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





6 DRAWER ROLLER CABINET

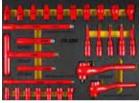
Overall size: 840x460x890mm
PP material work table with stainless steel handle
Fitted with two fixed & two braked swiveling castors
Drawers are fitted with XPE foam liner and ball bearing runners
secure integral locking system supplied with two keys



68PCS DIPPED INSULATED TOOL SET

V80168







V80168-01 Tray 01 V80168-02 Tray 02



68PCS INJECTION INSULATED TOOL SET

V80169





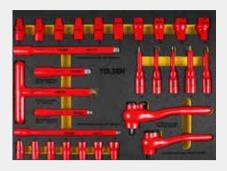


V80169-01 Tray 01

V80169-02 Tray 02



V80169-03 Tray 03



V80168-01 Tray 01

10 pcs DR 1/2" Socket: 10, 11, 12, 13, 14, 16, 17, 19, 22, 24 mm 2 pcs DR 1/2" Extension Bar: 5"(125mm) & 10"(250mm) 1 pc DR 1/2" T-handle: 8"(200mm) 5 pcs DR 1/2" Hexagonal Socket: 4, 5, 6, 8, 10 mm 1 pc DR 1/2" Reversible Ratchaet Handle 7 pcs DR 3/8" Socket: 10, 12, 13, 14, 16, 17, 18 mm 2 pcs DR 3/8" Extension Bar: 5"(125mm) & 10"(250mm) 1 pc DR 3/8" Reversible Ratchaet Handle



V80168-02 Tray 02

13 pcs Ring Wrench: 8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm 4 pcs Pliers: Combination Plier, 8"(200mm) Longnose Plier, 8"(200mm) Diagonal Cutting Plier, 7"(180mm) Wire Stripping Plier, 6"(160mm)



V80168-03 Tray 03

13 pcs, Open End Wrench: 8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm pc Adjustable Wrench, 8"(200mm) 6 pcs Screwdrivers: SL 2.5x75mm, 4.0x100mm, 5.5x125mm, PH0x60mm, PH1x80mm, PH2x100mm pc Voltage Tester: SL 3.0x70mm 1 pc Knife: 7"(180mm)



V80169-01 Tray 01

10 pcs 1/2" Socket: 10, 11, 12, 13, 14, 16, 17, 19, 22, 24 mm 2 pcs 1/2" Extension Bar: 5"(125mm) & 10"(250mm) 1 pc 1/2" T-handle: 6"(160mm) 5 pcs 1/2" Hexagonal Socket: 4, 5, 6, 8, 10 mm 1 pc 1/2" Reversible Ratchaet Handle 7 pcs 3/8" Socket: 10, 12, 13, 14, 16, 17, 18 mm 2 pcs 3/8" Extension Bar: 5"(125mm) & 10"(250mm) 1 pc 3/8" Reversible Ratchaet Handle



V80169-02 Tray 02

13 pcs, Ring Wrench: 8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm 4 pcs, Pliers: Combination Plier, 8"(200mm) Longnose Plier, 8"(200mm) Diagonal Cutting Plier, 7"(180mm) Wire Stripping Plier, 6"(160mm)



V80169-03 Tray 03

13 pcs, Open End Wrench: 8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm 1 pc Adjustable Wrench: 8"(200mm) 6 pcs Screwdrivers: SL 2.5x75mm, 4.0x100mm, 5.5x125mm, PH0x60mm, PH1x80mm, PH2x100mm 1 pc Voltage Tester: SL 3.0x70mm 1 pc Knife: 7"(180mm)

7 DRAWER ROLLER CABINET

Overall size: 765x465x976mm
PP material work table with TPR handle
Fitted with two fixed & two braked swiveling castors
Drawers are fitted with XPE foam liner and ball bearing runners
secure integral locking system supplied with two keys

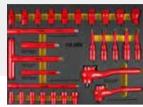




82PCS DIPPED INSULATED TOOL SET

V80183

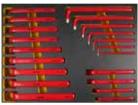




V80183-01 Tray 01



V80183-02 Tray 02



V80183-03 Tray 03

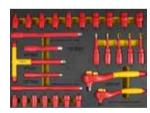


V80183-04 Tray 04

82PCS INJECTION INSULATED TOOL SET

V80184

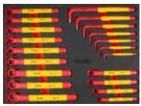




V80184-01 Tray 01



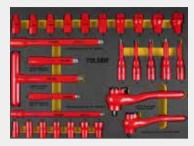
V80184-02 Tray 02



V80184-03 Tray 03



V80184-04 Tray 04



V80183-01 Tray 01

10 pcs DR 1/2" Socket: 10, 11, 12, 13, 14, 16, 17, 19, 22, 24 mm 2 pcs DR 1/2" Extension Bar: 5"[125mm] & 10"[250mm] 1 pc DR 1/2" T-handle: 8"[200mm] 5 pcs DR 1/2" Hexagonal Socket: 4, 5, 6, 8, 10 mm 1 pc DR 1/2" Reversible Ratchaet Handle 7 pcs DR 3/8" Socket: 10, 12, 13, 14, 16, 17, 18 mm 2 pcs DR 3/8" Extension Bar: 5"[125mm] & 10"[250mm]

1 pc DR 3/8" Reversible Ratchaet Handle



V80183-02 Tray 02

9 pcs Screwdrivers:

9 pcs Screwdrivers:
SL 2.5x75mm, 4.0x100mm, 5.5x125mm,
PH #0x60mm, #1x80mm, #2x100mm, PZ #0x60mm, #1x80mm, #2x100mm
6 pcs Pliers & Clamps: Combination Plier, 8"[200mm],
Longnose Plier, 8"[200mm]Diagonal Cutting Plier, 7"[180mm],
Wire Stripping Plier, 6"[160mm],
Plastic Clamp/Plier, 6"[150mm] & 8"[200mm]
1 pc Scissor: 6"[160mm]
1 pc Knife: 7"[180mm]

1 pc Electrical Tape, black



V80183-03 Tray 03

13 pcs, Ring Wrench: 8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm 7 pcs, Hexagon Key L-Wrench: 3, 4, 5, 6, 8, 10, 12 mm



V80183-04 Tray 04

13 pcs Open End Wrench: 8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm 1 pc Adjustable Wrench: 8"(200mm) 1 pc DR 1/2" Torque Wrench: 10-50 N.M

1 pc DR 3/8" Torque Wrench: 5-25 N.M



V80184-01 Tray 01

10 pcs 1/2" Socket: 10, 11, 12, 13, 14, 16, 17, 19, 22, 24 mm 2 pcs 1/2" Extension Bar: 5"(125mm) & 10"(250mm) 1 pc 1/2" T-handle: 6"(160mm) 5 pcs 1/2" Hexagonal Socket: 4, 5, 6, 8, 10 mm 1 pc 1/2" Reversible Ratchaet Handle 7 pcs 3/8" Socket: 10, 12, 13, 14, 16, 17, 18 mm 2 pcs 3/8" Extension Bar: 5"(125mm) & 10"(250mm)

1 pc 3/8" Reversible Ratchaet Handle



V80184-02 Tray 02

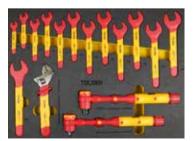
9 pcs Screwdrivers:
SL 2.5x75mm, 4.0x100mm, 5.5x125mm,
PH #0x60mm, #1x80mm, #2x100mm, PZ #0x60mm, #1x80mm, #2x100mm
6 pcs Pliers & Clamps: Combination Plier, 8"(200mm),
Longnose Plier, 8"(200mm)Diagonal Cutting Plier, 7"(180mm),
Wire Stripping Plier, 6"(150mm),
Plastic Clamp/Plier, 6"(150mm) & 8"(200mm)
1 pc Scissor: 6"(160mm)
1 pc Knife: 7"(180mm)
1 pc Flortical Tane Mark

1 pc Electrical Tape, black



V80184-03 Tray 03

13 pcs, Ring Wrench: 8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm 7 pcs, Hexagon Key L-Wrench: 3, 4, 5, 6, 8, 10, 12 mm



V80184-04 Tray 04

13 pcs Open End Wrench: 8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm 1 pc Adjustable Wrench: 8"(200mm) 1 pc 1/2" Torque Wrench: 10-50 N.M

1 pc 3/8" Torque Wrench: 5-25 N.M



CASE IP67 CLASS



V81700

22"WATER PROOF CASE IP67 CLASS

V81852

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

V81945

A+B+D+F

45PCS INSULATED TOOLS SET WITH WATER PROOF CASE



A TRAY

V81946

6PCS INSULATED PLIERS

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



V81947

B TRAY

11PCS SCREWDRIVER, KNIFE **AND TESTER**

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



C TRAY

21PCS 1/2" SOCKETS AND **ACCESSORY**

SOCKETS: 10/11/12/13/14/16/ 17/18/19/21/22/24/27 SOCKETS BITS: 4,5,6,8MM EXTANSION BAR 5"&10" T HANDLE

RATCHET HANDLE



D TRAY

V81949

14PCS OPEN WRENCHES AND **ADJUSTABLE WRENCHES**

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



E TRAY

V81950

20PCS 3/8" SOCKETS AND **ACCESSORY**

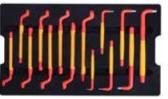
SOCKETS: 8/10/11/12/13/14/ 16/17/18/19/21/22 SOCKETS BITS: 4,5,6,8MM EXTANSION BAR 5"&10" T HANDLE RATCHET HANDLE



FTRAY

14PCS NUTS AND PRECISION **SCREWDRIVERS**

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



G TRAY

V81952

14PCS RING WRENCHES AND HEX **KEYS**

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



H TRAY

V81953

4PCS SPECIAL TOOLS

240MM RATCHET CABLE CUTTER HACK SAW PLASTIC CLAMP*2

TOLSENVDELIME

18PCS INSULATED TOOL SET





| Item No. | Content | k mm → |
|-------------|--|---|
| | Insulated dipped combination pliers | 200 |
| | Insulated dipped long nose pliers | 160 |
| | Insulated dipped diagonal cutting pliers | 160 |
| V83718 | Insulated dipped wire stripping pliers | 160 |
| V03/10 | 3Pcs insulated slotted screwdrivers | 0.4x2.5x75, 0.8x4.0x100, 1.0x5.5x125 |
| | 3Pcs insulated phillips screwdrivers | PH0x60, PH1x80, PH2x100 |
| | 5Pcs insulated open end spanners | 10, 12, 14, 17, 19 |
| | Voltage tester | 3.0x70 |
| | Cable knife | 50x180 |
| | Insulated adjustable wrench | 250 |

25PCS INSULATED TOOL SET





| Item No. | Content | K → |
|-------------|--|--|
| | Insulated dipped combination pliers | 180 |
| | Insulated dipped long nose pliers | 160 |
| | Insulated dipped diagonal cutting pliers | 160 |
| V83825 | 2pcs insulated slotted screwdrivers | 0.8x4.0x100, 1.0x5.5x125 |
| V03023 | 2Pcs insulated phillips screwdrivers | PH1x80, PH2x100 |
| | 14pcs 1/2" insulated dipped sockets | 10, 11, 12, 13, 14, 16, 17, 18, 19, 22, 24, 27, 30, 32 |
| | insulated adjustable wrench | 200 |
| | 2pcs insulated extension bars | 1/2"x125, 1/2"x250 |
| | insulated dipped reversible ratchet | 1/2"x250 |
| | | |

15PCS INJECTION INSULATED TOOL SET





| Item No. | Content | ∠ mm → |
|----------|---|---|
| | Insulated Combination Plier | 200 |
| | Insulated Diagonal Plier | 160 |
| | Insulated Snipe Nose SideCutting Plier | 200 |
| | Insulated Wire Stripper | 160 |
| V82115 | Insulated Cable Knife Straight | 50x180 |
| | Voltage Tester | 3.0x70 |
| | Insulated Screwdriver Slotted | 2.5x75, 3.0x100, 4.0x100, 5.5x125, 6.5x150 |
| | Phillips | PH0x60, PH1x80, PH2x100, PH3x150 |

20PCS INJECTION INSULATED TOOL SET





| Item No. | Content | mm |
|----------|--------------------------------------|---|
| V80320 | 12 PCS 3/8" Insulated Socket | 8, 10 , 11, 12, 13, 14, 16, 17, 18, 19, 21, 22 |
| | 4PCS 3/8" Insulated Hexagon Socket | 4*75, 5*75, 6*75, 8*75 |
| | 2PCS 3/8" Insulated Extension Bar | 125,250 |
| | 3/8" Insulated T-handle Wrench | 200 |
| | 3/8" Insulated Reversible Ratchet | 200 |

29PCS INJECTION INSULATED TOOL SET





| Item No. | Content | k_mm → |
|----------|--|--|
| | 13PCS 1/2" Insulated Socket | 10, 11, 12, 13, 14, 16, 17, 18, 19, 21, 22, 24, 27 |
| | 4PCS 1/2" Insulated Hexagon Socket | 4x120, 5x120, 6x120, 8x120 |
| | 2PCS 1/2" InsulatedExtension Bar | 125, 250 |
| | 1/2" Insulated T-handle Wrench | 200 |
| V80231 | 1/2" Insulated Reversible Ratchet | 250 |
| V0U231 | Insulated combination Plier | 180 |
| | Insulated Diagonal Plier | 160 |
| | Insulated Snipe Nose Side Cutting Plier | 160 |
| | Insulated Adjustable Wrench | 200 |
| | 2PCS Insulated Screwdriver Slotted | 4.0x100, 5.5x125 |
| | 2PCS Phillips | PH1x80, PH2x100 |

20PCS INJECTION INSULATED TOOL SET





| Item No. | Content | K mm → |
|----------|---|--|
| V80421 | 19 PCS Injection Insulated Open End Wrenches | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 24, 27, 30, 32 |
| | Insulated Adjustable Wrench | 250 |

22PCS INJECTION INSULATED TOOL SET





| Item No. | Content | K N |
|----------|--|---------------------------|
| V81022 | 3/8" Insulated Reversible Ratchet Wrench | 200 |
| | 3/8" Insulated Extension Bar | 125 |
| | 3/8" Insulated Socket | 8, 10, 12, 13, 14, 17, 19 |
| | Insulated Screwdriver Slotted | 3.5X100, 4.0X100, 5.5X125 |
| | Insulated Screwdriver Phillips | PH1X80, PH2X100, PH3X150 |
| | Insulated Open End Wrench | 8, 10, 12, 13, 14, 17, 19 |

25PCS INSULATED TOOL SET





| Item No. | Content | ⊩ mm |
|----------|--|---|
| | Dipped Insulated Combination Plier | 200 |
| | Dipped Insulated Diagonal Plier | 160 |
| V80825 | 6PCS Insulated Screwdriver | PH: PH0x60, PH1x80, PH2x100 SL: 0.6X3.5X100, 0.8X4.0X100, 1.0X5.5X125 |
| | Insulated Cable Knife(Straight) | 50x180 |
| | Insulated Cable Knife(Semicircle) | 28x155 |
| | 7PCS 1/2" Dipped Insulated Sockets | 10, 11, 12, 13, 14, 17, 19 |
| | 7PCS Dipped Insulated Open End Wrench | 10, 11, 12, 13, 14, 17, 19 |
| | 1/2" Dipped Insulated T-Handle | 200 |

20PCS DIPPED INSULATED TOOL SET





11PCS INJECTION INSULATED TOOL SET





| Item No. | Content | K mm ≯ |
|----------|-------------------------------------|--|
| V80920 | Dipped Insulated Open End Wrench | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32 |

21PCS INSULATED TOOL SET





| Item No. | Content | K mm → |
|----------|--------------------------------------|---|
| | 5PCS Insulated Screwdriver | PH: PH1, PH2 3.0x100, 4.0x100, 5.5x125 |
| | Insulated Combination Plier | 200 |
| V00110 | Insulated long nose pliers | 200 |
| V80110 | Insulated diagonal Cutting pliers | 180 |
| | Insulated cable Cutting pliers | 160 |
| | Water pump pliers | 250 |
| | Cable knife (straight) | 180 |
| | | |

30PCS INJECTION INSULATED TOOL SET





| Item No. | Content | K —₩ |
|----------|---|--|
| | Dipped Insulated Combination Plier | 200 |
| | Dipped Insulated Diagonal Plier | 160 |
| | 4PCS Insulated Screwdriver | PH: PH0x60 SL: 0.6x3.5x100, 0.8x4.0x100, 1.0x5.5x125 |
| V80721 | Insulated Cable Knif(Straight) | 50x180 |
| V8U/Z1 | 7PCS 1/2" Dipped Insulated Sockets | 10, 11, 12, 13, 14, 17, 19 |
| | 4PCS 1/2" Dipped Insulated Hexagon Socket | 4x120, 5x120, 6x120, 8x120 |
| | 2PCS 1/2" Dipped Insulated Extension Bar | 125, 250 |
| | 1/2" Dipped Insulated Reversible Ratchet | 250 |

| Content | K mm → |
|--------------------------------------|---|
| Insulated Combination Plier | 200 |
| Insulated long nose pliers | 200 |
| Insulated diagonal Cutting pliers | 160 |
| Insulated Wire Stripper | 160 |
| 7PCS Insulated Open End Wrench | 10, 11, 12, 13, 14, 17, 19 |
| 8PCS 1/2" Insulated Socket | 10, 11, 12, 13, 14, 16, 17, 19 |
| 1/2" Insulated Extension Bar | 125 |
| 1/2" Insulated Reversible Ratchet | 250 |
| 9PCS Insulated Screwdriver | PH: PH1, PH2 H: H5, H6, H8, 2.5x75, 4.0x100, 5.5x125, 6.5x150 |
| | Insulated Combination Plier Insulated long nose pliers Insulated diagonal Cutting pliers Insulated Wire Stripper 7PCS Insulated Open End Wrench 8PCS 1/2" Insulated Socket 1/2" Insulated Extension Bar 1/2" Insulated Reversible Ratchet |

7 PCS INJECTION INSULATED TOOL SET





| Item No. | Content | ĸ × |
|----------|--------------------------------------|--|
| | 4pcs Insulated screwdriver | PH: PH1x80, PH2x10 0.5x3.0x100, 0.8x4.0x100 |
| V80107 | Insulated combination plier | 200 |
| | Insulated long nose pliers | 160 |
| | Insulated diagonal Cutting pliers | 160 |

3PCS INSULATED PLIER SET





| Item No. | Content | K mm → |
|----------|-----------------------------------|-------------------|
| | insulated combination pliers | 180 |
| V83103 | insulated long nose pliers | 160 |
| | insulated diagonal cutting pliers | 160 |
| | insulated diagonal cutting pliers | 160 |

4PCS INSULATED PLIER SET





| Item No. | Content | ⊬ mm → |
|----------|-----------------------------------|-------------------|
| | insulated combination pliers | 180 |
| V83204 | insulated long nose pliers | 200 |
| | insulated diagonal cutting pliers | 160 |
| | insulated wire stripping pliers | 160 |

6PCS INSULATED TOOL SET





| Item No. | Content | K mm → |
|----------|-----------------------------------|-------------------|
| | insulated combination pliers | 180 |
| | insulated diagonal cutting pliers | 160 |
| V83306 | 2pcs insulated slotted | 0.4x2.5x75, |
| V03300 | screwdriver | 0.8x4.0x100 |
| | insulated phillips screwdriver | PH2x100 |
| | voltage tester | 3.0x70 |
| | | |

11PCS INSULATED TOOL SET





| Item No. | Content | k mm → |
|----------|------------------------------------|---|
| | insulated combination pliers | 180 |
| | insulated long nose pliers | 200 |
| | insulated diagonal cutting pliers | 160 |
| | insulated wire stripping pliers | 160 |
| V83411 | 3pcs insulated slotted screwdriver | 0.4x2.5x75, 0.8x4.0x100, 1.0x5.5x125 |
| | 2pcs insulated phillips | PH1x80, |
| | screwdriver | PH2x100 |
| | voltage tester | 3.0x70 |
| | cable knife | 50x180 |

3 PCS INSULATED PLIER SET





| Item No. | Content | K mm → |
|----------|---------------------------------------|-------------------|
| | Insulated Injection Combination Plier | 180 |
| V81103 | Insulated Injection Snip Nose Plier | 200 |
| | Insulated Injection Diagonal Plier | 160 |

5 PCS INSULATED SCREWDRIVER SET





11 PCS INSULATED SOCKET SET





| Item No. | Content | к mm → |
|----------|-----------------------------------|---------------------------|
| \/0400F | Insulated Screwdriver Slotted | 3.5X100, 4.0X100, 5.5X125 |
| V81205 | Insulated Screwdriver Phillips | PH1x80, PH2x100 |

| 3/8" Insulated T-Handle Wrench 200 | Item No. | Content | K mm → |
|--------------------------------------|----------|----------------------------------|------------------------|
| 3/8" Insulated Hexagon | | • | 200 |
| | V81611 | 3/8" Insulated Socket | 8, 10, 11, 12, 13, 14 |
| | | 3/8" Insulated Hexagon Socket | 4x75, 5X75, 6X75, 8X75 |

7 PCS INSULATED WRENCH SET





11 PCS INSULATED SOCKET SET





| Item No. | Content | ⊬ mm → |
|----------|--|---------------------------|
| V81307 | Insulated Injection Open End Wrench | 8, 10, 12, 13, 14, 17, 19 |

| Item No. | Content | mm → |
|----------|-----------------------------------|--|
| V81511 | 3/8" Insulated T-Handle Wrench | 200 |
| V81311 | 3/8" Insulated Socket | 8, 10, 11, 12, 13, 14, 16, 17, 18, 19 |

9 PCS INSULATED SOCKET SET





5PCS INSULATED RING GEAR WRENCH SET





| Item No. | Content | K mm → |
|----------|---|------------------------------|
| | 3/8" Insulated Reversible Ratchet Handle | 200 |
| V81409 | 3/8" Insulated Extension Bar | 125 |
| | 3/8" Insulated Socket | 8, 10, 12, 13, 14, 17, 19 |

| Item No. | Content | K —mm → |
|----------|----------------------------|--------------------|
| V82005 | Insulated Ring Gear Wrench | 10, 12, 13, 14, 17 |

☆1000V

INSULATED **PLIERS**





Soft wire



Medium hard wire





Cu+Al multi-conductor cable, strand and multi-stranded



Metal part made in CRV steel Pearl nickel plated surface

Precision machined body with strictly heat treatment

Manufactured according to IEC60900 standard

BI-COLOR INJECTION GRIP



INJECTION INSULATED SNIPE NOSE PLIERS



| Item No. | ⊬ mm → | • | • |
|----------|-------------------|-----|-----|
| V16096 | 160 | 2 | 1.6 |
| V16098 | 200 | 2.4 | 2 |
| | | | |

INJECTION INSULATED CURVED NOSE PLIERS



INJECTION INSULATED COMBINATION PLIERS

| Item No. | ⊬ mm → | • | • |
|----------|-------------------|-----|-----|
| V16006 | 160 | 2.0 | 1.6 |
| V16007 | 180 | 2.4 | 2.0 |
| V16008 | 200 | 2.5 | 2.2 |

| Item No. | ⊬ mm → | • | • |
|----------|--------|-----|-----|
| V16026 | 160 | 2 | 1.6 |
| V16028 | 200 | 2.4 | 2 |

INJECTION INSULATED DIAGONAL PLIERS





| Item No. | K—mm → | • | 0 | • |
|----------|--------|-----|-----|---|
| V16036 | 160 | 2.6 | 2.4 | 2 |

| Item No. | K mm → | mm | mm² | |
|----------|-------------------|-----|------|--|
| V16066 | 160 | 5.0 | 10.0 | |

INJECTION INSULATED

DIAGONAL PLIERS



| Item No. | K mm → | • | • | • |
|----------|-------------------|---|-----|-----|
| V16037 | 180 | 4 | 2.7 | 2.2 |

INJECTION INSULATED

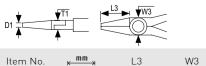


| Item No. | k mm → | mm (Max) |
|----------|-------------------|----------|
| V16070 | 250 | 28 |

INJECTION INSULATED

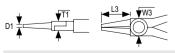
FLAT NOSE PLIERS





| Item No. | k mm → | L3 | W3 | D1 | T1 |
|----------|-------------------|----|----|-----|----|
| V16046 | 160 | 48 | 16 | 6.5 | 9 |

INJECTION INSULATED ROUND NOSE PLIERS



| Item No. | K MM → | L3 | W3 | D1 | T1 |
|----------|-------------------|----|----|-----|----|
| V16056 | 160 | 46 | 16 | 2.6 | 9 |

INJECTION INSULATED CABLE SHEARS

| Item No. | K —₩ | mm² |
|----------|-----------------|-----|
| V11815 | 160 | 22 |

INJECTION INSULATED



| Item No. | K mm → | mm (Max) | mm² (Max) |
|----------|-------------------|----------|-----------|
| V16082 | 250 | 22 | 150 |
| | | | |

INJECTION INSULATED





| Item No. | ⊬ mm | mm (Max) | mm² (Max) |
|----------|-----------------|----------|-----------|
| V16080 | 160 | 8 | 16 |

INJECTION INSULATED

RATCHE CABLE CUTTERS PLIERS

For and on multi strand copper and aluminium cable.

Not suitable for steel wire and wire ropes.

Clean and smooth cut without crushing and deformation.

One-hand operation using ratchet principle.

Little handforce required due to very high transmission ratio.



| Item No. | ⊬ mm → | mm (Max) |
|----------|-------------------|----------|
| V12024 | 240 | 32 |
| V12038 | 380 | 52 |

INJECTION INSULATED

RATCHE CABLE CUTTERS PLIERS



For and on multi strand copper and aluminium cable.

Not suitable for steel wire and wire ropes.

Clean and smooth cut without crushing and deformation.

One-hand operation using ratchet principle.

Little handforce required due to very high transmission ratio.



| Item No. | k mm → | mm (Max) |
|----------|-------------------|----------|
| V16086 | 240 | 32 |
| | | |

TOLSEN V DELIME

INJECTION INSULATED

CABLE CUTTER

For bruise free cutting of copper and aluminium cables.
Clean and smooth cut without crushing and deformation.



INJECTION INSULATED

BOLT CUTTER

Cutter head made of high quality special steel.

Precision ground, hardened blades.

Clean and smooth cut without crushing and deformation.

☆1000V

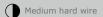




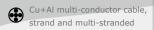
| Item No. | mm_ ⊣ | ⊕ mm² |
|----------|------------------|--------------|
| V11961 | 610 | 250 |
| V11982 | 820 | 500 |

| Item No. | k mm → | mm (Max) |
|----------|-------------------|-------------------------|
| V12224 | 24" | Cu +Al Φ20mm Fe Φ6mm |











☆1000V

Metal part made in CRV steel Pearl nickel plated surface

Precision machined body with strictly heat treatment

Manufactured according to IEC60900 standard

DIPPED GRIP

DIPPED INSULATED COMBINATION PLIERS

| Item No. | ⊬ mm → | • | • |
|----------|-------------------|-----|-----|
| V10116 | 160 | 2 | 1.6 |
| V10118 | 180 | 2.4 | 2 |
| V10120 | 200 | 2.5 | 2.2 |
| | | | |

DIPPED INSULATED CURVED NOSE PLIERS



| Item No. | K mm → | • | • |
|----------|-------------------|-----|-----|
| V10516 | 160 | 2 | 1.6 |
| V10520 | 200 | 2.4 | 2 |
| | | | |

DIPPED INSULATED DIAGONAL PLIERS



| Item No. | mm → | • | • | • |
|----------|-------------------|-----|-----|---|
| V10716 | 160 | 2.6 | 2.4 | 2 |

DIPPED INSULATED SNIPE NOSE PLIERS

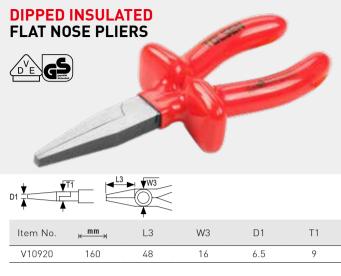


| Item No. | mm → | • | • |
|----------|-----------------|-----|-----|
| V10316 | 160 | 2 | 1.6 |
| V10320 | 200 | 2.4 | 2 |

DIPPED INSULATED DIAGONAL PLIERS

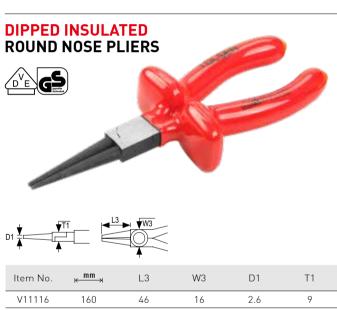


| Item No. | k mm → | • | • | • |
|----------|-------------------|---|-----|-----|
| V10718 | 180 | 4 | 2.7 | 2.2 |





| Item No. | K mm → | mm (Max) |
|----------|-------------------|----------|
| V11525 | 250 | 28 |
| V11530 | 300 | 35 |





| Item No. | k mm → | mm (Max) | mm² (Max) |
|----------|-------------------|----------|-----------|
| V11715 | 160 | 8 | 16 |

DIPPED INSULATED

CABLE SHEARS

DIPPED INSULATED WIRE STRIPPERS

V11316



5.0

10.0

160

| DVE GS | |
|--------|--|
| | |
| | |

| Item No. | ⊬ mm | mm (Max) | mm² (Max) |
|----------|-----------------|----------|-----------|
| V11725 | 250 | 22 | 150 |

☆1000V

INSULATED **SCREWDRIVERS**





Manufactured acc. to EN/IEC 60900. Each tool individually tested at 10,000 V AC and approved for 1,000 V AC. 3-component ergonomic handle design enables precise and fatigue-free working. S2-Chrome vanadium molybdenum steel.





INSULATED SCREWDRIVER WITH SLIM BLADE FOR PHILLIPS SCREWS



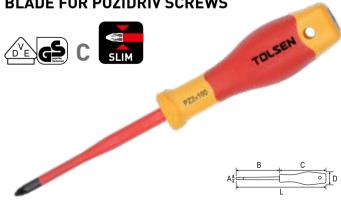
| Item No. | 0 | А | В | CxD | L |
|----------|-----|---|-----|--------|-----|
| V30501 | PH1 | 5 | 80 | 105X30 | 185 |
| V30502 | PH2 | 6 | 100 | 115X35 | 215 |
| V30503 | PH3 | 8 | 150 | 118X41 | 268 |

$A^{\frac{1}{4}} \overbrace{\hspace{1cm}}^{B} \overbrace{\hspace{1cm}}^{C} \overbrace{\hspace{1cm}}^{D} D$

INSULATED SCREWDRIVER WITH SLIM BLADE FOR SLOTTED SCREWS

| Item No. | Ţ | ָם, | А | В | CxD | L |
|----------|-----|-----|-----|-----|--------|-----|
| V30305 | 0.5 | 3.0 | 3.0 | 100 | 95x25 | 195 |
| V30306 | 0.6 | 3.5 | 3.5 | 100 | 95x25 | 195 |
| V30308 | 0.8 | 4.0 | 4.0 | 100 | 105x30 | 205 |
| V30310 | 1.0 | 5.5 | 5.5 | 125 | 115x35 | 240 |
| V30312 | 1.2 | 6.5 | 6.5 | 150 | 115x35 | 265 |

INSULATED SCREWDRIVER WITH SLIM BLADE FOR POZIDRIV SCREWS



| Item No. | 0 | А | В | CxD | L |
|----------|-----|---|-----|--------|-----|
| V30701 | PZ1 | 5 | 80 | 105X30 | 185 |
| V30702 | PZ2 | 6 | 100 | 115X35 | 215 |
| V30703 | PZ3 | 8 | 150 | 118X41 | 268 |

VDE SLOTTED SCREWDRIVER



| Item No. | abla | <u>,</u> [] | А | В | CxD | L |
|----------|------|-------------|-----|-----|--------|-----|
| V30204 | 0.4 | 2.5 | 2.5 | 75 | 95x25 | 170 |
| V30205 | 0.5 | 3 | 3 | 100 | 95x25 | 195 |
| V30206 | 0.6 | 3.5 | 3.5 | 100 | 95x25 | 195 |
| V30208 | 0.8 | 4 | 4 | 100 | 105x30 | 205 |
| V30210 | 1 | 5.5 | 5.5 | 125 | 115x35 | 240 |
| V30212 | 1.2 | 6.5 | 6.5 | 150 | 115x35 | 265 |

| Item No. | 0 | А | В | CxD | L |
|----------|-----|-----|-----|---------|-----|
| V31025 | 2.5 | 2.5 | 75 | 95X25 | 170 |
| V31003 | 3 | 3 | 75 | 95X25 | 170 |
| V31004 | 4 | 4 | 75 | 105X30 | 180 |
| V31005 | 5 | 5 | 75 | 105X30 | 180 |
| V31006 | 6 | 6 | 100 | 115X35 | 215 |
| V31008 | 8 | 8 | 100 | 118X41 | 218 |
| | | | 100 | 110/141 | 210 |

VDE PHILLIPS SCREWDRIVER



| Item No. | • | А | В | CxD | L |
|----------|-----|---|-----|--------|-----|
| V30400 | PH0 | 3 | 60 | 95X25 | 155 |
| V30401 | PH1 | 5 | 80 | 105X30 | 185 |
| V30402 | PH2 | 6 | 100 | 115X35 | 215 |
| V30403 | PH3 | 8 | 150 | 118X41 | 268 |
| | | | | | |

INSULATED ADAPTER FOR 1/4" SOCKET

For use with 1/4" Sockets. Chrome Vanadium steel.



| Item No. | | А |
|----------|------|----|
| V33414 | 1/4" | 75 |



105X30

115X35

118X41

150

215

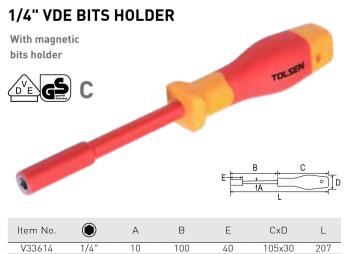
268

PZ1 PZ2

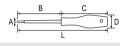
V30601

V30602

V30603





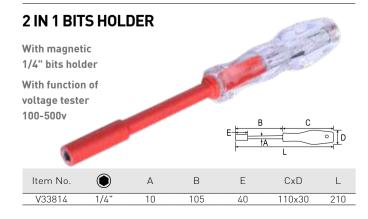


| Item No. | 0 | А | В | CxD | L |
|----------|-----|---|-----|--------|-----|
| V30810 | T10 | 3 | 70 | 95X25 | 165 |
| V30815 | T15 | 4 | 80 | 105X30 | 185 |
| V30820 | T20 | 4 | 100 | 105X30 | 205 |
| V30825 | T25 | 5 | 125 | 115X35 | 230 |
| V30830 | T30 | 6 | 130 | 115X35 | 245 |

VDE NUT SCREWDRIVER



| Item No. | | А | В | Е | CxD | L |
|----------|-----|-----|-----|----|--------|-----|
| V31204 | 4 | 7.2 | 125 | 31 | 105x30 | 230 |
| V31205 | 5 | 7.2 | 125 | 31 | 105x30 | 230 |
| V31255 | 5.5 | 7.2 | 125 | 31 | 105x30 | 230 |
| V31206 | 6 | 7.2 | 125 | 31 | 105x30 | 230 |
| V31207 | 7 | 7.2 | 125 | 31 | 105x30 | 230 |
| V31208 | 8 | 7.2 | 125 | 31 | 105x30 | 230 |
| V31209 | 9 | 7.2 | 125 | 31 | 105x30 | 230 |
| V31210 | 10 | 7.2 | 125 | 31 | 105x30 | 230 |
| V31211 | 11 | 8.1 | 125 | 31 | 118x41 | 240 |
| V31212 | 12 | 8.1 | 125 | 31 | 118x41 | 243 |
| V31213 | 13 | 8.1 | 125 | 31 | 118x41 | 243 |
| V31214 | 14 | 8.1 | 125 | 31 | 118x41 | 243 |



INSULATED SCREWDRIVER FOR HEXAGON SOCKET SCREWS WITH T-HANDLE



| Item No. | 0 | А | Н | L |
|----------|-----|-----|--------|-----|
| V40825 | 2.5 | 5 | 80x26 | 150 |
| V40803 | 3 | 5.5 | 80x26 | 150 |
| V40804 | 4 | 7 | 80x26 | 150 |
| V40805 | 5 | 8 | 100x34 | 150 |
| V40806 | 6 | 9 | 100x34 | 150 |
| V40808 | 8 | 11 | 115x40 | 150 |

INSULATED NUT DRIVER WITH T-HANDLE



| Item No. | | А | В | Н | L |
|----------|-----|-----|----|--------|-----|
| V31904 | 4 | 7.1 | 25 | 100x34 | 130 |
| V31905 | 5 | 7.1 | 25 | 100x34 | 130 |
| V31955 | 5.5 | 7.1 | 25 | 100x34 | 130 |
| V31906 | 6 | 7.1 | 25 | 100x34 | 130 |
| V31907 | 7 | 7.1 | 25 | 100x34 | 130 |
| V31908 | 8 | 7.1 | 25 | 100x34 | 130 |
| V31909 | 9 | 7.1 | 25 | 100x34 | 130 |
| V31910 | 10 | 7.1 | 25 | 100x34 | 130 |
| V31911 | 11 | 8.1 | 25 | 100x34 | 130 |
| V31912 | 12 | 8.1 | 25 | 100x34 | 130 |
| V31913 | 13 | 8.1 | 25 | 100x34 | 130 |
| V31914 | 14 | 8.1 | 25 | 100x34 | 130 |



| Item No. | Σ | Ð | А | В | CxD | L |
|----------|----------|-----|-----|----|-------|-----|
| V31415 | 0.23 | 1.5 | 1.5 | 50 | 95x18 | 145 |
| V31418 | 0.3 | 1.8 | 2 | 50 | 95x18 | 145 |
| V31420 | 0.4 | 2 | 2 | 50 | 95x18 | 145 |
| V31425 | 0.4 | 2.5 | 2.5 | 50 | 95x18 | 145 |
| V31430 | 0.5 | 3 | 3 | 50 | 95x18 | 145 |



| Item No. | 0 | А | В | CxD | L |
|----------|-----|-----|----|-------|-----|
| V31806 | Т6 | 2.5 | 50 | 95x18 | 145 |
| V31808 | Т8 | 2.5 | 50 | 95x18 | 145 |
| V31810 | T10 | 3 | 50 | 95x18 | 145 |
| V31815 | T15 | 4 | 50 | 95x18 | 145 |
| V31820 | T20 | 4 | 50 | 95x18 | 145 |
| | | | | | |

VDE PRECISION PHILLIPS SCREWDRIVER



| Item No. | 0 | А | В | CxD | L |
|----------|------|-----|----|-------|-----|
| V31600 | PH00 | 2.5 | 50 | 95x18 | 145 |
| V31601 | PH0 | 3 | 50 | 95x18 | 145 |
| V31602 | PH1 | 3 | 50 | 95x18 | 145 |

7PCS INSULATED PRECISION SCREWDRIVER SET



| Item No. | Content |
|----------|---|
| V32207 | Slotted: 0.5x3.0x50 Phillips: PH0x50 TX: T6x50 T8x50 T10x50 T15x50 T20x50 |

7PCS INSULATED PRECISION SCREWDRIVER SET





| Item No. | Content |
|----------|--|
| V32007 | Slotted: 0.23x1.5x50 0.3x1.8x50 0.4x2.0x50 |



8PCS INSULATED SCREWDRIVER SET



6PCS INSULATED SCREWDRIVER SET





| Item No. | Content |
|----------|---|
| V32408 | Slotted: 0.4x2.5x75, 0.8x4.0x100, 1.0x5.5x125, 1.2x6.5x150 Phillips: PH0x60, PH1x80, PH2x100 Voltage Tester: 3.0x70 |

| Item No. | Content |
|----------|---|
| V33006 | Nut: 5.5x125 6.0x125 8.0x125 10.0x125 11.0x125 12.0x125 |

7PCS INSULATED SCREWDRIVER SET







6PCS INSULATED SCREWDRIVER SET





| Item No. | Content |
|----------|---|
| V32607 | Slotted: 0.5x3.0x100, 0.8x4.0x100, 1.0x5.5x125, 1.2x6.5x150 Phillips: PH1x80, PH2x100 Voltage Tester: 3.0x70 |

| Item No. | Content |
|----------|--|
| V33506 | Slotted: 0.4x2.5x75, 0.8x4.0x100, 1.0x5.5x125 Phillips: PH1x80, PH2x100 Voltage Tester: 3.0x70 |

50PCS INSULATED CHANGABLE SCREWDRIVER 12PCS INSULATED CHANGABLE SCREWDRIVER



SET





| Item No. | Content |
|----------|---|
| V33450 | 0.4x2.0x100 0.4x2.5x100 0.5x3.0x100 0.6x3.5x100 0.8x4.0x100 1.0x5.5x100 1.2x6.5x100 PH0x100 PH1x100 PH2x100 PZ0x100 PZ1x100 PZ2x100 T6x100 T3x100 T30x100 T15x100 T20x100 T25x100 T27x100 T30x100 H2.5x100 H3.0x100 H4.0x100 H5.0x100 H6.0x100 R1x100 T20 T0R0 4x100 T0R0 4x100 T0R0 8x100 T0R0 T0R0 8x100 T0R0 T0R0 T0R0 T0R0 T0R0 T0R0 T0R0 T |

| Item No. | Content |
|----------|--|
| V33212 | Slotted: 0.4x2.0x100 0.4x2.5x100 0.5x3.0x100 0.6x3.5x100 0.8x4.0x100 1.0x5.5x100 1.2x6.5x100 Phillips: PH0x100 PH1x100 PH2x100 Voltage Tester: 3.0x70 Handle: 31x105 |

☆1000V

INSULATED **WRENCHES & SOCKETS**

Metal part made in crv steel Chrome plated surface

Well heat treated to meet DIN standard

Manufactured according to IEC60900 standard

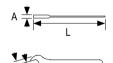


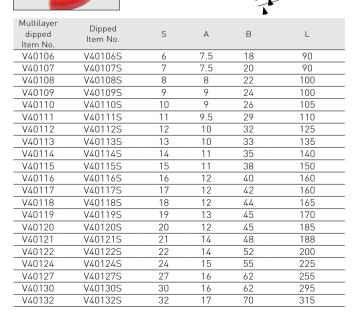




MULTILAYER

DIPPED





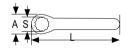












| Multilayer dipped Item No. | Dipped Item No. | S | А | L |
|-------------------------------|--------------------|----|------|-----|
| V42707 | V42707S | 7 | 25 | 135 |
| V42708 | V42708S | 8 | 26.5 | 140 |
| V42709 | V42709S | 9 | 27.5 | 145 |
| V42710 | V42710S | 10 | 29.5 | 150 |
| V42711 | V42711S | 11 | 32 | 160 |
| V42712 | V42712S | 12 | 34.5 | 165 |
| V42713 | V42713S | 13 | 34.5 | 170 |
| V42714 | V42714S | 14 | 37.5 | 180 |
| V42715 | V42715S | 15 | 38 | 190 |
| V42716 | V42716S | 16 | 38.5 | 220 |
| V42717 | V42717S | 17 | 38 | 180 |
| V42718 | V42718S | 18 | 39 | 190 |
| V42719 | V42719S | 19 | 40 | 200 |
| V42722 | V42722S | 22 | 47 | 230 |
| V42724 | V42724S | 24 | 52.5 | 260 |

TOLSENVDELIME

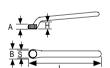
DIPPED INSULATED RING WRENCH











| Multilayer dipped Item No. | Dipped Item No. | S | А | В | L |
|-------------------------------|--------------------|----|------|------|-----|
| V40306 | V40306S | 6 | 8 | 17 | 140 |
| V40307 | V40307S | 7 | 10.5 | 17 | 150 |
| V40308 | V40308S | 8 | 12 | 19 | 155 |
| V40309 | V40309S | 9 | 12 | 20.5 | 160 |
| V40310 | V40310S | 10 | 12 | 20.5 | 165 |
| V40311 | V40311S | 11 | 12 | 23 | 175 |
| V40312 | V40312S | 12 | 12 | 24 | 185 |
| V40313 | V40313S | 13 | 13 | 26 | 190 |
| V40314 | V40314S | 14 | 13 | 27 | 200 |
| V40315 | V40315S | 15 | 13 | 29 | 205 |
| V40316 | V40316S | 16 | 14 | 30 | 205 |
| V40317 | V40317S | 17 | 14.5 | 32 | 210 |
| V40318 | V40318S | 18 | 14.5 | 33 | 220 |
| V40319 | V40319S | 19 | 14.5 | 35 | 230 |
| V40320 | V40320S | 20 | 16 | 36 | 228 |
| V40321 | V40321S | 21 | 16 | 38 | 240 |
| V40322 | V40322S | 22 | 16 | 40 | 250 |
| V40324 | V40324S | 24 | 16 | 42 | 270 |
| V40327 | V40327S | 27 | 16.5 | 46.5 | 285 |
| V40330 | V40330S | 30 | 17 | 50 | 310 |
| V40332 | V40332S | 32 | 18 | 52 | 310 |
| | | | | | |

DIPPED INSULATED GEAR SOCKET WRENCH GEAR REVERSIBLE TWO SIZES IN ONE 1000V





MULTILAYER DIPPED



| Multilayer dipped Item No. | Dipped Item No. | Size / mm |
|-------------------------------|--------------------|-----------|
| V42501 | V42501S | 13 X 17 |
| V42502 | V42502S | 17 X 19 |
| V42519 | V42519S | 19 X 24 |

DIPPED INSULATED ADJUSTABLE WRENCH

PRECISION MACHINED BODY
WITH STRICTLY HEAT TREATMENT







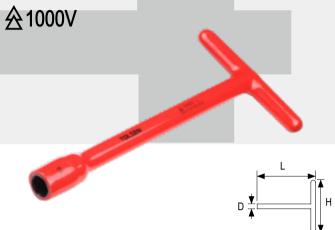


MULTILAYER DIPPED

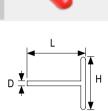
|--|

| Multilayer dipped Item No. | Dipped Item No. | k—— × | S (Max) |
|-------------------------------|--------------------|------------------|---------|
| V40520 | V40520S | 200 | 30 |
| V40525 | V40525S | 250 | 36 |
| V40530 | V40530S | 300 | 40 |

DIPPED INSULATED SOCKET WRENCH



| DIPPED INSULATED WRENCE TORX SCREWS | H FOR |
|-------------------------------------|-------|
| ♦1000V | |



| Item No. | | D | L | Н |
|----------|----|------|-----|-----|
| V40908 | 8 | 15 | 200 | 145 |
| V40910 | 10 | 19 | 200 | 145 |
| V40912 | 12 | 22.5 | 200 | 145 |
| V40913 | 13 | 23.5 | 200 | 145 |
| V40914 | 14 | 24.5 | 200 | 145 |
| V40916 | 16 | 26.5 | 200 | 145 |
| V40917 | 17 | 28.5 | 200 | 145 |
| V40918 | 18 | 30.5 | 200 | 145 |
| V40919 | 19 | 31.5 | 200 | 145 |
| V40920 | 10 | 19.5 | 300 | 145 |
| V40922 | 12 | 22 | 300 | 145 |
| V40923 | 13 | 23.5 | 300 | 145 |
| V40924 | 14 | 24.5 | 300 | 145 |
| V40926 | 16 | 27 | 300 | 145 |
| V40927 | 17 | 28.5 | 300 | 145 |
| V40928 | 18 | 29.5 | 300 | 145 |
| V40929 | 19 | 31 | 300 | 145 |

| Item No. | 0 | K ────────── |
|----------|-----|-------------------------|
| V42530 | T10 | 130 |
| V42531 | T15 | 140 |
| V42532 | T20 | 140 |
| V42533 | T25 | 160 |
| V42534 | T27 | 160 |
| V42535 | T30 | 180 |
| V42536 | T40 | 200 |
| V42537 | T45 | 200 |
| V42538 | T50 | 210 |
| V42539 | T55 | 235 |

DIPPED INSULATED HEXAGON KEY L-WRENCH

FOR HEXAGON SCREWS



| Item No. | OI. | K ──────────────────────────────────── |
|----------|-----|---|
| V42503 | 3 | 130 |
| V42504 | 4 | 140 |
| V42505 | 5 | 160 |
| V42506 | 6 | 180 |
| V42508 | 8 | 210 |
| V42510 | 10 | 240 |
| V42512 | 12 | 250 |

DIPPED INSULATED HEXAGON KEY L-WRENCH

FOR HEXAGON SCREWS





| Item No. | | ⊬ mm → |
|----------|------|-------------------|
| V42812 | 1/2" | 270 |



| Multilayer dipped Item No. | Dipped Item No. | | Н | L |
|-------------------------------|--------------------|------|-----|-----|
| V41112 | V41112S | 1/2" | 155 | 205 |
| V41138 | V41138S | 3/8" | 155 | 205 |

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

VDE GS PENDING





V42138S

Multilayer dipped

V42112

V42138



3/8"

250

200



| Multilayer dipped Item No. | Dipped Item No. | | K mm → |
|-------------------------------|--------------------|------|-------------------|
| V42301 | V42301S | 1/2" | 125 |
| V42302 | V42302S | 1/2" | 250 |
| V42303 | V42303S | 3/8" | 125 |
| V42304 | V42304S | 3/8" | 250 |
| V42305 | V42305S | 1/4" | 75 |
| V42306 | V42306S | 1/4" | 150 |
| | | | |

DIPPED INSULATED CROSS RIM WRENCH



| Multilayer dipped Item No. | Dipped Item No. | | D | L1 | L |
|----------------------------------|--------------------|---------|---------|-----|-----|
| V42904 | | 13 24.3 | 94 | 230 | |
| | V42904S | 14 | 14 27.3 | 94 | 230 |
| | V427U43 | 17 29.4 | 29.4 | 94 | 230 |
| | | 19 | 31 | 94 | 230 |

DIPPED INSULATED SOCKET 1/2" ☆ 1000V

DIPPED INSULATED DEEP SOCKET 1/2" ★1000V





















| Multilayer dipped Item No. | Dipped Item No. | | D | Н |
|-------------------------------|--------------------|----|------|----|
| V41310 | V41310S | 10 | 19.7 | 54 |
| V41311 | V41311S | 11 | 21.0 | 54 |
| V41312 | V41312S | 12 | 22.1 | 54 |
| V41313 | V41313S | 13 | 23.3 | 54 |
| V41314 | V41314S | 14 | 24.7 | 54 |
| V41316 | V41316S | 16 | 27.4 | 54 |
| V41317 | V41317S | 17 | 28.1 | 54 |
| V41318 | V41318S | 18 | 29.7 | 54 |
| V41319 | V41319S | 19 | 30.0 | 54 |
| V41321 | V41321S | 21 | 32.0 | 54 |
| V41322 | V41322S | 22 | 34.0 | 54 |
| V41324 | V41324S | 24 | 36.3 | 54 |
| V41327 | V41327S | 27 | 41.0 | 58 |
| V41330 | V41330S | 30 | 44.1 | 59 |
| V41332 | V41332S | 32 | 46.1 | 59 |



| Multilayer dipped Item No. | Dipped Item No. | | D | Н |
|-------------------------------|--------------------|----|------|----|
| V41340 | V41340S | 8 | 18 | 94 |
| V41341 | V41341S | 9 | 19 | 94 |
| V41342 | V41342S | 10 | 21 | 94 |
| V41343 | V41343S | 11 | 22 | 94 |
| V41344 | V41344S | 12 | 23 | 94 |
| V41345 | V41345S | 13 | 24 | 94 |
| V41346 | V41346S | 14 | 26 | 94 |
| V41347 | V41347S | 15 | 27 | 94 |
| V41348 | V41348S | 16 | 27 | 94 |
| V41349 | V41349S | 17 | 29 | 94 |
| V41350 | V41350S | 18 | 30.5 | 94 |
| V41351 | V41351S | 19 | 31 | 94 |
| V41352 | V41352S | 20 | 33 | 94 |
| V41353 | V41353S | 21 | 33 | 94 |
| V41354 | V41354S | 22 | 35 | 94 |
| V41355 | V41355S | 23 | | 94 |
| V41356 | V41356S | 24 | 37 | 94 |
| V41359 | V41359S | 27 | 41 | 94 |
| V41362 | V41362S | 30 | 45 | 94 |
| V41364 | V41364S | 32 | 47 | 94 |
| | | | | |

DIPPED INSULATED HEXAGON SOCKET WITH DOUBLE-HEX 1/2"

MULTILAYER DIPPED











| | - | –H – | - |
|-------------|---|------|---|
| Ā D ▼ | | | |

| Multilayer dipped Item No. | Dipped Item No. | | D | Н |
|-------------------------------|--------------------|----|------|----|
| V41371 | V41371S | 8 | 18 | 59 |
| V41372 | V41372S | 9 | 19 | 59 |
| V41373 | V41373S | 10 | 21 | 59 |
| V41374 | V41374S | 11 | 22 | 59 |
| V41375 | V41375S | 12 | 23 | 59 |
| V41376 | V41376S | 13 | 24 | 59 |
| V41377 | V41377S | 14 | 26 | 59 |
| V41378 | V41378S | 15 | 27 | 59 |
| V41379 | V41379S | 16 | 27 | 59 |
| V41380 | V41380S | 17 | 29 | 59 |
| V41381 | V41381S | 18 | 30.5 | 59 |
| V41382 | V41382S | 19 | 31 | 59 |
| V41383 | V41383S | 20 | 33 | 59 |
| V41384 | V41384S | 21 | 33 | 59 |
| V41385 | V41385S | 22 | 35 | 59 |
| V41386 | V41386S | 24 | 37 | 59 |
| V41387 | V41387S | 27 | 41 | 59 |
| V41388 | V41388S | 30 | 45 | 59 |
| V41389 | V41389S | 32 | 47 | 59 |

☆1000V

DIPPED INSULATED HEXAGON SOCKET WITH DOUBLE-HEX, LONG VERSION 1/2"

MULTILAYER DIPPED





DIPPED



| Multilayer dipped Item No. | Dipped Item No. | | D | Н |
|-------------------------------|--------------------|----|----|----|
| V41391 | V41391S | 10 | 21 | 94 |
| V41392 | V41392S | 12 | 23 | 94 |
| V41393 | V41393S | 13 | 24 | 94 |
| V41394 | V41394S | 14 | 26 | 94 |
| V41395 | V41395S | 17 | 29 | 94 |
| V41396 | V41396S | 19 | 31 | 94 |

☆1000V

DIPPED INSULATED HEXAGONAL SOCKET 1/2" ☆1000V











| Dipped Item No. | 0 | K MM → |
|--------------------|--|--|
| V41704S | 4 | 120 |
| V41705S | 5 | 120 |
| V41706S | 6 | 120 |
| V41708S | 8 | 120 |
| V41710S | 10 | 120 |
| | V41704S V41705S V41706S V41708S | Item No. V41704S 4 V41705S 5 V41706S 6 V41708S 8 |

DIPPED INSULATED BIT SOCKET FOR TORX SCREWS 1/2"

☆1000V





TOLSEN









TOLSEN

| Multilayer dipped Item No. | Dipped Item No. | 0 | ⊬ mm × |
|-------------------------------|--------------------|-----|-------------------|
| V41731 | V41731S | T10 | 120 |
| V41732 | V41732S | T15 | 120 |
| V41733 | V41733S | T20 | 120 |
| V41734 | V41734S | T25 | 120 |
| V41735 | V41735S | T27 | 120 |
| V41736 | V41736S | T30 | 120 |
| V41737 | V41737S | T40 | 120 |
| V41738 | V41738S | T45 | 120 |
| V41739 | V41739S | T50 | 120 |
| V41740 | V41740S | T55 | 120 |

DIPPED INSULATED

SOCKET 3/8"

☆1000V

DIPPED INSULATED DEEP SOCKET 3/8" ☆1000V















MULTILAYER DIPPED











Multilayer dipped Dipped D Item No. Item No. V41525 V41525S 16.3 80 V41526S 18.9 80 V41526 V41527 V41527S 10 20.1 80 V41528 V41528S 11 23.0 80 V41529 V41529S 12 80 V41530 V41530S 13 23.9 80 V41531 V41531S 14 26.3 80 V41532 V41532S 15 27.7 80 V41533S V41533 16 29.0 80 V41534S 30.3 V41534 17 80 80 V41535 V41535S 32.0 18 V41536S 19 80 V41536 34.0

DIPPED INSULATED HEXAGONAL SOCKET 3/8"

☆1000V



| Multilayer dipped Item No. | Dipped Item No. | | D | Н |
|-------------------------------|--------------------|----|------|----|
| V41508 | V41508S | 8 | 16.3 | 44 |
| V41510 | V41510S | 10 | 18.9 | 44 |
| V41511 | V41511S | 11 | 20.1 | 44 |
| V41512 | V41512S | 12 | 23.0 | 44 |
| V41513 | V41513S | 13 | 23.1 | 44 |
| V41514 | V41514S | 14 | 23.9 | 44 |
| V41516 | V41516S | 16 | 26.3 | 44 |
| V41517 | V41517S | 17 | 27.7 | 44 |
| V41518 | V41518S | 18 | 29.0 | 46 |
| V41519 | V41519S | 19 | 30.3 | 46 |
| V41521 | V41521S | 21 | 32.0 | 46 |
| V41522 | V41522S | 22 | 34.0 | 46 |

MULTILAYER DIPPED







DIPPED





| Multilayer dipped Item No. | Dipped Item No. | 0 | ⊬ mm ≯ |
|-------------------------------|--------------------|---|-------------------|
| V41904 | V41904S | 4 | 75 |
| V41905 | V41905S | 5 | 75 |
| V41906 | V41906S | 6 | 75 |
| V41908 | V41908S | 8 | 75 |

DIPPED INSULATED SOCKET 1/4"

☆1000V

MULTILAYER DIPPED









| Multilayer dipped Item No. | Dipped Item No. | | D | Н |
|-------------------------------|--------------------|-----|------|----|
| V41570 | V41570S | 4 | 9.8 | 42 |
| V41571 | V41571S | 5 | 11.2 | 42 |
| V41572 | V41572S | 5.5 | 11.7 | 42 |
| V41573 | V41573S | 6 | 12.2 | 42 |
| V41574 | V41574S | 7 | 14 | 42 |
| V41575 | V41575S | 8 | 15 | 42 |
| V41576 | V41576S | 9 | 16 | 42 |
| V41577 | V41577S | 10 | 17.5 | 42 |
| V41578 | V41578S | 11 | 19 | 42 |
| V41579 | V41579S | 12 | 19.5 | 42 |
| V41580 | V41580S | 13 | 20.8 | 42 |
| V41581 | V41581S | 14 | 22.8 | 42 |
| | | | | |

DIPPED INSULATED

HEXAGON SOCKET, LONG VERSION 1/4"

DIPPED

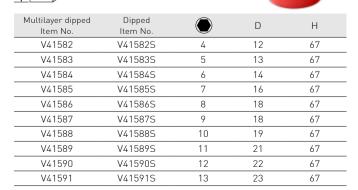


MULTILAYER DIPPED









DIPPED INSULATED

BIT SOCKET FOR HEXAGON SCREWS 1/4"

☆1000V







DIPPED



| Multilayer dipped Item No. | Dipped Item No. | 0 | ⊬ mm → |
|-------------------------------|--------------------|---|-------------------|
| V41961 | V41961S | 3 | 66 |
| V41962 | V41962S | 4 | 66 |
| V41963 | V41963S | 5 | 66 |
| V41964 | V41964S | 6 | 66 |
| V41965 | V41965S | 8 | 66 |

DIPPED INSULATED

BIT SOCKET FOR TORX SCREWS 1/4"

☆1000V

MULTILAYER DIPPED



TOLSEN









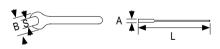
| Multilayer dipped Item No. | Dipped Item No. | 0 | ⊬ mm |
|-------------------------------|--------------------|-----|-----------------|
| V41966 | V41966S | T10 | 66 |
| V41967 | V41967S | T15 | 66 |
| V41968 | V41968S | T20 | 66 |
| V41969 | V41969S | T25 | 66 |
| V41970 | V41970S | T27 | 66 |
| V41971 | V41971S | T30 | 66 |
| V41972 | V41972S | T40 | 66 |

INJECTION INSULATED

OPEN END WRENCH







| Item No. | S | А | В | L |
|----------|----|------|------|-----|
| V40206 | 6 | 7 | 22 | 90 |
| V40207 | 7 | 7 | 24 | 90 |
| V40208 | 8 | 7.5 | 25.5 | 100 |
| V40209 | 9 | 7.5 | 27.5 | 100 |
| V40210 | 10 | 8 | 29 | 110 |
| V40211 | 11 | 8.5 | 31 | 110 |
| V40212 | 12 | 8.5 | 33 | 130 |
| V40213 | 13 | 10.5 | 34 | 135 |
| V40214 | 14 | 10.5 | 37 | 145 |
| V40215 | 15 | 11.5 | 40 | 150 |
| V40216 | 16 | 11.5 | 42 | 160 |
| V40217 | 17 | 12 | 44 | 160 |
| V40218 | 18 | 12 | 44.5 | 175 |
| V40219 | 19 | 12.5 | 48 | 175 |
| V40221 | 21 | 12.5 | 51 | 195 |
| V40222 | 22 | 13 | 54 | 195 |
| V40224 | 24 | 13.5 | 56 | 225 |
| V40227 | 27 | 14.5 | 61 | 250 |
| V40230 | 30 | 14.8 | 66 | 290 |
| V40232 | 32 | 15.8 | 70 | 310 |

INJECTION INSULATED

RING WRENCH





| Item No. | S | А | В | L |
|----------|----|------|------|-----|
| V40406 | 6 | 7 | 16 | 150 |
| V40407 | 7 | 7 | 17 | 150 |
| V40408 | 8 | 7.5 | 18 | 155 |
| V40409 | 9 | 8.5 | 19 | 155 |
| V40410 | 10 | 8.5 | 21 | 165 |
| V40411 | 11 | 8.5 | 22.5 | 170 |
| V40412 | 12 | 9.5 | 22.5 | 185 |
| V40413 | 13 | 10 | 26 | 190 |
| V40414 | 14 | 11 | 26 | 205 |
| V40415 | 15 | 11 | 27 | 205 |
| V40416 | 16 | 12 | 30 | 215 |
| V40417 | 17 | 12 | 30.5 | 215 |
| V40418 | 18 | 13 | 32 | 230 |
| V40419 | 19 | 13 | 33.5 | 230 |
| V40421 | 21 | 14 | 37.5 | 245 |
| V40422 | 22 | 14 | 37.5 | 245 |
| V40424 | 24 | 16 | 39 | 265 |
| V40427 | 27 | 16 | 44 | 285 |
| V40430 | 30 | 16.5 | 48 | 300 |
| V40432 | 32 | 17.5 | 51 | 305 |
| | | | | |

INJECTION INSULATED ADJUSTABLE WRENCH



| Item No. | ⊬ mm | S (Max) |
|----------|-----------------|---------|
| V40616 | 160 | 19 |
| V40620 | 200 | 30 |
| V40625 | 250 | 36 |
| V40630 | 300 | 40 |

TOLSENVDELIME

INJECTION INSULATED RATCHET RING SPANNER 72 teeth TOLSEN DE C

| Item No. | S | А | L |
|----------|----|------|-----|
| V42807 | 7 | 22 | 120 |
| V42808 | 8 | 22 | 120 |
| V42809 | 9 | 24 | 125 |
| V42810 | 10 | 26 | 135 |
| V42811 | 11 | 28 | 140 |
| V42812 | 12 | 29 | 145 |
| V42813 | 13 | 31 | 150 |
| V42814 | 14 | 33 | 160 |
| V42815 | 15 | 34 | 165 |
| V42816 | 16 | 36 | 170 |
| V42817 | 17 | 38 | 180 |
| V42818 | 18 | 39 | 190 |
| V42819 | 19 | 40 | 200 |
| V42822 | 22 | 47 | 230 |
| V42824 | 24 | 52.5 | 260 |

INJECTION INSULATE **HEXAGON KEY L-WRENCH**





| Item No. | \bigcirc I | ĸ mm → |
|----------|--------------|-------------------|
| V42603 | 3 | 130 |
| V42604 | 4 | 140 |
| V42605 | 5 | 160 |
| V42606 | 6 | 180 |
| V42608 | 8 | 200 |
| V42610 | 10 | 235 |
| V42612 | 12 | 250 |
| | | |

INJECTION INSULATED

L WRENCH FOR TORX SCREWS



| Item No. | 0 | ⊬ mm |
|----------|-----|-----------------|
| V42620 | T10 | 130 |
| V42621 | T15 | 140 |
| V42622 | T20 | 140 |
| V42623 | T25 | 160 |
| V42624 | T27 | 160 |
| V42625 | T30 | 180 |
| V42626 | T40 | 200 |
| V42627 | T45 | 200 |
| V42628 | T50 | 210 |
| V42629 | T55 | 235 |

INJECTION INSULATED T-HANDLE





| Item No. | | Н | L |
|----------|------|-----|-----|
| V41212 | 1/2" | 160 | 205 |
| V41238 | 3/8" | 160 | 205 |
| | | | |

INJECTION INSULATED

TORQUE WRENCH







- Ratchet Head: Chromiumvanadium alloy steel brings better strength and life cycle.
 90 Teeth Ratchet.
- 3. Accuracy of torque +/-4%; quality meets DIN ISO 6789. 4. Each piece stamping ID number for traceability.

Unique quick precision adjustment hole design eliminates the need to damage the insulating layer of the product.

Window Display: Easy readable scale below a window



| Item No. | | N.m |
|----------|--------|--------|
| V43001 | 1/4"DR | 1-5 |
| V43002 | 1/4"DR | 2-10 |
| V43003 | 1/4"DR | 5-25 |
| V43011 | 3/8"DR | 1-5 |
| V43012 | 3/8"DR | 2-10 |
| V43013 | 3/8"DR | 5-25 |
| V43015 | 3/8"DR | 10-50 |
| V43017 | 3/8"DR | 20-100 |
| V43022 | 1/2"DR | 10-50 |
| V43023 | 1/2"DR | 20-100 |
| V43024 | 1/2"DR | 40-200 |

INJECTION INSULATED

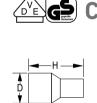
REVERSIBLE RATCHET WRENCH 3/8"



| Item No. | | K mm → |
|----------|------|-------------------|
| V42212 | 1/2" | 250 |
| V42238 | 3/8" | 200 |
| V42214 | 1/4" | 145 |

INJECTION INSULATED

2-COMPONENT HEXAGON SOCKET 1/2"





| Item No. | | D | Н |
|----------|----|------|----|
| V41408 | 8 | 18 | 59 |
| V41409 | 9 | 19 | 59 |
| V41410 | 10 | 21 | 59 |
| V41411 | 11 | 22 | 59 |
| V41412 | 12 | 23 | 59 |
| V41413 | 13 | 24 | 59 |
| V41414 | 14 | 26 | 59 |
| V41415 | 15 | 27 | 59 |
| V41416 | 16 | 27 | 59 |
| V41417 | 17 | 29 | 59 |
| V41418 | 18 | 30.5 | 59 |
| V41419 | 19 | 31 | 59 |
| V41420 | 20 | 33 | 59 |
| V41421 | 21 | 33 | 59 |
| V41422 | 22 | 35 | 59 |
| V41424 | 24 | 37 | 59 |
| V41427 | 27 | 41 | 59 |
| V41430 | 30 | 45 | 59 |
| V41432 | 32 | 47 | 59 |

INJECTION INSULATED

INSULATED 2-COMPONENT HEXAGON SOCKET WITH DOUBLE-HEX, LONG **VERSION 1/2"**







| Item No. | | D | Н |
|----------|-----|----|----|
| V41470 | 10 | 21 | 94 |
| V41472 | 12 | 23 | 94 |
| V41473 | 13m | 24 | 94 |
| V41474 | 14 | 26 | 94 |
| V41477 | 17 | 29 | 94 |
| V41479 | 19 | 31 | 94 |
| | | | |

INJECTION INSULATED

2-COMPONENT BIT SOCKET FOR HEXAGON **SCREWS 1/2"**







| Item No. | 0 | K mm → |
|----------|----|-------------------|
| V41804 | 4 | 120 |
| V41805 | 5 | 120 |
| V41806 | 6 | 120 |
| V41808 | 8 | 120 |
| V41810 | 10 | 120 |

INJECTION INSULATED 2-COMPONENT BIT SOCKET FOR TORX SCREWS, 1/2"





| Item No. | 0 | K −−−− × |
|----------|-----|---------------------|
| V41821 | T10 | 120 |
| V41822 | T15 | 120 |
| V41823 | T20 | 120 |
| V41824 | T25 | 120 |
| V41825 | T27 | 120 |
| V41826 | T30 | 120 |
| V41827 | T40 | 120 |
| V41828 | T45 | 120 |
| V41829 | T50 | 120 |
| V41830 | T55 | 120 |

INJECTION INSULATED

EXTENSION BAR 1/2"







| Item No. | | K MM → |
|----------|------|------------------------------|
| V42401 | 1/2" | 125 |
| V42402 | 1/2" | 250 |

INJECTION INSULATED

2-COMPONENT HEXAGON SOCKET 3/8"



| Item No. | | D | Н |
|----------|----|------|----|
| V41606 | 6 | 14.5 | 45 |
| V41607 | 7 | 16 | 45 |
| V41608 | 8 | 17 | 45 |
| V41609 | 9 | 18 | 45 |
| V41610 | 10 | 20 | 45 |
| V41611 | 11 | 21 | 45 |
| V41612 | 12 | 23 | 45 |
| V41613 | 13 | 23.5 | 45 |
| V41614 | 14 | 25 | 45 |
| V41615 | 15 | 26 | 45 |
| V41616 | 16 | 27 | 45 |
| V41617 | 17 | 28.5 | 45 |
| V41618 | 18 | 30 | 45 |
| V41619 | 19 | 31 | 47 |
| V41620 | 20 | 33 | 47 |
| V41621 | 21 | 33 | 47 |
| V41622 | 22 | 35 | 47 |
| | | | |

INJECTION INSULATED

2-COMPONENT HEXAGON SOCKET WITH DOUBLE-HEX, LONG VERSION 3/8"





| Item No. | | D | Н |
|----------|----|------|----|
| V41638 | 8 | 17 | 80 |
| V41640 | 10 | 20 | 80 |
| V41642 | 12 | 22 | 80 |
| V41644 | 14 | 25 | 80 |
| V41645 | 15 | 26 | 80 |
| V41647 | 17 | 28.5 | 80 |
| V41649 | 19 | 31 | 80 |
| V41652 | 22 | 35 | 80 |

INJECTION INSULATED

2-COMPONENT BIT SOCKET FOR HEXAGON SCREWS 3/8"







| Item No. | 0 | k mm → |
|----------|----|--------------------|
| V42004 | 4 | 75 |
| V42005 | 5 | 75 |
| V42006 | 6 | 75 |
| V42008 | 8 | 75 |
| V42010 | 10 | 75 |
| | | |

INJECTION INSULATED

2-COMPONENT BIT SOCKET FOR TORX SCREWS 3/8"







| Item No. | 0 | ⊬ mm |
|----------|-----|-----------------|
| V42041 | T10 | 75 |
| V42042 | T15 | 75 |
| V42043 | T20 | 75 |
| V42044 | T25 | 75 |
| V42045 | T27 | 75 |
| V42046 | T30 | 75 |
| V42047 | T40 | 75 |
| V42048 | T45 | 75 |
| V42049 | T50 | 75 |
| V42050 | T55 | 75 |

INJECTION INSULATED 2-COMPONENT





| Item No. | | K mm → |
|----------|------|-------------------|
| V42403 | 3/8" | 125 |
| V42404 | 3/8" | 250 |

INJECTION INSULATED

2-COMPONENT **HEXAGON SOCKET 1/4"**



| Item No. | | D | Н |
|----------|-----|------|----|
| V41004 | 4 | 12 | 42 |
| V41005 | 5 | 13 | 42 |
| V41055 | 5.5 | 13.5 | 42 |
| V41006 | 6 | 14 | 42 |
| V41007 | 7 | 16 | 42 |
| V41008 | 8 | 18 | 42 |
| V41009 | 9 | 18 | 42 |
| V41010 | 10 | 19 | 42 |
| V41011 | 11 | 21 | 42 |
| V41012 | 12 | 21.5 | 42 |
| V41013 | 13 | 23 | 42 |
| V41014 | 14 | 24.5 | 42 |
| | | | |

INJECTION INSULATED 2-COMPONENT HEXAGON SOCKET, LONG VERSION 1/4"



| Item No. | | D | Н |
|----------|----|----|----|
| V41024 | 4 | 12 | 67 |
| V41025 | 5 | 13 | 67 |
| V41026 | 6 | 14 | 67 |
| V41027 | 7 | 16 | 67 |
| V41028 | 8 | 18 | 67 |
| V41029 | 9 | 18 | 67 |
| V41030 | 10 | 19 | 67 |
| V41031 | 11 | 21 | 67 |
| V41032 | 12 | 22 | 67 |
| V41033 | 13 | 23 | 67 |
| | | | |

INJECTION INSULATED

2-COMPONENT **BIT SOCKET FOR HEXAGON SCREWS** 1/4"





| Item No. | 0 | K × |
|----------|---|-----------------|
| V42061 | 3 | 66 |
| V42062 | 4 | 66 |
| V42063 | 5 | 66 |
| V42064 | 6 | 66 |
| V42065 | 8 | 66 |

INJECTION INSULATED

2-COMPONENT **BIT SOCKET FOR TORX SCREWS** 1/4"







| Item No. | 0 | K mm → |
|----------|-----|-------------------|
| V42071 | T10 | 66 |
| V42072 | T15 | 66 |
| V42073 | T20 | 66 |
| V42074 | T25 | 66 |
| V42075 | T27 | 66 |
| V42076 | T30 | 66 |
| V42077 | T40 | 66 |
| | | |

INJECTION INSULATED

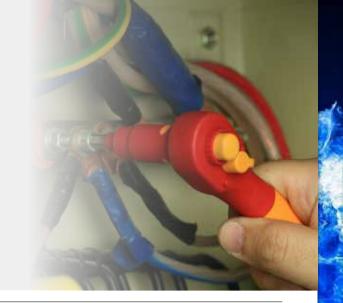
2-COMPONENT EXTENSION BAR 1/4"



| Item No. | | K mm → |
|----------|------|-------------------|
| V42405 | 1/4" | 75 |
| V42406 | 1/4" | 150 |
| | | |

☆1000V

SPECIAL SPECIFICATIONS



DIPPED INSULATED

BIT SOCKET FOR HEXAGON SCREWS, **LONG VERSION 1/2"**

DIPPED



MULTILAYER DIPPED







| Multilayer dipped Item No. | Dipped Item No. | 0 | ⊬ mm → |
|---------------------------------|--------------------|----|-------------------|
| V41721 | V41721S | 4 | 157 |
| V41722 | V41722S | 5 | 157 |
| V41723 | V41723S | 6 | 157 |
| V41724 | V41724S | 8 | 157 |
| V41725 | V41725S | 10 | 157 |

DIPPED INSULATED

BIT SOCKET FOR TORX SCREWS LONG VERSION 1/2"



MULTILAYER DIPPED





| Multilayer dipped Item No. | Dipped Item No. | 0 | ⊩ mm |
|-------------------------------|--------------------|-----|-----------------|
| V41741 | V41741S | T10 | 157 |
| V41742 | V41742S | T15 | 157 |
| V41743 | V41743S | T20 | 157 |
| V41744 | V41744S | T25 | 157 |
| V41745 | V41745S | T27 | 157 |
| V41746 | V41746S | T30 | 157 |
| V41747 | V41747S | T40 | 157 |
| V41748 | V41748S | T45 | 157 |
| V41749 | V41749S | T50 | 157 |
| V/.1750 | V/.1750S | T55 | 157 |

DIPPED INSULATED

BIT SOCKET WITH DOUBLE-HEX 1/2"

☆1000V







Multilayer dipped Item No.

V41751

V41752

V41753

V41761





| Dipped Item No. | 0 | K ™ × |
|--------------------|----|------------------|
| V41751S | M6 | 120 |
| V41752S | M8 | 120 |

M10

M12

DIPPED INSULATED

BIT SOCKET WITH DOUBLE-HEX. **LONG VERSION 1/2"**

V41753S

V41761S

☆1000V

MULTILAYER DIPPED







DIPPED



120

120

| Multilayer dipped Item No. | Dipped Item No. | 0 | ĸ |
|-------------------------------|--------------------|-----|-----|
| V41762 | V41762S | M6 | 157 |
| V41763 | V41763S | M8 | 157 |
| V41764 | V41764S | M10 | 157 |

DIPPED INSULATED

HEXAGON SOCKET WITH DOUBLE-HEX 3/8"

☆1000V

MULTILAYER DIPPED













| | Multilayer dipped Item No. | Dipped Item No. | | D | Н |
|---|-------------------------------|--------------------|----|------|----|
| | V41540 | V41540S | 6 | 14.5 | 45 |
| | V41541 | V41541S | 7 | 16 | 45 |
| | V41542 | V41542S | 8 | 17 | 45 |
| | V41543 | V41543S | 9 | 18 | 45 |
| | V41544 | V41544S | 10 | 20 | 45 |
| | V41545 | V41545S | 11 | 21 | 45 |
| | V41546 | V41546S | 12 | 23 | 45 |
| | V41547 | V41547S | 13 | 23.5 | 45 |
| | V41548 | V41548S | 14 | 25 | 45 |
| | V41549 | V41549S | 15 | 26 | 45 |
| | V41550 | V41550S | 16 | 27 | 45 |
| | V41551 | V41551S | 17 | 28.5 | 45 |
| | V41552 | V41552S | 18 | 30 | 45 |
| | V41553 | V41553S | 19 | 31 | 47 |
| | V41554 | V41554S | 20 | 33 | 47 |
| | V41555 | V41555S | 21 | 33 | 47 |
| | V41556 | V41556S | 22 | 35 | 47 |
| - | | | | | |

DIPPED INSULATED

E TYPE SOCKET 3/8"

DIPPED

☆1000V









| Multilayer dipped Item No. | Dipped Item No. | | D | Н |
|-------------------------------|--------------------|-----|----|----|
| V41560 | V41560S | E8 | 16 | 45 |
| V41561 | V41561S | E10 | 18 | 45 |
| V41562 | V41562S | E11 | 19 | 45 |
| V41563 | V41563S | E12 | 20 | 45 |
| V41564 | V41564S | E14 | 22 | 45 |
| V41565 | V41565S | E16 | 25 | 45 |
| V41566 | V41566S | E18 | 27 | 45 |
| V41567 | V41567S | E20 | 29 | 45 |
| | | | | |

DIPPED INSULATED

BIT SOCKET FOR TORX SCREWS, LONG VERSION 3/8"

☆1000V











| Multilayer dipped Item No. | Dipped Item No. | 0 | ⊬ mm → |
|-------------------------------|--------------------|-----|-------------------|
| V41921 | V41921S | T10 | 157 |
| V41922 | V41922S | T15 | 157 |
| V41923 | V41923S | T20 | 157 |
| V41924 | V41924S | T25 | 157 |
| V41925 | V41925S | T27 | 157 |
| V41926 | V41926S | T30 | 157 |
| V41927 | V41927S | T40 | 157 |
| V41928 | V41928S | T45 | 157 |
| V41929 | V41929S | T50 | 157 |
| V41930 | V41930S | T55 | 157 |

DIPPED INSULATED

BIT SOCKET FOR HEXAGON SCREWS. **LONG VERSION 3/8"**

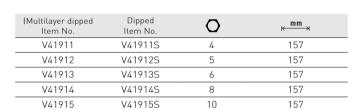
☆1000V







DIPPED



DIPPED INSULATED

BIT SOCKET WITH DOUBLE-HEX 3/8"

☆1000V









DIPPED INSULATED

BIT SOCKET WITH DOUBLE-HEX, **LONG VERSION 3/8"**

☆1000V

MULTILAYER DIPPED





DIPPED



| Multilayer dipped Item No. | Dipped Item No. | 0 | mm → |
|-------------------------------|--------------------|-----|-----------------|
| V41941 | V41941S | M6 | 157 |
| V41942 | V41942S | M8 | 157 |
| V41943 | V41943S | M10 | 157 |
| | | | |

DIPPED INSULATED BIT ADAPTER 1/4"









DIPPED







TOLSEN

☆1000V **△**

DIPPED INSULATED

ADAPTER

☆1000V





| Multilayer dipped Item No. | Dipped Item No. | 0 | ⊬ mm → |
|-------------------------------|--------------------|-----|-------------------|
| V41931 | V41931S | M6 | 75 |
| V41932 | V41932S | M8 | 75 |
| V41933 | V41933S | M10 | 75 |
| V41934 | V41934S | M12 | 75 |

| Item No. | 0 | |
|----------|------|------|
| V42321 | 1/2" | 3/8" |
| V42322 | 3/8" | 1/2" |
| V42323 | 3/8" | 1/4" |
| V42324 | 1/4" | 3/8" |
| | | |

INJECTION INSULATED

2-COMPONENT HEXAGON SOCKET WITH DOUBLE-HEX 1/2"



| Item No. | | D | Н |
|----------|----|------|----|
| V41438 | 8 | 18 | 59 |
| V41439 | 9 | 19 | 59 |
| V41440 | 10 | 21 | 59 |
| V41441 | 11 | 22 | 59 |
| V41442 | 12 | 23 | 59 |
| V41443 | 13 | 24 | 59 |
| V41444 | 14 | 26 | 59 |
| V41445 | 15 | 27 | 59 |
| V41446 | 16 | 27 | 59 |
| V41447 | 17 | 29 | 59 |
| V41448 | 18 | 30.5 | 59 |
| V41449 | 19 | 31 | 59 |
| V41450 | 20 | 33 | 59 |
| V41451 | 21 | 33 | 59 |
| V41452 | 22 | 35 | 59 |
| V41454 | 24 | 37 | 59 |
| V41457 | 27 | 41 | 59 |
| V41460 | 30 | 45 | 59 |
| V41462 | 32 | 47 | 59 |
| | | | |

INJECTION INSULATED

2-COMPONENT BIT SOCKET FOR HEXAGON SCREWS, LONG VERSION 1/2"





| Item No. | 0 | ⊬ mm |
|----------|----|-----------------|
| V41814 | 4 | 157 |
| V41815 | 5 | 157 |
| V41816 | 6 | 157 |
| V41818 | 8 | 157 |
| V41820 | 10 | 157 |

INJECTION INSULATED

2-COMPONENT BIT SOCKET FOR TORX SCREWS, LONG VERSION1/2"



C



| Item No. | 0 | k × |
|----------|-----|----------------|
| V41831 | T10 | 157 |
| V41832 | T15 | 157 |
| V41833 | T20 | 157 |
| V41834 | T25 | 157 |
| V41835 | T27 | 157 |
| V41836 | T30 | 157 |
| V41837 | T40 | 157 |
| V41838 | T45 | 157 |
| V41839 | T50 | 157 |
| V41840 | T55 | 157 |

INJECTION INSULATED

2-COMPONENT BIT SOCKET WITH DOUBLE-HEX 1/2"



C



| Item No. | 0 | K mm → |
|----------|-----|-------------------|
| V41851 | M6 | 120 |
| V41852 | M8 | 120 |
| V41853 | M10 | 120 |
| V41854 | M12 | 120 |

INJECTION INSULATED

2-COMPONENT **BIT SOCKET** WITH DOUBLE-HEX, LONG VERSION 1/2"





INJECTION INSULATED

2-COMPONENT E TYPE SOCKET 3/8"







| TOLSEN | | _1_ |
|--------|----------|-----|
| | 8 | |
| | | |

| Item No. | 0 | K mm → |
|----------|-----|-------------------|
| V41861 | M6 | 157 |
| V41862 | M8 | 157 |
| V41863 | M10 | 157 |

INJECTION INSULATED

2-COMPONENT HEXAGON SOCKET WITH **DOUBLE-HEX 3/8"**



| Item No. | | D | Н |
|----------|----|------|----|
| V41656 | 6 | 14.5 | 45 |
| V41657 | 7 | 16 | 45 |
| V41658 | 8 | 17 | 45 |
| V41659 | 9 | 18 | 45 |
| V41660 | 10 | 20 | 45 |
| V41661 | 11 | 21 | 45 |
| V41662 | 12 | 23 | 45 |
| V41663 | 13 | 23.5 | 45 |
| V41664 | 14 | 25 | 45 |
| V41665 | 15 | 26 | 45 |
| V41666 | 16 | 27 | 45 |
| V41667 | 17 | 28.5 | 45 |
| V41668 | 18 | 30 | 45 |
| V41669 | 19 | 31 | 45 |
| V41670 | 20 | 33 | 45 |
| V41671 | 21 | 33 | 45 |
| V41672 | 22 | 35 | 45 |

| Item No. | | D | Н |
|----------|-----|----|----|
| V41678 | E8 | 16 | 45 |
| V41680 | E10 | 18 | 45 |
| V41681 | E11 | 19 | 45 |
| V41682 | E12 | 20 | 45 |
| V41684 | E14 | 22 | 45 |
| V41686 | E16 | 25 | 45 |
| V41688 | E18 | 27 | 45 |
| V41690 | E20 | 29 | 45 |
| | | | |

INJECTION INSULATED

2-COMPONENT BIT SOCKET FOR HEXAGON **SCREWS, LONG VERSION 3/8"**





| Item No. | 0 | K——→ |
|----------|----|-----------------|
| V42014 | 4 | 157 |
| V42015 | 5 | 157 |
| V42016 | 6 | 157 |
| V42017 | 8 | 157 |
| V42018 | 10 | 157 |

INJECTION INSULATED

2-COMPONENT **BIT SOCKET FOR** TORX SCREWS, **LONG VERSION 3/8"**





| Item No. | 0 | K ──── > |
|----------|-----|---------------------|
| V42021 | T10 | 157 |
| V42022 | T15 | 157 |
| V42023 | T20 | 157 |
| V42024 | T25 | 157 |
| V42025 | T27 | 157 |
| V42026 | T30 | 157 |
| V42027 | T40 | 157 |
| V42028 | T45 | 157 |
| V42029 | T50 | 157 |
| V42030 | T55 | 157 |
| | | |

INJECTION INSULATED

2-COMPONENT BIT SOCKET WITH DOUBLE-**HEX 3/8"**







| | Item No. | 0 | K mm → |
|---|----------|-----|-------------------|
| Ī | V42031 | M6 | 75 |
| | V42032 | M8 | 75 |
| Ī | V42033 | M10 | 75 |
| | V42034 | M12 | 75 |
| | | | |

INJECTION INSULATED

2-COMPONENT **BIT SOCKET WITH** DOUBLE-HEX, LONG VERSION 3/8"





| Item No. | 0 | ⊬ mm → |
|----------|-----|-------------------|
| V42035 | M6 | 157 |
| V42036 | M8 | 157 |
| V42037 | M10 | 157 |

INJECTION INSULATED BIT ADAPTER 1/4"







| Item No. | 0 | ⊢ mm → |
|----------|------|-------------------|
| V42415 | 1/4" | 75 |

INJECTION INSULATED

2-COMPONENT ADAPTER







| Item No. | 0 | |
|----------|------|------|
| V42421 | 1/2" | 3/8" |
| V42422 | 3/8" | 1/2" |
| V42423 | 3/8" | 1/4" |
| V42424 | 1/4" | 3/8" |

INJECTION INSULATED

Z TYPE ADAPTER 3/8"

☆1000V



| Item No. | | | |
|----------|------|----|--|
| V42430 | 3/8" | 10 | |

☆1000V

ACCESSORIES



| Size |
|------|
| 1# |
| 2# |
| 3# |
| |

DIPPED INSULATED

SELF-CLAMPING SLIP-ON CAPS



| Item No. | Size | K MM → |
|----------|------|------------------------------|
| V70410 | 10 | 80 |
| V70420 | 20 | 100 |
| V70430 | 30 | 110 |
| V70440 | 40 | 120 |
| V70445 | 45 | 120 |
| V70450 | 50 | 130 |
| V70460 | 60 | 130 |



DIPPED INSULATED

SINGLE-EAR PROTECTIVE COVER

☆1000V



| Item No. | Size | Н |
|----------|------|-----|
| V70510 | 110 | 180 |

DIPPED INSULATED

DOUBLE-EARS PROTECTIVE COVER

☆1000V



| Item No. | Size | Н |
|----------|------|-----|
| V70520 | 110 | 180 |

DIPPED INSULATED

LIFE-SAVING HOOK

☆1000V



| Item No. | Size |
|----------|--------|
| V70550 | ф 25mm |

DIPPED INSULATED JUNIOR HACKSAW

☆1000V



| Item No. | D | L |
|----------|-----|-----|
| V50112 | 300 | 460 |

INJECTION INSULATED **MALLET**

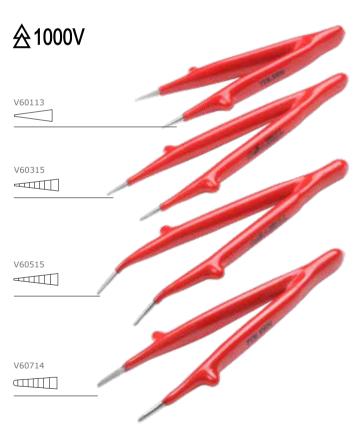
☆1000V



| Item No. | Φ mm | K mm → | Weight/kg |
|----------|------|-------------------|-----------|
| V71030 | 30 | 315 | 0.6 |

DIPPED INSULATED

PRECISION TWEEZERS



| k mm → |
|-------------------|
| 130 |
| 158 |
| 155 |
| 145 |
| |

INJECTION INSULATED



| Item No. | k mm → |
|----------|-------------------|
| V60213 | 135 |
| V60415 | 158 |
| V60615 | 155 |
| V60814 | 145 |
| | |



50

48

180

155

185



| Item No. | K MM → |
|----------|------------------------------|
| V90047 | 160 |
| | |

INJECTION INSULATED

PLASTIC CLAMP



| ⊬ mm → |
|-------------------|
| 200 |
| |

INJECTION INSULATED

PLASTIC CLAMP



| ⊬ mm → |
|-------------------|
| 75 |
| 150 |
| |

V51218

V51416

V50819

TOLSENVDELINE



| Item No. | D | L |
|----------|-----|-----|
| V50230 | 150 | 300 |



| Item No. | D | L |
|----------|-----|-----|
| V50231 | 300 | 483 |

VINYL ELECTRICAL TAPE

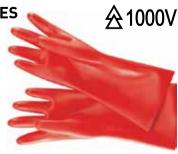
Pressure Sensitive Vinyl Tape Cold And Sunlight Resistant Flame Retardant Primary Insulation 600V UL 510, CSA, VDE Approved



| Item No. | Size | |
|----------|---------------------|--|
| V90052 | 19mm x 0.18mm x 10m | |

ELECTRICIANS' GLOVES For Protection When Working Live or Close to Live Parts

Tested According to EN60903 Standard



| | Item No. | Size |
|---|----------|------|
| | V90048 | 12KV |
| - | V90049 | 20KV |

NON-CONTACT AC VOLTAGE DETECTOR











| Item No. | K mm → |
|----------|-------------------|
| 38110 | 156 |

VOLTAGE TESTER



| Item No. | <mark>⊬ mm</mark> |
|----------|-------------------|
| V70670 | 70 |
| V70710 | 105 |
| V70860 | 60 |
| V70960 | 60 |

TOLSEN TELECOM TOOLS



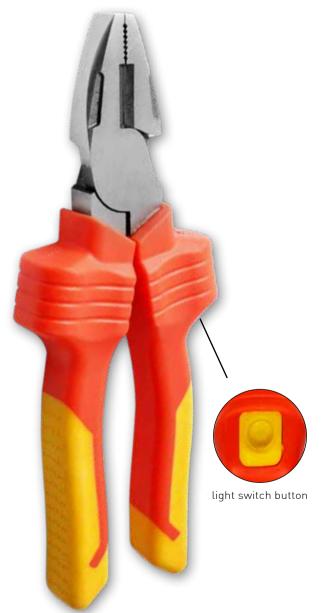
COMBINATION PLIERS

In the event of electricity, the flash will alarm the alarm, bringing safety and

security to the work High leverage design. Rivet is closer to the cutting edge for greater cutting and gripping power than other normal plier design.

There is a light switch button on the grip of the pliers it's very convenient to

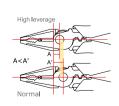
switch back and fornt











| Item No. | Size | |
|----------|------|--|
| TL4010 | 8" | |



DIAGONAL PLIERS

In the event of electricity, the flash will alarm the alarm, bringing safety and

security to the work High leverage design. Rivet is closer to the cutting edge for greater cutting and gripping power than other normal plier design.

There is a light switch button on the grip of the pliers it's very convenient to

switch back and fornt







| Item No. | Size | |
|----------|------|--|
| TL4020 | 6" | |

PROFESSIONAL HIGH LEVERAGE COMBINATION PLIER

High leverage design. Rivet is closer to the cutting edge for greater cutting and gripping power than other normal plier design. Special hardened cuter and precision machined body make the work easy and comfortable.



| Item No. | Size |
|----------|------|
| TL0180 | 8" |

SNIPE NOSE SIDE CUTTING PLIERS

In the event of electricity, the flash will alarm the alarm, bringing safety and

High leverage design. Rivet is closer to the cutting edge for greater cutting and gripping power than other normal plier design.

There is a light switch button on the grip of the pliers it's very convenient to

switch back and fornt







| Item No. | Size |
|----------|------|
| TL4030 | 8" |

PROFESSIONAL HIGH LEVERAGE **COMBINATION PLIER**

High leverage design. Rivet is closer to the cutting edge for greater cutting and gripping power than other normal plier design. Special hardened cuter and precision machined body make the work easy and comfortable.

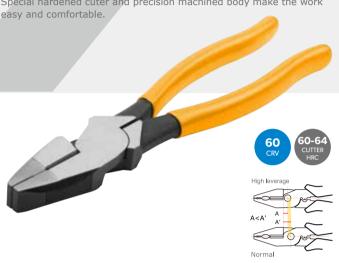




HIGH LEVERAGE SIDE CUTTING PLIER

High leverage design. Rivet is closer to the cutting edge for greater cutting and gripping power than other normal plier design. Designed for heavy duty use of cutting bolts, nails and high-strength

Special hardened cuter and precision machined body make the work



| Item No. | Size |
|----------|--------|
| TL0101-8 | 8" |
| TL0101-9 | 9-1/2" |

HIGH LEVERAGE SIDE CUTTING PLIER W/ **TAPE PULLER**

High leverage design. Rivet is closer to the cutting edge for greater cutting and gripping power than other normal plier design. Designed for heavy duty use of cutting bolts, nails and high-strength

Crimping die behind hinge for superior leverage crimping of noninsulated connectors and terminals

Easily pull 1/8" or 1/4" flat steel fish tape without damaging the tape Special hardened cuter and precision machined body make the work



| Item No. | Size | |
|------------|--------|--|
| TL0101-9CP | 9-1/2" | |

DIAGONAL CUTTING PLIER

Designed for heavy duty wire cutting.

Special hardened cuter and precision machined body make the work easy and comfortable.







| Item No. | Size |
|----------|------|
| TL0102-7 | 7" |
| TL0102-8 | 8" |

DIAGONAL CUTTING PLIER, ANGLED HEAD

Angled head design for easy work in confined spaces Designed for heavy duty wire cutting.

Special hardened cuter and precision machined body make the work easy and comfortable.









| Item No. | Size |
|-----------|------|
| TL0102-8A | 8" |



DIAGONAL CUTTING PLIER, SKINNING & STRIPPING

Angled head design for easy work in confined spaces Designed for heavy duty wire cutting.

Special hardened cuter and precision machined body make the work easy and comfortable.



| Item No. | Size | |
|-----------|--------|--|
| TL0103-6B | 6-1/2" | |

CONNECTOR CRIMPING PLIERS

Crimp and seat UR, UY & UG insulation displacement connectors Pricision machined crimping area



| Item No. | Size |
|----------|------|
| TL0112 | 6" |

LONG NOSE CRIMPING PLIERS

knurled jaws for wire wrapping,
looping and twisting
With a .030" stripping hole
Crimp and seat UR, UY & UG
insulation displacement connectors
Pricision machined crimping area
Serrated behind the hinge to crush
insulation

| ī | ONG | NOCE D | LIEDWI | TH CIDE | CUITTED |
|---|------|--------|---------|---------|---------|
| L | JUNG | NUSE P | LIEK WI | IH SIDE | CUTTER |

Item No.

TL0116



Size

6-1/2"

| Item No. | Size | |
|----------|--------|--|
| TL0118 | 6-1/2" | |

COPPER COAX CABLE CUTTER

Designed to cut soft copper coax and network cable cut solid and stranded and flexible cable to 6 AWG precisely ground jaws for clean cut without fraying or crushing ends



| Item No. | Size | |
|----------|------|--|
| TL0161 | 6" | |



CABLE CUTTER

Designed with a shear-type jaw for cutting aluminum and copper Cut up to 100-pair cables Not for steel or ACSR type cable



| Item No. | Size |
|----------|--------|
| TL0160 | 9-1/2" |

COAX CABLE CUTTER

Designed to cut 3/4"" coaxial cable, Cable-gripping jaws easily cut through copper inner conductor Not for steel or ACSR type cable



| Item No. | Size |
|----------|--------|
| TL0163 | 8-1/2" |

COAX CABLE CUTTER



| Item No. | Size |
|----------|--------|
| TL0165 | 8-1/2" |

PUMP PLIERS

Secure tonque and groove for a non-slip grip, even under heavy pressure Wide range versatile jaw positions



| Size | |
|------|-----------------|
| 6" | |
| 8" | |
| 10" | |
| 12" | |
| | 6" 8" 10" |

ELECTRICIAN SCISSOR





ELECTRICIAN SCISSOR

One blade serrated, to prevent slip, especially convenient for cutting fiberglass cloth

Both back of the blade can be used as a file or scraper With notches, for stripping 19 AWG & 23 AWG wire Good tenacity, durability, and sharpness of blade

Ergonomic design for easily cutting



| Item No. | Size |
|----------|------|
| TL0172 | 6" |



RATCHET CRIMPING PLIERS

For fast, reliable connector installations Quick change interchangeable die-sets Ratchet mechanism is designed to prevent the release of the connector prior to full compression



| Item No. | Size |
|----------|------|
| TL0201 | 8" |

RJ-11 & RJ-45 CRIMP TOOL

Crimp tool with built-in cutter & stripper for use on RJ-11 & RJ-45 connectors, including feedthrough type connectors Precisely ground crimping dies can be used for 2,4,6 & 8



| Item No. | Size | |
|----------|------|--|
| TL0240 | | |



| Item No. | Size |
|----------|------|
| TL0205 | 8" |

COMPRESSION TOOL

For crimping RG59, RG6 and RG11 connectors Also for long style F connectors



| Item No. | Size | |
|----------|------|--|
| TL0210 | 7" | |

COMPRESSION TOOL

Reliable F-connector installation tool

Fixed plunger allow quick, easy insertion and removal of cable and connector $% \left(1\right) =\left(1\right) \left(1\right)$

Fixed plunger accepts many common F-connector compression fittings



| Item No. | Size | |
|----------|--------|--|
| TL0216 | 5-1/2" | |

COAXIAL CABLE STRIPPER

Stripping the coaxial jacket and inner conductor in one operation by rotating the stripper in clockwise direction 2-6 times, easy and effective



| Item No. | Size |
|----------|------|
| TL0230 | 4" |



ARMORED CABLE SLTTING TOOL

Designed to gain mid span access by slitting open jacketed and armored fiber optic cable

can change blade direction for longitudinal or radial cuts blade is avialable to replace



BIX PUNCHDOWN TOOL

Designed to terminate cables, pigtails and jumper wires on GigaBIX, BIX and UMOXS cross-connect system connectors

Can terminate 22-26 AWG platic insulated solid copper conductors Can adjust the tool for seating only or for seating and cutting the conductors



| Item No. | Size | |
|----------|---------|--|
| TL0231A | 4-10 mm | |
| TL0231B | 8-28 mm | |

| Item No. | Size |
|----------|------|
| TL0301 | |
| | |

COAXIAL CABLE STRIPPER

 $\label{eq:condition} \mbox{Adjustable stripping blade for different thickness insulation, prevent damage of shield and conductor \\$

The cassette can be reversed to fit different coaxiable cable Easy operation



| Item No. | Size |
|----------|------|
| TL0232 | 5" |

3M IMPACT INSERTION TOOL

For terminating wires on 3M MS2 cross-connect pannels



| Item No. | Size |
|----------|------|
| TL0330 | 6" |

TOLSENTELECOM

PUNCHDOWN TOOL



| Item No. | Size | |
|----------|------|--|
| TL0303 | 6" | |

PUNCHDOWN TOOL BLADE

Made by special metal powder injection technology, give extra long lifetime and precise sizes



| Item No. | Size | |
|--------------|--------------------------------|--|
| TL0305-66 | 66 blade with & without blade | |
| TL0305-110 | 110 blade with & without blade | |
| TL0305-116 | combination 66 & 110 blade | |
| TL0305-KRONE | krone blade with scissor | |
| | | |

FISH TAPE

High strength fish tape are stiff for long runs and are great for heavy duty wire puller





| Item No. | Size | |
|----------|-------------------------------|--|
| TL0405 | 50 feet, steel tape | |
| TL0412 | 120 feet, steel tape | |
| TL0424 | 240 feet, steel tape | |
| TL0405S | 50 feet, stainless steel tape | |
| TL0405F | 50 feet, fiberglass tape | |

TELESCOPIC POLE

Use to install or retrieve a cable in drop ceilings or other high place Made of insulated fiberglass tapered tube,

Including 3 hook accessories

| Item No. | Size | 4 |
|----------|------------|---|
| TL0420 | 18feet | ١ |
| | TELESCOPIC | |
| | | |



FISH RODS

3/16"x5' fish rod, 6 sections in one set Glow in the dark for more convenient job Use to install wires through ceilings, walls,floors.

Flexible fiberglass material, yet rigid for pulling wire long diatance.

Various length can be created by connecting individual sections.

Including 4 hook accessories.

| Item No. | Size |
|----------|--------|
| TL0430 | 30feet |



SCREWDRIVER



| Item No. | Size |
|----------|-------------------|
| TL0501 | SL: 1/4" x 1-1/2" |
| TL0502 | SL: 3/16" x 3" |
| TL0503 | SL: 3/16" x 4" |
| TL0504 | SL: 3/16" x 6" |
| TL0505 | SL: 1/4" x 4" |
| TL0506 | SL: 1/4" x 6" |
| TL0507 | SL: 5/16" x 6" |
| TL0508 | SL: 3/8" x 10" |
| TL0511 | PH 2 x 1-1/2" |
| TL0512 | PH 1 x 3" |
| TL0513 | PH 2 x 4" |
| TL0514 | PH 2 x 6" |
| TL0515 | PH 2 x 8" |
| TL0516 | PH 3 x 6" |
| TL0522 | S 2 x4" |
| TL0523 | S 3 x 4" |

MULTI-BIT SCREWDRIVER



Size



| Item No. | Size |
|----------|-------------|
| TL0561 | 3/16" x 3" |
| TL0562 | 1/4" x 3" |
| TL0563 | 5/16" x 3" |
| TL0564 | 11/32" x 3" |
| TL0565 | 3/8" x 3" |
| TL0566 | 7/16" x 3" |
| TL0567 | 1/2" x 3" |
| | |

PRECISION SCREWDRIVER



| Item No. | Size |
|----------|------------------|
| TL0531 | SL 0.18 x 1.0 mm |
| TL0532 | SL 0.25 x 1.4 mm |
| TL0533 | SL 0.25 x 1.6 mm |
| TL0534 | SL 0.40 x 2.0 mm |
| TL0535 | SL 0.40 x 2.5 mm |
| TL0536 | SL 0.50 x 3.0 mm |
| TL0537 | PH #000 |
| TL0538 | PH #00 |
| TL0539 | PH #0 |
| TL0540 | PH #1 |

Item No.



FOLDING HEX KEY SET



| Item No. | Size |
|-----------|--|
| TL0580-8S | 8 piece folding hex key set, SAE 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4" |
| TL0580-8M | 8 piece folding hex key set , METRIC 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 5.5, 6.0 mm |
| TL0580-5S | 5 piece folding hex key set, SAE 3/16", 7/32", 1/4", 5/16", 3/8" |
| TL0580-5M | 5 piece folding hex key set, METRIC 5.0, 5.5, 6.0, 8.0, 10.0 mm |

30 PCS HEX KEY SET

CRV steel, black finish

Short Arm: MM-0.7-0.9-1.3-1.5-2-2.5-3-4-4.5-5

-5.5-6-7-8-10mm

Long Arm: SAE-0.028"-0.035"-0.05"-1/16"-5/64" -3/32"-7/64"-1/8"-9/64"-5/32"-3/16"-7/32"-1/4"

-5/16"-3/8"



| Item No. | Size | |
|----------|------------|--|
| TL0585 | 30 pcs set | |

WIRE STRIPPER, HEAVY DUTY

thickened zinc ally body precision machined stripping hole on high grade SK5 steel blade,

for stripping 1.0/ 1.6/ 2.0/ 2.6/ 3.2 mm wire



| Item No. | Size | |
|----------|------|--|
| TL0610 | 6" | |

AUTOMATIC WIRE STRIPPER

jaws are made of special alloy Cr12MoV, for better working and longer lifetime

stripping wire range: $10\text{-}24~\text{AWG} / 0.2\text{-}6.0~\text{mm}^2$

with a wire cutter

crimper:

insulated terminal: 10-22 AWG / 0.5 - 6.0 mm² non insulated terminal: 10-12 AWG / 4.0 - 6.0 mm²

14-16 AWG / 1.5 - 2.5 mm² 18-22 AWG / 0.5 - 1.0 mm²



| Item No. | Size | |
|----------|------|--|
| TL0620 | 8" | |



FIBER INSPECTION MICROSCOPE

Designed to provide clear view of connector face and fiber

The achromatic lens offers excellent imaging and integrated laser filters for safety (not intended for use with illuminated fibers)

Coaxial illumination, from LED light.

With 2.5mm and 1.25mm adapters for use on

most fiber connectors



| Item No. | TL3020 | TL3040 |
|---------------|--------|--------|
| Magnification | 200 | 400 |

FIBER SCRIBE use to split the optic fiber tungsten steel blade, give greater sharpness and durability

| Item No. | Size | |
|----------|----------|--|
| TL1010 | 3/8"x18" | |

MINI VISUAL FAULT LOCATOR (VFL)

Constant & stable output power Special laser driver circuit design, to make sure the laser output power remains a constant power level as long as in an available battery voltage. Low battery warning, reminds

users to change the battery timely. Long battery life(up to 40 hours with MA batteries)

Operates either in CW or Pulsed Pocket size and light weight, easy to use



| Item No. | TL2001 | | |
|------------------------|--|--|--|
| Wavelength(nm) | 650nm±10nm | | |
| Emitter type | FP-LD | | |
| Output power | 1mw or 10mw | | |
| Optical connector | FC/2.5mm universal connector For 1.25mm connectors, FC (Male)-LC (Female) convertor can be optional on customer requests | | |
| Operating Model | Both CW and Pulse(2Hz) available | | |
| Power Supply | Two AAA alkaline batteries | | |
| Battery Operating Time | 40hours Test with Panasonic LR6 AAA ALKALINE battery | | |
| Operating | -10— +45 (°C) | | |
| Storage Temperature | -25"+70 (°C) | | |
| | | | |

OPTICAL POWER METER

User self calibration function Comfortable LCD display and optional backlight LCD display supports night operation

Power measurements in dBm or mw and insertion loss in dB

Low battery consumption, more than 240 hours continual operation time for three 1.5V alkaline batteries

10 minutes Auto-off function can be activated or deactivated.



| Item No. | TL2010A TL2010C | | |
|--|--|-------------------------------|--|
| Wavelength(nm) | 800~1700nm | | |
| Detector type | InGaAs | | |
| Measurement Range (dBm) | -70~+6 -50~+26 | | |
| Uncertainty (dB) | ±0.25 | | |
| Calibrated Wavelength(nm) | 850,980,1300,1310,1490,1550 | | |
| Resolution(dB) | 0.01 | | |
| Optical Connector | FC(interchangeable SC,ST) / as well as 2.5mn | | |
| | universal | | |
| | Alkaline Battery(3 AA 1.5V batteries) | | |
| Power Supply | Alkaline Battery(3 | AA 1.5V batteries) | |
| Power Supply Battery Operating Time | Alkaline Batteryl3 240 h with 1. | | |
| | | 5V Battery(3) | |
| Battery Operating Time | 240 h with 1. | 5V Battery(3) -+60 | |
| Battery Operating Time Operating Temperature(oC) | 240 h with 1. -10- | 5V Battery(3) -+60 -+70 | |
| Battery Operating Time Operating Temperature(oC) Storage Temperature(oC) | 240 h with 1. -10- -25- 0 to 95% (non | 5V Battery(3) -+60 -+70 | |



PON OPTICAL POWER METER

Analyzes voice, data, and video signals in BPON/EPON/GPON FTTx systems

Concurrently measures 1310 nm, 1490 nm, and 1550 nm wavelengths anywhere in the network

Three Pass, Warning, and Fail LED indicators allow you to quickly assess your network's power level USB port allows quick transfer of data, and up to 1,000 measurement items can be saved at once Optional 10-minute auto-off can be activated or deactivated Shatter-resistant sleeve protects it from accidental falls or other damage



Item No. TL2015 1310 Upstream Measurement 1260 nm ~ 1360 nm Pass Zone (nm) Measurement Range (dBM) -35 dBm ~+ 10 dBm Output Power (max) 15 dBm Isolation @ 1490/1550 (dB) >40 dB < ± 0.5 dB Burst Mode Measurement Error 1490 & 1550 Downstream Measurement Pass Zone (nm) 1470 nm ~ 1505 nm -35 dBm ~+ 10 dBm Measurement Range (dBm) Output Power (max) 15 dBm Isolation @ 1310/1550 (dB) >40 dB Pass Zone (nm) 1535 nm ~ 1570 nm -35 dBm ~+ 20 dBm Measurement Range (dBm) Output Power (max) 15 dBm Isolation @ (1310/1490 nm) >40 dB **Measurement Accuracy** Connatural Uncertainty (dB) ± 0.5 dB Linearity (dB) ± 0.1 dB Passing through Insertion Loss (dB) <1.5 dB **General Information** Detector Type nGaAs Optical Connector FC/SC/ST Interchangeable/ 2.5 Universal Adapter Fiber Type SM 9/125 um Measurement Unit dB/dBm/xW Resolution (dB) 0.01 dB DC 3.3 V ~ 5.5 V Operation Voltage (V) Power Supply 3 pc 1.5 V Battery Continuous Operation Time (h) 90 h Operation Temperature (°C) -10°C ~ 70°C -25°C ~ 70°C Storage Temperature (°C)

OPTICAL LIGHT SOURCE

Providing $1{\sim}4$ wavelengths output and wavelengths can be optional according to customers' needs

CW, 2Hz modulation output at 650nm, and CW, 270Hz,1KHz,2KHz modulation output at other wavelengths.

High stability of the output power Stable output wavelength

Compact size and decent appearance Large LCD, easy operation



| Item No. | | TL2020 |
|---------------------------------|----------------------------|---|
| Wavelengths(nm) | 650 | 01310/1550850/1300850/1300/1550850/1300/1 310/1550 |
| Emitter Type | | FP-LD,LED or others please specify |
| Typical Output Power (dBm) | 0 | |
| Spectral Width(nm) | | ≤10 |
| Output Stability | | ±0.05dB/15mins; ±0.1dB/8hours |
| Modulation Frequencies | CW,2Hz | |
| Optical Connector | FC universal adaptor | |
| Power Supply | | Alkaline Battery(3 AA 1.5V batteries) |
| Battery Operating Time(hour) | | 45 |
| Operating Temperature(°C) | | -10~+60 |
| Storage Temperature(°C) | | -25~+70 |
| Dimension(mm) | | 152X74X26 |
| Weight | | 180g |



OTDR

Novel and beautiful appearance and structure design;

Special protection design of shell, durable and axle to work uncer bad environment;

Simplest operating interface, shortcut key operation, easy to use; Dual operation of touch screen and keys;

Short evert blind zone, test 5 m fiber jumper easily: I-ave a multiple kinds of test modes such as automatic test, manual test and blind zone test, etc... Light detection and alarm are provided in the line, to avoic signal light from damage the

instrument in the tested optical fiber; Built-in high-power visual red light fault positioning function;

The USB interface functions can quickly realize the file transfer and report form preparation;

The universal light output connector is easy to replace, which is able to realize e a variety of interface tests; Smart battery electric quantity indication and low -voltage alarm function;

10-hour long time of duration, particularly suitable for the field construction application for a long

The multi-vvavelergth and dynamic range selection can satisfy customer's high higher cost performance demands to the greatest extent; The highly intelligent analysis software can accurately identify the fault splices, connectors and even macro-bending;



| Item No. | TL2030 | | |
|----------------------------|--|----------------------|--|
| Type of optical fiber | Single –mode | | |
| Center wavelength | 1310nm/1550nm (±20nm | | |
| Maximum dynamic range (dB) | 36/35 30/28 | | |
| Event blind zone | 1.5m | | |
| Attenuation blind zone | 10 | m | |
| Display type | 3.5inch, color LCD, to | uch screen operation | |
| Optical interface | FC/U PC (Interch | angeable SC, ST) | |
| Test range | 500m,1km,2km,4km,8km,16km,32km,64km,128km | | |
| Pulse width | 10,30,50,100,275,500,1000,5000,10000ns | | |
| Range accuracy | ± (1m + sampling interval +0.005% x distance) | | |
| Attenuation measurement | ±0.05 dB/dB | | |
| Reflection measurement | ±4dB | | |
| Data storage | 1000 test curves | | |
| Communication interface | USB | | |
| Power supply mode | AC/ DC adapter: AC: 100V — 240V (1.5A), 50/60Hz DC: 18V to 20V (2A) Internal lithium-ion battery pack: 7.4V, 4400mAh | | |
| Battery operation time | k. Whours | | |
| Operating temperature | -5 r — 50 r | | |
| Storage temperature | -20 r — 70 r | | |
| Relative humidity | 0 — 95 "-, no condensation | | |
| Weight | ." 1kg | | |
| Volume | 220mm x 100mm x 65mm | | |

OPTICAL FUSION SPLICER

Precise fiber core alignment, ultra-low fiber fusion splicing consumption 7s fast fusion splicing, 18s highly efficient heating.
320 times image magnification, 5mm fusion splicing for fibers of ultra-

short cutting length 300 groups of fusion splicing modes, 100 groups of heating modes

10000 groups of fusion records, 64 images storage
Ceramic presser foot, ceramic V-block, all-in-one fixture
Dual-direction splicing, automatic splicing, intelligent pyrocondensation
USB and SD card interfaces, U-disk automatic software upgrade Built-in modular lithium battery, supports 220 times of splicing and heating cycles.



| Item No. | TL2040 |
|--|--|
| Alignment method | Precise core alignment and cladding alignment |
| Applicable fibers | Any common optical fibers, rubber-insulated fibers and jumpers that meet requirements of ITU-TG.651-653, ITU-TG.655 and ITU-TG.657. |
| Optical fiber diameter | Cladding; 80-150p m, coating layer: 0.1 —3mm |
| Cutting length | 5-16mm (coated optical fiber diameterC.250pm) ;10mm (coated optical fiber diameter: 0.25-3mm) |
| Fusion splicing consum ption (typical value) | 0.02dB (SMF) ; 0.01 dB (MMF) ; 0.04dB (DSF) ; 0.04dB |
| Return loss | (NZDSF) Better than 60dB |
| Fusion splicing time (typical value) | 7s |
| Heating time (typical value) | 18s |
| Pulling force test | 1.96-2.25N |
| Thermal shrinkage tube | 60mm, 40mm and a series of thermal shrinkage tubes |
| Graphical display | High-performance 4.3 inch LCD |
| Magnification time | 320 times/88 times |
| Fusion splicing record | 10000 groups |
| Battery capacity Battery service life | 11.1V, 6400mAh, typical value of fusion splicing and thermal cycle is 220 times Cycle charging times reach 300-500, can be replaced by customers |
| Electrode service life | Typical value is 4000 times, can be replaced by customers |
| Construction lighting | Built-in lights with high-brightness and wide lighting area |
| Working environment | Temp:-10-50°C ; hum: 0-95%RH, height above sea level:0-6000m |
| Operation interfaces | GUI graphical operation interfaces |
| External power | AC: AC100-240V, 60Hz, 0-1.5A; DC: DC10-15V |
| External port | USB / SD |
| Dimensions Weight | 120mm (W) x 130mm (H) x 154mm (D) (without rubber anti-vibration pad) 1.59kg (host engine) , 0.37kg (battery) |



OPTICAL FIBER IDENTIFIER

Easy-to-use with "ONE KEY" operation.
Efficiently identifies the traffic direction and frequency tone (270Hz, 1KHz, 2KHz) with audible warning.
Displays the relative core power
More accurate test with Sunshade
Easy-to-replace adaptors
Durable metal housing and quality construction
Lower power indication



| Item No. | TL2050 | |
|---|--|--------------------|
| Identified Wavelength Range | 800-1700 nm | ı |
| Identified Signal Type | CW, 270Hz±5%, 1kHz±5%, 2kHz±5% | |
| Detector Type | Ø1mm InGaAs 2pcs | |
| Adapter Type | Ø0.25 (Applicable for Bare Fiber), Ø0.9 (Applicable for Ø0.9 Cable) | |
| Adapter Type | Ø2.0 (Applicable for Ø2.0 Cable), Ø3.0 (Applicable for Ø3.0 Cable) | |
| Signal Direction | Left & Right | LED |
| Singe Direction Test Range (dBm, | -46~10(1310r | nm) |
| CW/0.9mm bare fiber) | -50~10(1550nm) | |
| Signal Power Test Range (dBm, CW/0.9mm bare fiber) | -50~+10 | |
| Signal Frequency Display (Hz) | 270, 1k, 2k | |
| | Ø0.9, Ø2.0, | -30~0 (270Hz,1KHz) |
| Frequency Test Range (dBm, Average | Ø 3.0 | -25~0 (2KHz) |
| Value) | Ø0.25 | -25~0 (1KHz,2KHz) |
| | | -20~0 (2KHz) |
| Insertion Loss (dB, Typical Value) | 0.8 (1310nm) | |
| Ilisertion Loss (ub, Typicat Vatue) | 2.5 (1550nm) | |
| Alkaline Battery (V) | 9 | |
| Operating Temperature(oC) | -10 - +60 | |
| Storage Temperature(oC) | -25 - +70 | |
| Dimension (mm) | 196X30.5X27 | |
| Weight (g) | 200 | |
| | | |



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