

# **2015 New Products**

To our Valued Customers.

We are proud to bring you our 2015 New Products Supplement catalog. We recommend you and your customers try our new MT-7071 LCD Cable Length Toner & Probe Kit. It features cable length measurement up to 1200M (4000ft), locates and verifies the cable status and troubleshoots wiring. The new Environmental Meter Series and Laser Distance Measurers are worth a try too, they're designed with even better functions, comply with CE and RoHS, and the upgraded features will help you penetrate your market.

We also introduce Fiber Optic tools with multi power meter, visual fault locator, cleaners and tool kit to meet FTTH installation and maintenance requirements. For the 1000V Insulated series, we offer a complete range of tool kits to make the job more efficient and safe. Finally, don't miss our new 20V cordless drill which comes with a heavy duty high torque gear box, Lithium-Ion battery and LED battery level indicators. Making it more durable and powerful!



## Tool case / Miscellaneous / Tool Kits

page.27-32



#### MT-5211 3 1/2 Digital LCR Multimeter

















ProsKit







## **Fully featured with LCR & DMM Multimeter**

- 3 1/2 digits 1999 counts.
- Dual slope A/D conversion.
- Large backlight LCD display.
  Extra functions: Continuity with beeper, Diode test, Data hold, Auto power off, Low battery indication, Overload indication, Backlight, Transistor Tester.
- · Ideal for a wide variety of electrical and electronic testing applications.

| Specification              |  |
|----------------------------|--|
| DC Voltage (V)             | 200mV/2V/20V/200V±(0.5%+3d),1000V±(1.0%+5d)          |
| AC Voltage (V)             | 200mV±(1.2%+3d),2V/20V/200V±(0.8%+5d),750V±(1.2%+5d) |
| DC Current (A)             | 2mA/20mA±(0.8%+3d),200mA±(1.2%+4d),20A±(2.0%+5d)     |
| AC Current (A)             | 2mA/20mA±(1.0%+5d),200mA±(2.0%+5d),20A±(3.0%+10d)    |
| Resistance (Ω)             | 200±(0.8%+5d),2K/20K/200K/2MΩ±(0.8%+3d),             |
| Capacitance (uF)           | 20MΩ±(1.0%+15d),2000MΩ±(5.0%(reading-10)+20d)        |
| Inductance (L)             | 20nF/200nF/2uF±(2.5%+20d),20uF/200uF±(5.0%+5d)       |
| Temperature (T)            | 2mH/20mH/200mH/2H/20H±(2.5%+20d)                     |
| (-20~1000°C)               | <400°C±(1.0%+4d) ,≥400°C±(1.5%+15d)                  |
| Frequency (Hz)             | 2k/20k/200k/2000K/10M Hz±(1.0%+10d)                  |
| Power source               | 9V 6F22 battery (not included)                       |
| Weight                     | 390g (not including battery)                         |
| Dimension(D×W×H) (mm/inch) | 189×97.5×35mm / 7.4x3.8x1.3"                         |
| Accessories                | Test lead, thermocouple , test socket                |
| Individual packing         | Color box  |



Transistor hFE test



Transistor hFE test



Accessories



#### **Pocket Autorange Multimeter** MT-1508



















## Non-Contact ACV Detector, LCD Backlight, Data Hold, **Auto Power Off, Auto Range**

- Comes with a backlight, 3 1/2 digits 1999 counts easy for reading.
- · Auto range functions provide accuracy, easy to use.
- · Extra function: Auto power off, low battery indication, Data hold, Over range indication.
- · Pocket size design for easy carrying.
- · Non contact ACV detector and built-in LED flash light.

| Specification              |  |
|----------------------------|--|
| DC Voltage (V)             | 200mV/2V/20V/200V±(0.5%+3d) 600V±(0.8%+5d)                                 |
| AC Voltage (V)             | 2V/20V/200V±(0.8%+3d)600V±(1.0%+5d)  |
| DC Current (A)             | 200μA/2000μA /20mA/200mA±(1.8%+5d)   |
| AC Current (A)             | 200μA/2000μA /20mA/200mA±(2.0%+5d)   |
| Resistance (Ω)             | $200\Omega/2k\Omega/20k\Omega/200k\Omega/2MΩ±(1.0%+3d)$<br>20MΩ±(1.2%+15d) |
| Functions                  | Non contact ACV detector, Diode test, Continuity with beep                 |
| Power source               | 2x1.5V AAA battery (not included)  |
| Weight                     | 152g (not including battery)   |
| Dimension(D×W×H) (mm/inch) | 125x60x26mm / 4.9x2.4x1.0"   |
| Individual packing         | Blister card   |



## MT-7071

## **LCD Cable Length Toner & Probe Kit**















Including transmitter, receiver and standard remote unit, R.145 cable patch cord, RJ11/12 cable patch cord, alligator clips patch cord, earbud, carrying bag.



Detects AC Voltage from 90 to 1000V





LED light for user convenience



Max support to 8 remote units (optional)



Locate break point and length measurement



Verify LAN/ Telephone/ Coaxial cable condition

Individual packing

The MT-7071 lets you measure cable length up to 1200M (4000ft), locates and verifies the cable status and troubleshoots wiring. Ideal for all installation and maintenance fields of telecommunication, networking, datacom, audio/ video, cable TV, and all weather cabling, etc.

## **Cable Length Measurement up to 1200M**

Measures cable length from tester to an open in the cable (break or end) up to 1200M without remote being attached

## **Calibration Parameters**

It can determine actual calibration parameters with known length of cable for cable length test, allows setting 1-7 calibration parameters.

#### Wire Tracing up to 3KM

Easily track wire directly in connection with live telecommunication equipment and router.

## **Cable Mapping & Status Indication up to 610M**

Display the result of cable mapping and troubleshoot wiring for continuity, short, open and crossover.

## Max. support 8 remote units

For cable mapping on RJ45 LAN cable Cat 5,5e,6 (UTP), RJ11/12 Telephone cable Cat. 3 (2/4/6 pin) & BNC connector coaxial cable.

## **Non Contact Voltage Detection**

Tests voltage from 90 ~ 1000V before testing for circuit protection.

| on oan protootion.                        |  |  |
|---|--|--|
| MT-7071 Transmitter specification         | hs   |  |
| Cable types tested                        | RJ45 LAN cable Cat 5, 5e, 6, (UTP/STP),<br>RJ11/12 telephone cable Cat 3 (2/4/6 pin),<br>coaxial cable & normal solid / stranded wird<br>by alligator clips patch cord                                       |  |
| Cable test modes                          | 580/1160 Hz two-note tones for location and isolating cables, wire mapping for validate (detects wire continuity, shorts, opens, miswired, crossover) and open length tested                                 |  |
| Measurement technology                    | Cable capacitance method   |  |
| Max. distance to opens for test           | 1,200 meter (4,000 feet/1,300 yard), approx  |  |
| Min. distance to opens for test           | 2 meter (6.8 feet/ 2.2 yard)   |  |
| Typical accuracy of length test           | 2-10 meter (6.8~33 feet/2.2~11yard) for<br>reference 10~610 meter (33-2000 feet/<br>11-666 yard.): ±5.0% 610-1,200 meter<br>(2000-4000feet/ 666-1300 yard.) for<br>reference, default measuring Cat.5e cable |  |
| Calibration accuracy of length test       | 10~610 meter (33~2,000 feet/11~666 yard)<br>±3.0%, standard cable:10~50meter(33~164<br>feet/11~55 yard), default measuring Cat.5e<br>cable   |  |
| Resolution & Unit of length test          | 0.1 meter/ feet/ yard, Rate:1~3 sec./time  |  |
| Calibrating parameters memory             | 1~7 sets, allowing rewrite by new calibrating parameters   |  |
| Max. distance of transmission & cable map | ≥3 km (580/1160 Hz) & 610 meter (2,000 feet/666 yard)  |  |
| Min. distance of cable map                | Twisted pair:1Meter (3 feet/ 1yard), normal wire:1.25Meter (4feet/1.35yard)  |  |
| Cable map & Shielded indication           | LCD 1~8 & G  |  |
| Other functions                           | Continuity test, current protection< 5 mA & voltage protection AC 60V or DC 48V, live telecommunication equipment test and router test, auto power off, low battery display                                  |  |
| Dimension(D×W×H) (mm/inch)                | 138×80×35 mm / 5.4x3.1x1.4"  |  |
| MT-7071 Receiver specifications           |  |  |
| Signal status indication                  | 580/1160 Hz  |  |
| NCV indication & LED illumination         | 1 LED (AC90~1000V) & 1 LED   |  |
| Dimension(D×W×H) (mm/inch)                | 198×45×33 mm / 7.8x1.8x1.3"  |  |
| MT-7071 Remote unit specification         | ns   |  |
| Remote unit                               | 1 pc, max. support to 8 pcs (optional remotes: MT-7071U)   |  |
| Compatible connectors                     | RJ45(8 pin), RJ11/12(6 pin), BNC connectors  |  |
| Remote unit dimension (L×W×D) (mm/inch)   | 90×32×30mm / 3.5x1.3x1.2"  |  |

Color box

## MT-7028

## **Network Toner & Probe Kit**











The MT-7028 lets you easily to locate and verify the cable status and troubleshoot wiring for continuity, shorts, opens and crossover on RJ45 LAN cable Cat 5/5e/6/7 (UTP/STP)/RJ11/12 telephone cable Cat. 3 (2/4/6 pin) & normal solid/stranded wire by alligator clips patch cord. Ideal for all installation and maintenance fields of telecommunication, networking, datacom, audio/video,cable TV, and all weather cabling, etc.

## Wire Tracing up to 3KM

The tone and probe kit lets you easily track wire directly in connection with live telecommunication equipment and router

## **Cable Mapping & Status Indication up to 300M**

- •Fast/Slow scan function options
- •Display the result of pin to pin cable mapping
- •Display cable status and troubleshoot wiring for continuity, shorts, opens and crossover.

## **Non Contact Voltage Detection**

Tests voltage from 90 ~ 1000V, special design to make sure the power is off before testing for circuit protection

## **Energy Saving**

Automatically powers off after 1 hour of no operation

## **Polarity Indication**

Identify the telephone line polarity easily

| MT-7028 Transmitter specifications                                   |  |
|--|--|
| Tone frequency   | 1kHz   |
| Max. distance of transmission &Cable map                             | ≧3km &300m   |
| Tone mode  | Hi/Low two-note tone   |
| Compatible connectors  | RJ45(8 pin)/RJ11(6 pin) compatible<br>connectors for RJ45(8 pin),<br>RJ11/12(6P/2C/4C/6C) cable map and<br>RJ45 tone, RJ-11(6 pin) connectors for<br>RJ11/12(6P/2C/4C/6C) tone |
| Cable types tested   | RJ45 LAN cable Cat 5, 5e, 6, 7 (UTP/<br>STP), RJ11/12 Telephone cable Cat 3<br>(6P/2C/4C/6C)   |
| Continuity test  | 1 LED (≤300Ω), coaxial cable & normal solid/stranded wire by alligator clips patch cord.   |
| Cable map & Shielded indication                                      | 8 LEDs & 1 LED , Fast/Slow dual speed  |
| Phone line polarity indication                                       | 1 Dual color LED   |
| Other function Live telecommunication equipment test and router test | Live telecommunication equipment<br>test and router test, voltage protection<br>AC 60V or DC 48V, auto power off, low<br>battery display                                       |
| MT-7028 Receiver specifications                                      |  |
| Frequency & Compatible connectors                                    | 1kHz & RJ45(8 pin)/RJ11(6 pin)   |
| Signal status indication   | 1 LED & Buzzer, ear bud jack   |
| Cable map & Shielded indication                                      | 8 LEDs & 1LED  |
| NCV indication & LED illumination                                    | 1 LED (AC90~1000V) & 1 LED   |
| Battery type   | DC 9.0V (NEDA 1604/ 6F22 DC9V ×1pcs)   |
| Dimension (L×W×D)(mm/inch)   | 198×45×33 mm / 7.8x1.8x1.3"  |
|  |  |

Color box



Individual packing

Detects AC voltage from 90 to 1000V



LED light for user convenience





RJ45 cable patch cord, RJ11 cable patch cord, alligator clips patch cord, ear bud, pouch bag



Verify LAN/ telephone cable condition



Wire tracing

## MT-4616

## **Temperature / Humidity / Dew Point Meter**













# C E ROHS | K | RH | AF | HOLD | MAX | 99 Data Memories, 3 Types of Temperatures



- · Tests ambient temperature, relative humidity, wet bulb, dew point temperature.
- Data memory up to 99 memories.
- · Unit °F/°C selection, high precision & portable for measuring.
- Extra functions: Max./ Min. value, low battery indication, auto power off, backlight, data hold.

| Specification                 |  |
|-------------------------------|--|
| Temperature Range             | -20~60°C(- 4°F~140°F)                  |
| Temperature Accuracy          | ±1°C(0~45°C), ±1.5°C(-20~0°C, 45~60°C) |
| Humidity Range                | 0~100%RH                               |
| Humidity Accuracy             | ±3%(20%~80%), ±4%(0~20%, 80%~100%)     |
| Wet Bulb Temperature Range    | -20~60°C(-4~140°F)                     |
| Wet Bulb Temperature Accuracy | ±1°C(0~45°C), ±1.5°C(-20~0°C, 45~60°C) |
| Dew Point Range               | -50~60°C(-58~140°F)                    |
| Dew Point Accuracy            | ±1°C(0~45°C), ±1.5°C(-50~0°C, 45~60°C) |
| Resolution                    | 0.1C/F; 0.1%                           |
| Data Memory                   | Max. 99 of data                        |
| Unit selection                | °C / °F                                |
| Auto power off                | After 30mins, on/off selection         |
| Power source                  | AAA 1.5V x 4 (not included)            |
| Weight                        | 114g (not including battery)           |
| Dimension (L×W×D) (mm/inch)   | 184 x 60 x 29mm / 7.2 x 2.4 x1.1"      |
| Accessory                     | Storage Bag                            |
| Individual Packing            | Double blister                         |

#### **Light Intensity Meter** MT-4617











# MAX HOLD OFF AP Auto/Manual Range, Zero Calibration, Relative & Peak Value



- · Measures the visible light produced by fluorescent lamp, metal-halide lamp, high voltage sodium lamp or electric incandescent lamp.
- Built-in precision photo diode sensor and color correction filter.
- · Automatic and manual measured range switching.
- Relative and peak value measurement.
- Measures up to 200,000 lux / 20,000 FC.
- · Extra functions: Max./Min. value, over load indication/low battery indication, auto power off, data hold, zero calibration.

| 0 '5 '                        |  |
|-------------------------------|--|
| Specification                 |  |
| Range                         | 20, 200, 2000, 20000, 200000 Lux, 20, 200, 2000, 20000 FC  |
| Ring spectral range           | 320~730nm  |
| Accuracy                      | ±3% (When at 2854K calibrated in accordance with the ordinary incandescent) ±6% (when at other visible light source) |
| Unit                          | Lux., FC   |
| Sensor                        | Silicon photodiode   |
| Sampling time                 | ≥2 times/sec.  |
| Auto power off                | After 10 min.  |
| Operation sound               | on/off Selection   |
| Low battery indicate          | <7V  |
| Operation environment         | 0~85%RH, -10, 50°C (no condense)   |
| Storage environment           | 0~70%RH, -10, 50°C (no condense)   |
| Operating altitude            | Max. 2000m   |
| Power source                  | 9V (not included)  |
| Weight                        | 154 g (not including battery)  |
| Dimension(L×W×D)<br>(mm/inch) | 170 x 85 x 45mm / 6.7 x 3.3 x 1.8"   |
| Accessory                     | Storage bag  |
| Individual packing            | Double blister   |



#### MT-4618 **Sound Level Meter**













# Auto Range, Over Range Indication, Weighted Sound Pressure Frequency



- · A & C weighting network selection
- Measuring range from 30 to 130 dB
- · LCD display with backlight
- · High speed (FAST)/Low speed (SLOW) response rate selection
- · Extra functions: Max./Min. value, data hold, auto range, backlight, good anti-interference performance, auto power off

| Specification                 |   |  |  |
|-------------------------------|---|--|--|
| Range                         | 30—130dBA, 35—130dBC, 30—80db,<br>40—90db, 50—100db, 60—110db, 70—120db,<br>80—130db, 30~130 db is auto range |  |  |
| Accuracy                      | ±1.5dB ( 94dB@1KHz), ±5dB (94dB@8KHz)   |  |  |
| Resolution                    | 0.1dB   |  |  |
| Response frequency            | 30Hz — 8KHz   |  |  |
| Dynamic sound pressure        | 50 dB ( at each range) FAST 125ms, SLOW 1sec  |  |  |
| Frequency weighting           | A and C type  |  |  |
| Sensor                        | Polarized condenser microphone  |  |  |
| Sampling time                 | 2 times/sec. , Analog 20 times/sec.   |  |  |
| Operating environment         | 10~80%RH, 0°C~40°C (Non-condensing)   |  |  |
| Storage environment           | 10~70%RH, -10°C~60°C (Non-condensing)   |  |  |
| Low battery indication        | <5V   |  |  |
| Power source                  | 1.5V AAA battery x 4 (not included)   |  |  |
| Weight                        | 174 g (not including battery)   |  |  |
| Dimension(L×W×D)<br>(mm/inch) | 174 x 60 x 29mm / 6.9 x 2.4 x 1.1"  |  |  |
| Accessory                     | Storage bag   |  |  |
| Individual packing            | Double blister  |  |  |

## MT-4615 Anemometer













| Specification               |   |
|-----------------------------|---|
| Measuring range             | 0.8~40m/s   |
| Accuracy                    | 0.80-30.00 m/s, 1.40-108.00 km/h, 1.30-98.50 ft/s, 0.80-58.30 knots, 0.90-67.20 mil/h, 78-5900 ft/m, ±(2.0% + 50D), 30.00-40.00 m/s, 108.0-144.0 km/h, 98.50-131.20 ft/s, 58.30-77.70 knots, 67.20-90.00 mil/h, 5900-7874 ft/m,(only for reference) |
| Resolution                  | 0.01m/s, 0.01km/h, 0.01 ft/s, 0.01knots, 0.01mile/h, 1ft/m  |
| Unit                        | Air Velocity, m/s, km/h, mil/h, ft/m, ft/s, knots,<br>Air Volume, CMS (m3/s), CMM m3/min, CFM (ft³/<br>min), 30~40m/s only for reference  |
| Sensor                      | Conventional arm angle to the impeller  |
| Sampling time               | 0.4s  |
| Auto power off              | 10 minutes (adjustable)   |
| Low battery indication      | <7V   |
| Operation environment       | 0~85%RH, 0°C~40°C(no condense)  |
| Fan Operation environment   | 0~95%RH, -20°C~80°C(no condense)  |
| Storage environment         | 0~80%RH, -20°C~80°C(no condense)  |
| Operating altitude          | Max. 2000m  |
| Power source                | 9V 6F22 (not included)  |
| Weight                      | 154 g (not including battery)   |
| Dimension (L×W×D) (mm/inch) | 170 x 85 x 40mm / 6.7 x 3.3 x1.6"   |
| Accessory                   | Storage bag   |
| Individual Packing          | Double blister  |

Air Velocity, Analog Bar Graphic, Variety of units, Air Volume, **LCD Backlight. MAX./MIN Value** 

- · Measuring air velocity and air volume.
- Large LCD backlight for easy reading even in dark area.
- · Variety of units to choose from.
- Extra functions: Max./ Min. value, low battery indication, auto power off, data hold.





#### **Combustible Gas Detector** MT-4611



- & audible alarm. • Detection at 10% ~ 40% lower explosion limited.
- Adjustable sensitivity setting helps precisely locate leaks.
- Rugged ergonomic & easy-to-use design.
- · 35cm flexible probe allows location and detection of leak in hard-to-reach and confined spaces.

| Specification               |   |
|-----------------------------|---|
| Sound and LED light alarm   | Measuring distance 1 meter, beep about 65dB                                   |
| Resolution                  | 50 ppm (methane)  |
| Test range                  | 10%—40% LEL   |
| Response time               | < 2S (40% LEL)  |
| Sensor                      | Catalytic combustion  |
| Low battery indicate        | <5V   |
| Operation environment       | 10~90%RH, 0°C~50°C (no condense)  |
| Storage environment         | 10~70%RH, -10°C~60°C (no condense)  |
| Power source                | 1.5V / AA battery x 4 (not included)  |
| Weight                      | 290 g (not including battery)   |
| Dimension (L×W×D) (mm/inch) | Meter, 200x75x50mm / 7.9 x 3.0 x2.0", flexible probe, Ø8x350mm / Ø0.3 x 13.8" |
| Accessory                   | Storage bag   |
| Individual packing          | Double blister  |





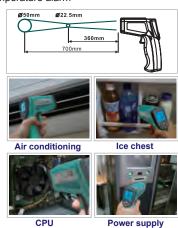
#### MT-4612 **Infrared Thermometer**

# CE FDAFE PROHS

## **Non-Contact Measurement, Fast Response,**

- Dual laser for accurately aiming with fast (500 ms) response time
- Ergonomic design and rugged construction
- Extra functions: unit selection, backlight, auto power off, low battery indication, Data hold, Max./Min./average/difference record, high/low temperature alarm

| Specification                 |                                       |
|-------------------------------|---------------------------------------|
| Temperature Range             | -50°C~580°C(-58°F ~1076°F)            |
| Accuracy                      | ±2°C or ±2%°C                         |
| Distance Spot Ratio           | 16:1                                  |
| Emissivity                    | 0.1~1.0                               |
| Laser class                   | Class II , <1mW                       |
| Response time &<br>Wavelength | 500ms / 8-14µm                        |
| Repeatability                 | ±1°C or ±1%°C                         |
| Resolution                    | 0.1°C                                 |
| Unit selection                | C° / F°                               |
| Data memory                   | 9 memories                            |
| Laser target point            | Dual Laser / can be selected on / off |
| Storage temperature           | -20-50°C(-4-122°F)                    |
| Operating temperature         | 0~50°C, 10~95%RH                      |
| Power source                  | 6F22(9V) (not included)               |
| Weight                        | 204g (not including battery)          |
| Dimension(L×W×D) (mm/inch)    | 175 x 130 x 45mm / 6.9 x 5.1 x1.8"    |
| Individual packing            | Double blister                        |













## Multi-Measurements, Extra Side Key, Spray Proof, Dustproof

Ideal for measuring factory layout, facilities safety area, trench depth for solar installation, building maintenance, ceilings maintenance, road works, water level, sheet rock measurement.













Comply with IP54 rated as dust-protection and spray-poof.

## **Extra Side Key**

One touch extra side key for using easily and quickly.

## **Integrated Multi-measuring Functions**

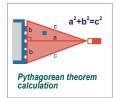
Area, volume, pythagorean measurement allows easy measuring in many different applications.

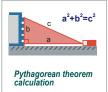
## **LCD Display**

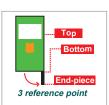
Comes with large LCD display with backlight allows for data reading in dark areas.

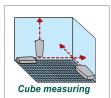
#### **Fold-out Extension**

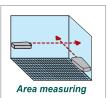
Extension allows offset reference point for convenience.























| Model No.                     | NT-8540    | NT-8560                              | NT-8580 |  |
|-------------------------------|------------|--------------------------------------|---------|--|
| Measuring range               | 0.2~40M    | 0.2~60M                              | 0.2~80M |  |
| Measuring accuracy            |            | ±1.5mm                               |         |  |
| LCD display                   | 4-line     | 4-line display with backlight        |         |  |
| Measuring functions           | Len        | Length / Area / Volume               |         |  |
| Continuous measurement        |            | Yes                                  |         |  |
| Min,Mix measurement           |            | Yes                                  |         |  |
| Pythagorean 1                 |            | Yes                                  |         |  |
| Pythagorean 2                 |            | Yes                                  |         |  |
| Add/Subtraction               |            | Yes                                  |         |  |
| Data memory                   |            | 20 record                            |         |  |
| Unit selection                |            | M / ft / in / ft+in                  |         |  |
| Beep indication               |            | Yes                                  |         |  |
| Auto power off                |            | After 3min.                          |         |  |
| Auto laser power off          |            | 30s                                  |         |  |
| Low battery indicate          |            | Υ                                    |         |  |
| Laser class                   |            | Class 2M                             |         |  |
| Laser power                   |            | 635 nm≤1mW                           |         |  |
| Operation temperature         |            | 0°C-40°C                             |         |  |
| Storage temperature           |            | -10°C-60°C                           |         |  |
| Power source                  | 2 x 1.5V A | 2 x 1.5V AAA batteries(not included) |         |  |
| Weight                        | 113g (     | 113g (not including battery)         |         |  |
| Dimension(L×W×D)<br>(mm/inch) | 115 x 52   | 115 x 52 x 32.5mm / 4.5x 2.0 x1.3"   |         |  |
| Individual packing            | Color Box  |                                      |         |  |







# PM-761 **Diagonal Cutter Oval Head**



# PM-771 Diagonal Cutter Oval Head



115/4.5

# PM-763 Diagonal Cutter Tapered And Relieved Head



## PM-773 **Diagonal Cutter Tapered And Relieved Head**

65 CRM



# PM-764 **Diagonal Cutter Tapered Head**



# PM-774 Diagonal Cutter Tapered Head







## PM-396K

## **Stainless Cutting Plier**









## **Super Slim**

- · Made of AISI 420 stainless steel which assure cleanliness and corrosion-resistance.
- · Dual color non-slip TPR handles for max user comfort
- Polyoxymethylene (POM) spring for self-opening action to supply smooth operation.







Super Slim Style for **Narrow Space** 

**Precise Cutting** Ø0.1~1.0mm



| AISI 420 | 48°±3° | Ø 0.1-1.0mm | 115/4.53  | Blister Card |
|----------|--------|-------------|-----------|--------------|
| Material | HRC    | Copper      | (mm/inch) | packing      |
|          |        | Application | OAL.      | Individual   |

## PM-808

RoHS

# **Plastic Cutting Plier**





## **Perfect for cutting parts off the sprue**

- · Made of high carbon steel with fine polish finish.
- Perfectly aligned cutter blades, all cutting edges tempered and hardened.
- · Tapered and relieved head is thin and slim allowing use in hard to reach areas.







Super Slim Style

**Cut off parts from** 

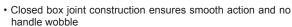


| Material          |        |        | HRC          | Application     | OAL.      | Individual      |
|-------------------|--------|--------|--------------|-----------------|-----------|-----------------|
| Body              | Handle | Body   | Cutting edge | Copper          | (mm/inch) | packing         |
| High carbon steel | PVC    | 45°±2° | 59°±2°       | Ø 0.3-<br>1.3mm | 136/5.35  | Blister<br>Card |



#### 8" Diagonal Cutter 902-514





- · Body corrosion resistant finish and hardened cutting edge for long life
- · Nonslip handle for comfort and ease of identification.



## 902-515

## 8" Long-Nosed Plier



- · Made of hardened steel for great durability • Cutting edges are precision ground and hardened for long life
- · Forged box joint construction gives strength and precision









| Material   |                   | HRC    | ,                                 | Application | OAL.  | Individual |                 |
|------------|-------------------|--------|-----------------------------------|-------------|-------|------------|-----------------|
| iviateriai | Body Cutting edge |        | edge Hard steel Soft steel Copper |             |       | (mm/inch)  | packing         |
| AISI 6150  | 45°±3°            | 62°±2° | 20AWG                             | 16AWG       | 14AWG | 210/8      | Blister<br>Card |





| Material  |                   | HRC    | A                            | Application | OAL.  | Individual |                 |
|-----------|-------------------|--------|------------------------------|-------------|-------|------------|-----------------|
| Material  | Body Cutting edge |        | Hard steel Soft steel Copper |             |       | (mm/inch)  | packing         |
| AISI 6150 | 45°±3°            | 62°±2° | 20AWG                        | 16AWG       | 14AWG | 210/8      | Blister<br>Card |



# 902-520 Crimper with Weatherpack Die











- · Reliable: Parallel action crimping performance is consistent and
- · Practical: Safety crimp release helps eliminate rejected terminations due to incorrect positioning.
- · Comfortable: Ergonomically shaped non-slip TPR handle for comfortable use in all conditions
- · Versatile: Interchangeable die sets for wide range of applications.





Sealing Plug



| ı | Material  Body Handle |   | HRC   | OAL.      | Individual packing |  |
|---|-----------------------|---|-------|-----------|--------------------|--|
|   |                       |   | 11110 | (mm/inch) |                    |  |
|   | S50C                  | , |       | 254/10    | Blister card       |  |

| Model No.                            | die profile |  | Application                        | Terminals |
|--------------------------------------|-------------|--|------------------------------------|-----------|
| 902-519                              | Die only    |  | Weather Pack Terminals & Seals     |           |
| 902-520 Crimper with Weatherpack Die |             |  | Crimp size : AWG 14-16/18-20/22-24 |           |





#### Terminal Crimp Kit w/ 100-002 902-498



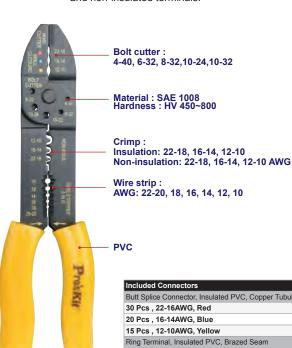


OAL.(mm/inch):235/9.3

This crimper is for generic red, blue & yellow insulated and non-insulated terminals.

> 50 Pcs , 22-16AWG, #6 Stud Size, Red 40 Pcs, 16-14AWG, #8 Stud Size, Blue

20 Pcs, 12-10AWG, #10 Stud Size, Yellow Individual packing Plastic wrapped





## **CP-333**

## **Modular Plug Crimping Tool**











- For crimping RJ-45 (8P8C) and RJ-11/12 (6P6C/6P4C/6P2C) modular
- The round cable stripping hole is for removing UTP/STP cable outer jacket without damaging the inner conductors.
- · Comes with cutting function.
- · Reliable and consistent steel mechanical design with Parallel Action features precise crimping and force saving.
- · Non-slip grip for user comfort.
- Built-in safety lock to keep tool in closed position during storage.
- · Built-in eyelet for a lanyard provides convenient hanging.







**Cutting round cable** 

Stripping UTP/STP round cable

Crimping 6P/8P

| Handle        | Material<br>Body      | Application  | OAL<br>(mm/inch) | Individual packing |
|---------------|-----------------------|--|------------------|--------------------|
| PVC<br>coated | ABS +<br>Carbon Steel | For stripping UTP/STP cable and cutting function For crimping RJ-45 (8P8C), RJ-11/12(6P6C/6P4C/6P2C) modular plugs | 143/5.6          | Blister<br>card    |

#### **Adjustable Compression Tool CP-316**



- For crimping waterproof connector F, BNC, RCA, IEC, MINI F on RG58,RG59,RG6 coaxial cable.
- Has body scale to easily adjust plunger from 21 to 46mm.
- · Comes with integrated handle lock for easy storage.
- · Steel body with black oxide finish.











connectors

connectors

BNC waterproof F waterproof connectors

Mini F connectors IEC connectors

| Mate   | rial | Hardness      | Application  | OAL       | Individual   |  |
|--------|------|---------------|--|-----------|--------------|--|
| Handle | Body | of main parts | Application  | (mm/inch) | packing      |  |
| ABS    | S50C | HR15N 75-79°  | For crimping connector F, BNC, RCA, IEC, MINI F coaxial cables | 146/5.7   | Blister card |  |

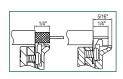
#### **Copper Clad Steel Coaxial Cable Crimper CP-418**



## 3 in 1 for Cutting, Stripping, Crimping

## Stripping length guide





- · All in one design-
- For cutting & stripping & crimping RG6 and RG59 coaxial cable.
- Strips coaxial cable-
- By 2 steps for outer jacket at 1/4" & center core at 1/4" or 5/16".
- · Precision stripping hole-
- For removing inner dielectric insulation without damaging the center conductor.

| Mate | Material |             | OAL.(mm/inch)      | to divide and an abitata |
|------|----------|-------------|--------------------|--------------------------|
| Body | Handle   | Application | OAL.(IIIII/IIICII) | Individual packing       |
| S45C | PVC      | RG6,RG59    | 207.5/8.5          | Blister card             |

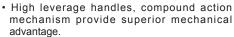
## CP-151B/CP-353

# **Non-Insulated Terminals Ratchet Crimping Tool**









• The accurate crimping mold and self locking / releasing mechanical unit design ensure high crimping quality when crimping repeatedly.

· Made of high quality carbon steel with black oxide finish for anti-rust

· Ergonomically shaped non-slip TPR handle with eyelet design for user comfort and easy storage.



Wire size stamped on terminals



For non-insulated terminals



Material: AISI 4140 Hardness: HRC 44°~46°

Material: S45C Hardness: HRC 43°~45° Black oxide finish

Ratcheting release trigger



**Crimping pressure** 

adjustment

**CP-353** 

| Model No. | Material                     | HRC      | Handle | Crimper die profile | Application   | OAL<br>(mm/inch) | Individual packing |
|-----------|------------------------------|----------|--------|---------------------|---|------------------|--------------------|
| CP-151B   | Frame:S45C<br>Die: AISI 4140 | 40°- 42° | TPR    | V                   | Non-insulated spade/ring terminals, AWG 22-16/16-14/12/10,<br>JIS 1.25/2.0/3.5/5.5 mm², DIN 1.5/2.5/4.0/6.0 mm² | 176/7.0          | Blister card       |
| CP-353    | Frame:S45C<br>Die: AISI 4140 | 45°±3°   | TPR    |                     | AWG 12-10 / 8 / 6 / 4, DIN 4-6 / 10 / 16 / 25 mm <sup>2</sup> , JIS 5.5 / 8.0 /14 / 22 mm <sup>2</sup>          | 332/13.0         | Dilatel Calu       |



## 8PK-CT016

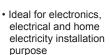
# Ratchet Crimping Tool For Non-Insulated Terminal











· Adjustable ratchet and lever action construction make using convenient

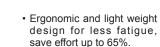


| Material HRC  |                 | Handle            | Crimper die profile |
|---|-----------------|-------------------|---------------------|
| Frame:S45C<br>Die:SK5   | 40°±2°          | PVC               | V                   |
| Applica   | ation           | OAL.<br>(mm/inch) | Individual packing  |
| Non-insulated<br>AWG 12-10/8/6<br>DIN 4.0-6.0/10/<br>JIS 5.5/8.0/14/2 | /4<br>16/25 mm² | 350/13.8          | Blister card        |



## **CP-386**

## **Snap Plier**



· Die set contains both male stud & eyelet and female cap & socket snaps.

· Includes hex wrench for loosening and tightening







Accessories: Hex wrench and



| Mater    | ial   | A  | OAL.      | Individual      |
|----------|-------|--|-----------|-----------------|
| Handle   | Die   | Application  | (mm/inch) | packing         |
| Aluminum | Steel | Perfect for 12mm-15mm snap<br>on all canvas covers, tarps, tent,<br>static-dissipative mat and more. | 180       | Blister<br>card |

## **CP-148 Cutter/Stripper & Crimper**



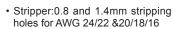












- · Pliers:Long nose design for easy wire bending, pulling and holding
- · Cutter:Steel body with black oxide finish
- Crimper:For UR/UY/UG,AMP tel splice connector,709 series connectors





Cutter

Stripper







Crimper



Thomas & Betts/ Belden 709

AMP tel splice 3M Scotchlok UR/UY/UG connectors tel splice connectors



## 902-499 4-Way Indent Crimper-Deutsch





## **Ideal for crimping deutsch closed barrel terminals** found on motorcycles, trucks and other heavy duty vehicles.



- This economical crimp tool delivers the same type of crimp the more expensive MIL-Spec tools provide.
- · Built-in locator assures accurate positioning of the pin and socket prior to the crimping action.
- Full cycle ratchet insures a complete and perfect crimp each and every time.
- Cushioned grips.
- Compact 6 1/2" size



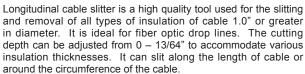


For use with 12-20 AWG

| Mate | Material |        | HRC          | OAL       | In all state of the authors |
|------|----------|--------|--------------|-----------|-----------------------------|
| Body | Handle   | Body   | Cutting edge | (mm/inch) | Individual packing          |
| S55C | PVC      | 44°±1° | 55°-65°      | 163/6.4   | Blister card                |

#### **Longitudinal Cable Slitter** 902-491





- For slitting and stripping round cables exceeding 1" diameter.
- Removes all kinds of insulation layers
- · Suitable for longitudinal and circular cutting
- · Knob adjusts cutting depth up to 13/64" for different cable sheath thickness
- · Blade fully retracts inside body for storage
- · Replaceable blade (both sides can be used) is available.



| Nylon    | Powder metallurgy | 57°±3°       | 902-491-BLADE<br>Longitudinal<br>Cable Slitter Blade | 210/8.2   | Blister<br>card |
|----------|-------------------|--------------|--|-----------|-----------------|
| Body     | Handle            | Cutting edge | Replaceable blade                                    | (mm/inch) | packing         |
| Material |                   | HRC          | Replaceable blade                                    | OAL       | Individual      |







Longitudinal cutting Circular cutting

## **Coaxial Cable Stripper & Cutter**

## Pb, RoHS

- Designed for easy single operation of stripping and cutting RG-59, RG-6 cable.
- · Unique, safe design construction to avoid blade exposure and accidents.
- Black hook and loop for folding back the braided shield.
- · Finger loop promotes rotation during use.
- · Pocket clip design for convenient carrying.







braided shield



Unique, Safe Design construction

| Ma   | iterial | Application | OAL.      | Individual packing |
|------|---------|-------------|-----------|--------------------|
| Body | Blade   | Application | (mm/inch) | individual packing |
| ABS  | SK5     | RG-59/6     | 111/4.4   | Blister card       |

## **CP-509 Coaxial Stripping Tool**





- · With hex wrench for easy installing or removing F connector from splitter.
- · Durable SK5 preset cutting blades provide precise, accurate cable stripping.







Remove F connector

| Material |       | Application  | OAL.    | Individual packing   |
|----------|-------|--------------|---------|----------------------|
| Body     | Blade | Application  | (mm)    | iliuividuai packilig |
| ABS      | SK5   | RG-59/6/7/11 | 130/5.1 | Blister card         |

## **CP-512 Rotary Coaxial Cable Stripper**







- · Designed for easy single operation of one-step stripping RG-59/6/7/11 coaxial cable.
- Unique, safe design construction to avoid blade exposure and
- Finger loop promotes rotation during use, more user friendly.
- · Black hook for folding back the braided shield.
- Compact and ergonomic design for convenient carrying and use.





Replacement 5CP-505-RG(1pcs/pack)







Quick strips RG59/RG6/RG7/RG11



## **CP-521 Coaxial Stripping Tool**





- Designed for stripping RG-58/59/6/62 coaxial cable
- Durable SK5 steel preset cutting blades provide precise, accurate cable stripping
- Special POM (Polyoxymethylene) structure, easy operation and force saving



| Mate | rial  | Application   | OAL.      | Individual packing |
|------|-------|---------------|-----------|--------------------|
| Body | Blade | Application   | (mm/inch) | individual packing |
| POM  | SK5   | RG-58/59/6/62 | 115/4.5   | Blister card       |

## 902-512 / 902-513

## **Dual Wattage Soldering Iron**





## **DUAL WATTAGE** professional soldering iron, excellent for all electronics hobbyists as well as industrial users.

- · Selectable switch lets you easily swap the power setting.
- Tailor your temperature depending on your project.
- Ergonomic handle with comfortable grip for max. user comfort.
- · Comes with long life tip and safety stand.
- · Includes sheet metal stand.





Iron Stand

902-513 30/60W Dual Wattage Soldering Iron

| Model. No | Voltage | Consumption | Standard plug | Individual packing |
|-----------|---------|-------------|---------------|--------------------|
| 902-512   | 120V    | 15/30W      | Α             | Blister card       |
| 902-513   | 120V    | 30/60W      | Α             | Blister card       |

#### **Desoldering Pump DP-366J**



- · Piston with double O-rings avoids the air leakage and maximizes suction power.
- Suction Capability: 32cm-Hg, quick and easy to clean solder
- · Transparent tube makes it easy to check the volume of solder residues.
- · Replacement heat-resistant Teflon tip resists distortion.
- · Nonslip handle design to hold the pump tightly.
- · Compact size for one hand operation.







Piston with double O-rings avoids air leakage

Detachable pump is simple to clean solder residues

Transparent tube is easy to check solder residue

| Material | Suction Capability | Size (mm/inch) | Individual packing |
|----------|--------------------|----------------|--------------------|
| PC       | 32cm-hg            | 210/8.3        | Blister card       |

#### **Auto Ignite Gas Soldering Iron GS-23K**



- Auto ignition for starting and operating easily and safely under any condition.
- · Safety ignition switch complies with CPSC standard to prevent children misuse.
- Comes with TR90 high transparent nylon gas tank features long service life and more safety.
- With Ceramic heater for long service life.
- · Adjustable flame control for precision use.
- Butane is easy to refill and check with see-through fuel window.
- · Complete kit comes in a plastic case and meets a variety of operating applications.









Hot blow up to 600°C

Torch up to 1300°C

Soldering up to 500°C

Stand support for convenient work

| Soldering<br>Temperature | Hot Blow<br>Temperature | Torch<br>Temperature | Fuel<br>Capacity | Time  | Size<br>(mm/inch)          | Individual packing |
|--------------------------|-------------------------|----------------------|------------------|-------|----------------------------|--------------------|
| 500°C                    | 600°C                   | 1300°C               | 15ml             | 90min | 245 x Ø 29mm/<br>9.6xØ1.1" | Color Box          |



## **SD-T860**

## **12 PC VDE Torque Screwdriver Set**













- · Dual color VDE torque handle, torque adjustable 1-6 Nm, Includes torque adjusting tool for easy torque setting. Insulated metal bit holder locks all bits reliably.
- · Individually tested protective insulation 1000 VAC, VDE and GS tested. Includes 10pcs common use bits to satisfy most applications. Made by AISI 8660 Cr-Mo-V steel.
- For controlled fastening on live cable or parts up to 1000VAC, such as power plants, refrigeration and air conditioning systems, electrical engineering installation and maintenance...etc.
- · Arranged properly in a high quality and rugged bag, could be used as convenient storage bag and waist working bag.











#### **12 PC Torque Screwdriver Set SD-T636**

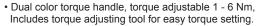








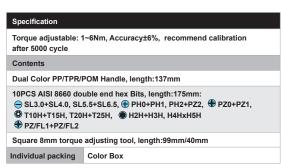




- Includes 10pcs double end bits, common use 20 bits size to satisfy most applications. Made by AISI 8660 Cr-Mo-V steel.
- For controlled fastening on electrical engineering installation and maintenance, and more.
- · Arranged properly in a high quality and rugged bag, could be used as convenient storage bag and waist working bag.









# SD-T635 Series

## **Adjustable Torque Screwdriver**

















Ideal for electronic, computer, communication, motorcycle, bicycle, automobile, truck, heavy machinery, ship, cruise, aerospace industry, high-speed rail and more.

## **Accuracy of torque ±6.0 %**

• Each torque wrench laser serial no. and calibration certificate for future tracing. **Dual units scale indication** 

• Dual units N.m and lbf.in or lbf.ft scale indication.

## **CW/CCW** torque control

- Applied to both clockwise and counter clockwise bi-directional torque control.
- Signals by impulse when torque setting is reached.

## **Easy Torque adjustment**

 Easy torque-adjusting design brings energy-saving benefit. Positive locking mechanism avoids accidental setting alterations.

## **Reliable Mechanism**

Quality meets DIN ISO 6789 & ASME B107.300-201

| Model No.          | SD-T635-0112                     | SD-T635-16 | SD-T635-510                        |  |  |
|--------------------|----------------------------------|------------|------------------------------------|--|--|
| Drive              | 1/4"/6.35mm Hexagon              |            |                                    |  |  |
| Unit               | N-m/lbf.in Dual units            |            |                                    |  |  |
| Torque Range       | 0.1~1.2 N-m<br>1.33~10.18 lbf-in |            | 5.0~10 Nm<br>48.68~84.08<br>lbf-in |  |  |
| Accuracy           |                                  | ±6.0 %     |                                    |  |  |
| Graduation         | 0.01 N-m                         | 0.1 N      | l-m                                |  |  |
| OAL.(mm/inch)      | 180 / 7 200 / 7.9                |            |                                    |  |  |
| Individual packing | Plastic box+Color label          |            |                                    |  |  |

## S

## SD-9817 **6 In 1 Ratchet Screwdriver Set**

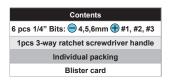








- Pivoting head locks in 3 operating positions allowing better control & access to confined areas
- Ergonomic dual color TPR+PP handle with bits storage inside
- Magnetized hex opening holds all standard driver bits, and allows quick removal and replacement
- 3 position ratchet features forward, reverse and locked



## SD-9828 58 PC Driver Kit











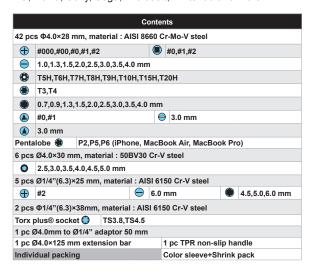








Ideal for opening smartphones, tablets, notebooks, electronic device case and most branded video games such as Apple, HTC, Samsung, LG, Nokia, Sony, Sega, Microsoft, Nintendo and more.















The TS3.5/TS4.5 Torx Plus® sockets are for Nintendo, SONY, SEGA products.

P2,P5,P6 pentalobe tips are special for Apple products

# MS-3176 4 PC Open Repair Tool Set



- · Ideal for most brands of smartphones, video games, notebooks, electronic devices.
- · Opening, prying and disconnecting small electronic components without damaging housing or parts.





| Contents                                     |               |  |
|--|---------------|--|
| Metal spudger tool (123 mm / 4.8")           |               |  |
| Point-blade solder aid tools (155 mm / 6.1") |               |  |
| Spudger solder aid tools (1                  | 40 mm / 5.5") |  |
| Fork-blade solder aid tools (173 mm / 6.8")  |               |  |
| Individual packing Blister card              |               |  |

# SD-3502 6 PC Star Tip Screwdriver Set











The precision screwdriver set comes with AISI 8660 Cr-Mo-V alloy steel blade, rotating cap and nonslip ABS handle, durable and easy operation. Ideal for mobile, video games and electronic devices repair purpose.



## SD-600 Series

# **Ergonomic Cushion Grip Screwdriver/Nut Driver**











- Ergonomic and soft cushion handle fits your hand and provides best comfort and firm grip for users.
- · Acetate and TPV materials of handle provide nonslip and resistance to chemical, oil and most solvents.
- The blade of screwdriver is made of special high quality SVCM alloy steel, nut driver is made by CR-V, through- hardened with satin chrome or chrome plating.
- Blade tip ensures a perfect fit in every screw head.
- The screw symbol and tip size marking is on the handle end, easy to find the right screwdriver for the job.



Ergonomic and soft cushion handle



The screw symbol and tip size marking is

## SLOTTED SCREWDRIVER PHILLIPS SCREWDRIVER

#### OAL (inch) 800-097 3/16" X3" 6.69 3/16" X4" 800-099 7.68 800-095 3/16"X 6" 9.65 800-093 1/4" X4" 1/4" X 6" 800-152 10.24 800-153 1/4" X8" 12.20 800-154 1/4"X10" 14.17 800-101 1/4"X1-1/2" 3.62

| Model No. | SIZE        | OAL (inch) |
|-----------|-------------|------------|
| 800-098   | #1 X 3"     | 6.69       |
| 800-100   | #1 X 4"     | 7.68       |
| 800-094   | #2 X 4"     | 8.27       |
| 800-103   | #2 X 6"     | 10.24      |
| 800-096   | #2 X8"      | 12.20      |
| 800-104   | #2 X10"     | 14.17      |
| 800-102   | #2 X 1-1/2" | 3.62       |

| Model No. | SIZE     | OAL (inch) |
|-----------|----------|------------|
| 800-109   | T15 X 4" | 7.68       |
| 800-110   | T20 X 4" | 7.68       |
| 800-111   | T25 X 4" | 8.27       |
| 800-112   | T27 X 4" | 8.27       |
| 800-113   | T30 X 4" | 8.27       |

## ● STAR TIP SCREWDRIVER • SQUARE SCREWDRIVER • HOLLOW-SHAFT NUT DRIVER

| Model No. | SIZE    | OAL (inch) |
|-----------|---------|------------|
| 800-105   | S0 X4"  | 8.27       |
| 800-106   | S1 X 4" | 8.27       |
| 800-107   | S2 X 4" | 8.27       |
| 800-108   | S3 X 4" | 8.27       |
|           |         |            |

| Model No. | SIZE        | OAL (inch) |
|-----------|-------------|------------|
| 902-231   | 3/16" X 3"  | 7.28       |
| 902-232   | 1/4" X 3"   | 7.28       |
| 902-233   | 5/16" X 3"  | 7.28       |
| 902-234   | 11/32" X 3" | 7.28       |
| 902-235   | 3/8" X 3"   | 7.28       |
| 902-236   | 7/16" X 3"  | 7.28       |
| 902-237   | 1/2" X 3"   | 7.87       |

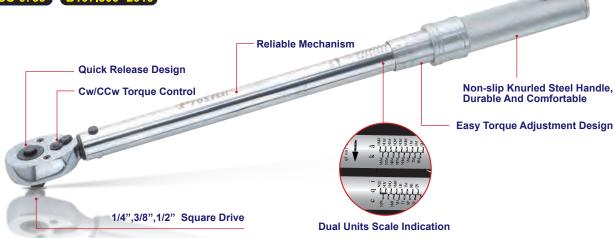
## **HW-T Series**

# **Adjustable Torque Wrench With Reversible Ratchet**





## **Industrial Application**



## **Accuracy of torque ±3.0 %**

• Each torque wrench laser serial no. and calibration certificate for future tracing.

## **Dual units scale indication**

• Dual units N.m and lbf.in or lbf.ft scale indication.

## **CW/CCW** torque control

- Applied to both clockwise and counter clockwise bi-directional torque control.
- Signals by impulse when torque setting is reached.

## **Easy Torque adjustment**

• Easy torque-adjusting design brings energy-saving benefit. Positive locking mechanism avoids accidental setting alterations.

## Quick release design

• Comes with quick release design, allows changing socket quickly.

#### **Reliable Mechanism**

Quality meets DIN ISO 6789 & ASME B107.300-2010

Ideal for motorcycles, bicycle, automobile, truck, heavy machinery, ships, cruise, aerospace industry, high-speed rail and more.









| Model No.          | HW-T41-315                  | HW-T41-525                  | HW-T83-20100                   | HW-T21-40200                | HW-T21-60340                |
|--------------------|-----------------------------|-----------------------------|--------------------------------|-----------------------------|-----------------------------|
| Drive              | 1/4"/6.35mm<br>Square       | 1/4"/6.35mm<br>Square       | 3/8"/9.53mm<br>Square          | 1/2"/12.70mm<br>Square      | 1/2"/12.70mm<br>Square      |
| Unit               | N-m/lbf.ft Dual units       | N-m/lbf.ft Dual units       | N-m/lbf.ft Dual units          | N-m/lbf.ft Dual units       | N-m/lbf.ft Dual units       |
| Torque Range       | 3.0~15 N-m<br>31~128 lbf.ft | 5.0~25 N-m<br>53~212 lbf.ft | 20~100 N-m<br>16.6~71.9 lbf.ft | 40~200 N-m<br>33~144 lbf.ft | 60~340 N-m<br>52~243 lbf.ft |
| Accuracy           | ±3.0 %                      | ±3.0 %                      | ±3.0 %                         | ±3.0 %                      | ±3.0 %                      |
| Graduation         | 0.1 N-m                     | 0.2 N-m                     | 0.5 N-m                        | 1.0 N-m                     | 2.0 N-m                     |
| Gear teeth         | 64 T                        | 64 T                        | 32 T                           | 32 T                        | 32 T                        |
| OAL                | 210 mm (8.3")               | 248 mm (9.8")               | 433 mm (17")                   | 530 mm (21")                | 610 mm (24")                |
| Individual packing | Plastic box+Color Label     | Plastic box+Color Label     | Plastic box+Color Label        | Plastic box+Color Label     | Plastic box+Color Label     |



# HW-T716-3 **7/16" Preset Torque Spanner**

## RoHS COMPLIANT

- Proper connections at "F" connector interface with factory preset torque setting 30 lbf-in(3.4NM).
- Narrow head design helps work in tight density space.
- Audible click sound alerts user when full pressure has been applied.
   Ergonomic & cushion handle for user comfort and protection.



| Material Handle HEX |          | Torque ronge     | Drive         | Individual packing |  |
|---------------------|----------|------------------|---------------|--------------------|--|
|                     |          | Torque range     | Drive         |                    |  |
| TPR                 | ANSI4140 | 30 lbf-in(3.4NM) | 7/16"(11.1mm) | Blister card       |  |



## MA-1601A LED Working Lamp









- The adjustable arm allows easy placement in any position you need.
- · Comes with switching adapter, provides even more stable performance.
- Designed with 84pcs SMD LED, features long service life, super bright and energy-saving.
- Both high light and dim light for choices.



| Energy consumption | Color temperature   | Luminance     | Overall length     | Voltage      | Standard plug | Individual packing |
|--------------------|---------------------|---------------|--------------------|--------------|---------------|--------------------|
| 2~21 W             | 6000~7000<br>Kelvin | 1200<br>Lumen | 92 x 58 x 18<br>cm | AC 110V~120V | AII           | Color<br>Box       |

## MA-1004A LED Desk Type Magnifier Lamp



## MA-1006A LED Desk Type Magnifier Lamp



- · Comes with 56 LEDs which provide bright lighting and only 9W consumption.
- LED technology features long-life, up to 50,000 hours, which is 20 times longer than incandescent lamps.
- Designed with 3D(1.75X) magnification Glass Lens. great for working on hobbies, PCB and documents.
- · The adjustable arm allows angling and pointing the light to where you need.





- · Comes with 30 LEDs which provide bright lighting and only 5.5W consumption.
- LED technology features long-life, up to 50,000 hours, which is 20 times longer than incandescent lamps.
- Designed with 3D(1.75X) magnification Glass Lens, great for working on hobbies, PCB and documents.
- The adjustable arm allows angling and pointing the light to where you need.





| Model No. | Lens material | Magnification | Lens size            | Illumination | Luminance | Voltage      | Standard plug | Individual packing |
|-----------|---------------|---------------|----------------------|--------------|-----------|--------------|---------------|--------------------|
| MA-1004A  | Glass         | 3D(1.75X)     | 127×79 mm / 5x3.1"   | 56 pcs LEDs  | 650 Lumen | AC 110V~120V | A             | Color Box          |
| MA-1006A  | Glass         | 3D(1.75X)     | 115×73 mm / 4.5x2.9" | 30 pcs LEDs  | 300 Lumen | AC 110V~120V | A             | Color Box          |

# **MA-023 Handheld LED Light Magnifier**



- Pull-out with dual lenses ,10D(3.5X)/76D(20X) to meet many applications.
- Comes with 2 LEDs allow use in dimly lit places.
- Nonslip handle with rubber provides comfortable operation.







PCB checking

Jewelry work

| Len<br>Material | Magnification & Lens size |                       | Light<br>Source | Battery                          | Individual packing |
|-----------------|---------------------------|-----------------------|-----------------|----------------------------------|--------------------|
| A               | Big Lens                  | Small Lens            | 2 LEDs          | 1.5V AAA x3pcs                   | Blister            |
| Acrylic         | 10D(3.5X) Ø50mm / 2"      | 76D(20X) Ø18mm / 0.7" | 2 LEDS          | 1.5V AAA x3pcs<br>(not included) | card               |



#### **20V Cordless Drill** 902-492

- 1/2 Inch Keyless Metal Chuck
- Heavy-Duty High Torque
- Two Speed Gear Box (0-400 rpm / 0-1700 rpm)
  Variable Speed Trigger with Forward/Reverse Switch
- · Built-in High Output LED Light Illuminates Work Surface for Increased Visibility
- · Includes 6 Drill Bits, 6 Screwdriver Bits and 1 Bit Extender
- · Includes 20V Lithium-Ion Battery with LED Battery Level Indicators
- Intelligent Charger Prevents Damage to Battery

| Input Power     | 20V                          |
|-----------------|------------------------------|
| No Load Speed   | 0-400 rpm / 0-1700 rpm       |
| Impact Rate     | -                            |
| Torque Settings | 19+1                         |
| Soft Torque     | 221 in-lbs                   |
| Hard Torque     | 310 in-lbs                   |
| Battery Power   | 1.3 Ah Lithium-Ion           |
| Charge Time     | 1 Hour                       |
| Drill Weight    | 3.7 lbs (with case 7.6 lbs.) |





#### **20V Cordless Hammer Drill** 902-493

- 1/2 Inch Keyless Metal Chuck
- · Heavy-Duty High Torque
- Two Speed Gear Box (0-400 rpm / 0-1700 rpm / 0-19200 bpm Impact)
- Variable Speed Trigger with Forward/Reverse Switch
   Built-in High Output LED Light Illuminates Work Surface for Increased Visibility
- Includes 6 Drill Bits, 6 Screwdriver Bits and 1 Bit Extender
- Includes 20V Lithium-Ion Battery with LED Battery Level Indicators
- Intelligent Charger Prevents Damage to Battery

| Input Power     | 20V                          |
|-----------------|------------------------------|
| No Load Speed   | 0-400 rpm / 0-1700 rpm       |
| Impact Rate     | 0-19200 bpm                  |
| Torque Settings | 19+1                         |
| Soft Torque     | 221 in-lbs                   |
| Hard Torque     | 310 in-lbs                   |
| Battery Power   | 1.3 Ah Lithium-Ion           |
| Charge Time     | 1 Hour                       |
| Drill Weight    | 3.7 lbs (with case 7.6 lbs.) |



## 902-494 **20V Cordless Impact Driver**



- Universal 1/4 Inch Hex Drive
- · Quick Release Chuck
- Heavy Duty High Torque Gear Box, 1350 in/lbs of Driving Force
- Three Built-in LED Lights Illuminate Work Surface for Increased Visibility
- Variable Speed Trigger With Forward/Reverse Switch
- Includes 4 Nut Driver Sockets
- Includes 20V Lithium-Ion Battery with LED Battery Level Indicators
- Intelligent Charger Prevents Damage to Battery

| Input Power   | 20V                          |
|---------------|------------------------------|
| No Load Speed | 0-2200 rpm                   |
| Impact Rate   | 0-3200 bpm                   |
| Hard Torque   | 110 ft-lbs                   |
| Hex Drive     | 1/4 Inch                     |
| Battery Power | 1.3 Ah Lithium-lon           |
| Charge Time   | 1 Hour                       |
| Drill Weight  | 3.3 lbs (with case 7.2 lbs.) |

# 902-495 **20V Spare Battery 1.5Ah Li-lon, for Cordless Drill**



902-496 Charger for 20V Cordless Drill

Compatible with 902-492, 902-493, and 902-494.



Replacement charger for 20V cordless drills. Compatible with 902-492, 902-493, and 902-494.



# PT-5203A **Electric Engraver**







## Speed 7100 spm, 9 position stroke setting, LED light





Accessories: 2 solid carbide tips  $\phi$ 3.0×20 mm and 1 hex wrench included







- 9 position stroke setting regulates engraving depth from fine lines to deep grooves.
- Soft TPR handle provides extra comfort and control.
- Comes with LED light allows operating even in dark area.
- Replaceable solid carbide point gives you the power to engrave on different surfaces.
- Light and compact design provides comfortable use for precisionengraving performance.
- Ideal for engraving or decorating metal, glass, stone and more.

| Voltage               | AC 120V 60Hz       |
|-----------------------|--------------------|
| Consumption           | 10W                |
| Speed                 | 7,100 spm          |
| Stroke setting        | 9 Position         |
| Engraver point holder | Ø3.0mm             |
| Standard plug         | AII                |
| Individual packing    | 1.3 Ah Lithium-lon |



## 902-508/902-509 **Sheet Metal Installation Tools**

- •Sheet metal installation tools for drilling and driving 1/4-inch or 5/16-inch head sheet metal screws
- •One piece drill and drive tool with a 1/4-inch quick change shank
- •Retractable 1/8-inch heavy duty high speed drill bit.
- •No loose sockets.

# 902-510 Tool Accessories Kit Tool Accessories Kit Includes: • 3/32-in. Allen wrench and three 10-32 set screws • Includes three 1/8-in.heavy duty high speed drill bits • Handy storage case

| Model No. | Description                           | Length<br>(Inch) | Width<br>(Inch) | Depth<br>(Inch) | Weight (Oz) |
|-----------|---------------------------------------|------------------|-----------------|-----------------|-------------|
| 902-508   | 1/4-in. Sheet Metal Installation Tool | 6                | 1               | 1               | 2.8         |
| 902-509   | 5/16-in. Sheet Metal Installation     | 6                | 1               | 1               | 2.8         |
| 902-510   | Sheet Metal Tool Accessories Kit      | 6                | 1               | 1               | 0.8         |







5/16" Sheet Metal Installation



## **Steel Auger Installer Bits**

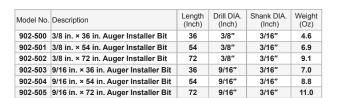
- •Ultra-sharp threads for better pulling power.
- Wire fishing holes in the head and shank.
- Three flat non-slip grip on the chuck end of the flexible spring steel shank.
- · Application: Wood



## 902-506/902-507 Flexible Extender

- Three flat non-slip grip on the chuck end
- · Flexible spring steel shank
- · Wire fishing accommodation holes in the shank
- For use with 3/16" Diameter flex drills





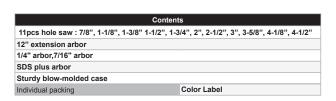


| Model No. | Description                               |    |     | Depth<br>(Inch) | Weight (Oz) |
|-----------|---|----|-----|-----------------|-------------|
| 902-506   | 3/16-in. X 36 in. Installer Bit Extension | 36 | 0.5 | 0.5             | 6.3         |
| 902-507   | 3/16-in. X 54 in. Installer Bit Extension | 54 | 0.5 | 0.5             | 8.2         |



## 500-036 Hole Saw Kit

- 11pcs hole saw
- · Long lasting bi-metal material
- · Very sharp,cut through material fast
- Cut through wood,plaster,mild steel
- 3 different sized arbors
- Triangular shank 1/4" fits hole saws 7/8",1-1/8"
- Triangular shank 7/16" fits hole saws 1-3/8" 1-1/2", 1-3/4", 2",2 1/2", 3", 3-5/8", 4-1/8", 4-1/2"
- SDS plus shank fits hole saws 7/8", 1-1/8"
- Extension Bar: 12" length fits hex shank 7/16" arbor
- Hex Key: 4mm





# MT-7601 Fiber Optic Power Meter













Compatible connecters (LC with optional adaptor)



Fiber optic power test



Additional shock-proof cover & pouch bag

- · Adapts to FC/SC/ST connectors
- Automatically auto power off after 10min of no operation.
- 850nm/ 1300nm/ 1310nm/ 1490nm/ 1550nm/ 1625nm
- · Comfortable LCD backlight display
- · Can store the current laser source as a new reference value

| Specifications                 |   |
|--------------------------------|---|
| Detector Type                  | InGaAs  |
| Optical Connector              | FC/SC/ST& 2.5mm Universal   |
| Calibrated Wavelengths         | 850, 1300, 1310, 1490, 1550,1625                                      |
| Measurement Range              | +6 ~ -70 dBm  |
| Accuracy                       | (1550nm, 1310nm)±0.2dB/ (1490nm, 1625nm)±0.3dB/ (850nm, 1300nm)±0.4dB |
| Power Measurement<br>Linearity | ±2.0%   |
| Display Resolution             | +6~-60dBm:0.01 dB, -60~-70dB<br>m:0.1 dB                              |
| Power Display Units            | dBm, mW, μW, nW   |
| Reference comparison value     | Yes   |
| Modulation Detection           | 270Hz, 1KHz, 2KHz<br>(850, 1300, 1310, 1490, 1550, 1625)              |
| Operation voice prompts        | Yes   |
| Backlight                      | Yes   |
| Automatic Power Off            | 10 min.(Can be cancelled)   |
| Low Battery Warning            | Low battery energy  |
| Body protection                | Yes   |
| Battery Life                   | > 160 hours   |
| Operating Temperature          | -10 ~ +60 °C, < 90%   |
| Storage Temperature            | -20 ~ +70°C, < 90%  |
| Power source                   | AA/LR6 1.5V×2 pcs (not included)                                      |
| Size(mm/inch)                  | 165×80×35 mm / 6.5x3.1x1.4"   |
| Weight                         | 180g (w/o battery)  |
| Optional Accessory             | LC adaptor (5MT-7601-LC)  |
| Individual packing             | Color box   |

# MT-7602 4 In 1 Fiber Optic Power Multimeter













- 2. VISUAL FAULT LOCATOR
- 3. CABLE TESTER
- 4. LED FLASHLIGHT
- · Simple 3 push-button operation.
- Built-in USB connector for battery charger.
- Auto power off for energy saving.





RJ-11/RJ-45 Cable Tester (Remote)



Fiber optic power test



Cable tester



Break in fiber test



LED flashlight

| Specific                  | ations                         |   |
|---------------------------|--------------------------------|---|
|                           | Detector Type                  | InGaAs  |
|                           | Optical Connector              | ST/SC/FC & 2.5mm Universal  |
|                           | Calibrated Wavelengths         | 850/1300/1310/1490/1550/1625 nm   |
|                           | Measurement Range              | +6 ~ -70 dBm  |
| Optical<br>Power<br>Meter | Accuracy                       | (1550nm, 1310nm)±0.2dB/<br>(1490nm, 1625nm)±0.3dB/<br>(850nm, 1300nm)±0.4dB |
|                           | Power Measurement<br>Linearity | ± 0.1 dB  |
|                           | Display Resolution             | ± 0.01 dB   |
|                           | Power Display Units            | dBm, μW, mW   |
|                           | Output Power                   | <1mW  |
|                           | Range                          | 3~5 kM @SM  |
| Visual                    | Connector                      | ST/SC/FC & 2.5mm Universal  |
| Fault                     | Laser Safety Rating            | Class 2   |
| Locator                   | Wavelength                     | 650nm±20nm  |
|                           | Output Modes                   | Continuous (CW) , 2 Hz pulsed   |
|                           | Reverse Battery<br>Protection  | Yes   |
| I AN                      | Connector                      | RJ45 & RJ11   |
| Cable<br>Tester           | Cable                          | UTP LAN cable(8P8C),<br>Telecom cable(6P2C/6P4C/6P6C)                       |
| 100101                    | Measuring Length Max.          | 600 meter   |
| Automat                   | ic Power Off                   | 10 min.(Can be cancelled)   |
| Low Bat                   | tery Warning                   | Low battery energy  |
| Battery I                 | _ife                           | > 160 hours (only OPM)  |
| Power Source              |                                | AA/LR6 1.5V rechargeable battery ×2 (not included)                          |
| Size(mm                   |                                | 105×52×34 mm / 4.1x2.0x1.3"   |
| Optional                  | Accessory                      | LC adaptor (5MT-7601-LC)  |
| Individua                 | al packing                     | Color box   |

## MT-7501 / MT-7505 Fiber Optic Visual Fault Locator

## **1** Sec. Quick Illuminate

To make checking work convenient

## **9** Operation Modes

Locating fault accurately

## **3** Supported Connectors

To give more versatile choice (FC/SC/ST)

- Portable, durable and easy to use.
- Both continuous and flashing modes available.
- · Additional pouch bag for convenient storage.
- Supports 2.5mm(0.1") universal connectors (for FC/SC/ST).
- Dust-proof & crash-proof cap design for laser head.

| Model No.             | MT-7501 MT-7505                                      |                   |  |  |
|-----------------------|--|-------------------|--|--|
| Wavelength            | 650 nm±10 nm   |                   |  |  |
| Output power          | 1 mW   | 5 mW              |  |  |
| Light source          | CLASS II   | CLASS IIIA        |  |  |
| Tested fiber length   | 3-5km/3281-5468yd                                    | 6-7km/6562-7655yd |  |  |
| Power (batteries)     | AA (1.5 V) x 2                                       |                   |  |  |
| Connector             | 2.5mm(0.1") universal connector<br>for FC, ST and SC |                   |  |  |
| OAL(mm/inch)          | 175m   | nm/6.9"           |  |  |
| Operating temperature | -10-   | -55°C             |  |  |
| Storage temperature   | -10~70°C   |                   |  |  |
| Optional accessory    | LC adaptor (5MT-7601-LC)                             |                   |  |  |
| Individual packing    | color box  |                   |  |  |











Compatible connectors (LC with optional adaptor)

Locate break point

Accessory

# FB-C008 / FB-C009 Fiber Optic One Click Cleaner

## 800 cleans for

FC/PC, ST, SC or LC Connectors and Bulkheads

#### **Cleaning system**

rotates 180° for a full sweep

## **Dry cleaning**

cloth eliminates the need for solvents

## **Easy pushing motion**

engages cleaner with audible click sound

## **Extendable nozzle**

makes it easy to reach the recessed connectors

## **Indication Window**

for easy checking

## **FB-C008**

**2.5MM** FIBER OPTIC ONE CLICK CLEANER









FB-C008

# 1.25MM FIBER OPTIC ONE CLICK CLEANER







FB-C009

| Model NO. | Applications                                     | Length          |                  | Clooning consoits | la distalca la a alda a |
|-----------|--|-----------------|------------------|-------------------|-------------------------|
| Model NO. | Applications                                     | Standard        | Extended         | Cleaning capacity | Individual packing      |
| FB-C008   | 2.5 mm FC/PC, ST and SC Connectors and Bulkheads | 175 mm / 6.9"   | 210 mm / 8.3"    | 800 times         | Distance                |
| FB-C009   | 1.25 mm LC Connectors and Bulkheads              | 175 11111 7 6.9 | 210 111111 / 0.3 | out times         | Blister card            |

# FB-C010 Fiber Optic Connector Cleaner

## **Refillable cleaning tape**

Full cleaning for SC , FC, MU, LC, ST, D4, DIN Connectors

- Special non-alcohol high density textile fiber type eliminates the need for solvents.
- Offering over 500 cleans for SC, FC, MU, LC, ST, D4, DIN Connectors.
- Indication see through window for easy checking.
- The refillable cleaning tape:Model No.5FB-C010-RPM.

| High density textile fibers | 500/per box    | For cleaning SC , FC , ST,<br>MU, LC, D4, DIN connector | 115×79×32 mm/<br>4.5x3.1x1.3" | Blister            |
|-----------------------------|----------------|---|-------------------------------|--------------------|
| Material                    | Cleaning times | Applications  | Dimensions                    | Individual packing |



#### **FTTH Fiber Optic Tool Kit** PK-9458



| Contents        |  |  |  |  |
|-----------------|--|--|--|--|
| MT-7602         | 4 in 1 fiber optic power multimeter          |  |  |  |
| FB-C008/FB-C009 | 1.25/2.5mm One click Cleaner                 |  |  |  |
| FB-1688         | Fiber cleaver                                |  |  |  |
| CP-376TR        | 4P/6P/8P Telecom Crimping Tool               |  |  |  |
| CP-FB01         | FTTH Drop Cable Stripper                     |  |  |  |
| 8PK-326         | Fiber Optical Stripper                       |  |  |  |
| 1PK-067DS       | Dual Color Side Cutting Plier (165mm / 6.5") |  |  |  |
| 9SD-207B        | Pro-Soft Screwdriver ( + #2x100mm)           |  |  |  |
| 9SD-201A        | Pro-Soft Screwdriver (                       |  |  |  |
| DK-2043         | Fiber Optic Kevlar Cutter                    |  |  |  |
| DK-2060         | Auto Stop Measuring Tape                     |  |  |  |
| MS-018          | Leak proof dispenser pump bottle             |  |  |  |
| FL-528          | 1W LED Head Light                            |  |  |  |
| PD-2612         | 8 OZ Curved Claw Hammer                      |  |  |  |
| SB-1592         | Component Storage Box                        |  |  |  |
| MS-153A         | Bulb Blower (Ø42mm)                          |  |  |  |
| 8PK-C002        | Foam Swabs Cleaning Kit                      |  |  |  |
| 5MT-7601-LC     | Fiber Optical Power Meter LC Adaptor         |  |  |  |
| 9PK-153         | Brush  |  |  |  |

## MT-7602 4 in 1 fiber optic power multimeter

- Fiber optic power meter
- Visual fault locator
- Cable tester
- · LED flashlight









## FB-C008 / FB-C009 1.25/2.5mm One click cleaner

## 800 cleans for FC/PC, ST, SC or LC Connectors

- · Easy pushing motion
- Extendable nozzle
- 180° rotates cleaning system Indication Window









## FB-1688 Fiber cleaver

## 16 cutting location for each blade. Blade life up to 48000 times



- · Body:Zinc alloy anodic treatment
- Blade:Tungsten
- Blade dimension:Φ20×t2.0mm
- Dimensions: 62x60x56mm
- Cladding Diameter:125 µm • Cleave length: 10~20 mm
- Cleave angle: ≤ 0.8°

#### 4 CP-376TR **4P/6P/8P Telecom Crimping Tool**

- Body: S45C
- · Handle: Black:T.P.R Green:PP
- Application: 8P8C/RJ45, 6P2C/6P4C/6P6C RJ11/RJ12
- · modular plugs, RJ22 4P2C/4P4C handset modular plugs

#### **FTTH Drop Cable Stripper** (5) CP-FB01



- · Body:Zinc alloy steel
- Blade:CR12
- for 3.1x2.0mm drop cable

#### 6 8PK-326 **Fiber Optical Stripper**

· Strips 125 micron glass fiber with 250 micron buffer coating

· Material : S50C





# **Diamond Lapping Film**

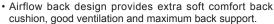
The diamond lapping film consists of precision graded diamond particles resin bonded to a uniform mylar film.



| Model No.     | Specifications  | color       | Individual packing |
|---------------|---|-------------|--------------------|
| FB-6008-0.5D  | Diamond Lapping Film, 0.5µM, Ø5" disk, 100pcs/pack                  | white       | poly bag           |
| FB-6008-1D    | Diamond Lapping Film, 1µM, Ø5"disk, 100pcs/pack                     | gray        | poly bag           |
| FB-6008-3D    | Diamond Lapping Film, 3µM, Ø5" disk, 100pcs/pack                    | purple      | poly bag           |
| FB-6008-6D    | Diamond Lapping Film, 6µM, Ø5" disk, 100pcs/pack                    | brown       | poly bag           |
| FB-6008-9D    | Diamond Lapping Film, 9µM, Ø5" disk, 100pcs/pack                    | blue        | poly bag           |
| FB-6008-30D   | Diamond Lapping Film, 30µM,Ø5"disk, 100pcs/pack                     | green       | poly bag           |
| FB-6008-15SIC | Silicon Carbide Lapping Film, 15µM, Ø5" PSA polis disc, 100pcs/pack | olive green | poly bag           |
| FB-6008-30SIC | Silicon Carbide Lapping Film, 30µM, Ø5" PSA polis disc, 100pcs/pack | olive green | poly bag           |

#### **Multi-Function Business Backpack** ST-3216

## • Decompress • Ventilate • Comfortable • Large capacity



· Perfect ergonomic shoulder strap provides comfort, ventilation and maximum back support.













Earb Lapton









#### **Tool Pouch** ST-5208

- · Various styles for multiple tool usage
- · Different size compartments designed for easy tools classify and storage
- · Made of lightweight and durable polyester provides extra strength and carrying comfort
- Use your own belt or use our ST-5504 belt







| Material               | Loading capacity | Dimension (mm/inch)     | Individual packing |
|------------------------|------------------|-------------------------|--------------------|
| 600DX600D<br>Polyester | 4kg              | 169x290x50/6.7x11.4x2.0 | Poly bag + Hanger  |

#### **Tool Belt with Safety Lock** ST-5504

- · High quality, heavy duty 600 denier polyester for durability
- · Lightweight design with all stress point strengthen by high density webbing
- · Adjustable to meet different users' demands.
- · Use with our ST-5208 pouch



Extra lock design, prevent belt loosing

| Material      | Loading capacity | Dimension (mm/inch)                    | Individual packing |
|---------------|------------------|--|--------------------|
| Polypropylene | 15kg             | Width: 50mm/2.0"<br>Length: 1600mm/63" | Poly bag + Hanger  |
|               |                  |  |                    |

#### **Compartment Storage Box** 902-497

· Adjustable compartments for multiple uses



#### MS-153C **Bulb Blower**



| Material | Nozzle<br>material | Nozzle size (mm/inch)      | Air valve<br>material            | Pump capacity | OAL.<br>(mm/inch)          | Individual packing |
|----------|--------------------|----------------------------|----------------------------------|---------------|----------------------------|--------------------|
| PVC      | ABS                | Ø 5.0×30mm/<br>Ø 0.2"x1.2" | copper<br>with chrome<br>plating | 110 ml        | Ø 56×110mm<br>/ Ø2.2"x5.5" | Blister<br>card    |

#### MS-161 **Heavy-Duty Suction Cup**

MS-161 comes with ABS handle and TPR suction cap, features comfortable grip and high suction capacity up to 11kgs. Easy to remove the glass-sheathed displays.





Size: Ø 58mm x 72mm • Max. Load: 11kgs (24.3lbs)

| Material Handle suction cup |     | Suction Capability | Dimension(mm/inch)              | Individual pooking |
|-----------------------------|-----|--------------------|---------------------------------|--------------------|
|                             |     | Suction Capability | Dimension(mm/incn)              | Individual packing |
| ABS                         | TPR | 11kgs (24.3lbs)    | Ø 58mm x 72mm/<br>Ø 2.3" x 2.8" | Blister card       |

## 902-461 Triple Thread Chaser Set

- · Comes with high speed steel blade and PVC handle.
- · Quickly forms new threads, re-forms burred threads, and cleans out plaster obstruction.
- · Taps three hole sizes and each tap size rethreads to next larger size if threads are stripped
- · Applicable to iron, aluminum, zinc alloy, copper, fiber PCB, bakelite, plastic.



| Material                  |        | Hardness                | Torque                | T   |
|---------------------------|--------|-------------------------|-----------------------|---|
| blade                     | Handle | Hardness                | Torque                | Tap sizes                                 |
| High speed steel (H.S.S.) | PVC    | HRC 64°±2°              | ≥23kg-cm,<br>≥70kg-cm | 6-32, 8-32, 10-32<br>10-24, 12-24, 1/4-20 |
| Handle size               |        | Blade size              | OAL.(mm/inch)         | Individual packing                        |
| Ø20×80mm                  |        | Ø4.8×45mm/<br>Ø6.3×45mm | 125 / 5               | Blister card                              |

## MS-3209 **3-in-1F-Type Install/Remove Tool**

MS-3209 is a useful 3 way tool for extracting and insertion the F connector convenient in hard to reach area and flaring the braid to make cable insertion onto the connector easier. Ideal for CATV, SATV installation and removing job.





Flaring





| Material                        | OAL (( | Individual packing |              |
|---------------------------------|--------|--------------------|--------------|
| Body Handle                     |        |                    |              |
| Carbon steel with nickel plated | PVC    | 188 / 7.4          | Blister card |

## MS-018 Leak Proof Dispenser 902-529 Anti-Static Liquid **Pump Bottle**

- · Portable leak proof construction.
- Bottle scale indication.
- · Anti dumping of cone design.
- · No chemical reaction Polypropylene material.
- · Perfect for fiber cleaning, nail treatment and more.



| Material      | Capacity | Individual packing |
|---------------|----------|--------------------|
| Polypropylene | 180ml    | Poly bag           |

# **Dispenser Bottle**

- High Density Polyethylene (HDPE) durAstatic bottles are ESD Safe
- Long lasting dissipative properties - Rtt: 10E4 to < 1 x 10E11 ohms tested
- Stainless steel bottle cap with a transparent pad





| High Der | nsity | 180ml (6oz) | Poly bag           |
|----------|-------|-------------|--------------------|
| Descript | ion   | Capacity    | Individual packing |

## 902-511 **Storage Strap**

· Industrial strength & weather resistant · Holds up to 150 lbs. · Width and length 3x23 inch.

Demo only (Hose not included)

| Material | Individual packing |
|----------|--------------------|
| Nylon    | Hanger             |

#### Mini Vacuum & Blowing Cleaner MS-C002





High speed 25000 rpm and easy-to-use handy vacuum cleaner with attachments for vacuuming / blowing / brushing off dirt and dust.

| Speed      | Speed Torque Output |             | Power                      | Size(mm/inch)                   | Individual packing |  |
|------------|---------------------|-------------|----------------------------|---------------------------------|--------------------|--|
| 25,000 rpm | 26 g-cm             | 5.15W/1.83A | DC 6.0V<br>(AA 1.5V×4 pcs) | Ø 45×130×90 /<br>Ø 18.0x5.1x3.5 | color box          |  |









**Blowing cleaner** 

Sweeping brush

#### **PD-160 16" Digital LCD Angle Level**

- Easily readable LCD Display shows the exact angle at once.
- · Automatically shuts off after 5 minutes.
- · Comes with backlight allowing use even in dark area.
- · Data hold function helps user record the reading .
- Mechanical locking function.



| Material                | Measuring angle range                | Digital accuracy        | Measuring precision            | Auto shut off 5 min |                    |
|-------------------------|--------------------------------------|-------------------------|--------------------------------|---------------------|--------------------|
| Aluminum<br>Alloy steel | 0 to 225 degrees                     | 0.1 degree              | ±0.5 degree                    |                     |                    |
| Backlight               | Dual spirit(bubble) level indicators | Size of the LCD display | Battery Type                   | Length<br>(mm/inch) | Individual packing |
| Yes                     | Vertical /<br>Horizontal             | 50x19mm                 | DC 9V (6F22)<br>(not included) | 400/15.6            | Color<br>box       |









#### **CATV/CCTV Basic Tool Kit** PK-5011









This is a complete tool bundle along with F connectors to install or remove existing or additional cable TV, satellite outlets or cable modems. It includes adjustable waterproof compression tool, coaxial cable stripper/cutter and 4pcs F connectors to make your work smart and easy.



| Contents  |  |  |
|---|--|--|
| CP-316 Adjustable Compression Tool (as page 10)       |  |  |
| CP-507 Coaxial Cable Stripper/Cutter (as page 13)     |  |  |
| CN-710FCA2-BU 4pcs F connectors for RG6 quad coaxial  |  |  |
| 903-003 Carry case (160×120×45 mm / 6.3x4.7x1.8 inch) |  |  |
| Individual nacking Blister card                       |  |  |

## PK-2006

## **LAN Basic Tool Kit**









This is a complete tool bundle to make RJ45 or RJ11/RJ12 patch cords for phone and computer. It includes 6P/8P parallel action modular crimper and stripper to make your job well done.



| Contents  |              |  |  |
|---|--------------|--|--|
| CP-333 Modular crimping tool (as page 10)             |              |  |  |
| 6PK-501 Wire stripping tool                           |              |  |  |
| 903-003 Carry case (160×120×45 mm / 6.3x4.7x1.8 inch) |              |  |  |
| Individual packing                                    | Blister card |  |  |
|   |              |  |  |

#### PK-9112 **Pro Tech Tool Kit**









are special for Apple products.







The TS3.5/TS4.5 Torx Plus® sockets are for Nintendo, SONY, SEGA products.

Ideal for opening of tablets, notebooks, electronic device cases and most branded video games such as Apple, HTC, Samsung, Sony, Microsoft, Nintendo, Sega and more.

| Contents                              |  |  |  |
|---------------------------------------|--|--|--|
|                                       | Prying Paddle (30.5×30.5×30.5mm / 1.2x1.2x1.2")  |  |  |
|                                       | Opening Lever(POM)(88.7mm / 3.5")  |  |  |
|                                       | Opening Lever(POM)(84.4mm / 3.3")  |  |  |
|                                       | Suction Cup Ø36mm  |  |  |
| Opening and prying tools              | Point-Blade Solder Aid Tools (155mm/6.1")  |  |  |
| and prying tools                      | Spudger Solder Aid Tools (140mm/5.5")  |  |  |
|                                       | Fork-Blade Solder Aid Tools (173mm/6.8")   |  |  |
|                                       | Double-end Metal Spudger (185mm/7.3")  |  |  |
|                                       | Metal spudger tool (123×12mm/4.8x0.5")   |  |  |
|                                       | super fine tip straight (120.5 mm/4.7")  |  |  |
| Tweezers                              | fine tip curved (120.5 mm/4.7")  |  |  |
|                                       | super fine tip straight (120.5 mm/4.7")  |  |  |
| Static protection tools               | Wrist Strap 10FT, to avoid sensitive electronic components, from electrostatic damage. |  |  |
| Ruler 6",Precision                    | Knife,SD-9828 58pcs Driver Kit   |  |  |
| Tool bag (233×150×55 mm/9.2x6.0x2.2") |  |  |  |

Individual packing: Color Box

#### **8 PC Apprentice's Tool Set** 902-516



902-516 Includes 6 essential premium hand tools (plus pouch & belt) to make your job easy and

- Pliers & Screwdrivers exceeds ASME/ANSI specifications for maximum performance.
- Three pcs pliers:Precision machined and forged from steel. Hardened cutting edges offer greater durability and strength.
- · Two pcs screwdrivers:

Precision machined tips for optimal fastener contact, high grade rust resistant chrome plating, black phosphate coated tips to prevent surface shipping.

• One pc AWG 20-10 Wire Stripper: Machined stripping stations with positive stop forprecise applications

| Contents                       |                              |  |  |
|--------------------------------|------------------------------|--|--|
| 8" Long Nosed Pliers           | 8" Diagonal Cutting Pliers   |  |  |
| 9" Heavy Duty Lineman's Pliers | AWG 20-10 Wire Stripper      |  |  |
| 1/4" x 4" Slotted Screwdriver  | #2 x 4" Phillips Screwdriver |  |  |
| Tool Pouch                     | Tool Belt with Safety Lock   |  |  |

Individual packing: Blister card

#### 14 PC Electrician's Tool Pouch Kit 500-038



500-038 includes heavy duty, high quality tools, perfect for the professional or apprentice electrician

|        | Contents                                      |
|--------|---|
| Long   | g-Nosed Pliers w/side Cutter                  |
| Heav   | y Duty Lineman's Plier                        |
| 9.5"   | Crimper Plier                                 |
| Elect  | rician's Knife                                |
| 25' Ta | ape Measure                                   |
| Groo   | ve Joint Plier                                |
|        | wdrivers x 4<br>'4"x4",1/4"x8" + #2x4", #2x8" |
| AWG    | 16,14,12,10,8 Precision Wire Stripper         |
| 3/16"  | x 7.8" Cable Ties (100pcs)                    |
| Rece   | ptacle Tester- GFCI outlets                   |
| 19mr   | n x 5M Electrical Tape                        |
| Dura   | ble Black Pouch & Belt                        |

Individual packing: Blister card

### **15 PC 1000V Insulated Single Open End Wrench Set** PK-2811M







| Model No. | Material | Width across flats(mm) | Head width<br>Max. (mm) | Head thickness<br>Max.(mm) | OAL.<br>±2(mm) |
|-----------|----------|------------------------|-------------------------|----------------------------|----------------|
| HW-V106B  |          | 6                      | 23                      | 7.2                        | 90             |
| HW-V107B  | 1        | 7                      | 25                      | 7.2                        | 90             |
| HW-V108B  |          | 8                      | 27                      | 7.7                        | 100            |
| HW-V109B  |          | 9                      | 29                      | 7.7                        | 100            |
| HW-V110B  |          | 10                     | 31                      | 8.2                        | 110            |
| HW-V111B  |          | 11                     | 34                      | 8.7                        | 110            |
| HW-V112B  |          | 12                     | 36                      | 8.7                        | 130            |
| HW-V113B  | 50CrV    | 13                     | 39                      | 10.5                       | 135            |
| HW-V114B  |          | 14                     | 40                      | 10.5                       | 145            |
| HW-V115B  |          | 15                     | 42                      | 11.5                       | 150            |
| HW-V116B  |          | 16                     | 43                      | 11.5                       | 160            |
| HW-V117B  |          | 17                     | 47                      | 12.5                       | 160            |
| HW-V119B  |          | 19                     | 53                      | 14.0                       | 175            |
| HW-V122B  |          | 22                     | 58                      | 14.0                       | 195            |
| HW-V124B  |          | 24                     | 62                      | 16.5                       | 225            |



600D tool roll bag: 305x635 mm / 12x25"



Individual packing: Color Sleeve

#### 15 PC 1000V Insulated Single Box End Wrench Set **PK-2812M**



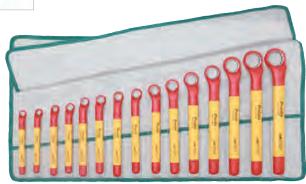




| Model No.                        | Material | Width<br>across flats<br>(mm) | Head<br>widthMax.<br>(mm) | Head<br>thickness<br>Max. (mm) | Depth of<br>crank<br>(mm) | OAL.<br>±2 (mm) |
|----------------------------------|----------|-------------------------------|---------------------------|--------------------------------|---------------------------|-----------------|
| HW-V206B                         |          | 6                             | 16.0                      | 6.8                            | 25                        | 150             |
| HW-V207B                         |          | 7                             | 18.0                      | 7.0                            | 25                        | 150             |
| HW-V208B                         |          | 8                             | 19.0                      | 7.4                            | 27                        | 155             |
| HW-V209B                         |          | 9                             | 20.0                      | 8.3                            | 27                        | 155             |
| HW-V210B                         |          | 10                            | 21.0                      | 8.8                            | 30                        | 170             |
| HW-V211B                         |          | 11                            | 22.5                      | 8.9                            | 30                        | 170             |
| HW-V212B                         |          | 12                            | 22.5                      | 9.8                            | 32                        | 190             |
| HW-V213B                         |          | 13                            | 26.5                      | 10.0                           | 32                        | 190             |
| HW-V214B                         |          | 14                            | 28.0                      | 11.0                           | 34                        | 205             |
| HW-V215B                         | F00-1/   | 15                            | 29.0                      | 11.1                           | 34                        | 205             |
| HW-V216B                         | 50CrV    | 16                            | 31.0                      | 11.5                           | 36                        | 215             |
| HW-V217B                         |          | 17                            | 32.0                      | 12.3                           | 36                        | 215             |
| HW-V218B                         |          | 18                            | 35.0                      | 12.7                           | 37                        | 230             |
| HW-V219B                         |          | 19                            | 36.0                      | 13.2                           | 37                        | 230             |
| HW-V221B                         |          | 21                            | 39.0                      | 13.9                           | 41                        | 245             |
| HW-V222B                         |          | 22                            | 41.0                      | 13.9                           | 41                        | 245             |
| HW-V224B                         |          | 24                            | 44.0                      | 16.0                           | 42                        | 265             |
| HW-V227B                         |          | 27                            | 48.0                      | 16.4                           | 42                        | 290             |
| HW-V230B                         |          | 30                            | 52.0                      | 16.8                           | 45                        | 310             |
| HW-V232B                         |          | 32                            | 55.0                      | 17.5                           | 45                        | 310             |
| Individual packing: Color Sleeve |          |                               |                           |                                |                           |                 |



600D tool roll bag: 330x780 mm / 13x30"



#### **15 PC 1000V Insulated Metric Roll Tool Kit** PK-2813M







Ideal for power plant, HVAC, automotive, military, aircraft field applications and more.

|             | Contents   |
|-------------|--|
| PM-911      | Insulated combination plier (195mm/7.7")                 |
| PM-917      | Insulated side cutter(165mm/6.5")                        |
| PM-910      | Insulated wire stripping plier (160mm / 6.3")            |
| PM-918      | Insulated long nose plier(200mm/7.9")                    |
| SR-V206     | Insulated cable cutter 150mm (22mm²)                     |
| HW-V110B    | Insulated single open end wrench 10mm                    |
| HW-V113B    | Insulated single open end wrench 13mm                    |
| HW-V114B    | Insulated single open end wrench 14mm                    |
| HW-V117B    | Insulated single open end wrench 17mm                    |
| HW-V119B    | Insulated single open end wrench 19mm                    |
| SD-800-S2.5 | Insulated screwdriver(-2.5x75)                           |
| SD-800-S4.0 | Insulated screwdriver (-4.0x100)                         |
| SD-800-S5.5 | Insulated screwdriver (-5.5x125)                         |
| SD-800-S6.5 | Insulated screwdriver (-6.5x150)                         |
| PD-V003A    | Insulated straight blade cable knife (50×180mm/2.0x7.1") |
| 9Z-PK2813   | Tool roll bag(368x743mm/15.1x29.2")                      |

Individual packing: Color Sleeve



600D tool roll bag: 368x743 mm/14.5x29.2"



#### **1000V Insulated Standard Tool Kit** PK-2809M



PK-2809M tool kit is equipped with a range of 26pcs 1000V insulated single open end wrenches, screwdrivers, pliers and cutters, T handle and 1/2" sockets in a durable tool box. Ideal for power plant, HVAC, automotive, military, aircraft field applications and more

| Contents    |  |  |
|-------------|--|--|
| PM-911      | Insulated combination plier (195mm/7.7")                 |  |
| PM-917      | Insulated side cutter(165mm/6.5")                        |  |
| HW-V110B    | Insulated single open end wrench 10mm                    |  |
| HW-V111B    | Insulated single open end wrench 11mm                    |  |
| HW-V112B    | Insulated single open end wrench 12mm                    |  |
| HW-V113B    | Insulated single open end wrench 13mm                    |  |
| HW-V114B    | Insulated single open end wrench 14mm                    |  |
| HW-V117B    | Insulated single open end wrench 17mm                    |  |
| HW-V119B    | Insulated single open end wrench 19mm                    |  |
| SD-800-S2.5 | Insulated screwdriver(-2.5×75)                           |  |
| SD-800-S3.0 | Insulated screwdriver(-3.0×100)                          |  |
| SD-800-S4.0 | Insulated screwdriver (-4.0×100)                         |  |
| SD-800-S5.5 | Insulated screwdriver (-5.5×125)                         |  |
| SD-800-P0   | ⊕ Insulated screwdriver (#0×60)                          |  |
| SD-800-P1   | ⊕ Insulated screwdriver (#1×80)                          |  |
| SD-800-P2   | ⊕ Insulated screwdriver (#2×100)                         |  |
| SK-V752     | Insulated 1/2" drive T handle (200mm/7.9")               |  |
| SK-V410B    | Insulated 1/2" drive socket 10mm                         |  |
| SK-V411B    | Insulated 1/2" drive socket 11mm                         |  |
| SK-V412B    | Insulated 1/2" drive socket 12mm                         |  |
| SK-V413B    | Insulated 1/2" drive socket 13mm                         |  |
| SK-V414B    | Insulated 1/2" drive socket 14mm                         |  |
| SK-V417B    | Insulated 1/2" drive socket 17mm                         |  |
| SK-V419B    | Insulated 1/2" drive socket 19mm                         |  |
| PD-V003A    | Insulated straight blade cable knife (50×180mm/2.0x7.1") |  |
| PD-V003B    | Insulated hook blade cable knife (28×155mm/1.1x6.1")     |  |
| 9SB-3935    | Plastic tool box (390×350×90mm/15.3x13.8x3.5")           |  |

Individual packing: Color Sleeve









#### **1000V Insulated Universal Tool Kit** PK-2836M













PK-2836M tool kit is equipped with a range of 41pcs 1000V insulated single open end wrenches, single box end wrenches, adjustable wrenches, screwdrivers, knife, pliers and cutters, T handle, 1/2" sockets and type in a durable aluminum frame tool case. Ideal for power plant, HVAC, automotive, military, aircraft field applications and more.

|              | Contents   |
|--------------|--|
| PM-911       | Insulated combination plier (195mm/7.7")                                   |
| PM-917       | Insulated side cutter(165mm/6.5")  |
| PM-910       | Insulated wire stripping plier (160mm / 6.3")                              |
| SR-V210      | Insulated cable cutter 250mm (80mm²)                                       |
| HW-V110B     | Insulated single open end wrench 10mm                                      |
| HW-V113B     | Insulated single open end wrench 13mm                                      |
| HW-V114B     | Insulated single open end wrench 14mm                                      |
| HW-V117B     | Insulated single open end wrench 17mm                                      |
| HW-V119B     | Insulated single open end wrench 19mm                                      |
| HW-V122B     | Insulated single open end wrench 22mm                                      |
| HW-V210B     | Insulated single box end wrench 10mm                                       |
| HW-V213B     | Insulated single box end wrench 13mm                                       |
| HW-V214B     | Insulated single box end wrench 14mm                                       |
| HW-V217B     | Insulated single box end wrench 17mm                                       |
| HW-V219B     | Insulated single box end wrench 19mm                                       |
| HW-V222B     | Insulated single box end wrench 22mm                                       |
| SD-800-S2.5  | Insulated screwdriver(-2.5×75)   |
| SD-800-S4.0  | Insulated screwdriver (-4.0×100)   |
| SD-800-S5.5  | Insulated screwdriver (-5.5×125)   |
| SD-800-S6.5  | Insulated screwdriver (-6.5×150)   |
| SD-800-P1    | Insulated screwdriver (#1×80)  |
| SD-800-P2    | Insulated screwdriver (#2×100)   |
| SK-V752      | Insulated 1/2" drive T handle (200mm/7.9")                                 |
| HW-V710      | Insulated 1/2" drive reverse flat ratchet handle (200mm/7.9")              |
| SK-V851      | Insulated 1/2" drive extension bar (125mm/5")                              |
| SK-V852      | Insulated 1/2" drive extension bar (250mm/9.8")                            |
| SK-V410B     | Insulated 1/2" drive socket 10mm   |
| SK-V411B     | Insulated 1/2" drive socket 11mm   |
| SK-V412B     | Insulated 1/2" drive socket 12mm   |
| SK-V413B     | Insulated 1/2" drive socket 13mm   |
| SK-V414B     | Insulated 1/2" drive socket 14mm   |
| SK-V416B     | Insulated 1/2" drive socket 16mm   |
| SK-V417B     | Insulated 1/2" drive socket 17mm   |
| SK-V418B     | Insulated 1/2" drive socket 18mm   |
| SK-V419B     | Insulated 1/2" drive socket 19mm   |
| SK-V422B     | Insulated 1/2" drive socket 22mm   |
| SK-V424B     | Insulated 1/2" drive socket 24mm   |
| PD-V003A     | Insulated straight blade cable knife (50×180mm/2.0x7.1")                   |
| SR-V336      | Insulated electricians scissors (160mm/6.3")                               |
| MS-V001      | Insulated tape( 20mm×10M / 0.8"x32.8')                                     |
| HW-V610      | Insulated 10" adjustable wrench  |
| TC-736       | Expert & Elegant aluminum frame tool case (486x325x159mm / 19.1x12.8x6.3") |
| 9PK-2836M-TP | Top pallet for PK-2836M  |
| 9PK-2836M-P  | Pallet for PK-2836M  |

|              | Page |
|--------------|------|
| 500-036      | 23   |
| 500-038      | 30   |
| 5FB-C010-RPM | 25   |
| 5MT-7601-LC  | 24   |
| 5MT-7601-LC  | 24   |
| 6PK-301N     | 9    |
| 800-093      | 18   |
| 800-094      | 18   |
| 800-095      | 18   |
| 800-096      | 18   |
| 800-097      | 18   |
| 800-098      | 18   |
| 800-099      | 18   |
| 800-100      | 18   |
| 800-101      | 18   |
| 800-102      | 18   |
| 800-103      | 18   |
| 800-104      | 18   |
| 800-105      | 18   |
| 800-106      | 18   |
| 800-107      | 18   |
| 800-108      | 18   |
| 800-109      | 18   |
| 800-110      | 18   |
| 800-111      | 18   |
| 800-112      | 18   |
| 800-113      | 18   |
| 800-152      | 18   |
| 800-153      | 18   |
| 800-154      | 18   |
| 8PK-CT016    | 11   |
| 902-231      | 18   |
| 902-232      | 18   |
| 902-233      | 18   |
| 902-234      | 18   |
| 902-235      | 18   |
| 902-236      | 18   |
| 902-237      | 18   |
| 902-461      | 28   |
| 902-491      | 12   |
|              |      |

| Model .No     | Page |
|---------------|------|
| 902-491-BLADE | 12   |
| 902-492       | 21   |
| 902-493       | 21   |
| 902-494       | 22   |
| 902-495       | 22   |
| 902-496       | 22   |
| 902-497       | 27   |
| 902-498       | 9    |
| 902-499       | 12   |
| 902-500       | 23   |
| 902-501       | 23   |
| 902-502       | 23   |
| 902-503       | 23   |
| 902-504       | 23   |
| 902-505       | 23   |
| 902-506       | 23   |
| 902-507       | 23   |
| 902-508       | 23   |
| 902-509       | 23   |
| 902-510       | 23   |
| 902-511       | 28   |
| 902-512       | 14   |
| 902-513       | 14   |
| 902-514       | 8    |
| 902-515       | 8    |
| 902-516       | 30   |
| 902-519       | 9    |
| 902-520       | 9    |
| 902-529       | 28   |
| CP-148        | 12   |
| CP-151B       | 11   |
| CP-316        | 10   |
| CP-319        | 12   |
| CP-333        | 10   |
| CP-353        | 11   |
| CP-386        | 11   |
| CP-418        | 10   |
| CP-507        | 13   |
| CP-509        | 13   |
| CP-512        | 13   |

| Model .No     | Page |
|---------------|------|
| CP-521        | 13   |
| DP-366J       | 14   |
| FB-6008-0.5D  | 26   |
| FB-6008-15SIC | 26   |
| FB-6008-1D    | 26   |
| FB-6008-30D   | 26   |
| FB-6008-30SIC | 26   |
| FB-6008-3D    | 26   |
| FB-6008-6D    | 26   |
| FB-6008-9D    | 26   |
| FB-C008       | 25   |
| FB-C009       | 25   |
| FB-C010       | 25   |
| GS-23K        | 14   |
| HW-T21-40200  | 19   |
| HW-T21-60340  | 19   |
| HW-T41-315    | 19   |
| HW-T41-525    | 19   |
| HW-T716-3     | 19   |
| HW-T83-20100  | 19   |
| MA-023        | 20   |
| MA-1004A      | 20   |
| MA-1006A      | 20   |
| MA-1601A      | 20   |
| MS-018        | 28   |
| MS-153C       | 28   |
| MS-161        | 28   |
| MS-3176       | 17   |
| MS-3209       | 28   |
| MS-C002       | 29   |
| MT-1508       | 1    |
| MT-4611       | 5    |
| MT-4612       | 5    |
| MT-4615       | 5    |
| MT-4616       | 4    |
| MT-4617       | 4    |
| MT-4618       | 4    |
| MT-5211       | 1    |
| MT-7028       | 3    |
| MT-7071       | 2    |
|               |      |

| Model .No    | Page |
|--------------|------|
| MT-7501      | 25   |
| MT-7505      | 25   |
| MT-7601      | 24   |
| MT-7602      | 24   |
| NT-8540      | 6    |
| NT-8560      | 6    |
| NT-8580      | 6    |
| PD-160       | 29   |
| PK-2006      | 29   |
| PK-2809M     | 32   |
| PK-2811M     | 31   |
| PK-2812M     | 31   |
| PK-2813M     | 31   |
| PK-2836M     | 32   |
| PK-5011      | 29   |
| PK-9112      | 30   |
| PK-9458      | 26   |
| PM-396K      | 8    |
| PM-760       | 7    |
| PM-761       | 7    |
| PM-763       | 7    |
| PM-764       | 7    |
| PM-765       | 7    |
| PM-771       | 7    |
| PM-773       | 7    |
| PM-774       | 7    |
| PM-808       | 8    |
| PT-5202A     | 22   |
| SD-3502      | 17   |
| SD-9817      | 16   |
| SD-9828      | 17   |
| SD-T635-0112 | 16   |
| SD-T635-16   | 16   |
| SD-T635-510  | 16   |
| SD-T636      | 15   |
| SD-T860      | 15   |
| ST-3216      | 27   |
| ST-5208      | 27   |
| ST-5504      | 27   |
|              |      |





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