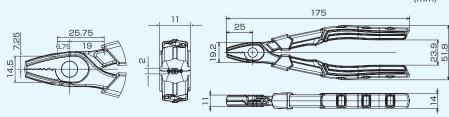
| SCREW REMOVAL Screw Removal Pliers, Rapid Screw Extractor, etc. | 2 | SCREW REMOVAL |
|--|----|------------------------|
| SCISSORS Combination Scissors, Cable Shears, etc. | 10 | SCISSORS |
| NIPPERS Micro Nippers, Parallel Nippers, Diagonal Nippers, Plastic Nippers, etc. | 15 | NIPPERS |
| PLIERS Miniature Pliers, Long Nose Pliers, Combination Pliers, E-Ring Pliers, etc. | 20 | PLIERS |
| CRIMPING AND STRIPPING Handy Crimp Tool, Universal Crimping Pliers, Pin Extractor, Wire Strippers, etc. | 24 | CRIMPING STRIPPING |
| TWEEZERS Tweezers, Titanium Tweezers, ESD Plastic-Tipped Tweezers, etc. | 32 | TWEEZERS |
| SCREWDRIVERS Master Grip Drivers, Pro-Use Drivers, Stubby Drivers, Offset Ratchet Drivers, etc. | 37 | SCREW DRIVERS |
| SPECIAL DRIVERS Mobile Phone Drivers, Nut Drivers, Hex Drivers, Ceramic Alignment Screwdrivers, etc. | 42 | SPECIAL DRIVERS |
| WRENCHES Smart Monkey Wrench, Ball Point Hex Wrench Set, Socket Wrench Set, etc. | 50 | WRENCHES |
| CUTTING AND PROCESSING Taper Reamer, Vise, Jeweller's Saw, Jet Black Files, etc. | 55 | CUTTING PROCESSING |
| SETS AND CASES Maintenance Kits, Tool Kits, Electronics Kits, Aluminium Cases, Parts Boxes, etc. | 59 | SETS CASES |
| SOLDERING EQUIPMENT Soldering Irons, Kotelyzers, Desoldering Tool, Solder Sucker, Digital Multimeter, Loupes, etc. | 69 | SOLDERING EQUIPMENT |
| ESD PRODUCTS AND CHEMICALS Anti-Static Service Kit, Dust-Free Gloves, Conductive Colored Mat, Rust Remover, etc. | 80 | ESD CHEMICALS |

Anti-Static Service Kit, Dust-Free Gloves, Conductive Colored Mat, Rust Remover, etc.



Screw Removal









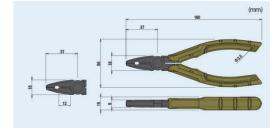








PZ-32 SCREW REMOVAL PLIERS JS Vertical serrations bite and grip a screw head without slippage. Also good for Truss head screw. *Truss: Lower-profile dome head Serrated side teeth lined consecutively, inter-meshed with each other Black oxide finish to increase rust-resistance! Owing to T-shaped forging handles, the handle sleeve will not twist or slip off during heavy duty use. PZM-30 Stress MASK FOR PZ-32



Material

Handles:TPR

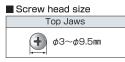
Body:Carbon Steel HRC60±2

| Inter-m | neshed, |
|---------|---------|
| never | let go. |

Strap hole goes through the steel handle.







PZ-64.65

Size

160mm

Item No.

PZ-32

- Vertically serrated jaws bite a screw head while locking it securely.
- It helps to optimize your hand strength for twisting off stubborn screws.
- Also good for Truss head screw. *Truss: Lower-profile dome head
- Quick release mechanism, just open the handles to unlock the gripping jaws

Hardness Cutting Capacity

φ1.2mm

(copper wire)

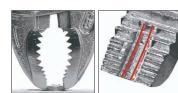
Wgt.

125g

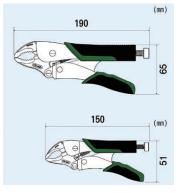
Safety Hole

φ3.5mm

Rubber handles provide you with a comfortable grip.







| Item No. | Max.Jaws | Cutting Capacity | 0.A. Length | Hardness (Jaws) | Wgt. | Material |
|----------|----------|-------------------------|----------------|--------------------|------|-------------|
| PZ-64 | 38mm | Steel wire ϕ 1.6mm | 150mm | | 205g | Body:Cr-Mo |
| PZ-65 | 48mm | Steel wire \$\$2.3mm | 190mm | HRC57±3 | 400g | Handles:TPR |

| | 11-12-111-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | |
|------------|---|--|
| A DATE AND | | |
| | | |

Screw head size Item No. Top Jaws PZ-64 ¢3∼¢9.5mm Ŧ PZ-65 ÷. $\phi 7 \sim \phi 12$ mm

SCREW REMOVAL LOCKING PLIERS



SCREW EMERGENCY TOOL KIT

SCREW REMOVAL

KS-34

The all-in-one solution for your screw troubles!

- Screw Eater + Rapid Screw Extractor with 3 bits
- Lightweight and stylish bundle case
- *Turn to page 08 for more information on the Rapid Screw Extractor





Elastic band

Compact and lightweight!

| Contents | | | | | |
|----------|------------------------------|---------|--|--|--|
| Item No. | Description | | | | |
| PZ-22 | Screw Eater | | | | |
| DBZ-50G | Handle Grip for DBZ | (Green) | | | |
| DBZ-51 | ⊕#2 (Press & Twist type bit) | | | | |
| DBZ-52 | ⊕#2 (Strike & Turn type bit) | | | | |
| DBZ-57 | ⊕#1 (Press & Twist type bit) | | | | |
| | Bundle case | | | | |
| | | | | | |
| Item No. | Case Size (When unfold) | Wgt. | | | |
| KS-34 | 380×220mm | 394g | | | |

PDS-01

Screw Removal Pliers GT with Mask + Rapid Screw Extractor with 5 bits in a compact heavy duty case *Turn to page 08 for more information on the Rapid Screw Extractor



Item No. Case Size Wgt. PDS-01 300×63×200mm 896g

SCREW REMOVAL TOOL KIT

| Contents | | | | | |
|----------|--------------------------------------|--|--|--|--|
| Item No. | Description | | | | |
| PZ-58 | Screw Removal Pliers GT | | | | |
| PZM-58 | Pliers Mask for PZ-58 | | | | |
| DBZ-50B | Handle Grip For DBZ (Black) | | | | |
| DBZ-51 | \oplus #2 (Press & Twist type bit) | | | | |
| DBZ-52 | ⊕#2 (Strike & Turn type bit) | | | | |
| DBZ-53 | Hex socket screw(.2.5-3.0mm) | | | | |
| DBZ-54 | Hex socket screw(.4.0mm) | | | | |
| DBZ-56 | Hex socket screw(.: 5.0mm) | | | | |
| | Bit holder | | | | |

PGT-03 GT PACK(PAULOWNIA BOX)

The perfect gift for tool lovers!

• The Screw Removal Pliers GT and the Combination Scissors GT in a beautiful box made of paulownia wood.



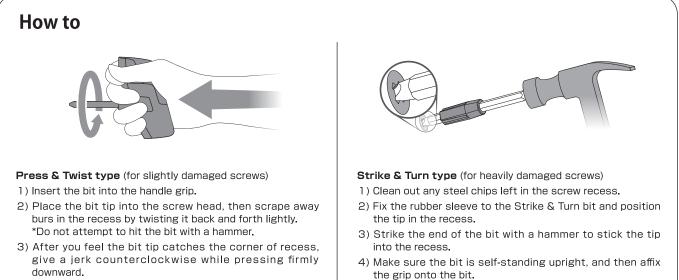
| Contents | 6 | | | |
|-------------------------------|-----------------------|--------|--|--|
| Item No. | Description | | | |
| PZ-58 Screw Removal Pliers GT | | | | |
| PZM-58 | Pliers Mask for PZ-58 | | | |
| PH-55 Combination Scissors GT | | ors GT | | |
| | | | | |
| Item No. | Case Size | Wgt | | |
| PGT-03 | 252×132×32mm 372 | | | |



08



| Item No. | Material | Width | Wgt. |
|----------|------------------|-------|------|
| DBZ-50B | Grip: ABS, Nylon | 100mm | 83g |



*Do not hit the grip with a hammer

5)Give a jerk counterclockwise while pressing firmly downward.

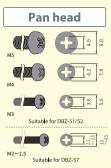
DBZ-51~65

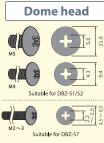
New REPLACEMENT AND OPTIONAL BITS FOR DBZ-60G

| | Press & T | wist type | | ę | Strike & Tur | n type | SCREW |
|----------------------------|--|---------------------------------------|--|--------------------------------------|------------------|---|----------|
| F | ■ DBZ-51 | 062-51 (880) | 3100.00099007 1422 | | DBZ-52 | | |
| Sligh dama Philips s | ged | RAZOOKA DRZ-57 GIEH | SULABALI +> | Heavily damaged Philips screws | €)2 | DRI-52 General International Viz | |
| | DBZ-62 | 2-62 кулком | Marcana Control Contro | | DBZ-53 | | |
| .C | DBZ-63 | No. 10034 | and the second | 0 | ©25-30 DBZ-54 | BAZOOKA DR2-53 DEGURIULISHADI YA | CRIMPING |
| Sligh dama Hex sc | ged | C 849 8034 | APT COLOR | Heavily damaged Hex screws | eu ■DBZ-56 | BAZDOKA BBZ-54 MAMULALARYAN +++ | |
| | Wigen of States | 5. 69 4008 | Relation | | | | SCREW |
| tem No. DBZ-51 | Screw type/size ⊕#2 | Bit type Press & Twist type | Length | Wgt. PRI | | | |
|)BZ-52 | Hex socket screw | Strike & Turn type Strike & Turn type | | | | | |
| BZ-54 | (●:2.5-3.0mm) Hex socket screw (●:4.0mm) | Strike & Turn type | | 26g | | | |
| BZ-56 | Hex socket screw (•:5.0mm) | Strike & Turn type | | | | | |
| BZ-57 | ⊕#1 | Press & Twist type | 105mm | | | | |
|)BZ-62 | Hex socket screw (●:2.0mm) | Press & Twist type | | 25g | | Sect M | |
|)BZ-63 | Hex socket screw | Press & Twist type | | | | | |
|)BZ-64 | Hex socket screw (•:4.0mm) | Press & Twist type | | 27g | | | |
|)BZ-65 | Hex socket screw (●:5.0mm) | Press & Twist type | | | | DBZ-62~65 can be used | |
| | | | | | | with your power driver | La v |
| | Countersunk | Pan head | | Dome he | ad | Hex | 4 |
| | | | 9.6 | | 0.0 | | |

Screw ty

| Countersunk | | | | | | |
|---------------------------|-------------|--|--|--|--|--|
| MS | 6.9 3.3 | | | | | |
| M4 | | | | | | |
| M3 Suitable fo | r DBZ-51/52 | | | | | |
|)) | | | | | | |
| | | | | | | |
| M2~3 Suitab l e | for DBZ-57 | | | | | |





•

Counter sunk

Button head

(Unit in mm)

Cap bo**l**t





PH-57•PH-57R•PH-57G•PH-57Y

ENGINEER

U-shaped blade

Ideal for power supply cord, coaxiale cable, rope, etc.

Micro-serrations

Hold the object without slippage such as Aramid fiber, plastic plate,

etc.

Coaxial cable (Conductor ¢1.0mm)

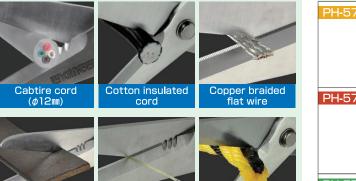
PP Plate

1.2mm thick

TPR cushioned handles

Comfort gripping

Rope *\$*10mm



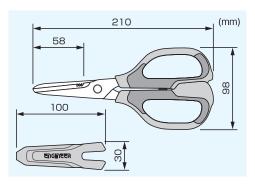
Kevlar Aramid fiber

 $\%\,\text{Do}$ not apply Copper or Steel wire to the Micro-serration to keep the life of main blades. *Heat-treated or specially-hardened wire is not applicable for cutting. It may damage the blades.

Leather belt

5mm thick

Cutting capacity (Reference only)



| Item No. | Size | Hardness | Material | Wgt. | |
|----------|---------------|----------|------------------------|--------------------|------|
| PH-57 | | | Blades:Steinless Steel | | |
| PH-57R | | | | 100 | |
| PH-57G | 210mm HRC56±2 | | HRC56±2 | Handles: ABS & TPR | 136g |
| PH-57Y | | | Cap:ABS | | |

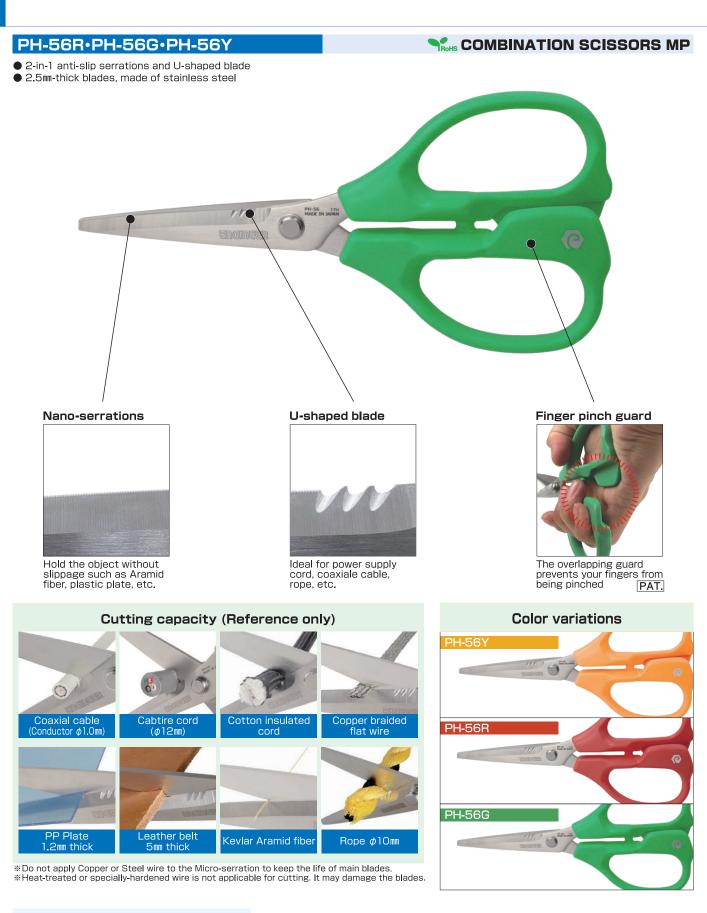
Finger pinch guard

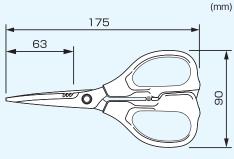


The overlapping guard prevents your fingers from being pinched **PAT**.

Color variations ENGINEER PH-57R







| Item No. | Size | Hardness | Material | Wgt. |
|----------|-------|----------|-------------------------|------|
| PH-56R | | | Blades: Stainless Steel | |
| PH-56G | 175mm | HRC56+2 | Handles: ABS | 75g |
| PH-56Y | | | Handles: ABS | |

Second Scissors 2-in-1 Unique cutting blade Noto

- Trimming various objects which you could not cut with ordinary scissors such as nylon fiber, cabtire cord, etc.
- Fine and flush cut in finish even compared with cut with cutting pliers
- Ideal for professional electricians as well as for hobby use.



| | TROHS COIVI | BINA HON S | 0133043 |
|-----------------------------|---|---|------------------------------------|
| Notched Blade | | U-type Blade | |
| prev | ched blades yent the object in slipping | | J-type notches hold cord firmly |
| Copper braided flat wire | uminum sheet | Copper wire | Insulated cord |
| PH-50 Notched Blade C | utting Capacity | PH-50 U-type Blade | Cutting Capacity |
| Nylon/Kevlar fiber | Various | Copper wire | φ1.5mm max. |
| Copper braided wire | types | Cabtire cord | Various |
| Aluminum/Copper sheet | 0.5mm max. | Cotton braided core | d types |
| Plastic plate / PET | 1.0mm max. | Cotton insulated cor | |
| | | **Do not use U-type blade fo Copper sheet, which may | |

| Item No. | Size | Hardness | Material | Wgt. |
|----------|-------|----------|--------------------------------------|------|
| PH-50 | 170mm | HRC54±2 | Handles:PE Blades:Stainless Steel | 58g |

COMBINATION SCISSORS GT

PH-55

Micro-serration

NEER PH-55 MADE IN JA

Holds the object

without slipping

Flat Blade

of paper

PH-50



Handy cutting blades for copper or steel wire 160 (mm) Convenient to open carton boxes with ease **Cutting Capacity (Reference)** Micro-serration Wire Cutter 8 Rope Cabtire cord Cotton insulated Copper wire 8 φ10mm φ1.6mm φ9mm *d*8mm Leather belt CD.Card Carpet Wire Item No. Size Hardness Material Wgt. Handles:PBT PH-55 160mm HRC56±2 120g Blades:Stainless Steel 4mm thick 1.2mm thick 5mm thick φ1.2mm

*Do not apply Copper or Steel wire to the Micro-serration to keep the life of main blades. *Heat-treated or specially-hardened wire is not applicable for cutting. It may damage the blades.

SCISSORS

PH-33-34 Ideal for delicate cutting for PCB related work. PH-33 (straight)/PH-34 (curved) Length: 145mm Material: Stainless Steel Serrated shears for anti-slipping

PK-50•51

- Makes a fine cut surface owing to the curved blades
- High leverage for easy operation





PK-51



Foremost Blades Wire cutter suitable for copper wires

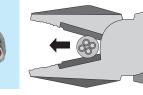
Main Blade (Rearmost) Curved blades suitable for insulated cables, make a fine cut surface. Flat cables, Coaxial cables, Power supply cords, LAN cables, etc. are also applicable.

Cable Shears



The curved blades can hold a cable securely and the shears mechanism enables you to make a cut surface finely.





The pressure given from flat blades crushes a cable or it may slip sideways.

| Itom No | | | C | utting Capaci [,] | ty | 10/ |
|----------|-------|--------------------------------|--------------------------|----------------------------|-------------|------|
| Item No. | Size | Hardness Vinyl insulated Cable | | Flat Cable | Wgt. | |
| PK-50 | 164mm | HRC58±4 | 9mm outside diameter | 22 m ¹ | 2.0mm×2core | 150g |
| PK-51 | 212mm | HRC58±4 | 11mm outside diameter | 38 mÅ | 2.0mm×3core | 250g |

Comparison of Cut Surface









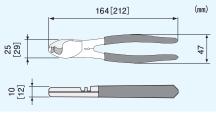


Flat Cable



Coaxial Cable





Nippers



NK-15

NK-16

NK-25

NK-26

NK-36

NN-45

NN-46

NN-56

Diagonal Nippers

Diagonal Nippers

Diagonal Nippers

Diagonal Nippers

Diagonal Nippers

Slant Edge Nippers

Slant Edge Nippers

Slant Edge Nippers

125

150

125

150

150

125

150

150

2.6

З

2.6

З

3.2

2

26

2.6

2

2

2

2

2

2

2



1.5

1.9

15

1.9

2

1.2

1.4

1.4

18

18

18

18

18

19

19

19

Stripping hole Ø1.2 & 1.6mm

Stripping hole Ø1.2 & 1.6mm

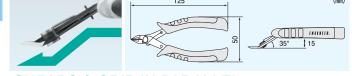
Vinvl isulated cable Ø1.6mm

Stripping hole Ø1.2 & 1.6mm

Stripping hole Ø1.2 & 1.6mm



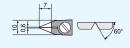
- Cutting capacity : Copper wire ϕ 0.6mm Light weight of 45g only



SHEARS & GRIP IN PARALLEL



ENGINEER NZ-13





NZ-12 : Normal Blade Enables you to make flush cut of a lead easily so as to prevent resist stripping or solder crack NZ-12 on the circuit board

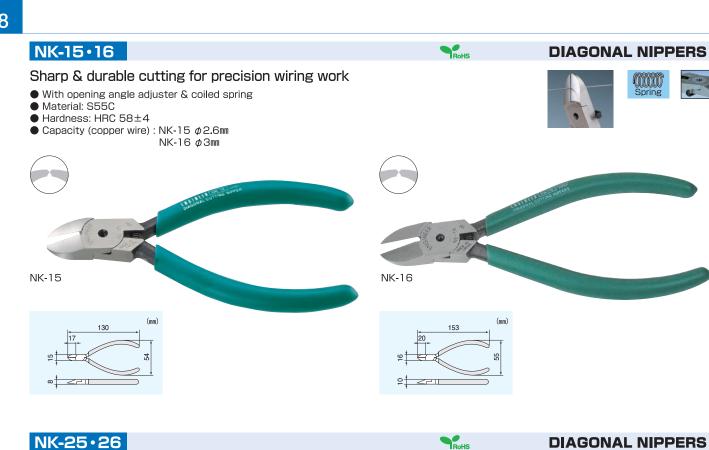
99



NZ-13 : Reverse Blade Enables you to cut IC lead in front of user with the best view while holding nippers vertically against circuit board

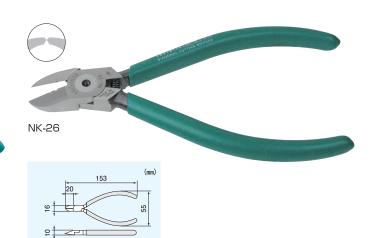
17

NIPPERS



Precision cutter with wire stripper

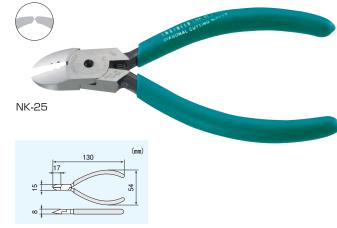
- With opening angle adjuster & coiled spring
- Stripping holes: ϕ 1.2 & 1.6mm
- Material: S55C
- Hardness: HRC 58±4
- Capacity (copper wire) : NK-25 ϕ 2.6mm NK-26 Ø3mm



HEAVY DUTY DIAGONAL NIPPERS

Spring

ശ്ര



NK-36

Heavy-duty durable cutter

- Material: S58C
- Hardness: HRC 60±4
- Capacity: copper wire ϕ 3.2mm

155

21

; | Zei

5



RoHS

NN-45•46 SLANT EDGE NIPPERS

Professional type for sharp & easy use

- Stripping holes: ϕ 1.2 & 1.6mm
- Material: S58C
- Hardness: HRC 58±4

NN-56 **SLANT EDGE NIPPERS** (IS) Sharp cutting & easy handling • Material : S58C

A STALLA

Hardness : HRC 58±4
Capacity : copper wire φ2.6mm

ശ

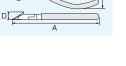


(mm)

| NP-05 115 123 52 11 7 12 11 | Item No. | Size | Α | В | С | D | Е | F |
|-----------------------------|----------|------|-----|----|----|---|----|----|
| | NP-05 | 115 | 123 | 52 | 11 | 7 | 12 | 11 |



| | | | | | | | (mm) |
|----------|------|-----|----|----|----|----|------------------------|
| Item No. | Size | Α | В | С | D | Е | Capacity |
| NN-45 | 125 | 133 | 51 | 14 | 10 | 23 | copper wire \$\phi 2mm |
| NN-46 | 150 | 159 | 51 | 16 | 11 | 26 | copper wire \$\$2.6m |



Tapered and slender head

for work in restricted area

With side stopper & coiled spring

Ideal for cutting and trimming various gates of

• ESD-Safe handles made of Elastomer (TPR)

• Also capable of cutting thin copper wire (ϕ 0.8mm max.)

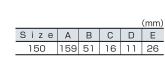
2m

cię

injection molding

Material: S58C Hardness: HRC 59±3

NP-05



Spr

NP-03.04

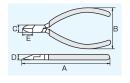
4000000

Spring

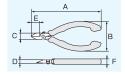
- Ideal for cutting plastic mold gates & burns
- With opening angle adjuster & coiled spring
- Material: S58C
- Hardness: HRC 58±4



| | I RELATED INTERN |
|-------|------------------|
| | |
| NP-04 | |



| | | | | | | (mm) |
|----------|------|-----|----|----|----|------|
| Item No. | Size | А | В | С | D | E |
| NP-03 | 125 | 130 | 54 | 14 | 8 | 17 |
| NP-04 | 150 | 152 | 55 | 16 | 10 | 20 |
| | | | _ | _ | _ | |



NP-05

| Ja: | 100 | |
|-----|-----|--|
| 6 | 7 | |





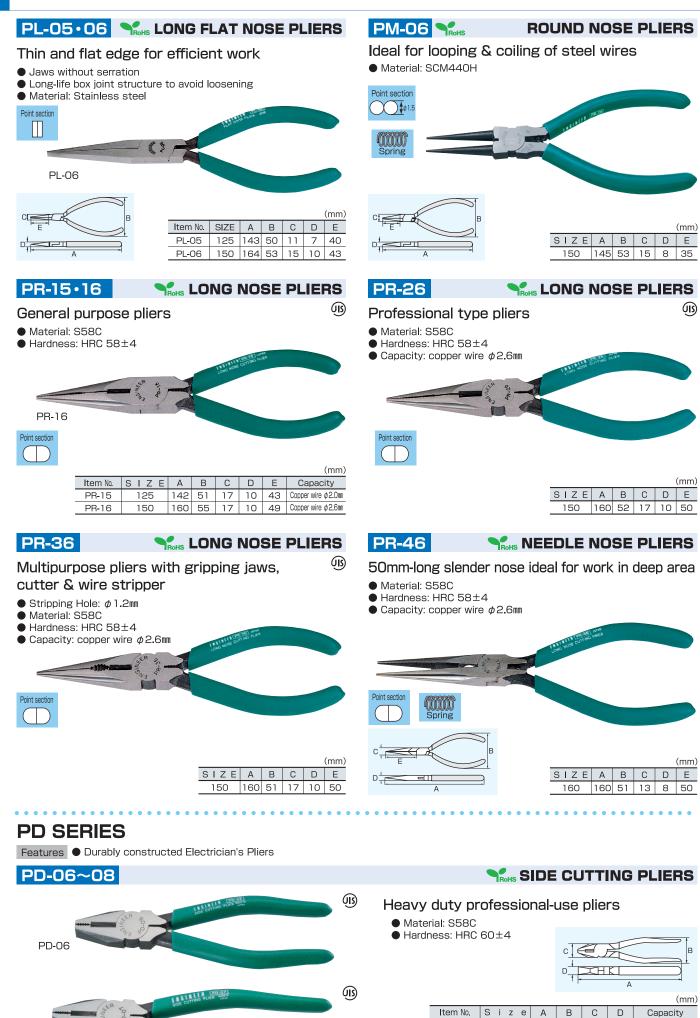
⊐‡ F

PS-04

125

132 50 11 8 29 11

21



PD-06 steel wire ϕ 1.6 PD-07 steel wire ϕ 1.8 PD-08 14 steel wire $\phi 2.0$



23

PC & PW SERIES

Features • Slip Joint Pliers and Groove Joint Pliers for maintenance and general purpose



Crimping and Stripping

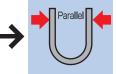




1. Measure the width of conductor barrel with a caliper while both barrel wings are in parallel.



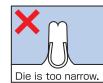


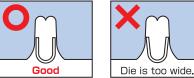


Wings opened

Measure the width

2. Select the die width which is close to the width of barrel wings measured.





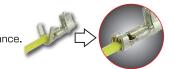
For example: 1.5mm measured → Select 1.6mm dies.

Turn to page 26 for Crimping Pliers **→**

25

CONNECTOR CRIMPING PLIERS

- Features Our line-up offers you very precise and perfect crimp finish of open-barrel contacts.
 - ENGINEER original joint-screw prevents the joint from being loose and realizes easy maintenance
 Pliers made of S55C high carbon steel for durability
 - Pliers made of S55C high carbon steel for durability
 With locking latch and coiled spring, Light weight for fatigue-free work



PA-09 Polic **MICRO CONNECTOR PLIERS** Crimp AWG #32 to #20 wires in micro connectors of different makers!! ● 4 different crimping dies, 1.0, 1.4, 1.6 & 1.9mm(W) Makes it possible to crimp 1.25 to 2.5mm pitch connector pin (Narrow pitch) D-sub connector contacts also adaptable Typical terminals applicable • Weight: 145 g AWG32 wire in S. microscopic die Size 1.0 S Specifications Die Width (mm) Die Height Die Thickness (mm) (mm) Wires applicable (Reference only) Item No. ϕ mm mm AWG (conductor) 1.0 0.50 0.20~0.32 0.031~0.08 #32~#28 1.7 1.4 0.55 0.32~0.51 0.08~0.21 #28~#24 818 \$ PA-09 1.6 0.8 #24~#22 0.51~0.64 0.21~0.33 Width 2.0 🕽 🕻 Height 12 Dies 1.9 0.9 0.51~0.81 0.21~0.52 #24~#20

PA-20

Crimp AWG #28 to #18 wires in micro connectors of different makers!!

- 4 different crimping dies, 1.6, 1.9, 2.0 & 2.3mm(W)
- Makes it possible to crimp 2.5 to 5mm pitch connector pin (Universal type)
- Weight: 145 g





| 111361163(331) | (in Series(331) | 111361163(331) |
|----------------|---|------------------|
| 5 | In State | Amont. |
| EL Series(JST) | 3191 Series(Molex) | MATE-N-LOK(Tyco) |
| As A as | Constraint of the second se | And me |

Specifications

| Item No. | Die Width | Die Height | Die Thickness | Wires applicable (Reference only) | | | |
|-----------|-----------|------------|---------------|-----------------------------------|-----------|-----------------|--|
| ntennito. | (mm) | (mm) | (mm) | ϕ mm | mm | AWG (conductor) | |
| | 1.6 | 0.7 | 2.5 | 0.32~0.64 | 0.08~0.33 | #28~#22 | |
| PA-20 | 1.9 | 0.8 | | 0.51~0.81 | 0.21~0.52 | #24~#20 | |
| FA-20 | 2.0 | 0.9 | | 0.64~1.02 | 0.33~0.82 | #22~#18 | |
| | 2.3 | 1.0 | | 0.81~1.02 | 0.52~0.82 | #20~#18 | |

PA-21

- Precise crimpers for wide range of open-barrel contacts including long barrel wing type
- 4 different crimping dies, 1.6, 1.9, 2.2 & 2.5mm(W)
- Crimping AWG #26~18 contacts of different connector makers



| | oplicoblo | also adaptable. | | | | | | | |
|----------------|------------------------------|----------------------------|--|--|--|--|--|--|--|
| | Typical terminals applicable | | | | | | | | |
| XH Series(JST) | NH Series(JST) | VH Series(JST) | | | | | | | |
| Frank | Parat | the state | | | | | | | |
| PA Series(JST) | Mini Fit(Molex) | Universal MATE-N-LOK(Tyco) | | | | | | | |
| Tradients | in the second | A second second | | | | | | | |

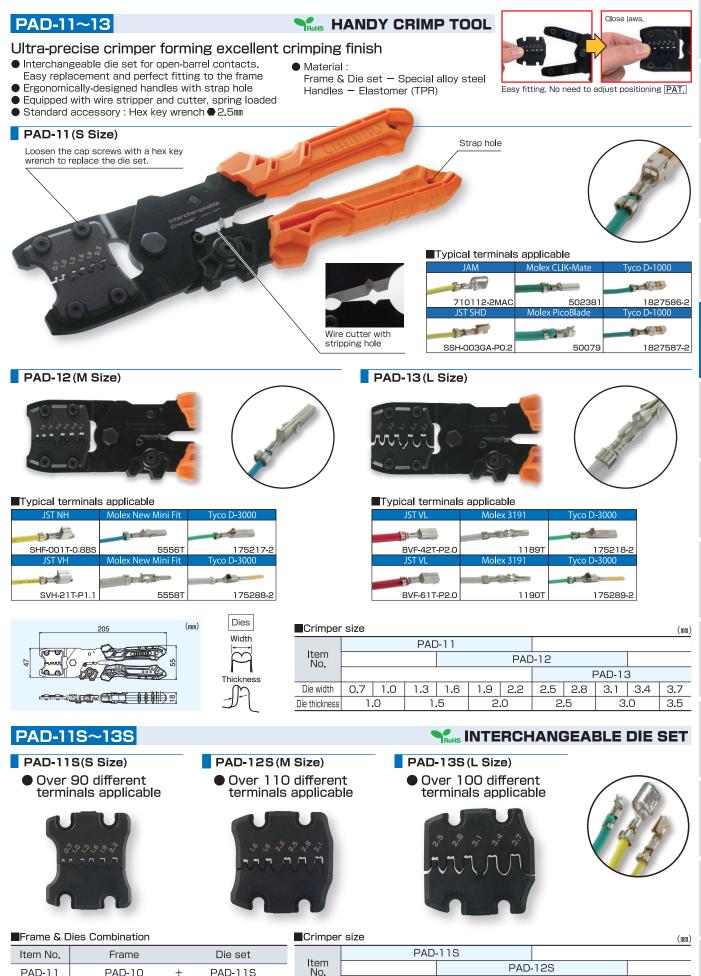
Specifications

| opecifications | | | | | | | |
|-------------------------|-----------|------|--|-----------|-----------|-----------------|--|
| Item No. | Die Width | | Die Height Die Thickness Wires applicable (Reference | | | rence only) | |
| item No. | (mm) | (mm) | (mm) | ϕ mm | mm | AWG (conductor) | |
| | 1.6 | 0.8 | | 0.41~0.51 | 0.13~0.21 | #26~#24 | |
| PA-21 1.9 2.2 2.5 | 1.9 | 1.0 | | 0.41~0.64 | 0.13~0.33 | #26~#22 | |
| | 1.2 | 1.0 | 0.51~0.81 | 0.21~0.52 | #24~#20 | | |
| | 2.5 | 1.4 | | 0.64~1.02 | 0.33~0.82 | #22~#18 | |



Long wing type is

PRECISE CRIMPING SERIES - Tool Frame and Die Set



PAD-12

PAD-13

PAD-10

PAD-10

+

+

PAD-12S

PAD-13S

Die width

Die thickness

0.7

1.0

1.0

1.3 1.6

1.5

1.9 2.2

2.0

2.5

2.5

2.8

27

CRIMPING STRIPPING

ESD CHEMICALS

3.7

3.5

PAD-13S

3.1 3.4

3.0

PAD-02 MANDY CRIMP TOOL COMPLETE SET **PA-11** • Comes with 3 different interchangeable Die Sets Super-Light weight wire stripper • Tool Frame & Parts Boxes in a stylish carrying case Accurate wire stripping with single squeeze action. Fatigue-free owing to spring action Made of durable plastic ENGINEER@ With strip gauge Length of wire is adjustable using strip gauge. Set Content Description Item No. C D (mm) PAD-11 Handy Crimp Tool PAD-12S Interchangeable Die Set (M Size) PAD-13S Interchangeable Die Set (L Size) 2.5mm Hex. key wrench Size applicable (R) Connectable parts box (6 pcs.) Hole diameter mm 0.5 1.6 2.0 1.2 Ext. size:20×29×16mm Stranded wire(AWG) 26 18 16 14 Carrying case (HDPE) Solid wire AWG 24 14 16 12 (mm) (mm) Item No. A B Wgt.(g) Item No. Case Size Wgt.(g) С D 300×200×63mm PAD-02 PA-11 | 165 | 128 | 20 30 910g approx. В 140 **PA-30** PA-91~93

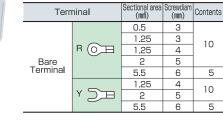
- One-Squeeze operation for easy stripping of applicable flat cables, 12mm width max.
- With stopper for adjustment of stripping length, 2~20mm.
- Applicable sectional area: AWG20~10



Popular crimping terminals and connectors in compact plastic case.

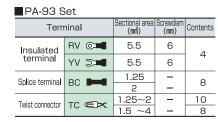
PA-91 Set

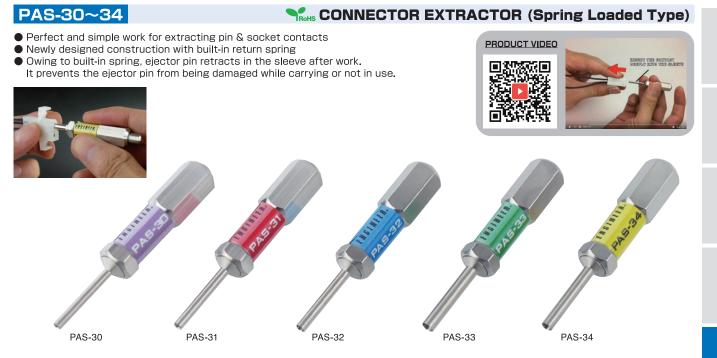






| PA-92 S | Set | | | | |
|-----------|-------|------------------------|----------|----|--|
| Tern | ninal | Sectional area (៣៣) | Contents | | |
| | | 1.25 | 3 | | |
| | RV 💽 | 1.25 | 4 | | |
| Insulated | | 2 | 5 | 10 | |
| terminal | | 1.25 | 3 | 10 | |
| | YV DI | 1.25 | 4 | | |
| | | 2 | 5 | | |





| Ejector Pin | Return Spring | (mm) |
|-------------|---------------|------|
| Sleeve | | _ |
| | | |
| 21 | | ⊐Y″ |
| | 62 | |

| | | | (mm) |
|----------|-------------------------|----------------------------------|-----------|
| Item No. | Inner Diam of Sleeve | Outer Diam of S l eeve | Material |
| PAS-30 | 1.9 | 2.5 | |
| PAS-31 | 2.1 | 2.7 | SUS303 |
| PAS-32 | 2.4 | 2.9 | Stainless |
| PAS-33 | 3.1 | 3.6 | Steel |
| PAS-34 | 2.7 | 3.2 | |

Reference for extracting typical connectors

| Brand/Connector | Pin Housing | Socket Housing |
|--------------------------------|-------------|----------------|
| "TE" Mini Universal Mate-N-Lok | PAS-30 | SS-30 |
| "TE" Universal Mate-N-Lok | PAS-34 | PAS-34 |
| "TE" Commercial Mate-N-Lok | PAS-32 | PAS-34 |
| "JST" ML & EL Series | PAS-31 | PAS-31 |
| "JST" L & LL Series | PAS-33 | PAS-33 |
| "MOLEX" 1545 Series | PAS-33 | PAS-34 |
| "MOLEX" 1625 Series | PAS-30 | PAS-31 |
| "MOLEX" 3191 Series | PAS-33 | PAS-33 |
| | | |

SS-30~34

Perfect for extracting both pin and socket terminals.

• The ejector rod inside the sleeve enables you to knock out both male & female pin easily from socket terminal.











| Brand/Connector | Pin Housing | Socket Housing | | | | | | |
|---|-------------|----------------|--|--|--|--|--|--|
| "TYCO" Mini Universal Mate-N-Lok | SS-30 | SS-30 | | | | | | |
| "TYCO" Universal Mate-N-Lok | SS-34 | SS-34 | | | | | | |
| "TYCO" Commercial Mate-N-Lok | SS-32 | SS-34 | | | | | | |
| "JST" ML & EL Series | SS-31 | SS-31 | | | | | | |
| "JST"L & LL Series | SS-33 | SS-33 | | | | | | |
| "MOLEX" 1545 Series | SS-33 | SS-34 | | | | | | |
| "MOLEX" 1625 Series | SS-30 | SS-31 | | | | | | |
| "MOLEX" 3191 Series | SS-33 | SS-33 | | | | | | |
| "MOLEX" 8980 Series (4-pin connector in PC) | SS-32 | SS-34 | | | | | | |

(Shape sizes)

| Sleeve | Ejector |
|--------|----------|
| | (Stroke) |

| | | | | (| mm) |
|----------|----------------------------------|--|---|--|--|
| Item No. | Outer Diam of Sleeve | Inner Diam of Sleeve | А | в | С |
| SS-30 | 2.5 | 1.9 | | | |
| SS-31 | 2.7 | 2.1 | | | |
| SS-32 | 2.9 | 2.4 | 12 | 64 | 21 |
| SS-33 | 3.6 | 3.1 | | | |
| SS-34 | 3.2 | 2.7 | | | |
| | SS-30 SS-31 SS-32 SS-33 | Item No. of Sleeve SS-30 2.5 SS-31 2.7 SS-32 2.9 SS-33 3.6 | Item Null of Sleeve of Sleeve SS-30 2.5 1.9 SS-31 2.7 2.1 SS-32 2.9 2.4 SS-33 3.6 3.1 | Item Nu. of Sleeve of Sleeve A SS-30 2.5 1.9 | Item No. Outer Diam of Sleeve Inner Diam of Sleeve A B SS-30 2.5 1.9 |

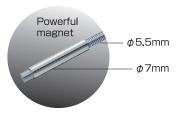
29

RS NIPPERS SCISSO

PH-01~04 Serrated ratchet allows quick disconnect & reconnect for temporary connection. Ideal for assembling, soldering & precision clamping work. Material: Stainless Steel 3-position Snap Lock (mm) Item No. Point shape Length PH-03 PH-04 PH-01 Straight 125 PH-02 Curved PH-03 Straight Clipping 150 Holding PH-04 Curved component oil hose SS-21-22 Ideal for inserting, removing and adjusting coil springs of electronic components or precision instruments Suitable for removing connector leads, aligning leads of resistor or condenser and testing arrangements of wires 3mm diam.X215 O.A. length SS-22 SS-21 SS-21 SS-22 MAGNETIC PICK-UP TOOL **TP-33-34** TP-35+36 Ideal for part retrieval in hard to reach areas • 4 spring jaws pick up small and ball bearing type parts easily and firmly. Suitable for assembly work of precision instruments. Flexible shaft conforms to any shape Alnico magnet tip Ideal for pick-up work even in hard to reach areas.



| | | (mm) |
|----------|---------|-------------|
| Item No. | Housing | O.A. Length |
| TP-33 | ¢6.2 | 250 |
| TP-34 | φ6.2 | 350 |



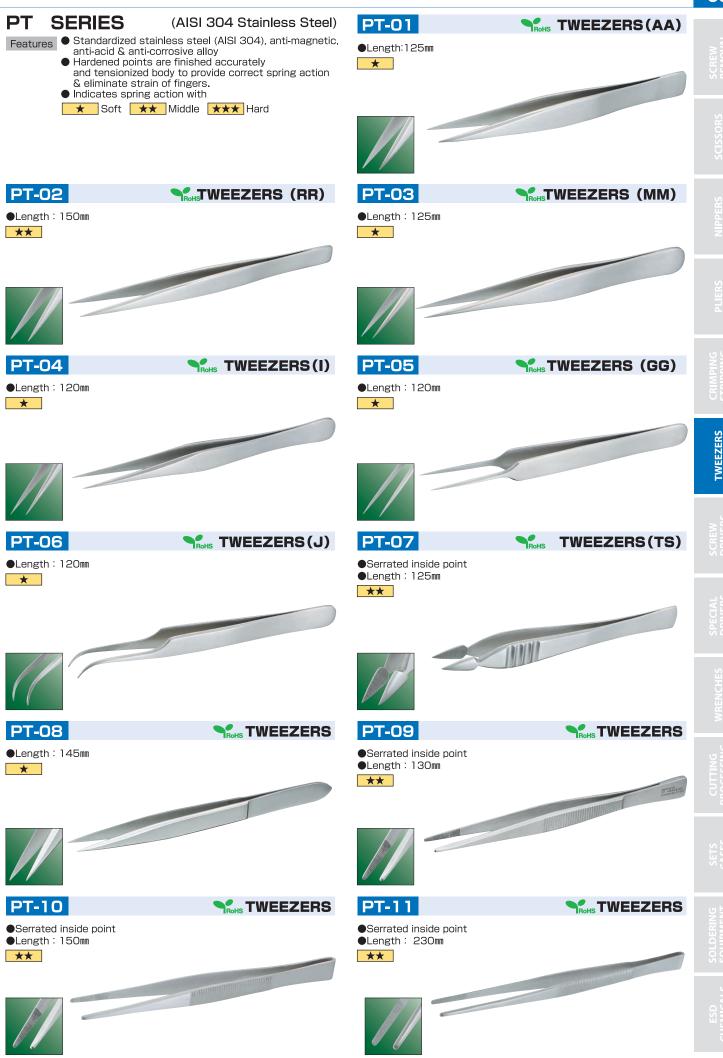
| | (mm) |
|----------|-------------|
| Item No. | O.A. Length |
| TP-35 | 410 |
| TP-36 | 525 |

| PA-0 | 5•0 | 6. | 07• | 14 | | | | | | | | | | |
|--|--------------------|-----------------------|-------------|---|--|----------|-------------|------------------|--------------|---------------------|---------|-----------------|--------------|--|
|) Giving Made c) Oil-resi | of carbo | on ste | el allo | by with | nstand | ling ab | | - | arp ar | nd pre | cise e | dge | | Environment-friendly Elastomer handle |
| PA-14 | 0.3 0.4 0.5 | nicro | o-thir | ו wire | 9 | | EL-Sec. | In C. C. Barrans | | ••• | | NIRE B PA-14 | I HOSE MANN | with strap hole |
| | | | | 8.0. 10. 10. 10. 10. 10. 10. 10. 10. 10. | 28 0.15 24 0.98 24 0.98 | HIN BRIN | pr | events | s the j | riginal joint fr | om be | -Screv | Ap St | tem No. Wgt. PA-14 134g plicable Sizes Table ripper's Hole Diam(mm) 0.25 0.3 0.4 0.5 0.65 0.8 0.95 a WG Stranded 34 32 28~30 26 24 22~24 20~22 conversion stranded 34 32 28~30 26 24 22~24 20~22 |
| PA-O: | 5 for | thin | wire | | | <u>}</u> | | ainten | | er you | easy | | - | Solid wire 32 30 28 26 24 22 20 () Reference tem No. Wgt. PA-05 166g |
| rimping l re Termina .5~2.0 | al Connect | or Terminal - 1.25 |] | O C | 02 1 1. 14 1 14 1 14 1 14 1 14 1 14 1 14 | 2017 | | | | Environ Elastor | | | Ap | A W G conversion Stranded 28 26 24 22 20 115 1.45 Solid wire 28 26 24 22 20 18 16 |
| PA-06 | B for | thin | wire | | | | • | | | Environ | | | Ap | (mm) VBt. Value Value Value 50 plicable Sizes Table 175 175 175 Pripper's Hole Diam(mm) 0.4 0.5 0.65 0.8 0.95 1.15 1.45 A WG conversion Stranded 28 26 24 22~24 20~22 20 118 16 |
| PA-07 | 7 for [.] | thick | wire | | | | | 191 S. 191 | E BTRICE | Elastor | ner har | Idle | Appli | () Reference |
| | | | 140 144 C | 0 | | | | | | Environ Elastor | | | Ap | tem No. Wgt. PA-07 134g plicable Sizes Table ripper's Hole Diam(mm) 0.8 0.95 1.15 1.45 1.8 2.1 2.5 A WG conversion Solid wire 22 20 18 16 14 (12) (10) |
| Wire | e Str | aqi | er A | WG | Co | nve | rsic | on (F | TR PER | | | | | () Reference |
| AWC | | 34 | 32 | 30 | 28 | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 | |
| auded wire d | | 0.19 | 0.23 | 0.29 | 0.37 | 0.47 | 0.59 | 0.74 | 0.94 | 1.18 | | 1.88 | 2.37 | Min. stripping length 1mm! |
| | | 0.16 0.025 | 0.2 | 0.25 | 0.32 | 0.40 | 0.51 0.2 | 0.64 0.33 | 0.81 0.52 | 1.02 0.82 | | 1.63 2.08 | 2.05 3.31 | Saving time and giving you perfect stripping |
| nductor dia | | | | 0.4 | 0.5 | 0.65 | 0.8 | 0.95 | 1.15 | 1.45 | | | | length every time |
| nductor dia | | | | | | 0.00 | 0.0 | 0.00 | | | | | <u> </u> | Adjustable stripping |
| nductor dia Sectional a | PA-05 | | | | | | | | | | | | | length let you work more |
| Sectional a sectional a sectional a sectional a sectional a section ϕ | PA-05 PA-06 | | | 0.4 | 0.5 | 0.65 | 0.8 | 0.95 | 1.15 | 1.45 | | | | efficiently and reduces faults. |
| tripping nole ϕ (mm) | PA-05 | | | | | 0.65 | 0.8 0.8 | 0.95 0.95 | 1.15 1.15 | 1.45 1.45 | 1.8 | 2.1 | 2.5 | efficiently and reduces |

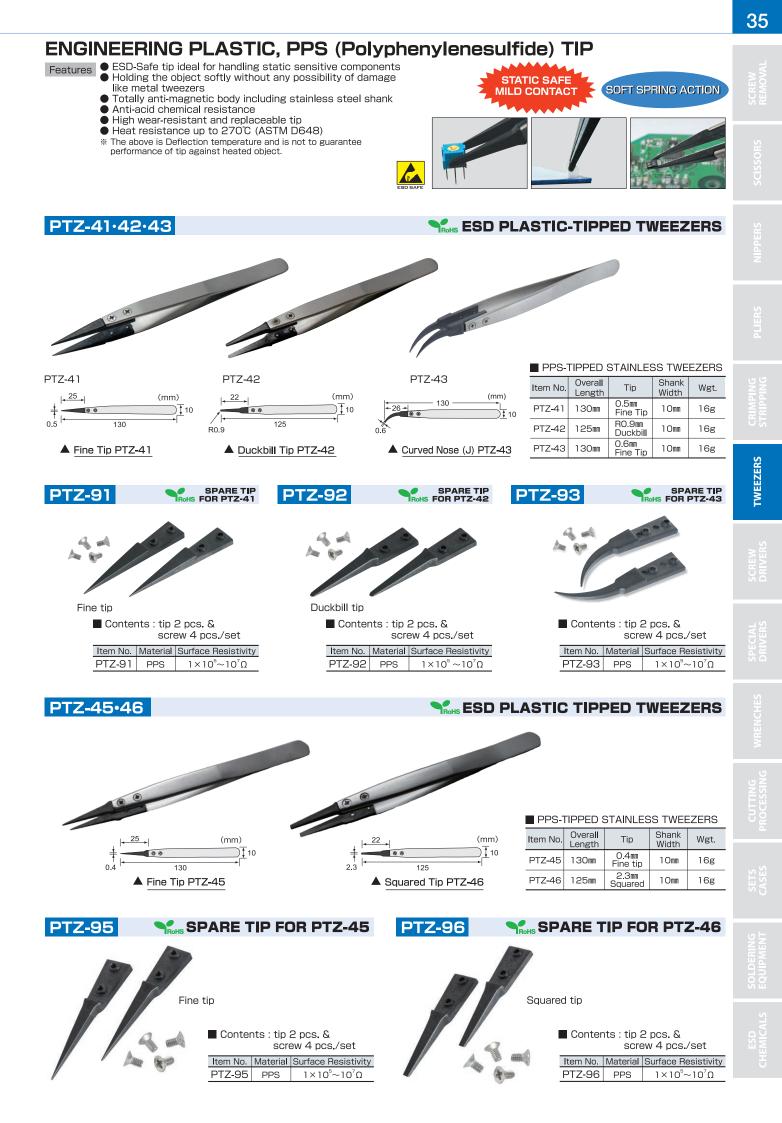
STRIPPING

Tweezers











Screwdrivers



DG-01~04 SRIP DRIVER

- Soft grip handle provides excellent tightening power without slipping.
- Chrome-vanadium alloy steel, perfectly heat-treated gives it lasting durability.
- Black magnetic oxide tip.
- Chrome plated.



DG-05

1

- ⊕/⊖Two-in-one reversible blade.
- Comfortable soft-grip handle.
- Can also be used with electric and air drivers.



| | | | | | (mm) |
|----------|------------|--------------|-------------|--------------|-------------|
| Item No. | Point Size | Shaft Length | Shaft diam. | Handle diam. | O.A. Length |
| DG-05 | ⊕#2/⊝6 | 95 | 6.3 | 34 | 210 |
| | | | | | |

DP-03~64

- Chrome Vanadium alloy steel & complete heat treated blade.
- Black oxide finish blade.
- Knurl shaft for quick rotation



| Size tab | le | | | | | (mm) |
|------------|------------|-----------------|--------------|-------------|--------------|-------------|
| Item No |) . | Blade size | Shaft length | Shaft diam. | Handle diam. | O.A. Length |
| DP-03 | | #00 | 75 | 3 | 15 | 146 |
| DP-24 | | #0 | 100 | 4.3 | 18 | 183 |
| DP-44 | | #1 | 100 | 5.5 | 25 | 200 |
| DP-64 | | #2 | 100 | 6.3 | 27 | 213 |
| DP-13 | | ⊖3.0×0.35 | 75 | 3 | 15 | 146 |
| DP-34 | | ⊖4.3×0.5 | 100 | 4.3 | 18 | 183 |
| DP-54 | | ⊖5.5×0.7 | 100 | 5.5 | 25 | 200 |
| (Blade ciz | a = v | width X thickno | ee) | | | |

(Blade size=width×thickness)

DG-08•09 MASTER GRIP DRIVER

- Master Cushion grip assures powerful fastening power.
- Bottom marking & color distinguish phillips from slotted tip.
- Special alloy steel blade, tempered & plated for lasting durability.
- Precision black-point finish, magnetic point.



| | | | | | (mm) |
|----------|------------|--------------|-------------|--------------|-------------|
| Item No. | Point Size | Shaft Length | Shaft diam. | Handle diam. | O.A. Length |
| DG-08 | ⊕#2 | 70 | 6.3 | 40 | 195 |
| DG-09 | ⊖6×1.0 | 70 | 6.3 | 40 | 195 |

DG-11~14 STRA LONG GRIP DRIVER

- Cushion grip handle which fits perfect in the hand provides excellent tightening power.
- Shafts are made of chrome vanadium alloy steel, entirely heat treated with black magnetic oxide tip.
- Chrome plated finish.

| DG | DG-12 | | | | | | | | | |
|----|----------|------------|--------------|-------------|--------------|-------------|--|--|--|--|
| | | | | | | (mm) | | | | |
| | Item No. | Point Size | Shaft Length | Shaft diam. | Handle diam. | O.A. Length | | | | |
| | DG-11 | ⊝6.0×0.8 | 225 | 6.3 | 32 | 362 | | | | |
| | DG-12 | ⊕#2 | 225 | 6.3 | 32 | 362 | | | | |
| | DG-13 | ⊝6.0×0.8 | 275 | 6.3 | 32 | 412 | | | | |
| | DG-14 | ⊕#2 | 275 | 6.3 | 32 | 412 | | | | |

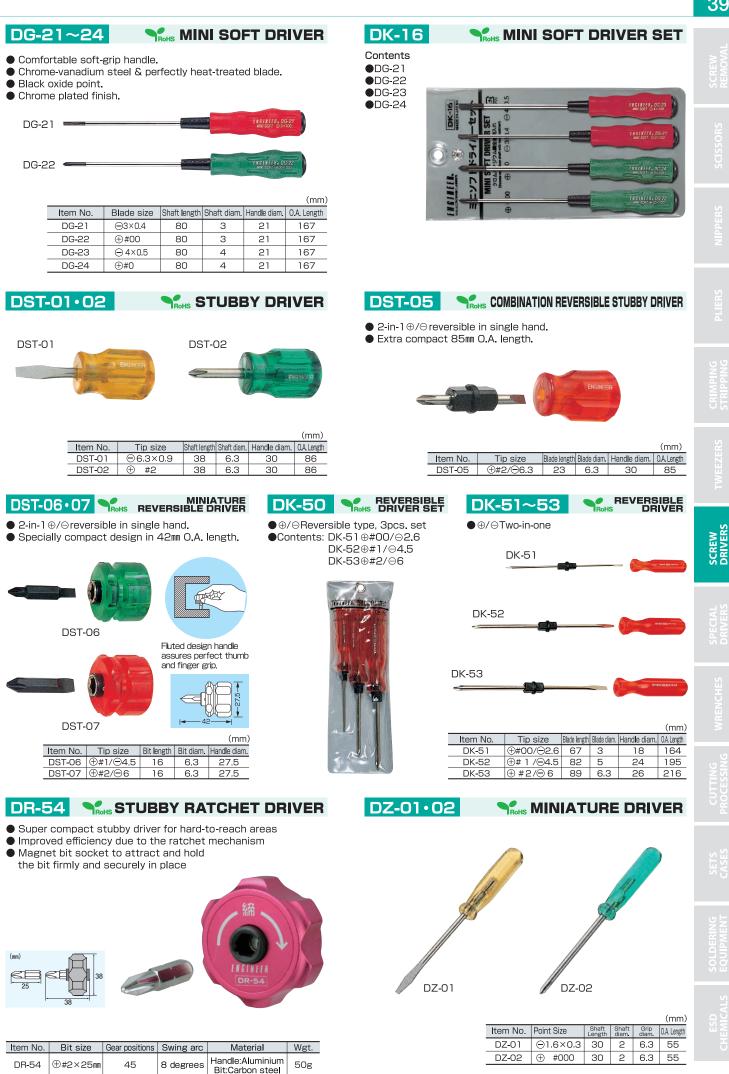
DS-03~64

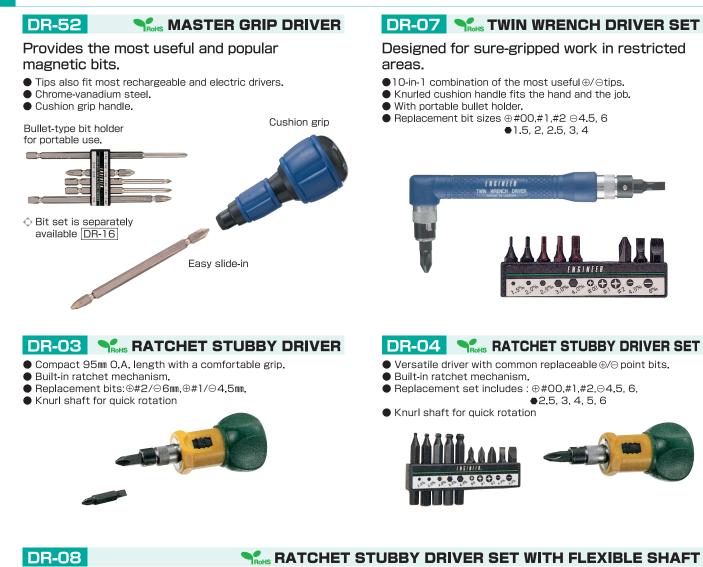
STANDARD DRIVER



DS-34

| Size table fo | or | | | | (mm) |
|---------------|-------------|--------------|-------------|--------------|-------------|
| Item No. | ⊕Blade size | Shaft length | Shaft diam. | Handle diam. | O.A. Length |
| DS-03 | #00 | 75 | 3 | 11 | 128 |
| DS-23 | #0 | 75 | 4.3 | 16 | 151 |
| DS-24 | #0 | 100 | 4.3 | 16 | 176 |
| DS-44 | #1 | 100 | 5.5 | 18 | 185 |
| DS-46 | #1 | 150 | 5.5 | 18 | 235 |
| DS-64 | #2 | 100 | 6.3 | 22 | 193 |
| Size table f | or⊖driver | | | | (mm) |
| Item No. | ⊖Blade size | Shaft length | Shaft diam. | Handle diam. | O.A. Length |
| DS-12 | 2.6×0.35 | 50 | 3 | 11 | 103 |
| DS-13 | 2.6×0.35 | 75 | 3 | 11 | 129 |
| DS-14 | 2.6×0.35 | 100 | З | 11 | 154 |
| DS-33 | 4.0×0.5 | 75 | 4.3 | 16 | 150 |
| DS-34 | 4.0×0.5 | 100 | 4.3 | 16 | 175 |
| DS-54 | 5.5×0.7 | 100 | 5.5 | 18 | 184 |





Versatile flexible shaft makes difficult jobs easy

- 6-in-1 ratchet stubby type comes with most needed \oplus / \ominus , hex, box bits and flexible shaft.
- the first and the second se Easy access to tighten screws & nuts at hard-to-reach positions.
- Knurl shaft for quick rotation

Flexible shaft is designed to bend max. 75 degree in double construction. The piano wire is covered with flexible insulation.





Bullet holder is clipped to belt or tool panel.

CONTENTS

- Ratchet stubby O.A.length:80mm •Flexible shaft ●⊕⊖bit Hex bit Box bit
 - O.A.length:182mm ⊕#2/⊝6,⊕#1/⊝4.5 •2, 2.5, 3mm
 - 05.5mm

DR-06 STRATCHET DRIVER WITH BIT SET

Excellent for working in close areas!

- Versatile driver with most popular $\oplus / \ominus \&$ hex bits.
- Complete with handy bullet holder for carrying.
- Replacement set includes: ⊕#00, #1, #2, ⊖4.5, 6
- 1.5, 2, 2.5, 3, 4
- Built-in quick ratchet device.



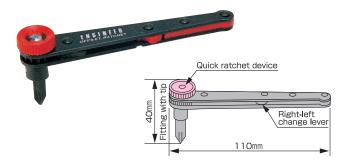


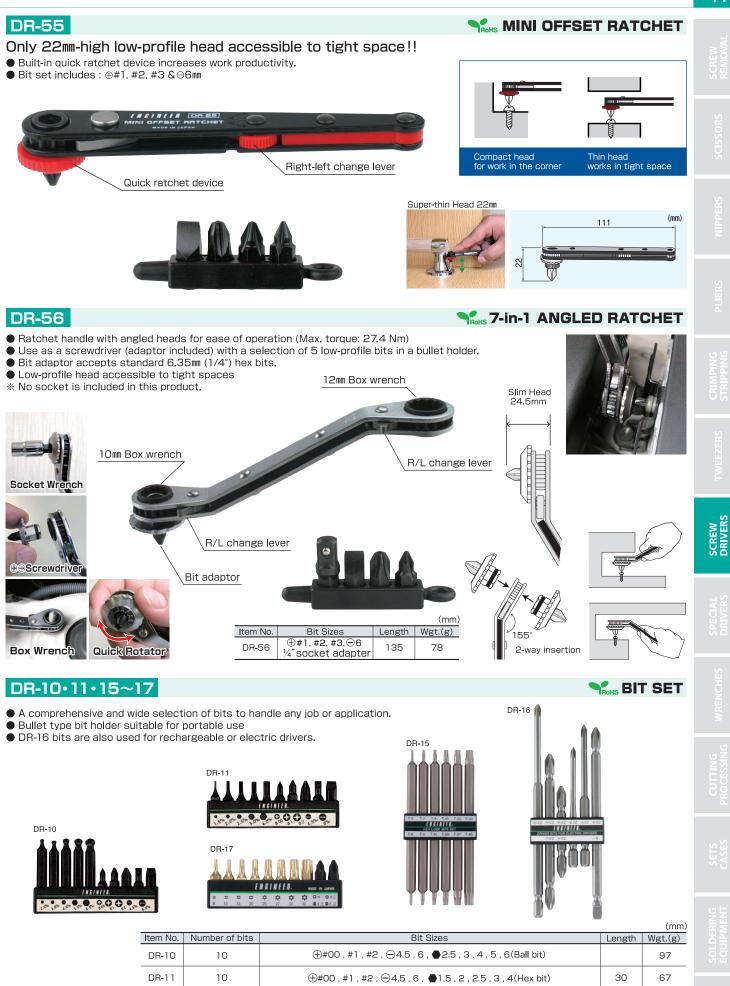
For use at hard-to-reach positions.



DR-05

- Built-in quick ratchet mechanism increases work productivity.
- Designed to permit work in close areas that are inaccessible
- with ordinary drivers. ● Tip : ⊕#2/⊖6mm





DR-15

DR-16

DR-17

| ‡ / ‡ T5/T6, ‡ / ‡ T7/T8, ‡ / ‡ T9/T10, T15/T20, T25/T27, T30/T40 | 110 | |
|---|-----|--|
| ⊕ Double end bit…#2×65 #2×110 ⊕Step type…#0×85 #1×100 #2×150 ⊕ ⊖bit#2/⊖6×135 | | |
| ✿…T8 , T10 , T15 , T20 , T25 , T27 , T30 , T40 ⊕⊖Double end bit#1/ ⊖4.5 , #2/⊝6 (⊕⊝bits are magnetic) | 30 | |

Special Drivers



DT/DTC/DTP/DTY SERIES

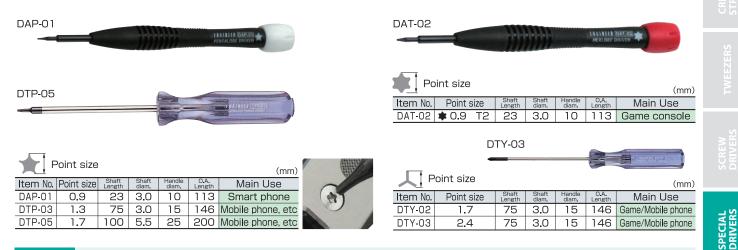
Made for special screws, ideal for maintenance work of cordless phones, cellular phones, etc.



Torx (Hex-lobe) screws

There may be a projection in the center of screw hole for prevention of theft and tampering. Torx (Hex-lobe) screws are used for cordless phone, transceiver, precision instruments, etc.

| LAALANDA UMAANI | | | | | | | | |
|---|---|--|--|--|--|--|--|--|
| AREA FLA UNCON | | | | | | | | |
| Point size (mm) | | | | | | | | |
| Item No. Point size Shaft Length Shaft diam Handle O.A. Length Main Use | _ | | | | | | | |
| DTC-20 3.6 90 4.5 7.0 25 190 Game console/Soft | | | | | | | | |
| DTC-27 4.6 90 59 70 25 190 Game console | | | | | | | | |



DR-18

10-in-1 special driver bit set

- Easy to distinguish different color band.
- Magnet point attracting a tiny screw.



DR-50

Ideal for sure-gripped work in restricted areas.



TWIN WRENCH DRIVER(For Special Screws)

- lacebox Off-set twin wrench driver with 8 Torx bits and 2 \oplus/\ominus bits.
- Non-slip knurled cushion handle.

BoHS

DT-10

DT-20

Point size

Τ2

TX4

Т4

Τ5

Т6

Т8

Item No.

DT-02 ¥0.9

DTX-04 🗱 1.2

DT-04 \$1.3

DT-05 \$1.4

DT-06 🗘 1.7

DT-08 🛱 2.3

DTX-08 2.0 TX8

DT 10 \$27 T10

DT 15 🛱 3.3 T15

DT-20 🗘 3.8 T20

DT-06

***** $\mathbf{\hat{v}}$ Applicable to tampering-proof screws (T6~T20)

diam.

3.0

3.0

3.0

3.0

3.0

5.5

5.5

5.5

Shaft Handle

0.A

146

146

146

146

146

146

146

200

200

200

Set for mobile phone

diam. Lengtl

15

15

15

15

15

15

15

25

25

25

Shaft length

75

75 3.0

75

75

75

75

75 3.0

100

100

100

Bullet type replaceable bit holder.

| CONTENTS | | | | | | | | (| mm) |
|------------------|-------|---|-----|----|----|----|-----|-----|-----|
| Shape of Blt | Point | | | | Si | ze | | | |
| Torx bit | 4 | 8 | 10 | 15 | 20 | 25 | 27 | 30 | 40 |
| ⊕⊖bit D (2edges) | +- | Ð | #1/ | Θ4 | 5 | Œ | #2/ | ′⊖6 | .0 |

Bit set is separately available DR-17

MOBILE PHONE DRIVER

PPING PLIERS NIPPERS SCISSORS SCREW

(mm)

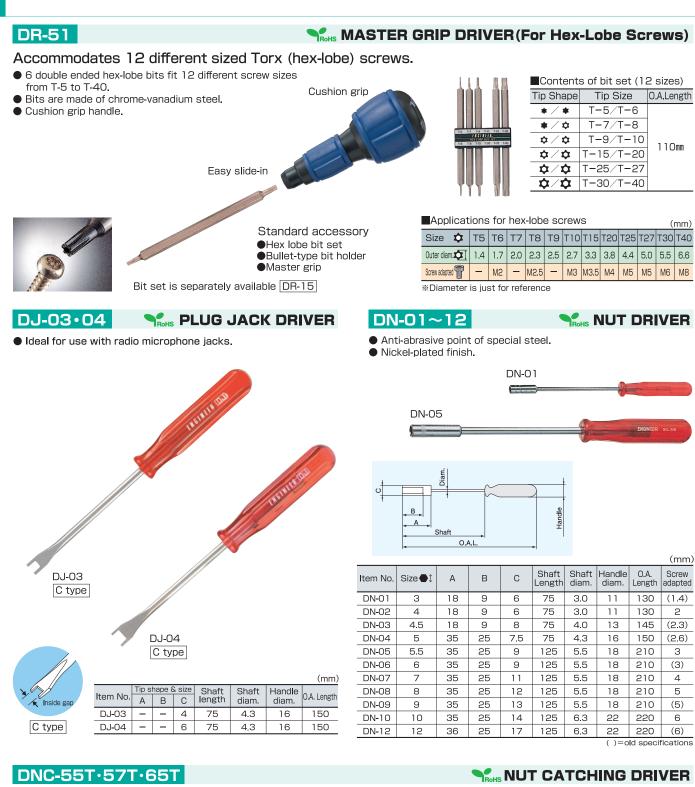
Main Use

Game console

Smart phone/Mobile phone

Smart phone/Mobile phone

Smart phone/Mobile phone

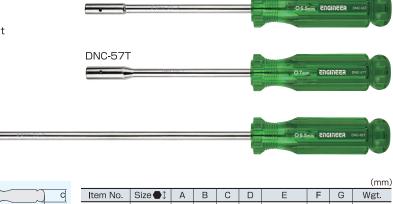


Magnet hold type for easy operation

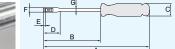
44

- Solid shaft machined from one piece of metal, for improved durability. Suitable for maintenance service of facsimile machine and photocopying machine.
- Sliding magnet in socket attracts and catches a hex bolt while fitting different heights of the heads.
- Material: Cr-V (shaft), Cellulose Acetate (handle)

6



DNC-55T



DNC-65T

| | | | | | | | | | (mm) |
|----------|--------|-----|-----|----|----|---------|----|---|------|
| Item No. | Size●↓ | А | В | С | D | E | F | G | Wgt. |
| DNC-55T | 5.5 | 233 | 127 | 29 | 32 | 0.5~3.0 | 9 | 7 | 120g |
| DNC-57T | 7 | 233 | 127 | 29 | 37 | 0.5~4.3 | 11 | 7 | 125g |
| DNC-65T | 5.5 | 336 | 230 | 29 | 32 | 0.5~3.0 | 9 | 7 | 153g |



| _ | | | | | | (mm) |
|---|----------|----------|--------------|-------------|--------------|-------------|
| | Item No. | Size 🗬 🕽 | Shaft length | Shaft diam. | Handle diam. | O.A. Length |
| | DB-15 | 1.5 | 70 | 1.5 | 11 | 124 |
| | DB-20 | 2 | 70 | 2 | 11 | 124 |
| | DB-25 | 2.5 | 70 | 2.5 | 16 | 143 |
| | DB-30 | 3 | 100 | З | 16 | 173 |
| | DB-40 | 4 | 120 | 4 | 18 | 204 |
| | | | | | | |

| | | | | (11111) |
|----------|----------|--------------|--------------|-------------|
| Item No. | Size 🗬 🕽 | Shaft length | Handle diam. | O.A. Length |
| DH-15 | 1.5 | 90 | 11 | 144 |
| DH-20 | 2 | 90 | 11 | 144 |
| DH-25 | 2.5 | 90 | 11 | 144 |
| DH-30 | 3 | 90 | 16 | 163 |
| DH-40 | 4 | 90 | 16 | 163 |
| DH-50 | 5 | 90 | 18 | 175 |
| DH-50 | 5 | 90 | 18 | 175 |

45

SPECIAL DRIVERS DK-14

- Set of 6 nut drivers with across flats 3~6mm
 Magnetized sockets





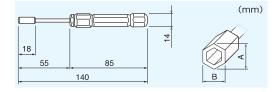
With rotary cap



Slim socket design

Self-standing holder

| (r | n | m | ٦) |
|----|---|---|----|
| | | | |

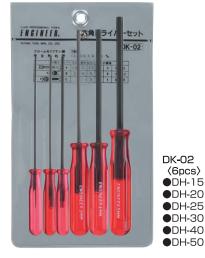


| Item No. | Across Flats | Screw Diameter | Ext. Soc | ket Size | 14/ert | |
|----------|--------------|----------------|----------|----------|-----------------|--|
| item no. | \bigcirc | | А | В | Wgt. | |
| | 3 | M1.4/M1.5 | 6.3 | 5.6 | | |
| | 4 | M2 | 6.3 | 5.6 | | |
| DK-14 | 4.5 | M2.3 | 8 | 7 | 155g (Holder | |
| DK-14 | 5 | M2.5/M2.6 | 8 | 7 | included) | |
| | 5.5 | MЗ | 9.1 | 8 | , | |
| | 6 | M3.5 | 9.1 | 8 | | |

DK-01.02

Set of 4 (DK-01) and 6 (DK-02) most popular hex drivers in a vinyl pouch.





Materials

Handle:Cellulose Acetate

Socket:Cr-Mo Shaft:Cr-V

Cap:PP

| RoHS | HEX | DRIV | ER | SET |
|------|-----|------|-----------|-----|
| | | | | |

| Screw | adapted | (mm) | | |
|--------|-----------|------|--|--|
| Size | Set screw | | | |
| \Box | | | | |
| 1.5 | M1.6,M2 | MЗ | | |
| 2.0 | M2.5,M2.6 | M4 | | |
| 2.5 | MЗ | M5 | | |
| 3.0 | M4 | M6 | | |
| 4.0 | M5 | M8 | | |
| 5.0 | M6 | M10 | | |

DK-03 SALL DRIVER SET

Set of 5 most popular ball drivers in a vinyl pouch.



DK-03(5pcs) ●DB-15 •DB-20 •DB-25 •DB-30 •DB-40



DK-04

7-in-1 assortment of Compact-sized Nut Drivers Contents: 03, 3.5, 4, 4.5, 5, 5.5, 6mm



Diam. Handle в A Shaft O.A.L

NUT DRIVER SET

| | | | | | | | (mm) |
|------|----|---|---|-----------------|-----|-----------------|----------------|
| Size | А | В | С | Shaft length | | Handle diam. | 0.A. Length |
| З | | | 6 | | | | 130 |
| 3.5 | | | 6 | 75 | 3.0 | 11 | |
| 4 | | | 6 | | | | |
| 4.5 | 18 | 9 | 8 | | 4.0 | 13 | 145 |
| 5 | - | | 8 | | | | |
| 5.5 | | | 9 | | 4.0 | | 140 |
| 6 | | | 9 | | | | |













| | | | (mm) |
|----------|----------|-------------|-------------|
| Item No. | Tip Size | Blade Diam. | O.A. Length |
| DM-21 | #0000 | 1.4 | 76 |
| DM-22 | #000 | 1.6 | 84 |
| DM-23 | #00 | 2 | 90 |
| DM-24 | #0 | 2.4 | 102 |
| DM-25 | #1 | 3 | 110 |
| DM-26 | #1 | 3 | 118 |

| | | (mm) |
|----------|--|--|
| Tip Size | Blade Diam. | O.A. Length |
| 1.0×0.2 | 1 | 73 |
| 1.2×0.3 | 1.2 | 79 |
| 1.8×0.3 | 1.8 | 89 |
| 2.4×0.45 | 2.4 | 102 |
| 3.0×0.6 | 3 | 110 |
| 3.5×0.7 | 3.5 | 118 |
| | 1.0×0.2 1.2×0.3 1.8×0.3 2.4×0.45 3.0×0.6 | 1.0×0.2 1 1.2×0.3 1.2 1.8×0.3 1.8 2.4×0.45 2.4 3.0×0.6 3 |

| | | | (mm) |
|----------|----------|-------------|-------------|
| Item No. | Tip Size | Blade Diam. | O.A. Length |
| DM-22 | #000 | 1.6 | 84 |
| DM-24 | #O | 2.4 | 102 |
| DM-25 | #1 | 3 | 110 |
| DM-33 | 1.8×0.3 | 1.8 | 89 |
| DM-34 | 2.4×0.45 | 2.4 | 102 |
| DM-35 | 3.0×0.6 | 3 | 110 |
| | | | |



With circuit testing driver handle for low voltage. (AC80~250V/DC100~300V) Contents:⊖5.5mm,⊕#00,#0,#1, #2,#3

ENGINEER. MADE IN JAPAN

INTERCHANGEABLE DRIVER SET



With circuit testing driver handle for low voltage. (AC80~250V/DC100~300V) Contents:⊕#1,#2,⊖3, 5.5mm, **0**5.5mm, awl

DK-08 MINTERCHANGEABLE DRIVER SET

DK-05P·06P

• Cost-saving package in Plastic blow-mould case

DK-05 & DK-06













Contents: 04, 5.5, 6, 7, 8,10mm

Contents exactly same as





DA-53~59

Pen type Ceramic Alignment Driver for service and assembly line work

- Two-in-one, slotted tip and hex. core (except DA-58)
- With pen-type cap for protection and portable use
- φ9 x 135mm long

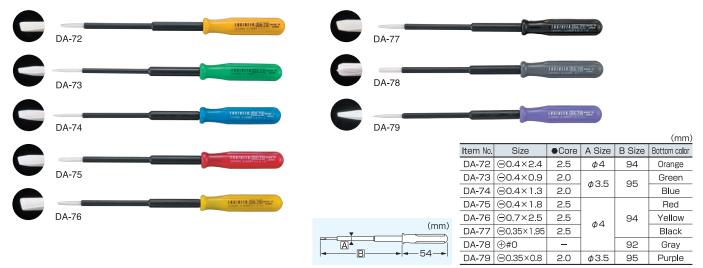


| | | | | (mm) |
|-------------|---|-------------|------|--------------|
| | CRAME ALCREA SCREWBYLER / 0 235-19 | Size | Core | Bottom color |
| DA-54 | CERAMIC ALIGNER SCREWORVER / 0 2.8 | ⊝0.4×0.9 | 2.0 | Green |
| | DA-54 | ⊖0.4×1.3 | 2.0 | Blue |
| | DA-55 | ⊖0.4×1.8 | 2.5 | Red |
| DA-55 | DA-56 | ⊝0.7×2.5 | 2.5 | Yellow |
| | DA-57 | ⊖0.35×1.95 | 2.5 | Black |
| | CRAME ALIGNER SOCIETION /- 0.3540.8 DA-58 | ⊕ #0 | - | Gray |
| DA-56 DA-59 | DA-59 | ⊝0.35×0.8 | 2.0 | Purple |

DA-72~79

The DA-70 series ceramic alignment screwdrivers are designed with a

- long slender shaft for a wider application of alignment in remote areas.
- Fine zirconia ceramic tipped alignment screwdrivers, highly intensive, durable, and perfectlynon-conductive
- laces Slide-in shaft is attachable to other tools & equipment
- Long, slim design for easy access to remote areas
- Two-in-one, slotted tip and hex. core (except DA-78)



| | | 49 |
|--|---|------------------------|
| | | -1 |
| Compact designed ceramic alignment drivers. Perfect for assembly line trimming. Fine zirconia ceramic tipped alignment screwdrivers, highly intensive, or and perfectly non-conductive. | durable, | SCREW REMOVA |
| Two-in-one function with slotted tip and hex core. (except DA-88) Ergonomically designed with convenient rotary cap. | IFT trimmer coil trimmer trimmer trimmer (Slotted) (Phillips) | |
| DA-81 | DA-85 | NIPPERS |
| DA-82 | DA-86 | PLIERS |
| DA-83 | DA-87 | |
| DA-84 | DA-88 | CRIMPING STRIPPING |
| × 90 | DK-91 CERAMIC ALIGNMENT • Assortment of DA-81~88 (8pcs.) | TWEEZERS |
| Item No. Size Core ASize BOTTOM DA-81 \bigcirc 0.7×1.3 2 Purp DA-82 \bigcirc 0.4×2.4 2.5 Oran DA-83 \bigcirc 0.4×0.9 2 Green | ple ge | SCREW DRIVERS |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | d pow ceramic a Lowert Sorewonver ck | SPECIAL DRIVERS |
| Alignment tool for TV, tuner, trimmer under a high frequency current. | ENT DA-40 Construction (Safe from static discharge) • Overall length: 125mm | WRENCHES |
| | ● Tip: ⊖2×0.5 & ⊜2×0.5mm | CUTTING PROCESSING |
| | | SETS CASES |
| | TUTUS | SOLDERING EQUIPMENT |
| | | |

| | | (mm) | | | | |
|------------|----------|-------|------------------|---------|--------|--|
| Item No. | | Tip | Length of Rod | Llondlo | | |
| ILEITI NO. | Material | Thick | Width | of Rod | Hanule | |
| DA-01 | SK steel | 0.5 | 2.0 | 100 | ¢12×54 | |
| DA-02 | SK SLEEL | 0.5 | 2.0 | 150 | φ12×04 | |
| | | | | | | |

-





SMART MONKEY WRENCH

Features • Only 2mm-thick jaws fit in a narrow area.

- Ideal for fastening coaxial (BNC) connectors, double nut, etc.
 No damage given to housing of BNC connectors
- Accurately machined finish of thin edge
- Made of Chrome Vanadium steel
 Extra long jaws and wide opening type (TWM-07 & TWM-08)



TS-04

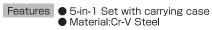
- 8-in-1 Combination spanner set with key chain
- Box-end inclined (30°)
- Thickness: 1.5mm
- Material: Stainless steel



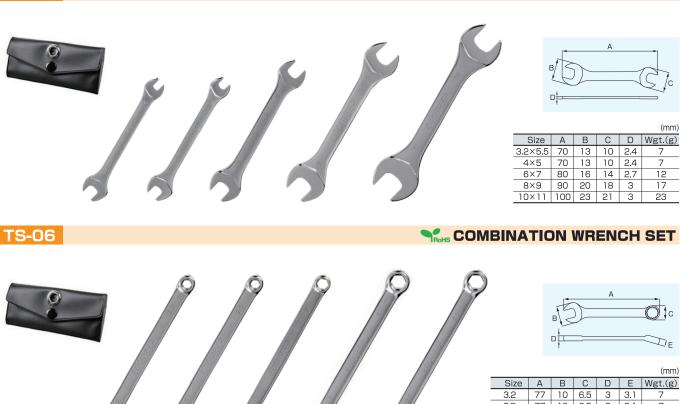


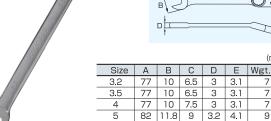
| • | This item is individually available. (mm) | | | | | | | |
|---|---|-----|------|-------|--------|--|--|--|
| | Item No. | Si | zes | Thick | Length | | | |
| | 100111110. | Box | Open | THOR | Longar | | | |
| | TS-41 | 4.0 | 3.5 | | 100 | | | |
| | TS-42 | 4.5 | 4.0 | | 100 | | | |
| | TS-43 | 5.0 | 4.5 | | | | | |
| | TS-44 | 5.5 | 5.0 | 1.5 | 106 | | | |
| | TS-45 | 6.0 | 5.5 | 1.5 | | | | |
| | TS-46 | 6.5 | 6.0 | | | | | |
| | TS-47 | 7.0 | 6.5 | | 114 | | | |
| | TS-48 | 8.0 | 7.0 | | | | | |

DROP-FORGED WRENCH SET



TS-05





5.5

TS-07

BIT

ъД

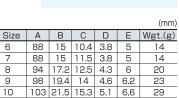
82 11.8 9.5 3.2 4.1

9

C

ΣE





| TWB-01+02+04+05 | | | POINT | HEX WR | ENCH | SET | |
|--|---|---|--|---|--------------------------------------|--|---|
| Ball head (magnetized) works from a ● Heat treated special alloy with electroless nickel ● Hardness : HRC57±2 | | off axis. | | | 3 | | |
| TWB-01 8-in-1 Standard Long Shank | TWB-02 8-in-1 S • Stubby arm accessil area where overhead | ble to restricted | Shank | | | | |
| | | | (8 pi Across Flat A× | /B-O1 (8 pcs./set) (8 pcs./set) (8 (mm) Jual model) A x B (mm) | TWB-O4 (8 pcs./set) A x B (mm) | TWB-O5 (8 pcs./set) A x B (mm) | |
| | Stubby arm | | 1.5 (TW) 2.0 96 (TW) 0.1 (T | ×14 /B-15) 81×4 3×16 /B-20) 96×5 1×18 /B-25) 111×6 | 51×14 58×16 65×18 | 51×4 58×5 65×6 | |
| | 4 | | • 3.0 (TW | 7×20 /B-30) 127×8 2×25 /B-40) 142×9 | 74×20 78×25 | 74×8 78×9 | |
| TWB-04 8-in-1 Standard Arm, Short Sh Hand-held compact sized body in bullet holder | lank | | • 5.0 (TW | 0×28 (B-50) 160×11 0×32 (B-60) 180×13 | 89×28 101×32 | 89×11 101×13 | |
| | | | ●8.0 198 (TW | 8×36 /B-80) 198×16 | | | |
| TWB-05 8-in-1 Stubby, Short Shank | | B-13~80 Stores | | Itom No. Across | Flats | ×B mm | |
| Stubby arm accessible to restricted area where overhead space is tight Hand-held compact sized body in bullet holder | | | hð | TWB-13 1.2 TWB-15 1. TWB-20 2. | 27 7 5 8 | 70×13 31×14 96×16 | |
| Stubby arm | | | ⇒ | TWB-25 2. TWB-30 3. TWB-40 4. TWB-50 5. TWB-60 6. TWB-80 8. | 5 11 0 12 0 12 0 16 0 16 | 1×18 27×20 42×25 30×28 30×32 98×36 | |
| | | NH-11~25 | Rohs | HEX KE | <mark>Y WRE</mark> | NCH | |
| | | | | Hex Key Wre | | etric size | |
| | | 1 | | | ss Flats mm 1.5 | L Size 45×14 | |
| HEX WERN SET 127 (1) | | | | TWH-12 2 | 2.0 | 50×16 56×18 | |
| TWH-01 | TWH-04 | | | TWH-14 C | 3.0 | 63×20 | |
| | | ∬ <mark>-↓</mark> B | _ | | 4.0 5.0 | 70×25 80×28 | - |
| | _ | | | | 3.0 3.0 1 | 90×32 | |
| Item No. pcs. Set(mm) TWH-01 7 0.89, 1.27, 1.5, 2.0, 2.5, 3.0, 4.0 TWH-04 8 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0 | | Applicable Sizes C | Chart | Hex Key Wr (mm) | ench in ir | nch size | |
| INCH SIZE | | Hex Across Flats Cap Screw Diam. Set | | Item No. Acros | ss Flats | L Size | |
| | | | | TWH-20 TWH-21 | | 5×10 8×10 | |
| 744° 522° 542° | | 1.27 M1.4 M2 1.5 M1.6, M2 M3 | 2.5 3 | TWH-22 0.05 | "(1.27) 4 | 0×11.5 | |
| HOLT REGION SET | | 2.0 M2.5, M2.6 M4 | 4 | | | 2.5×12.5 5.5×13.5 | |

2.5 M3

3.0 M4

4.0 M5

5.0

6.0

8.0

M6

M8

M10

M5

М6

M8

M10 M12, M14 M16, M18



 TWH-24
 5/64"(1.98)
 45.5×13.5

 TWH-25
 3/32"(2.38)
 48.5×14.5

CUTTING PROCESSING

TWS-01~05

- Socket wrench sets contain the complete combination of most needed sockets.
- Chrome molybdenum steel sockets and chrome vanadium ratchet handles.

TWS-05



| TWS-05 Contents 💠 52pcs. per set | | | |
|----------------------------------|--|--|--|
| Contents | Size/Length(mm) | | |
| Sockets O 6.3(1/4") | 4, 4,5, 5, 5,5, 6, 7, 8, 9, 10, 11, 13 | | |
| O 12.7(1/2") | 10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30, 32 | | |
| Socket for 21mm plug | 21 Across flats | | |
| Hex. Wrenches | 1.5, 2, 2.5 | | |
| Hex. Bits | 3, 4, 5, 6, 7, 8 | | |
| Phillips Bits | #1, #2, #3 | | |
| Slotted Bits | 4, 5.5, 7 | | |
| Plastic Spinner Handle | 200 | | |
| Ratchet Handles | 125, 300 | | |
| Extension Shafts | 100, 125, 250 | | |
| T Type Sliding Handles | 115, 300 | | |
| Universal Joints | 35, 70 | | |
| Bit Adapters | 25, 30 | | |
| Steel Case | 450×200×55 | | |



TWS-01 · 02 Contents : 16pcs. per set

| Contents | 5 | Size/Length(mm) |
|--------------------|--------|--|
| Sockets | TWS-01 | 5/32, 3/16, 7/32, 1/4, 9/32, 5/16 11/32, 3/8, 13/32, 7/16, 1/2 (inch) |
| O 6.3(1/4") | TWS-02 | 4, 4.5, 5, 5.5, 6, 7, 8 9, 10, 11, 13 (mm) |
| Ratchet Handles | 125 | |
| Extension Shafts | 50,15 | 0 |
| Universal Handle | 125 | |
| Cross Bar | 115 | |
| Steel Case | 180× | 120×30 |



TWS-03 Contents : 20pcs. per set

| Cc | ontents | Size/Length (mm) | | |
|-----------------|--------------------|-------------------------|--|--|
| Sockets | O 6.3(1/4") | 4, 4.5, 5, 5.5, 6, 7, 8 | | |
| | 09.5(3/8") | 9,10,12,13,14,17,19 | | |
| Adaptor3 | /8"→1/4" | 25 | | |
| Plastic S | oinner Handle | 150 | | |
| Ratchet H | landle | 200 | | |
| Extension Shaft | | 75,150 | | |
| Socket fo | r 21mm Plug | 21 Across flats | | |
| Steel Cas | e | 292×145×35 | | |



| TWS-04 Contents : 34pcs. per set | | | | |
|----------------------------------|----------------------|--|--|--|
| Contents | Size/Length(mm) | | | |
| Sockets O 6.3(1/4") | 4, 4.5, 5, 5.5, 6, 7 | | | |
| | 8, 9,10,11,13 | | | |
| Hex. Bits | 3, 4, 5, 6, 8, 10 | | | |
| Phillips Bits | #1,#2,#3,#4 | | | |
| Slotted Bits | 4, 5.5, 7 | | | |
| Hex Wrenches | 1.5, 2, 2.5 | | | |
| Plastic Spinner Handle | 150 | | | |
| Ratchet Handle | 125 | | | |
| Extension Shaft | 50, 100 | | | |
| T Type Sliding Handle | 115 | | | |
| Universal Joint | 35 | | | |
| Steel Case | 200×110×30 | | | |

SOCKET WRENCH SET

Cutting and Processing

00

GB

TWIST DRILL SET



| | | | (mm) | | |
|----------|---------|-------|--------|--|--|
| Item No. | Size | Blade | Length | | |
| TR-01 | ¢3.0~12 | 81 | 113 | | |
| TR-02 | ¢4.0~16 | 85 | 118 | | |
| TR-03 | φ5.0~20 | 95 | 130 | | |
| TR-04 | ¢6.0~30 | 107 | 145 | | |
| | | | | | |



| E | | TD | S-01 | |
|---------|------|-----|------|--|
| 0.6 | 0.8 | 1.0 | 1.1 | |
| | | | | |
| Т |)S-(| D1 | | |

| | | | | | | Contract of the second | | | | | |
|--------|-----|-----|-----|-----|-----|------------------------|-----|-----|------|--------|--|
| TDS-02 | | | | | | | | TD | S-03 | } (| |
| 3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.5 | 2.0 | |
| | | | | | | | | | | | |

ドリルセット

NGINEER.

| | | | | | | | | | | | | | (mm) |
|----------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Item No. | Contents | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.5 | 2.0 | 2.5 |
| TDS-01 | 5 | | | ٠ | ٠ | | | | • | ٠ | | | |
| TDS-02 | 6 | | | | | | | | ٠ | | | | |
| TDS-03 | 8 | | | | | | | | • | | | | |

| | (mm) | | (mm) |
|----------|------|----------|------|
| Item No. | Size | Item No. | Size |
| TD-03 | 0.3 | TD-16 | 1.6 |
| TD-04 | 0.4 | TD-18 | 1.8 |
| TD-05 | 0.5 | TD-20 | 2.0 |
| TD-06 | 0.6 | TD-25 | 2.5 |
| TD-07 | 0.7 | TD-30 | 3.0 |
| TD-08 | 0.8 | TD-32 | 3.2 |
| TD-09 | 0.9 | TD-35 | 3.5 |
| TD-10 | 1.0 | TD-40 | 4.0 |
| TD-12 | 1.2 | TD-50 | 5.0 |
| TD-15 | 1.5 | TD-60 | 6.0 |
| | | | |

TD-03~60

TT-01.02

(mm)

TP-20

170

TT-03·10~16

ドリルセット

TDS-03



2203

Primary, Second & Finishing Taps (3pcs./set)

| | 116 2 (1) |
|--------------|-----------|
| (minimumini) | |
| | ASE |

| TAP | | (mm) |
|----------|------|-------|
| Item No. | Size | Pitch |
| TT-10 | 1.4 | 0.3 |
| TT-11 | 1.7 | 0.35 |
| TT-12 | 2.0 | 0.4 |
| TT-13 | 3.0 | 0.5 |
| TT-14 | 4.0 | 0.7 |
| TT-15 | 5.0 | 0.8 |
| TT-16 | 6.0 | 1.0 |
| | | |

TP-20.23.24

TT-01

• Used for various applications to drilling, tapping, piercing (handy reamer) grinding, etc.

TAP HANDLE

TT-01

Item No. Capacity Length

M1~6.5

TT-02 M2~6.0 85 x 60

- Featuring precision clamping chuck (collet)
- Material:Body-Brass Collet-Steel with plating

Fitting to electric driver with 2 pcs. of Single head collets

TT-02



Double ended shank (Through-hole body) with 2 pcs. of Double-head collets

∢TT-03

CONTENTS

•Tap, 4pcs(2, 3, 4, 5mm)

MINI DRILL CHUCK/PIN VISE

Tap Handle(TT-02)

TP-23



| Single end wit with 2 pcs. of Do | h swivel head puble-head collets | TP-24 |
|-------------------------------------|--|-------|
| | Remove the swivel head to put a collet inside. | 20 .7 |
| | | |

| | | | | | | | (mm) |
|----------|----------------|-----------------------|-----------|-------------|-------|----------------|---------------|
| Item No. | Collet Type | Diameter of Drill Bit | | Shank | Joint | O.A. Length | Weight (g) |
| TD 22 | Double Head | ⊕0.1~1.2 | 2.0~2.5 🛟 | φ8 | | 105 | 35 |
| 11-23 | Double Heau | € }1.2~2.0 | 2.5~3.2 🛟 | φ8 | | 105 | 35 |
| | Double Head | ⊕0.1~1.2 | 2.0~2.5 🛟 | φ8 <u>–</u> | | 95 | 40 |
| 16-24 | Double Heau | <i>6</i>) 1.2~2.0 | 2.5~3.2 🛟 | ψο | | 90 | 40 |
| TP-20 | Single Head | <u>0.7</u> | ~1.9 | | ●6.3 | 50 | 20 |
| | Olingle Lieau | Ø 1.9- | ~3.0 | | •0.3 | 50 | 20 |

TV-01~27



TV-04

| BENCH VISE (mm) | | | | | | |
|-----------------|------|--------------|-------|--|--|--|
| Item No. | Size | Max. Opening | Clamp | | | |
| TV-01 | 38 | 35 | 0~21 | | | |
| TV-02 | 50 | 35 | 0~32 | | | |
| TV-03 | 63 | 50 | 5~33 | | | |
| TV-04 | 75 | 50 | 18~40 | | | |

TV-14

| ANVIL VISE (mm) | | | | | | |
|-----------------|------|--------------|-------|--|--|--|
| Item No. | Size | Max. Opening | Clamp | | | |
| TV-11 | 38 | 35 | 0~25 | | | |
| TV-12 | 50 | 35 | 0~34 | | | |
| TV-13 | 63 | 45 | 20~45 | | | |
| TV-14 | 75 | 55 | 20~45 | | | |

With special clasp ideal for thin plate, round bar and square lumber.

The reverse of the clasp to be used as a flat clasp.



TN-17

Item No.

TN-11

TN-12



| YANKEE VISE (mm) | | | | | |
|------------------|------|--------------|----|--|--|
| Item No. | Size | Max. Opening | | | |
| item No. | Size | В | С | | |
| TV-25 | 50 | 61 | 55 | | |
| TV-26 | 65 | 76 | 70 | | |
| TV-27 | 75 | 84 | 78 | | |
| | | | | | |

TN-11~18 SAW BLADES

Blade Thick Notches/

25mm

61

56

535

(mm)

0.24

0.26

TN-01~05

TM-04

- Light weight, durable and well-balanced frame design.
- Plastic handles are shaped for perfect grip without slip.
- Saw frame is designed to be adjustable in length and capable of using even broken pieces of saw blades. (TN-04/05)



JEWELLER'S SAW

- Blade contained TN-17 (standard) TN-13&15 (spare)
 The ideal saw blades made of Difference of the standard standa
- SKS special steel alloy with the technological know-how.
- Entirely heat treated, best quality saw blades available.

| Item No. | Frame's Depth(mm) | Weight(g) |
|----------|-------------------|-----------|
| TN-01 | 125×75 | 170 |
| TN-02 | 120×125 | 190 |
| TN-03 | 110×280 | 240 |
| *TN-04 | ~150×75 | 200 |
| *TN-05 | ~150×125 | 220 |
| | | |

<%Frame length adjustable(TN-04/05)>

TN-13 0.28 Brass & thin Iron Sheet TN-14 #1 0.30 51 TN-15 0.34 #2 43 Copper, Shell TN-16 #3 0.36 40.5 Iron Sheet, Wood, Plastic TN-17 0.38 #4 38 TN-18 #5 0.40 35.5 TZ-02~04 MANDY SAW/HACK SAW TZ-02 Adjustable blade TZ-03

Nominal

Size

#3/0

#2/0

#O

| Item No. | Blade Size | Shape | Length | Die casting Aluminum | |
|---------------------------------------|----------------|--------------|--------|-------------------------|--|
| TZ-02 | 250mm24notches | Plastic Grip | 260mm | handle | |
| TZ-03 | 250mm24notones | Piping Frame | 400mm | | |
| Replacement blade TZ-04 (12pcs/dozen) | | | | | |

TZ-05.07 TF-06.07.10 TF-07 SCRIBER TZ-05 •210mm TF-10 PUNCH TZ-07 •100mm

Item No.

TM-04

TM-05

Scale

15cm

30cm

Applications

Noble metals

58

High performance, Rust-resistant, Black coated files



PRODUCT VIDEO Ξ. Grinding com



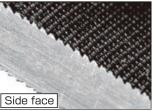
Burr on each file tooth is eliminated before black coating, good for high and lasting performance of filing.



Sharp edge of teeth



Rust-resistant black coating



Smooth machined surface, ideal for filing a corner without damage. (TF-11, 21, 31, 41 only)

Item No. Shape Coarseness Blade length O.A. length Wgt(g) TF-11 58 TF-12 59 \square TF-13 Second-cut 215 41 $\underline{\bigcirc}$ TF-14 52 TF-15 56 Δ TF-21 21 TF-22 18 \bigcirc 100 #3 200 TF-23 16 TF-24 19 TF-25 17 \triangle TF-31 58 TF-32 \Box 61 \bigcirc TF-33 Smooth-cut 215 40 TF-34 55 TF-35 58 Δ TF-41 166 325 TF-42 153 \cap TF-43 \bigcirc Second-cut 175 300 109 112 TF-44 325 TF-45 166 \wedge

TFS-07-10-20-30 Set BLACK FILE SET

• A set of Jet Black Files in a roll-up storage with a strap



W240×L240(mm)

W50×L240×H50(mm)

(mm)

(mm)

| Item No. | | Shape | | | | | Coarconoco | Blade length | | Wat (a) | | |
|----------|-------|--------|-------|-------|-------------|--------|-------------|--------------|------------|---------|-----|-----|
| iten no. | | \Box | 0 | | \triangle | Diusii | Cualselless | Didue lengui | U.A.length | Wgi(g) | | |
| TFS-07 | | TF-12 | | | _ | _ | Second-cut | 100 | 215 | 274 | | |
| 153-07 | TF-21 | TF-22 | TF-23 | | _ | | | | Precision | 100 | 200 | 2/4 |
| TFS-10 | TF-11 | TF-12 | TF-13 | TF-14 | TF-15 | 0 | Second-cut | 100 | 215 | 349 | | |
| TFS-20 | TF-21 | TF-22 | TF-23 | TF-24 | TF-25 | 0 | Precision | 100 | 200 | 170 | | |
| TFS-30 | TF-31 | TF-32 | TF-33 | TF-34 | TF-35 | 0 | Second-cut | 100 | 215 | 371 | | |
| | | 1 | | 1 | | | 1 | | | | | |

TFS-01.02

NORMAL TYPE



TFS-01

TFS-02 (TF-06~10)

| Item No. | Contents | | 0 | | Δ | Length(mm) |
|----------|----------|---|---|---|---|------------|
| TFS-01 | 5 | • | | | • | 180 |
| TFS-02 | 5 | • | | • | ۲ | 200 |

FILE SET

FIEIFEE O

Sets and Cases



• Pocketable & reasonable kit for daily use

KS-02



- Simple & basic tool kit



Set of 7 items

| NSX-04 | Micro nippers | 115mm |
|--------|--------------------------|-------|
| | Miniature pliers | 115mm |
| PTS-01 | Tweezers | 125mm |
| DM-22 | Output: Precision driver | #3/0 |
| DM-33 | Precision driver | 1.8mm |

DS-03 ⊕Screwdriver #00 DS-13 ⊖Screwdriver 2.6×75 •Case:135×90×30mm •Weight:0.25kg

Set of 11 items NS-03 Micro nippers 125mm PS-01 Miniature long nose pliers 125mm PTS-01 Tweezers 125mm DS-03 ⊕Screwdriver #00 DS-23 ⊕Screwdriver #0 DS-33 ⊖Screwdriver 4×75

| DH-15 | Hex driver | 1.5mm |
|-----------------|------------------|-------|
| DH-20 | Hex driver | 2.Omm |
| DH-25 | Hex driver | 2.5mm |
| | File(Half-round) | |
| | Cutter knife, S | |
| ●Case ●Weigl | | |

KS-20

- Pocket-sized and functional tool kit
- with Circuit testing driver handle



KS-27

MY KIT

- Pocket-sized tool kit, ideal for electronics
- with Penlight & Circuit testing driver



Set of 12 items

| NN-45 | Slant edge nipper | s 125mm | | | |
|-------------------|-------------------|-------------|--|--|--|
| PR-15 | Long nose pliers | 125mm | | | |
| PTS-01 | Tweezers | 125mm | | | |
| | Phillips bit | ⊕#00 | | | |
| | Phillips bit | ⊕#1 | | | |
| Circuit testing | Phillips bit | ⊕ #2 | | | |
| driver with | Slotted bit | ⊖2.5mm | | | |
| spare bits | Slotted bit | ⊖3.5mm | | | |
| oporo bito | Slotted bit | ⊖5.5mm | | | |
| | Hex nut bit | 05.5mm | | | |
| | Awl (square) | | | | |
| | Cutter knife (S) | | | | |
| ●Case:160×90×35mm | | | | | |
| •Weight: 0.5kg | | | | | |
| | | | | | |



Circuit testing handle (AC80~250V/DC100~300V)



Cot of 12 it

| Set of 13 items | | | | | |
|-----------------|----------------------------|-------------|--|--|--|
| NS-03 | Micro nippers | 125mm | | | |
| PS-01 | Miniature long nose pliers | 125mm | | | |
| PT-06 | Tweezers (J) | 120mm | | | |
| Circuit testing | Phillips bit | ⊕ #1 | | | |
| driver with | Phillips bit | ⊕#2 | | | |
| spare bits | Slotted bit | ⊖3.5mm | | | |
| spare bits | Slotted bit | ⊖5.5mm | | | |
| DM-22 | | #000 | | | |
| DM-24 | | #O | | | |
| DM-32 | ⊖Precision driver | 1.2mm | | | |
| DM-34 | ⊖Precision driver | 2.3mm | | | |
| TWH-01 | Hex key wrench set | | | | |
| | | | | | |

Mini penlight (AAA type) •Case: 160×90×35mm •Weight: 0.6kg





Circuit testing handle (AC80~250V/DC100~300V)

KS-05

MAINTENANCE KIT

- For field maintenance service
- Environment-friendly polyester-made case (Lining: made of nylon)



Set of 13 items

| 000 | | | | | |
|-------|-----------------------|-------|----------|--------------------|-------|
| NK-15 | Diagonal nippers | 125mm | PTS-01 | | 125mm |
| PR-16 | Long nose pliers | 150mm | TWH-01 | Hex key wrench set | |
| PC-06 | Combination pliers | 150mm | | Soldering iron | 26W |
| DS-03 | Screwdriver | #00 | SW-30 | Solder | 20g |
| DS-23 | Screwdriver | #0 | | File (flat) | |
| DS-64 | Screwdriver | #2 | Case | :255×150×50mm | |
| DS-33 | ⊖Screwdriver | | | ht:1kg | |
| DA-02 | Alignment screwdriver | 150mm | - | | |
| | | | | | |

V Soldering Iron 220V~240V available by assortment of SKC-30 as per Page 71

KS-06(KSE-06)

For field maintenance service (Complete Set)



Set of 14 items NK-15 Diagonal nippers PR-16 Long nose pliers PC-06 Combination pliers

KSC-06

Set of 21 items

NN-46 Slant edge nippers PR-16 Long nose pliers PD-06 Side cutting pliers PC-06 Combination pliers PTS-02 Tweezers DS-03 ⊕Screwdriver DS-64 ⊕Screwdriver DS-13 ⊕Screwdriver DS-54 ⊕Screwdriver DN-05 Nut driver DA-02 Alignment screwdriv

DA-02 Alignment screwdriver

DS-03 (Screwdriver DS-23 (Screwdriver DS-64 (Screwdriver DS-33 (Screwdriver DA-02) Alignment screwdriver

MAINTENANCE KIT

Cordless soldering iron (with Multi-holder) expands the utility of traditional tool kits. • For field maintenance service

• Environment-friendly polyester-made case (Lining: made of nylon)



125mm 150mm 150mm

#00

#O #2 4×75

150mm

Cordless soldering iron (with Multi-holder) expands the utility of traditional tool kits.

•For field maintenance service (Complete Set)

Cordless soldering iron

MAINTENANCE KIT

SK-66 Hot blow tip SW-30 Solder File (flat)

•Weight: 1kg

●Case: 255×150×50mm

20g

| · | |
|--------|---|
| | |
| | |
| - | |
| _ | 0 |
| | |
| z | |
| ⊇ N | |
| n | |
| | |

| ering iron(w/cap) | | | | |
|-------------------|--------------|--|--|--|
| le wrench | 20g 200mm | | | |
| | 150mm | | | |

Cordless soldering iron

 SK-60
 Cordless soldering iron(w/cap)

 SK-66
 Hot blow tip

 SW-30
 Solder
 20g

 TWH-02
 Adjustable angle wrench
 200mm

 File (flat)
 File (flat)
 150mm

 TMH-04
 Steel rule
 150mm

 TWH-04
 Hex key wrench set (8 pcs.)
 Cutter knife (S)

 ©Case : 305×220×45mm
 Waight : 2kg

•Weight : 2kg

| MARTENNE NT EGG IIIIII | |
|--|--|
| Second and the second | |

Set of 20 items

| nm |
|----|
| nm |
| nm |
| nm |
| nm |
| Ο |
| Ο |
| 2 |
| 5 |
| Ο |
| nm |
| nm |
| |

| SKC-40 | Soldering iron | 32W | | |
|-----------------------------------|-------------------------|-------|--|--|
| SW-30 | SW-30 Solder | | | |
| TWM-02 | Adjustable angle wrench | 200mm | | |
| | File (flat) | | | |
| | File (round) | | | |
| TM-04 | Steel rule | 150mm | | |
| TWH-04 | Hex key wrench set (8 | pcs.) | | |
| | Cutter knife (S) | | | |
| ●Case:305×220×45mm ●Weight:2kg | | | | |
| KSE-06 Case only | | | | |

MAINTENANCE KIT

V Soldering Iron 220V~240V available by assortment of SKC-30 as per Page 71



150mm 150mm 150mm 150mm 125mm #00 #0 #2 .6×75 5.5×100 5.5mm

150mm

KS-03(KSE-03)

• General electronic & job training use



| NN-45 | 125mm | | | |
|----------------|---|-------|--|--|
| PR-16 | Long nose pliers | 150mm | | |
| DS-03 | Screwdriver | #00 | | |
| DS-23 | Output: Out | #O | | |
| DS-64 | | #2 | | |
| DS-33 | ⊖Screwdriver | 4×75 | | |
| DA-01 | DA-01 Alignment screwdriver | | | |
| PTS-01 | Tweezers | 125mm | | |
| | 30W | | | |
| Solder | | | | |
| | Solder paste | | | |
| | Soldering stand | | | |
| Case | :240×115×45mm | | | |
| •Weight: 0.8kg | | | | |

V Soldering Iron 220V~240V available by assortment of SK-14 as per Page 71

KS-04(KSE-04)

TOOL KIT

TOOL KIT

- General electronic & job training use • Environment-friendly polyester-made case (Lining: made of nylon)



Set of 14 items

| NN-45 | Slant edge nippers | 125mm | DN-05 | Nut driver | 5.5mm |
|---------------------|---|-------|--------|------------------|-------|
| PR-16 | Long nose pliers | 150mm | PTS-02 | Tweezers | 125mm |
| | Side cutting pliers | 150mm | SKC-30 | Soldering iron | 26W |
| | ⊕Screwdriver | #00 | | Solder | |
| | Output: Contract Science Contract Sci | #0 | | Solder Paste | |
| | ⊕Screwdriver | #2 | | Soldering stand | |
| DS-33 | ⊖Screwdriver | 4×75 | | Cutter knife (S) | |
| ●Case: 255×150×50mm | | | | | |

●Weight:1.1kg

KSE-04 Case only

Soldering Iron 220V~240V available by assortment of SKC-30 as per Page 71

KS-08

- ●For electronics, PC maintenance, PC modification, etc.
- Environment-friendly polyester-made case (Lining: made of nylon)



ELECTRONICS KIT

| Set of 21 items | | | | | |
|--------------------|----------------------------|-------------|--|--|--|
| NS-03 | Micro nippers | 125mm | | | |
| PS-01 | Miniature long nose pliers | 125mm | | | |
| PTS-01 | Tweezers | 125mm | | | |
| SS-01 | Solder sucker | | | | |
| SS-08 | IC extractor | | | | |
| SS-22 | Spring hook | | | | |
| | Soldering iron | 30W | | | |
| SL-02 | Inspection mirror | | | | |
| SWU-04 | Solder wick | 2.8mm | | | |
| | Solder (1m) | | | | |
| TWH-01 | Hex key wrench set | | | | |
| DN-05 | Nut driver | 5.5mm | | | |
| DM-22 | Precision driver | #000 | | | |
| DM-33 | ⊖Precision driver | 1.8mm | | | |
| o: :: | Phi ll ips bit | ⊕#00 | | | |
| Circuit testing | Phillips bit | ⊕#0 | | | |
| driver with | Phi ll ips bit | <u>⊕#1</u> | | | |
| spare bits | Phi ll ips bit | ⊕ #2 | | | |
| oparo bito | Slotted bit | ⊖3.5mm | | | |
| | Cutter knife (S) | | | | |
| | File (half-round) | | | | |

●Case:255×150×50mm Weight : 1.0kg

KSC-04

Cordless soldering iron (with Multi-holder)

- expands the utility of traditional tool kits.
- General electronic & job training use
- Environment-friendly polyester-made case (Lining: made of nylon)



Cordless soldering iron

| Set | of 1 | 5 ite | ems |
|-----|------|-------|-----|
|-----|------|-------|-----|

| NN-45 | Slant edge nippers | 125mm | DS-33 | ⊖Screwdriver | 4×75 |
|---------------------|---------------------|-------|-------|---------------------------|--------|
| PD-06 | Side cutting pliers | 150mm | SK-60 | Cordless soldering iron() | N/cap) |
| PR-16 | Long nose pliers | 150mm | SK-66 | Hot blow tip | |
| PTS-02 | Tweezers | 125mm | | Solder | |
| DN-05 | Nut driver | 5.5mm | | Solder Paste | |
| DS-03 | ⊕Screwdriver | #00 | | Soldering stand | |
| DS-23 | ⊕Screwdriver | #0 | | Cutter knife (S) | |
| DS-64 | ①Screwdriver | #2 | | | |
| €Case: 255×150×50mm | | | | | |

●Weight: 1.1kg



•For electronics, office automation maintenance, etc.

•Environment-friendly polyester-made case (Lining: made of nylon)



| Set of 18 items | | | | | | |
|---------------------|----------------------|--------|--|--|--|--|
| NS-03 | Micro nippers | 125mm | | | | |
| PR-16 | Long nose pliers | 150mm | | | | |
| PTS-01 | Tweezers | 125mm | | | | |
| PZ-56 | Screw removal pliers | 175mm | | | | |
| DP-03 | Pro-use driver | ⊕#00 | | | | |
| DP-24 | Pro-use driver | ⊕#O | | | | |
| DP-64 | Pro-use driver | ⊕#2 | | | | |
| DP-34 | Pro-use driver | ⊖4.3mm | | | | |
| DN-05 | Nut driver | 5.5mm | | | | |
| | Mini spanner | 5.5×6 | | | | |
| | Mini spanner | 8×9 | | | | |
| TM-04 | Steel rule | 150mm | | | | |
| TZ-05 | Scriber | 220mm | | | | |
| TWH-01 | Hex key wrench set | | | | | |
| TWM-03 | Smart monkey wrench | 150mm | | | | |
| SL-02 | Inspection mirror | | | | | |
| | Cutter knife (S) | | | | | |
| | File (half-round) | | | | | |
| ●Case: 250×180×50mm | | | | | | |
| •Weight: 1.3kg | | | | | | |

KS-28(KSE-28)

Basic assortment of general purpose tools and free space in mesh pocket for your own use

- Soft touch EVA plastic case with double panel
- A4 size pocket is provided on the reverse of upper panel which is capable of documents,
- measuring instrument or notebook P.C. (max. 40mm thick)
- Tool panel is easily detachable with hook, which is convenient for field work.



TOOL KIT

on the reverse





Free space in mesh pocket

KS-28 Set of 22 items

| NN-46 | Slant edge nippers | 150mm |
|--------|------------------------|-------------------|
| PR-16 | Long nose pliers | 150mm |
| PD-06 | Side cutting pliers | 150mm |
| PZ-55 | Screw removal pliers | 150mm |
| PW-08 | Pump pliers | 200mm |
| PTS-01 | Tweezers | 125mm |
| DA-01 | Alignment driver | 100mm |
| DKD-01 | Circuit testing driver | |
| DN-05 | Nut driver | 5.5mm |
| DG-05 | ⊕/⊖Cushion driver | #2/⊖6 |
| DG-21 | ⊖Mini soft driver | 3×100mm |
| DG-24 | ⊕Mini soft driver # | 0×100 mm |
| | | |

 Clear pocket (detachable)

| SS-05 | Tip cleaner with stand | | | |
|------------------------------|-------------------------|-------|--|--|
| SW-30 | Solder | 20g | | |
| | File (half-round) | | | |
| | Measuring tape | 2m | | |
| TS-05 | Open-End wrench set | | | |
| TWH-01 | Hex key wrench set | | | |
| TWM-02 | Adjustable angle wrench | 200mm | | |
| | Cutter knife (S) | | | |
| | Vinyl tape | | | |
| ●Case : 405×306×100mm (Ext.) | | | | |

380×276×73mm (Int.) ●Weight : 3.7kg KSE-28 Case and panel 1.8kg

SKC-30 Soldering iron

Soldering Iron 220V~240V available by assortment of SKC-30 as per Page 71

Cordless Soldering Iron can be assorted instead of OPTION SKC-30 at customer's option.

63

26W

TOOL KIT

KS-11(KSE-11)

Field service and maintenance of production lines & machinery

KS-11(Tool kit) KSE-11 (Case and panel only) - Net 5 kg



Set of 60 terms NS-03 Micro nippers 125m NN-46 Stant edge nippers150m PS-01 Miniature pliers 125m PA-46 Needle nose pliers 150m PD-06 Side cutting pliers 150m PC-06 Combination pliers 150m PA-10 Pump pliers 250m PA-01 Wire pliers Pm-01 PH-03 Lock holder 150m PH-03 Lock holder 150m PH-33 Electronic snips 145 #0C ①Screwdriver DS-24 ⊕Screwdriver ⊕Screwdriver #O -44 # DS-44 ⊕Screwdriver #1 DS-64 ⊕Screwdriver #2 DS-13 ⊖Screwdriver 2.6×75 DS-34 ⊖Screwdriver 4×100 Alignment driver 15 DA-02 DM-22 Precision driver #3/0 DM-22 ⊕Precision driver # DM-23 ⊕Precision driver 1 DM-33 ⊕Precision driver 1 DM-34 ⊖Precision driver 2 DZ-24 Screw-holding driver DG-12 Long progrip driver #2×22 DN-02 Nut driver DN-04 Nut driver #00 .8mm .3mm #O 1mm mm DN-05 Nut driver 8mm DN-08 Nut driver 04 Ratchet stubby driver set DZ-08 Offset driver set

Set of 60 items

| TWM-02 | Adjustable angle wrench | 200mm |
|--------------|--|---------|
| TS-05 | Mini spanner set (5 | 5 pcs.) |
| TR-03 | Taper reamer | 20mm |
| | Hammer | |
| | Measuring tape | 2m |
| | Hex key wrench : | set |
| TWS-02 | Socket wrench s | et |
| TFS-02 | File set | |
| | Handy saw | |
| | Soldering iron | 32W |
| SW-31 | | 150g |
| SS-05 | Tip cleaner with: | stand |
| SS-02 | Solder sucker | |
| | C Extractor | |
| SS-21 | Spring hook | |
| SS-22 | Spring hook | |
| SL-03 | Inspection mirror | |
| TP-35 | Magnetic pick-up | o tool |
| KP-03K | Parts box | |
| SWU-04 | Solder wick | 2.8mm |
| | Vinyl tape | |
| | Pen light | |
| | Cutter knife (L) | |
| ZC-19 | Oiler | 20cc |
| | Flat brush | |
| | Poly bottle 50cc. | /2pcs. |
| | Poly bottle 100cc/ | /2pcs. |
| | Silicon cloth | |
| SD-10 | Digital Multimete | er |
| 455× 440× | num Case : :330×176 (Ex :315×168 (Int at : 12kg | |

Soldering Iron 220V~240V available by assortment of SKC-30 as per Page 71



ATTACHE TOOL KIT

KS-12

Stylish and functional tool kit



Set of 25 items

| NS-03 | Micro nippers 125mm |
|--------|------------------------------------|
| PS-01 | Miniature pliers 125mm |
| PD-06 | Side cutting pliers 150mm |
| PTS-01 | Tweezers 125mm |
| DA-51 | Ceramic alignment driver |
| DG-21 | ⊖Mini soft driver 3×0.4 |
| DG-22 | Mini soft driver #OC |
| DG-24 | Mini soft driver #C |
| DG-01 | ⊖Pro grip driver 5.5×0.7 |
| DG-04 | Pro grip driver #2 |
| DST-05 | ⊕⊖Reversible stubby driver #2/⊖6.3 |
| SD-10 | Digital multimeter |
| SKC-30 | Soldering iron 26W |
| SS-02 | Solder sucker |
| SS-08 | IC extractor |
| SS-10 | PCB connector extractor |
| SW-30 | Solder 20g |
| TWM-03 | Smart monkey wrench 150mm |
| TWH-04 | Hex key wrench set |
| TS-05 | Mini spanner set (5 pcs.) |
| TM-04 | Steel rule 150mm |
| PA-06 | Wire stripper |
| SWU-04 | Solder wick 2.8mm |
| SL-50 | Pocket loupe |
| | Cutter knife (S) |
| | |

Dividing plate for soldering box & tester

| | | | | | | | (mm) |
|--------------------|--------------|--------------|--------------|------|------|------------|-------|
| Item No. | L | W | Н | HL | HB | Weight(kg) | Color |
| KS-12 | 465 (450) | 345 (320) | 129 (105) | (35) | (70) | 6 | Black |
| (): Internal size | | | | | | | |

V Soldering Iron 220V~240V available by assortment of SKC-30 as per Page 71

- 65



KA-22

KSE-12

Neatly designed for a stylish appearance

Incorporating empty tool panel and document pocket

Attractive and functional multipurpose case

- Light-weighted & durable case made of ABS resin
- Nylon 100% (Hypalon) interior finish for more than just business
- Tool panel (option) can be hidden from free space by dividing plate.
- Comes with multipurpose pockets

BODY

This handsome case is molded of ABS plastic with simple form line, lightweight and durable construction. Suggest a new field of use and produce the joy in possession of the case.

DIAL LOCK

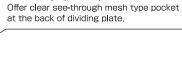
Add security with combination dial lock and two pushing locks. Open easily by sliding outside the 2 buttons.

ATTACHE CASE(WIDE TYPE)

Besides business use, add functional and

fashionable pockets and storage pouch to

meet multipurpose requirements.



INSIDE



(Remark) The dime ate the internal s ject to within a t wed. H=HL+H



| | | | | | | | (mm) |
|----------|-----|-----|-----|----|----|------------|-------|
| Item No. | L | W | Н | HL | HB | Weight(kg) | Color |
| KA-22 | 450 | 320 | 105 | 35 | 74 | 2.4 | Black |

| hand and | | | |
|----------|--|--|--|
| | | | |

| nsio | ns | in | did | 28 |
|-------|----|----|------|----|
| izes | bι | ıt | sι | ıb |
| olera | nc | e | allo | J۱ |
| IВ | | | | |
| | | | | |
| | | | | |
| | | | | |

SABS ATTACHE CASE



KA-50•51

- Featuring a matt surface in silver color
- Streamline appearance









| | Internal | | (mm) | | | |
|-------|----------|-----|------|----|----|------------|
| Item | L | W | Н | HL | HB | Weight(kg) |
| KA-50 | 440 | 320 | 105 | 40 | 65 | 2.6 |
| KA-51 | 440 | 320 | 130 | 50 | 80 | 2.8 |

Stylish round corne

-

Tool panel affixed to shell with Velcro and detachable

KA-57

• Stylish case coming with shock-proof sponges and tool panel





Wavy formed urethane (upper shell) and cut sponges (body) protect contents such as camera, camcorder, etc.



| External dimensions (Internal dimensions) | | | | | (mm) | | | |
|---|----------|----------|----------|------|------|------------------------|------------|--|
| Item No. | L | W | Н | HL | НВ | Tool Panel (single) | Weight(kg) | |
| KA-57 | 450(435) | 330(314) | 135(120) | (52) | (68) | 420×300 | 4.1 | |



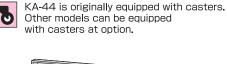
| avy sponge | | |
|--------------------|---------------------|--|
| | 15mm | |
| | 15mm | |
| ut sponge | | |
| h cut sponge (15v1 | 5mm) can be removed | |

so as to fit the size and shape of content.

KA-30•42~44

- Heavy-duty type
- Made of 1.5mm-thick rugged aluminium of anodized finish
- All the corners reinforced with
- aluminum frame and rivets
 Case inside in melton finish







(Remark) The dimensions indicate the internal sizes but subject to within a tolerance allowed. H = HL+HB

| Internal Size | | | | | (mm) | (kg) | |
|---------------|-----|-----|-----|----|------|------|----------|
| Item No. | L | W | Н | HL | HB | Wgt. | Max.Load |
| KA-30 | 440 | 315 | 165 | 55 | 110 | 4.3 | 15 |
| KA-42 | 540 | 320 | 160 | 50 | 110 | 4.6 | 15 |
| KA-43 | 590 | 410 | 205 | 50 | 155 | 6.2 | 00 |
| KA-44 | 650 | 450 | 197 | 60 | 137 | 7.4 | 20 |

ALUMINIUM CASE FOR CLEANROOM

Water-repellent, anti-static or cleanroom

type is available at option.

KAC-30.42

- Constructed of aluminum sheets without any accessories nor material generating dust
- KAC-42 is ideal for storage of precision instruments in cleanroom







Durable handle

| Internal Size | | | | | (mm) | (kg) | |
|---------------|-----|-----|-----|----|------|------|----------|
| Item No. | L | W | Н | HL | HB | Wgt. | Max.Load |
| KAC-30 | 440 | 315 | 165 | 55 | 110 | 4 | 15 |
| KAC-42 | 540 | 320 | 160 | 50 | 110 | 4.7 | 15 |

0

KA-54

• Featuring a glossy surface in black color Streamline appearance

67





Item L W H HL HB Weight(kg) KA-54 440 320 130 50 80 2.8

S

KP-01~03(KP-95~97)

Durable transparent box, ideal for transporting, classification and storage of small parts.

- Lightweight, compact and durable component box made of polypropylene
- Interchangeable dividing plates can be configured to create storage space
- See-through, transparent box. With article labels.
- Optional dividing plate set
 - KP-95 : 6 pcs/set adaptable to KP-01 KP-96 : 6 pcs /set adaptable to KP-02 KP-97 : 6 pcs./set adaptable to KP-03



●KP-01 Ext. Size : 157×102×42mm 4 pcs. of dividing plates included

●KP-02 Ext. Size : 207×145×40mm 12 pcs. of dividing plates included

●KP-03 Ext. Size : 255×190×40mm

KP-02K•03K(KP-96•97)

Heavy duty transparent parts box, ideal for classification and storage

- Super clear transparent lid owing to shock-proof polycarbonate resin
- Micro-rib system of divider setting
- Material: Lid Polycarbonate
 - Body & Divider Polypropylene
 - Latch ABS resin
- Optional dividing plate set
- KP-96 : 6 pcs./set adaptable to KP-02K KP-97 : 6 pcs./set adaptable to KP-03K



●KP-02K Ext. Size : 205×145×40mm 18 pcs. of dividers included

Compact, lightweight and portable.

External Size:120×92×25mm

KP-04

components.

MICRO-RIB SYSTEM Rib Divider

2 patterns of interchangeable divider setting are possible to adjust interval of partition at every 3.2mm

●KP-03K

• Compact IC storage box made of anti-static plastic body • Comes with 10mm-thick high density conductive foam







KP-51 External Size : 80×135×25 Internal Size : 75×130×19

KP-52 External Size : 230×145×28 ● Internal Size : 219×134×22

16 pcs. of dividing plates included



Most suitable for electronic parts and other small

Material: Styrene resin(lid), Polypropylene (body).











Soldering Equipment



SK-30/40SERIES

SOLDERING IRON

Excellent built-in ceramic heater. Compact & light-weight design suitable for accurate soldering operations

- High efficient ceramic heater permits quick heat-up, enabling soldering operation only in about 1 minute.
- The use of a small connector connecting heater and power cord permits exchange of heaters with one touch.
- Short length from grip to tip for easy operation
- Screw type tip permits easy exchange of tips.
- Perfect for accurate soldering operation with sharp soldering tip (long life and non corrosive).
- With heat-resistance cap for handy storage after use. (SKC-30/31/32/40/41)

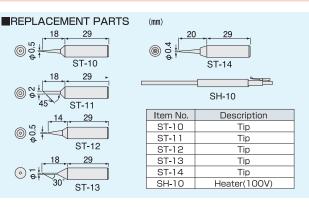


| Specification | | | | | | | | |
|---------------|---------------|------|-------|-------|--------|---------------|-----------------------|--|
| Item No. | Max.Tip Temp. | Watt | Tip | L'gth | Wgt(g) | Rated Voltage | Insulation Resistance | |
| SK-30 | | | | | | | | |
| SKC-30 | 400℃ | | ST-10 | | | | | |
| SKE-30 | | | | 000 | | | | |
| SK-31 | | 26W | | 202mm | 130 | 100V | 100M0 | |
| SKC-31 | 440℃ | 2010 | ST-11 | | 130 | 1000 | 1000012 | |
| SKE-31 | | | | | | | | |
| SK-32 | 390°C | | ST-14 | 204mm | | | | |
| SKC-32 | 3300 | | 51-14 | 204 | | | | |

SKC with Heat-Resistant Cap. SKE with 3-pin plug.

V 220V 230V 240V are also available. © REF. Page 71

Caution Ceramic heater is not elastic and may be broken by excess shock. Please refrain from beating and wrenching.



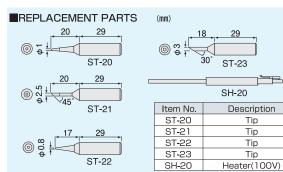
SK-40 SERIES

Specification

| opeenidation | | | | | | | | |
|--------------|---------------|------|-------|-------|--------|---------------|-----------------------|--|
| Item No. | Max.Tip Temp. | Watt | Tip | L'gth | Wgt(g) | Rated Voltage | Insulation Resistance | |
| SK-40 | 450°C | | ST-20 | | | | | |
| SKC-40 | 4500 | 32W | 31-20 | 204mm | 130 | 100V | 100ΜΩ | |
| SK-41 | 470°C | 32W | ST-21 | | | | | |
| SKC-41 | | | | | | | | |

SKC with Heat-Resistant Cap.

Caution Ceramic heater is not elastic and may be broken by excess shock. Please refrain from beating and wrenching.





ST-22 Max. Tip Temp. 430°C ST-23 Max. Tip Temp. 500 °C Ceramic heater is not elastic and may be broken by excess shock. Caution

Please refrain from beating and wrenching.

ST-20 ST-21

© 0.8 € 0.8 ST-22

Tip Tip ST-22 Tip ST-23 Tip Heater(220~240V) SH-12



SKB-70 Contents ●Body(SK-71 solder tip) ●Hot blow tip

Gas Catalyst Reaction System 200°C~500°C (Equivalent to 20~80W electric soldering iron)

650°C MAX

28ml

Abt 4 hours

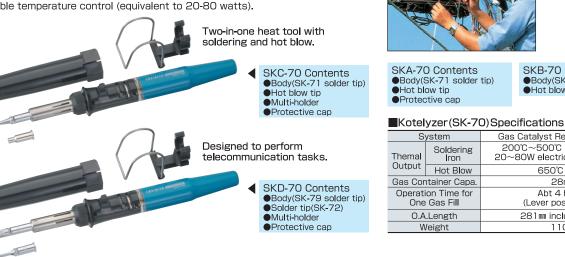
(Lever position : 2)

Multi-holder creates new field of cordless soldering iron!

- Perfect for in-field service and maintenance where instant heat is required.
- Super quick heat up with one touch operation.

SK-70SERIES

- Completely cordless assures no electric leakage no E.M.I.
- Flameless and safe heat generating system by gas catalyst reaction.
- Variable temperature control (equivalent to 20-80 watts).



Telecommunication field

System

One Gas Fill

Soldering Iron

Hot Blow

SKD-70 set comes with a high-power tip for cable maintenance tasks and an accurate tip for telephone office service.

| | | r tip(SK-72) | | |
|--|---|------------------------|-----------------|---|
| | Multi- | | O.A.Length | 281mm including cap |
| | Protec | ctive cap | Weight | 110g |
| | | | | |
| | | | | |
| F | | | | |
| | SK-70SER | ES | REP | LACEMENT PARTS |
| Three function of Multi-holder | | | | |
| assures safe and wide task | Tip(Iron coated) | (mm) | Protective cap | |
| | 18.5 | 13 | | |
| field ! | ¢1 SK-71 | ¢3 SK-80 | 🕂 SK-88 | |
| Hanging from | †P | | | |
| cable | 18.5 | 13 | | |
| Cable | W3.3 D SK-72 | W5 SK-81 | Cleaning sponge | |
| | + <u><u><u></u></u></u> | ↓ <u> </u> | \wedge | |
| | 18.5 c | | | Item No. Description |
| | ¢2 SK-73 | | | SK-71 Tapered needle |
| | ¥45° •••••••••••••••••••••••••••••••••••• | Hot blow tip | ~ | SK-72 Chisel |
| | | | SK-89 | SK-73 Ø2mm spade |
| 2 Magnetic | ¢3 | ¢1.5, □ [SK-82] | | SK-74 Ø3mm spade |
| attachment | ' ∼ 45° ~~~ | | Heat shrink | SK-75 Tapered needle |
| A Contraction of the second se | | | W/A a | SK-76 Ø2mm spade |
| | φ0.5 SK-75 | φ3.3 ΕΞΕ SK-83 | | SK-77 Tapered pyramid |
| | 17.5 | 4 (<u></u> | SK-93 | SK-78 Offset tapered needle |
| | | | SK-94 | SK-79 High powered chisel |
| | | ¢4.9 SK-84 | ●Ceramic unit | SK-80 High powered round head needle |
| Otarral | 18.5 | φ4.9 <u>[[]3K-04</u>] | | SK-81 High powered long taper chisel |
| 3 Stand | | Hook fitting | | SK-82 Hot blow tip |
| | | | | SK-83 Hot blow tip |
| And | | | SK-96 | SK-84 Hot blow tip |
| | 1 ³⁰ HSK-78 | | | SK-85 Hook fitting |
| | ¢1 18 | SK-85 | | SK-88 Protective cap |
| | . 13 . | | | SK-89 Cleaning sponge |
| | W8 SK-79 | | | SK-93 Heat shrink W-22 |
| Multi-Holder is useable for both SK-60 series | | | | SK-94 Heat shrink W-18 |
| and SK-70 series. | | | | SK-96 Ceramic unit |
| | | | | |
| | | | | |
| SKM-40•SK-42~47 | HANDY | KOTELYZER | SK-90•9 | 5 SAS REFILL |
| | | (mm) | | |
| Advanced and streamlined design Hot blow & powerful torch | | 14 | | ur original gas for refill. fied odorless gas for industry |
| Improved heat-generating structure of met | al catalvet | © ¢1 <u>⊂ [] ⊙</u> | use) | neu ouoriess gas ior industry |
| Come with cleaner stand & solder | aroataiyət | SK-42 | u38) | |
| | | 14 | | |

- Come with cl
- Capable of continuous use in one hour



| | Speci | fications | Killing Contraction |
|---|---------|----------------|---|
| ~ | Sy | rstem | Gas Catalyst Reaction System Pressure Gas Burning System (Torch) |
| | Thermal | Soldering Iron | 200°C~500°C (Equivalent to 20~60W electric soldering iron) |
| - | Output | Hot Blow | 650°C MAX |
| - | | Torch | 1300°C MAX |
| | | 101011 | 10000 10000 |

Operation Time

for One Gas Fill

O.A.Length

Weight

about 60 min.

197mm Cap Included 74g

(Lever position: Middle)

@W2. 0E SK-43 0 SK-44 (\square) - XE SK-45 0 φ4.7 [] ő SK-46 SK-47

| | 61(47 |
|----------|------------------|
| Item No. | Description |
| SK-42 | Tapered Needle |
| SK-43 | Chisel |
| SK-44 | ϕ 2mm Spade |
| SK-45 | Chisel |
| SK-46 | Hot blow tip |
| SK-47 | Eiector Unit |

SK-90

ENGINEER

265ml





480ml

Torch

Hot Blow

SS-15 2P-3P PLUG CONVERTER

Convertes 3P Plug with ground wire into 2P.



ZC-70·71

Ideal for rework of SMD solders.

Pin-point accuracy with no spillage

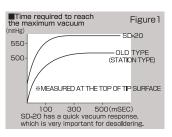
- ZC-70
- FLUX 50cc
- FLUX DISPENSER
- NEEDLE (Hole diam. 0.25/0.5mm)
- 1pce. each ● CLEANING PIN 1pce. each
- ZC-71
- FLUX DISPENSER (BOTTLE)
- NEEDLE (Hole diam. 0.25/0.5mm)
- 1pce. each ● CLEANING PIN 1pce. each

SD-20(SD-21~26•SD-60~88)

High-capacity ceramic heater and powerful motor, capable of suction and hot air blow.

- Built-in motor, diaphragm type vacuum pump, temperature adjustable circuit and indicator light.
- ullet Low noise and low vibration due to floating mechanism.
- Minimum reaching time to the maximum vacuum and powerful suction capacity.
- Ideal for desoldering on 4-8 layered PCB's.
- No static damage to IC etc. due to carboniferous body.





Temperature Characteristics Figure2 500C-400-300-200-100-*THROUGH HOLL PCB (BOTH SIDES) DESOLDERING OF 40P1C HOLE DIA. OF TIP: 01.0 ST-UPT TIMPERATURE: 370C

REPLACEMENT PARTS

2 3(min.)

| Item No. | DESCRIPTION |
|----------|------------------------------|
| SD-61 | TIP Ø0.8 |
| SD-62 | TIP Ø1.0 |
| SD-63 | TIP Ø1.5 |
| SD-87 | TAPERING SLIM TIP ϕ 0.8 |
| SD-88 | TAPERING SLIM TIP ϕ 1.0 |
| SD-21 | HEATER HOLER |
| SD-22 | HEATER ASSY |
| SD-23 | PIPE SETTER |
| SD-24 | FILTER CARTRIDGE (5pcs.) |
| SD-25 | SEAT VALVE |
| SD-26 | DIAPHRAGM |

Contents

- Carrying case
 Desoldering tool
- · Spare tip (ϕ 1.5)
- · Spare filter cartridge (2pcs.)
- · Cleaning pin

SPECIFICATIONS

| POWER SOURCE | AC100V · 50/60Hz |
|---------------------------------------|--------------------------------|
| PUMP | DIAPHRAGM TYPE |
| MOTOR OUTPUT | 12W |
| VACUUM ATTAINED | 650mmHg |
| TIME REQUIRED TO REACH MAXIMUM VACUUM | 0.2 seconds |
| AIR FLOW RATE (OPEN) | 15 liter/min. |
| HEATER | 100W(Ceramic) |
| CONTROL SYSTEM | Feed back zero cross over type |
| TEMPERATURE RANGE | 350~500°C |
| TIP (HOLE DIA.) | 1.0ϕ (STANDARD) |
| POWER SUPPLY CORD | 3P CORD (W GROUND)1.8m |
| WEIGHT | 420g(excluding cord) |

TOOL STAND



SD-60

SD-30(SD-29•31•86) SMD ACCESSORY KIT

 For easy removal of SMD components including QFP & SOP owing to Hot Blow function of SD-20





Contents: SD-29 Filter Pipe SD-31 Stainless Wire Reel SD-86 Hot Air Nozzle



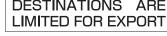
ENGINE



1

SOLDER CLEANER SD-20





INDICATOR LIGHT When the heater is on, light goes on and when the temperature reaches set-up level, it flickers.

> Temperature Adjustment Dial

(350~500°C)



SS-20

SS-05

• Weight: 75g

• Heat resistance engineering plastic on iron holder for cutting heat conduction to iron's grip

● Glass-filled nylon resin (Housing) featuring heat resistance of 130℃

Comes with 2 pcs. of cleaning sponges of different density (blue & yellow)

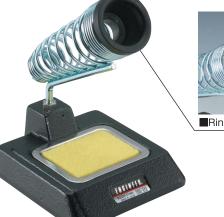
O-ring creates airtight condition to keep sponge moist.

• Easy to open the lid owing to sliding-lock structure

- Holds any soldering iron up to 13mm diam.
- 700g massive base stand creates high stability on bench.
- Dimensions:80Wx140Hx90D (mm)









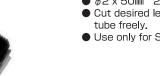
Ring detachable

64

75

(mm)

32 O-ring in lid Sliding lock SS-01.02 All aluminum construction, well designed to suck up melted solder easily and efficiently with one-hand plunger action. Self-cleaning shaft allows high productivity of continual work without clogging. SS-01 •Teflon tip : ϕ 2.2mm (Int.) Ideal for desoldering work at dense spot on PCB •Body: ϕ 14 x 170mm SS-02 Elastic and heat-resistant nozzle can stick to soldering iron on board closely and suck up solder powerfully with less residue. SS-02 •Silicone nozzle : ϕ 2mm (Int.) ϕ 4mm (Ext.) High-power and efficient absorption by means of elastic nozzle contact •Low maintenance cost owing to spare tube only required for replacement ●2 pcs. of spare silicone tubes (50mm long) originally included ●Body: *φ*20 x 153mm ENGINEER. 88-02 Plunger is within easy reach of thumb. It is ideal for one-hand operation Heat resistant (350°C) Compact and durable in continuous work. silicone nozzle aluminum body Item No. Cylinder Capa. Wgt. SS-01 33g 5 ml SS-02 9 ml 52g REPLACEMENT NOZZLE FOR SS-01 **SS-11** SS-16 REPLACEMENT SILICONE TUBES ● *ϕ*2 x 50mm 2 pcs./set • Cut desired length of tube freely. (mm) SS-11 Use only for SS-02 \bigcirc φ2.2 φ12



SWS-06~12 SUPERIOT RMA SOLDER

No cleaning high performance resin core solder, highest grade flux construction

- Completely non-corrosive flux residue which requires no cleaning after soldering
- Everlasting and reliable bonding owing to non-conductive and non-absorbable residue
- Wide solder spread and wetting for speedy work

76

• Contains organic amine activated rosin to meet highest JIS grade & MIL-RMA.



Superiot RMA / For use on precision PCB of copper and its alloy

| Item No. | Tin/Lead Ratio, Melting point | Flux(Wt%) | Soluble resistance Ω • cm | Insulation resistance Ω | Wire diam. (mm) | Wire length. (m) |
|----------|----------------------------------|---------------------|------------------------------|--------------------------------|--------------------|---------------------|
| SWS-06 | | 1 70/ | | 3×1013 | 0.6 | 5.6 |
| SWS-08 | Sn60/Pb40 | 1.7% Noncleaning | 1×10⁵ | (Normal temp.) | 0.8 | 4.4 |
| SWS-10 | 183~190°C | flux | 1 × 10 | 5×1012 | 1.0 | 5.5 |
| SWS-12 | | nux | | (Higher humidity) | 1.2 | 4.6 |

SWA-06~12 SUPERIOT RA SOLDER

No cleaning high performance resin core solder for soldering stainless steel

- Non-corrosive flux residue featuring everlasting bonding
 Featuring stable bonding owing to non-conductive and non-absorbable residue
- Continuous and high performance activation makes it possible to solder stainless steel.
- Contains organic amine activated rosin to meet JIS standard.



Superiot RA / For use on stainless steel & nickel

| Item No. | Tin/Lead Ratio, Melting point | Flux(Wt%) | Soluble resistance Ω • cm | Insulation resistance Ω | Wire diam. (mm) | Wire length. (m) |
|----------|----------------------------------|-----------|------------------------------|--------------------------------|--------------------|---------------------|
| SWA-06 | | 0.70 | | 2×1013 | 0.6 | 5.6 |
| SWA-08 | Sn60/Pb40 183∼190℃ | 2.7% | 6×10⁴ | (Normal temp.) | 0.8 | 4.4 |
| SWA-10 | 183~190°C | flux | 0.10 | 2×1012 | 1.0 | 5.5 |
| SWA-12 | | nux | | (Higher humidity) | 1.2 | 4.6 |

SWS-56~82 SUPERIOT RMA SOLDER

SWS-80

Item No. Wire diam. (m) Weight (g) SWS-56 0.6 SWS-58 0.8 SWS-60 1.0 SWS-62 1.2

 SWS-62
 1.2

 SWS-76
 0.6

 SWS-78
 0.8

 SWS-80
 1.0

 SWS-82
 1.2

SWA-56~82

SUPERIOT RA SOLDER



SWA-58

| Item No. | Wire diam. (mm) | Weight (g) |
|----------|--------------------|---------------|
| SWA-56 | 0.6 | |
| SWA-58 | 0.8 | 500 |
| SWA-60 | 1.0 | 500 |
| SWA-62 | 1.2 | |
| SWA-76 | 0.6 | |
| SWA-78 | 0.8 | 1000 |
| SWA-80 | 1.0 | 1000 |
| SWA-82 | 1.2 | |

SWU-02~06

SWS-58

- SODER-WICK® Highest copper braid features fast absorption of solder.
- No cleaning process required and leaving less residue of flux on circuit board



For desoldering highly dense SMD

SWU-02 15mm×15m



For desoldering small electronic parts or plated through hole SWU-03 1.9mm×1.5m



For desoldering medium electronic parts or solder bridges SWU-04 2.8mm×1.5m



For desoldering large-sized parts or terminals

SWU-05 3.9mm×1.5m



SOLDER WICK



For use at large solder lugs

SWU-06 5.6mm×1.5m

*Product of chemtronics, U.S.A

SW-11~53

- High quality solder wire for precision electronic components.
 No paste is necessary because of activated rosin.



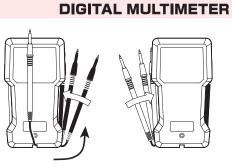
| Item No. | diam.(mm) | Weight(g) |
|----------|-----------|-----------|
| SW-11 | | 150 |
| SW-12 | 0.6 | 500 |
| SW-13 | | 1000 |
| SW-21 | | 150 |
| SW-22 | 0.8 | 500 |
| SW-23 | | 1000 |
| SW-30 | | 20 |
| SW-31 | 1.0 | 150 |
| SW-32 | | 500 |
| SW-33 | | 1000 |
| SW-41 | | 150 |
| SW-42 | 1.2 | 500 |
| SW-43 | | 1000 |
| SW-51 | | 150 |
| SW-52 | 1.6 | 500 |
| SW-53 | | 1000 |

SD-10

Multifunctional and compact : The ultimate tool for all your measurements!

- 3999 Counts, Auto-ranging
- Magnetic attachment to a metallic surface
- Gold-plated test leads for corrosion-resistance





Test leads can be stored conveniently.

| Operating principle | Dual integration | | | | |
|---------------------|------------------|----------------|-------------------|--|--|
| Display | LCD, 3999 Counts | | | | |
| Range switch | Auto range | Auto range | | | |
| Auto power off | Approx. 30 | minutes (ca | n be disabled) | | |
| Sampling | 3 times / s | ec. | | | |
| Operating | O°C to 40°C | less than 8 | 0% RH | | |
| temperature | (without co | ndensation) | | | |
| Storage | -10°C to 60 | °C less than | 70% RH | | |
| temperature | (without co | ndensation) | | | |
| Power | CR2032(3 | V) lithium ba | ttery x 1 | | |
| Battery life | Approx. 12 | 0 hours | | | |
| Dimensions | | 7(H) x 12.5 | (D)mm | | |
| and weight | | lg (incl. batt | | | |
| Lead length | Approx. 70 | cm | | | |
| Standard | IEC61010- | | OV.CATII 300V | | |
| Accessories | | nanual, Soft | | | |
| | poration | | | | |
| Function | Range | Resolution | Accuracy | | |
| | 4V | 0.001V | | | |
| | 40V | 0.01V | | | |
| DCV | 400V | 0.1V | $\pm(1.0\%+3dgt)$ | | |
| | 600V | 1V | - | | |
| | 4V | 0.001V | | | |
| | 40V | 0.01V | | | |
| ACV | 400V | 0.1V | \pm (2.0%+5dgt) | | |
| | 600V | 1V | - | | |
| | 400Ω | 0.1Ω | | | |
| | 4kΩ | 0.001kΩ | - | | |
| | 40kΩ | 0.01kΩ | | | |
| Resistance | 400kΩ | 0.1kΩ | \pm (2.0%+5dgt) | | |
| | 4MΩ | 0.001MΩ | - | | |
| | 40MΩ | 0.01MΩ | - | | |
| | 5Hz | 0.001Hz | | | |
| | 50Hz | 0.01Hz | | | |
| - | 500Hz | 0.1Hz | | | |
| Frequency | 5kHz | 0.001kHz | $\pm(0.5\%+5dgt)$ | | |
| | 50kHz | 0.01kHz | - | | |
| | 100kHz | 0.1kHz | - | | |
| | 50nF | 0.01nF | | | |
| | 500nF | 0.1nF | 1 | | |
| Capacitance | 5uF | 0.001uF | $\pm(5.0\%+5dgt)$ | | |
| | 50uF | 0.001uF | | | |
| | 100uF | 0.1uF | 1 | | |
| XA | | | /·Frequency is | | |

*Accuracy assurance of ACV.Frequency is limited to sine wave.



* 1+1 Structure : 1 pce. of eyepiece and 1 pce. of objective lens

* 1+2 Structure : Achromatic Lens - combination of different refractive lens minimizes chromatic aberration.

* 5-fold lens : superior to achromatic lens in aspect of no aberration and creates clearer image.





SL-80

SL-81

SL-82

SL-83

1.8

2.3

2.7

3.5

SL-85

SL-86

SL-87

SL-88

ESD HEMICALS

 The size of all the replacement lens is common and suitable for any head loupes.

1.8

2.3

2.7

3.5

ESD Products and Chemicals





ZC-44~49 STATIC CONDUCTIVE GLOVES

- Surface resistivity : $10^5 \sim 10^6 \Omega$ sq.(Finger) $10^7 \Omega$ sq.(Palm) ldeal for clean room, assembly of electronic devices, handling of
- plastic products, etc. • Copper sulfide mixed with acryl/nylon creates an excellent conductive effect (Finger Part)
- Seamless and dust-free mono-filament
- Chemical dyeing of conductive element features less reduction of conductivity withstanding repeated washing
- Material : Fabric Nylon 90% Acryl 10%
 - : Coating Polyurethane Resin



(mm)

A×B

80×210

85×220

90×230

S

Μ

L





MANTI-STATIC GLOVES ZC-51~56

- Surface resistivity : $10^6 \sim 10^8 \Omega$ sq.
- Ideal for any work in the facility where anti-static should be controlled
- Seamless and dust-free mono-filament
- Washable with ordinary detergent
- Material : Fabric Nylon 75% Acryl 25%
 - : Coating Polyurethane Resin







| Fingerti | p Coati | ng (mm) |
|----------|---------|---------|
| Item No. | Size | A×B |
| ZC-51 | S | 75×190 |
| ZC-52 | М | 88×200 |
| ZC-53 | L | 89×215 |

| V''' B | Pa |
|--------|------|
| | Item |
| | ZC- |
| | ZC- |
| A | ZC- |

| Palm C | g (mm) | |
|----------|--------|--------|
| Item No. | Size | A×B |
| ZC-54 | S | 77×210 |
| ZC-55 | М | 90×220 |
| ZC-56 | L | 95×230 |

ZC-38~43

Fingertip Coating (mm)

S

Μ

L

A×B

72×185

83×190

85×200

Item No. Size

ZC-44

ZC-45

ZC-46

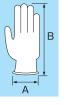
ZC-49

- Flexible & comfortable gloves made of elastic and breathable nylon fiber
- Ideal for use in clean room and handling of C.R.T., electric bulb. compact disc, glass, etc.
- Seamless and dust-free mono-filament
- Non-slip coating for accurate assembly work
- Washable with ordinary detergent
- Material : Fabric Wooly Nylon
 - : Coating Polyurethane Resin





| Fingertip Coating (mm) | | | | |
|------------------------|------|--------|--|--|
| Item No. | Size | A×B | | |
| ZC-38 | S | 77×185 | | |
| ZC-39 | М | 90×190 | | |
| ZC-40 | L | 90×200 | | |



I

| Palm Coating (mm | | | |
|------------------|------|--------|--|
| Item No. | Size | A×B | |
| ZC-41 | S | 80×210 | |
| ZC-42 | М | 90×220 | |
| ZC-43 | L | 95×230 | |
| | | | |

ZC-82-84-86 STATIC CONDUCTIVE BAG

- ${\ensuremath{\bullet}}$ Surface resistivity : $10^4\Omega$ or less
- Color : Black
- Thickness : 0.05mm Material : Polyethylene (Carbon contained)



- ZC-92·94·96 **MANTI-STATIC BAG** Surface resistivity : 10¹¹Ω or less
- Color : Blue Transparent
- Thickness: 0.05mm
- Material : Polyethylene

| Item No. | Size(mm) | Package |
|----------|----------|---------|
| ZC-92 | 100×150 | 100pcs. |
| ZC-94 | 200×300 | 100pcs. |
| ZC-96 | 300×450 | 100pcs. |

Palm Coating Item No. Size ZC-47 ZC-48



RUST REMOVER

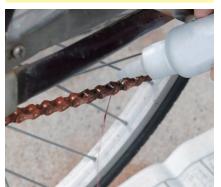
ZC-28

Amazing - How quickly it cleans rust off!

- Since it is a neutral liquid, you can work safely (it does not contain acid or alkali).
- Rust on small components, such as rusted screws, can be removed in seconds.
- No need to scrub.



SAFE:Neutral liquid Less harmful to bare skin (unlike acid or alkali)



Before

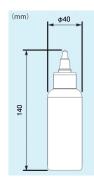
PRODUCT VIDEO











ZC-19

- Compact-sized and handy oiler
- Nozzle extendable (60mm-long approx.) for oiling at hard-to-reach area
- Capacity: 20ml
- Material: PE (Bottle/Cap), Brass (Nozzle)
- Usage: Oil, Water, Cleaning fluid, etc.

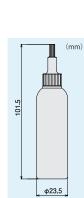
How to use

- ① Extend nozzle upward.
- Unscrew plastic cap.
- 3 Remove packing inside.
- ④ Pour oil in bottle.
- (5) Fasten the packing and the cap with nozzle in order.
- % Keep the bottle upright in storage.



Machinery maintenance Lubrication





D

ITEM No. CODE No. ITEM PAGE 49 DA-01 1001 Alignment Screwdriver 1002 Alignment Screwdriver 49 DA-02 DA-03 Discon. Alignment Screwdriver DA-40 1040 Alignment Screwdriver 49 DA**-**48 1048 Ceramic Alignment Screwdriver 48 DA-50 1050 Ceramic Alignment Screwdriver 48 DA-51 1051 Ceramic Alignment Screwdriver 48 DA-52 1052 Ceramic Alignment Screwdriver 48 1053 Ceramic Alignment Screwdriver DA-53 48 DA-54 1054 Ceramic Alignment Screwdriver 48 DA-55 1055 Ceramic Alignment Screwdriver 48 DA-56 1056 Ceramic Alignment Screwdriver 48 DA-57 1057 Ceramic Alignment Screwdriver 48 DA-58 1058 Ceramic Alignment Screwdriver 48 DA-59 1059 Ceramic Alignment Screwdriver 48 DA-72 1072 Ceramic Alignment Screwdriver 48 DA-73 1073 Ceramic Alignment Screwdriver 48 DA-74 1074 Ceramic Alignment Screwdriver 48 DA-75 | 1075 | Ceramic Alignment Screwdriver | 48 DA-76 1076 Ceramic Alignment Screwdriver 48 DA-77 1077 Ceramic Alignment Screwdriver 48 DA-78 1078 Ceramic Alignment Screwdriver 48 DA-79 1079 Ceramic Alignment Screwdriver 48 1081 Ceramic Alignment Screwdriver DA-81 49 DA-82 1082 Ceramic Alignment Screwdriver 49 DA-83 1083 Ceramic Alignment Screwdriver 49 1084 Ceramic Alignment Screwdriver 49 DA-84 1085 Ceramic Alignment Screwdriver 49 DA-85 DA-86 1086 Ceramic Alignment Screwdriver 49 1087 Ceramic Alignment Screwdriver DA-87 49 DA-88 1088 Ceramic Alignment Screwdriver 49 DAP-01 0601 Pentalobe Driver 43 DAT-02 0602 Hex-Lobe Driver 43 DB-15 1315 Ball Point Driver 45 1320 Ball Point Driver DB-20 45 DB-25 1325 Ball Point Driver 45 DB-30 1330 Ball Point Driver 45 DB-40 1340 Ball Point Driver 45 DB-50 Discon. Ball Point Driver 8 DBZ 50B 1448 Handle Grip for DBZ DBZ-51 1451 Replacement Bit for DBZ-60G 9 DBZ 52 1452 Replacement Bit for DBZ 60G 9 DBZ-53 1453 Optional Bit for DBZ-60G 9 DBZ-54 1465 Optional Bit for DBZ-60G 9 DBZ-56 1466 Optional Bit for DBZ-60G 9 DBZ-57 1467 Optional Bit for DBZ-60G 9 DBZ-60G 1462 Rapid Screw Extractor 8 DB7-62 1471 Optional Bit for DB7-60G 9 DBZ-63 1472 Optional Bit for DBZ-60G 9 DBZ-64 1473 Optional Bit for DBZ-60G 9 DBZ-65 1474 Optional Bit for DBZ-60G 9 DG-01 |1101 Pro Grip Driver 38 DG-02 1102 Pro Grip Driver 38 DG-03 1103 Pro Grip Driver 38 DG-04 1104 Pro Grip Driver 38 1105 Cushion Driver DG-05 38 DG-08 1108 Master Grip Driver 38 1109 Master Grip Drive 38 DG-09 DG-11 1111 Extra Long Grip Driver 38 DG-12 1112 Extra Long Grip Driver 38 DG-13 1113 Extra Long Grip Driver 38 DG-14 1114 Extra Long Grip Driver 38 DG-21 1121 Mini Soft Driver 39 1122 Mini Soft Driver 39 DG-22 DG-23 1123 Mini Soft Driver 39 39 DG-24 1124 Mini Soft Driver DH-15 1515 Hex Driver 45 DH-20 1520 Hex Driver 45 DH-25 1525 Hex Driver 45 DH-30 1530 Hex Driver 45 DH-40 1540 Hex Driver 45 DH-50 1550 Hex Driver 45 DH-60 Discon. Hex Driver DJ-01 Discon. Plug Jack Driver Discon. Plug Jack Driver DJ-02 DJ-03 1763 Plug Jack Driver 44 1764 Plug Jack Driver 44 DJ**-**04 DJ-05 Discon. Plug Jack Driver 46 DK-01 1601 Hex Driver Set DK-02 1602 Hex Driver Set 46 DK-03 1603 Ball Point Driver Set 46 DK-04 1604 Nut Driver Set 46 1605 Interchangeable Driver Set 47 DK-05 47 DK-05F Interchangeable Driver Set 1606 Interchangeable Driver Set 47 DK-06 47 Interchangeable Driver Set DK-06F

| DK-07 DK-08 | | | |
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| | Discon. | Interchangeable Driver Set | \succ |
| | 1608 | Interchangeable Driver Set | 47 |
| DK-10 | Discon. | | \sim |
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| DK-13 | | Reversible Precision Dr. Set | 45 |
| DK-14 | 1614 | Nut Driver Set | 46 |
| DK-16 | 1616 | Mini Soft Driver Set | 39 |
| DK-20 | Discon | ⊕Precision Driver Set | \sim |
| DK-21 | | Precision Driver | ĸ |
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| DK-22 | | Precision Driver | \geq |
| DK-23 | Discon. | Precision Driver | \bowtie |
| DK-24 | Discon. | Precision Driver | \sim |
| DK-25 | | Precision Driver | ĸ |
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| DK-26 | | Precision Driver | ĸ |
| DK-30 | Discon. | ⊖Precision Driver Set | \succ |
| DK-31 | Discon. | Precision Driver | \sim |
| DK-32 | | Precision Driver | ĸ |
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| DK-33 | | Precision Driver | K |
| DK-34 | Discon. | Precision Driver | \bowtie |
| DK-35 | Discon. | Precision Driver | \sim |
| DK-36 | Discon | Precision Driver | K |
| | | | 39 |
| DK-50 | | Reversible Driver Set | |
| DK-51 | 1651 | Reversible Driver | 39 |
| DK-52 | 1652 | Reversible Driver | 39 |
| DK-53 | 1653 | Reversible Driver | 39 |
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| DK-60 | | ⊕⊖Precision Driver Set | ĸ |
| DK-80 | | Computer Driver Set | \bowtie |
| DK-81 | Discon. | Mobile Phone Driver Set | \bowtie |
| DK-82 | | Mobile Phone Driver Set | Þ |
| DK-90 | 1690 | Ceramic Alignment Driver Set | 48 |
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| DK-91 | 1691 | Ceramic Alignment Driver Set | 49 |
| DKD-01 | 1781 | Circuit Testing Driver | 45 |
| DKD-02 | | Circuit Testing Driver | \sim |
| DKD-02 | 1783 | Led Circuit Tester | 45 |
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| DM-20 | 1180 | | 47 |
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| DM-22 | 1182 | ⊕Precision Driver | 47 |
| DM-23 | 1183 | Precision Driver | 47 |
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| DM-25 | 1185 | Precision Driver | 47 |
| DM-26 | 1186 | ⊕Precision Driver | 47 |
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| DM-31 | 1191 | ⊖Precision Driver | 47 |
| DM-32 | 1192 | ⊖Precision Driver | 47 |
| DM-33 | 1193 | ⊖Precision Driver | 47 |
| DM-34 | 1194 | ⊖Precision Driver | 47 |
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| DM-35 | 1195 | ⊖Precision Driver | 47 |
| DM-36 | 1196 | ⊖Precision Driver | 47 |
| DM-60 | 1200 | ⊕⊖Precision Driver Set | 47 |
| DN-01 | 1701 | Nut Driver | 44 |
| DN-02 | 1702 | Nut Driver | 44 |
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| DN-03 | 1703 | Nut Driver | 44 |
| DN-04 | 1704 | Nut Driver | 44 |
| DN-05 | 1705 | Nut Driver | 44 |
| DN-06 | 1706 | Nut Driver | 44 |
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| DN-07 | 1707 | Nut Driver | 44 |
| DN-08 | 1708 | Nut Driver | 44 |
| DN-09 | 1709 | Nut Driver | 44 |
| DN-10 | 1710 | Nut Driver | 44 |
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| DN-12 | 1712 | Nut Driver | 44 |
| DNC-55T | 0455 | Nut Catching Driver | 44 |
| DNC-57T | 0470 | Nut Catching Driver | 44 |
| DNC-65T | 0465 | Nut Catching Driver | |
| | | | 44 |
| | Discor | Pro Nut Driver | 44 |
| DNP-05 | Discon. | | |
| DNP-05 DNP-07 | Discon. | Pro Nut Driver | |
| DNP-05 DNP-07 DNP-08 | Discon. | | |
| DNP-05 DNP-07 | Discon. Discon. | Pro Nut Driver | |
| DNP-05 DNP-07 DNP-08 DNP-10 | Discon. Discon. Discon. | Pro Nut Driver Pro Nut Driver Pro Nut Driver | |
| DNP-05 DNP-07 DNP-08 DNP-10 DP-03 | Discon. Discon. Discon. 1803 | Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ | |
| DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 | Discon. Discon. Discon. 1803 1813 | Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊝ | 38 |
| DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 | Discon. Discon. 1803 1813 1824 | Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊝ Pro-Use Driver⊕ | 38 38 38 |
| DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 | Discon. Discon. Discon. 1803 1813 | Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊝ | 38 38 38 |
| DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 | Discon. Discon. 1803 1813 1824 | Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊖ Pro-Use Driver⊕ Pro-Use Driver⊕ | 38 38 38 |
| DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-44 | Discon. Discon. 1803 1813 1824 1834 1844 | Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ | 38 38 38 38 38 |
| DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-24 DP-34 DP-44 DP-54 | Discon. Discon. 1803 1813 1824 1824 1834 1844 1854 | Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ | 38 38 38 38 38 38 38 |
| DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-34 DP-44 DP-54 DP-64 | Discon. Discon. 1803 1813 1824 1824 1834 1844 1854 1864 | Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ | 38 38 38 38 38 38 38 38 |
| DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-24 DP-34 DP-44 DP-54 | Discon. Discon. 1803 1813 1824 1824 1834 1844 1854 | Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ | 38 38 38 38 38 38 38 38 |
| DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-34 DP-44 DP-54 DP-64 | Discon. Discon. 1803 1813 1824 1834 1834 1844 1854 1864 | Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊝ Pro-Use Driver⊖ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ | 38 38 38 38 38 38 38 38 38 38 |
| DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-34 DP-44 DP-54 DP-64 DR-03 DR-04 | Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1203 1204 | Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊖ Pro-Use Driver⊖ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set | 38 38 38 38 38 38 38 38 38 40 40 |
| DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-34 DP-44 DP-54 DP-64 DR-03 DR-04 DR-05 | Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1203 1204 1205 | Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver | 38 38 38 38 38 38 38 38 38 38 40 40 |
| DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-24 DP-34 DP-44 DP-54 DP-64 DP-64 DR-03 DR-04 DR-05 DR-06 | Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1203 1204 1205 1206 | Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver Offset Ratchet Driver with Bit Set | 38 38 38 38 38 38 38 38 38 38 40 40 40 |
| DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-34 DP-44 DP-54 DP-64 DR-03 DR-04 DR-05 | Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1203 1204 1205 | Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver | 38 38 38 38 38 38 38 38 38 38 40 40 40 |
| DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-34 DP-54 DP-54 DR-03 DR-03 DR-03 DR-04 DR-05 DR-05 DR-05 | Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1203 1204 1205 1206 1207 | Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver Offset Ratchet Driver with Bit Set Twin Wrench Driver Set | 388 388 388 388 388 388 388 388 388 388 |
| DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-34 DP-54 DP-64 DR-05 DR-06 DR-06 DR-06 DR-07 DR-08 | Discon. Discon. 1803 1813 1824 1834 1834 1854 1864 1203 1204 1205 1206 1207 1208 | Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver with Bit Set Twin Wrench Driver Set Ratchet Stubby Driver Set(Flex.) | 38 38 38 38 38 38 38 38 38 38 38 38 38 3 |
| DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-34 DP-34 DP-54 DP-54 DP-64 DR-03 DR-04 DR-05 DR-05 DR-05 DR-07 DR-08 DR-07 | Discon. Discon. 1803 1813 1824 1834 1844 1854 1854 1205 1204 1205 1206 1207 1208 1210 | Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver Offset Ratchet Driver With Bit Set Twin Wrench Driver Set(Flex.) Bit Set | 38 38 38 38 38 38 38 38 38 38 38 38 38 3 |
| DNP-05 DNP-07 DNP-08 DP-03 DP-03 DP-03 DP-24 DP-34 DP-34 DP-44 DR-03 DR-04 DR-03 DR-04 DR-05 DR-06 DR-07 DR-06 DR-07 DR-08 DR-10 DR-11 | Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1203 1204 1205 1206 1207 1208 1210 | Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver with Bit Set Ratchet Stubby Driver Set(Flex.) Bit Set | 38 38 38 38 38 38 38 38 38 38 38 38 38 3 |
| DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-34 DP-34 DP-54 DP-54 DP-64 DR-03 DR-04 DR-05 DR-05 DR-07 DR-08 DR-07 | Discon. Discon. 1803 1813 1824 1834 1844 1854 1854 1205 1204 1205 1206 1207 1208 1210 | Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver with Bit Set Ratchet Stubby Driver Set(Flex.) Bit Set | 38 38 38 38 38 38 38 38 38 38 38 38 38 3 |
| DNP-05 DNP-07 DNP-08 DP-03 DP-03 DP-13 DP-24 DP-24 DP-24 DP-24 DP-24 DP-64 DP-64 DR-03 DR-04 DR-05 DR-06 DR-06 DR-06 DR-07 DR-08 DR-00 DR-11 DR-11 | Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1203 1204 1205 1206 1207 1208 1210 1211 Discon. | Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver Offset Ratchet Driver with Bit Set Twin Wrench Driver Set Ratchet Stubby Driver Set Bit Set Bit Set | 38 38 38 38 38 38 38 38 38 38 38 38 38 40 40 40 40 40 40 40 40 40 40 40 40 40 |
| DNP-05 DNP-07 DNP-08 DP-03 DP-03 DP-24 DP-34 DP-34 DP-34 DP-44 DP-54 DR-04 DR-04 DR-05 DR-04 DR-05 DR-06 DR-07 DR-06 DR-07 DR-08 DR-07 DR-11 DR-11 DR-11 DR-13 | Discon. Discon. Discon. 1803 1813 1824 1834 1844 1854 1854 1864 1203 1204 1205 1206 1207 1208 1210 1211 Discon. 1215 | Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver With Bit Set Twin Wrench Driver Set Ratchet Stubby Driver Set Bit Set Bit Set Bit Set | 38 38 38 38 38 38 38 38 38 38 38 38 38 3 |
| DNP-05 DNP-07 DNP-08 DP-03 DP-03 DP-24 DP-34 DP-34 DP-54 DP-54 DP-54 DR-04 DR-05 DR-04 DR-05 DR-06 DR-07 DR-08 DR-07 DR-08 DR-07 DR-08 DR-10 DR-11 DR-11 DR-11 DR-15 DR-16 | Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1203 1204 1205 1206 1207 1208 1210 1211 Discon. 1215 1216 | Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver Offset Ratchet Driver With Bit Set Twin Wrench Driver Set Ratchet Stubby Driver Set(Flex.) Bit Set Bit Set Bit Set Bit Set | 38 38 38 38 38 38 40 40 40 40 40 40 41 41 41 |
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| | | | \Leftrightarrow |
| TS-21 | | Spanner(Inclined Head) | K |
| TS-22 | Discon. | Spanner(Inclined Head) | \bowtie |
| TS-23 | Discon. | Spanner(Inclined Head) | \boxtimes |
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| TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-60 TWB-80 TWH-01 TWH-01 TWH-02 TWH-04 TWH-11 TWH-12 | 6225 6230 6240 6250 6260 6280 6301 6302 6304 6311 6312 | Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Hex Key Wrench Hex Key Wrench Hex Key Wrench | 53 53 53 53 53 53 53 53 53 53 53 53 53 |
| TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-60 TWB-80 TWH-01 TWH-02 TWH-02 TWH-04 TWH-11 TWH-12 TWH-13 | 6225 6230 6240 6250 6260 6301 6302 6304 6311 6312 6313 | Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench | 53 53 53 53 53 53 53 53 53 53 53 53 53 5 |
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